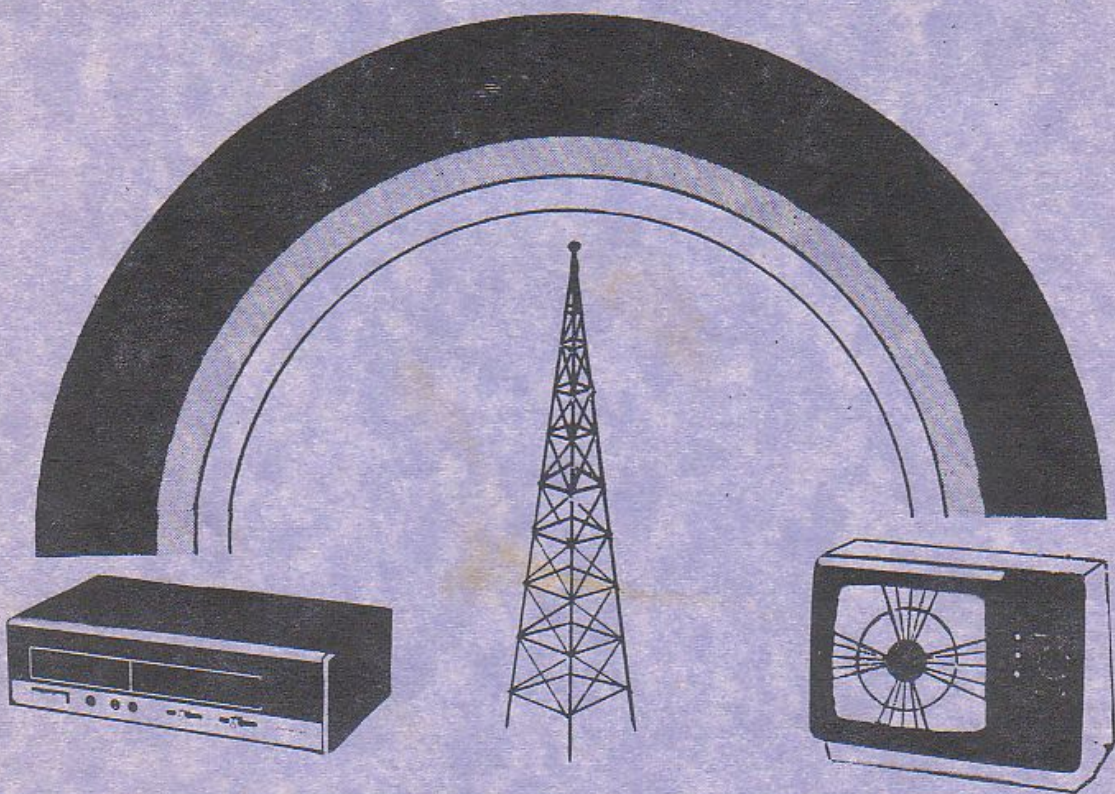


**VHF-UHF
DIGEST**
the official publication of the Worldwide TV-FM DX Association

APRIL 1977

TV-FM: The Season Begins Again...



From The Staff:

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394

CONVENTION '77...Our first Western gathering in Portland this summer is already being awaited with much anticipation. Hosts Frank Aden, Bill Block and Pat Martin report confirmed convention dates as August 5 to 7. Mark your calendar, and keep an eye on the Digest for more details!

DX GET-TOGETHER...An all-band meeting will be held at noon on Saturday, May 14, at Bill Block's home on 133 SE 31st Ave. in Portland. Free beer and refreshments will be served. For more information, call Bill at 503-234-1809. It's a great chance to see Portland before the convention!

COLUMN CHANGES...Don't forget that beginning next month, only 4 columns will exist for TV-FM DX reports. The Mississippi will be the dividing line for EASTERN and WESTERN TV DX; NORTHERN FM DX will cover states north of the Mason-Dixon line plus WA, OR, ID, MT, WY, ND, SD, NE, MN, IA and WI, while SOUTHERN FM DX will cover all other states and Mexico. If you're confused as to which column should receive your reports, drop a line to your editor (address on back cover) or to the DX column editor you suspect is yours. In non-DX column mergers, Robert Williams would appreciate your DX stories, as the editor of a combined MEMORABILIA and THIS IS YOUR DX column, and all news on station slogans/logos or foreign TV should be sent to Dave Pomeroy's FCC TV NEWS column. (INTERNATIONAL NOTES and TV CCI AIDS are no more.) Your comments, constructive criticisms, questions, and suggestions are welcomed!

TV STATISTICS/SCOREBOARD...By now you may have stopped wondering what's happened to this column. The answer is that we've been researching some editorship possibilities, but with no success, so it's back to you again. If you'd be interested in cataloguing and measuring members' distance records and log totals for TV, please drop a line to your editor at the address listed on back. It's a comprehensive job, so be ready to work!

REPRINT SERVICE...This popular new club institution has recently passed from your editor into the capable hands of Mike Hogan, and our records show that all but the most recent orders have been filled. If you have an order which has been outstanding for more than about 2 months, please drop us a line as soon as possible. Thanks to the many members who have purchased more than 1400 pages of reprints in less than a year!

73, *Clarke* for Pete, John, Mike, and Morrie

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MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 15th

New Members:

Richard Eckman	2328 Griffith St.	Philadelphia, PA 19152
Thor Hauer	Bergfrueveien 4.A.	1720 Greaker, Norway
William Hepburn	5659 Highland Ave.	Niagara Falls, ON L2G 4X2
Michael McNeely	618 Sheridan Road	Evansville, IN 47710
Michael E. Myers	4148 Sheraton Drive	Flint, MI 48504
William Nicholson	1210 W. 37th St., Apt. 2	Los Angeles, CA 90007
Gary R. Walsh	503 Van Norman St.	Thunder Bay Sta. P., ON P7A 4E3
Arthur Williams	4521 S. Broadway	Los Angeles, CA 90037

Renewals:

Donald Allison, R.B. Ammons, Danny Buntin, Tom Cornell, Mike Dorner, Pat Dyer, Wayne Fitzgerald, David Leibold, Pat Martin, Henry McCoy, Fred Nordquist, Guy Ogden, Les Price, Theodore Quiroz, John Robertson, James Shepherd, Craig Simons, Joseph Smith, Jr., Richard Steinberger, Verrell Tallet, Peter V. Taylor, Steve West, Roger Winsor, Mike Worst.

Rejoin:

Ted Fleischaker-3023 Tremont Drive-Louisville, KY 40205

Address Changes:

Robert Buta-1502 Allendale, Apt. 15-Pasadena, TX 77502
Richard Clark-Avenida 27 de Febrero #23-Puerto Plata, Dominican Republic
Larry Weil-116 Independence Ave.-North Babylon, NY 11702

Renewals Due in May:

Roy Barstow, Joe Bradley, Carl Brown, William Dickerman, George Greeley, Jon Hauko, Roger Horie, Eldon S. Luoma, Alan Mayer, Lowell McCown, Marv Robbins, Edward Smith, Jr., James Young, Robert Zent.

RICHARD ECKMAN is another of the many BCB DXers interested in TV-FM DX. His main DX interest is the BCB, and he also dabbles in SW and TV DX. He's a member of NRC and IRCA.

From Scandinavia comes new member THOR HAUER. His DX gear includes a Tandberg Huldra 10 AM/FM stereo receiver. Thor found out about WTFDA thru the World Radio-TV Handbook.

Communications World is where MICHAEL E. MYERS learned of WTFDA. A member of NRC, Michael's DX shack features a Realistic DX-160 for SW and BCB and a Sony GRF-5100 for FM.

City of Angels new member WILLIAM NICHOLSON is a student at the University of Southern California. For FM DXing, William uses a Heath AR-1500A tuner and a Winegard CH-6065 antenna at 30'.

New member GARY R. WALSH has some impressive credentials- he's a radio producer for the Canadian Broadcasting Corporation (CBC). His interests cover FM and SW DXing, as well as ham radio and slow-scan TV. Gary's DX gear includes a Heath AJ-1515 tuner and a 10 element FM antenna with a rotor, a Trio JR-310 ham receiver, a Barlow Wadley XCR-30, and Realistic products including a DX-150B receiver, a Patrolman 9 multiband receiver, and a Patrolman Pro 7A VHF scanner.

Tidbits.....

Larry Vogt is interested in hearing from any member who experienced receiving European (particularly British) television within the USA during the last sunspot peak.

Veteran TV DXer Bob Seybold writes: "I really enjoy being in this organization and wish it continued success in years to come. I treasure the memories of past years - conventions - meeting new friends and DXers and the old ones - a grand bunch. It has been a terrible winter so far but I am looking forward to spring and its hopes. The best to the staff and keep up the good work."

That's all for this month....see you in May!.....jz



FCC TV NEWS AND DATA

Dave Pomeroy
KTWU--Channel 11
301 N. Wanamaker Rd.
Topeka, Kansas 66604

April 1977

TV Applications

Oklahoma City, OK	(14)	1170kw	1540AAT
Oklahoma City, OK	(14)	790kw	522AAT
Oklahoma City, OK	(34)	1343kw	1209AAT
Mt. Vernon, IL	(13)	316kw	786AAT
Miami, FL	(33)	1603kw	943AAT
Concord, CA	(42)	20.6kw	536AAT
Hanover, NH	(31)	20.9kw	470AAT
*Jacksonville, IL	(14)	4020kw	1608AAT
Baltimore, MD	(24)	1315kw	571AAT
Baltimore, MD	(54)	518kw	809AAT
Memphis, TN	(24)	841.8kw	990AAT
*Flower Mound, TX	(2)	100kw	1671AAT
(Denton, TX area)			
Manassas, VA	(66)	310.5kw	585AAT
Houma, LA	(11)	316kw	468AAT

CP's Granted

Longview, TX	(16)	400kw	737AAT
*Eufala, OK	(3)	100kw	1310AAT
*Park Falls, WI	(36)	741kw	1468AAT

Call Letter Applications

*KOET	Eufala, OK	new ch. 3
*KLRU-TV	Austin, TX	new ch. 18
WMBB	Panama City, FL	now WDTB
WTVG	Newark, NJ	now WBTB-TV
WJKW-TV	Cleveland, OH	now WJW-TV
KTYL	Medford, OR	now KMED-TV
KCIK	El Paso, TX	
*WERF-TV	Park Falls, WI	new ch. 36
WIFR-TV	Freeport, IL	now WCEE-TV
WQRF-TV	Rockford, IL	
WJLA-TV	Washington, DC	now WMAL-TV

Call Letters Granted

*WLEF-TV	Park Falls, WI	new ch. 36
KTVP	Fayetteville, AR	was KGTO-36
WQRF-TV	Rockford, IL	
WBAK-TV	Terre Haute, IN	now WIIL-TV
*WPTD	Kettering, OH	now WOET-TV
*WPTO	Oxford, OH	now WMUB-TV
KGMV	Mau, HI	now KGME-TV

*non-commercial, public television stations

Translators Granted

K09NK	Perryville, AK	
K06IY	Fifteen Mile Valley, CA	KTTV
K48AD	Lucerne Valley, CA	KTTV
K54AD	Lucerne Valley, CA	KCET
K02IL	Pagosa Springs, CO	KREZ
K06IX	Rangely, CO	KREX
W65AG	Mountaintop area, PA	WDAU
K10KI	NW Spokane, WA	was K09FO
K12KS	Nulato, AK	AFTV
K02IK	Gateview, CO	KBTV
K33AA	Ottumwa, IA	KIIN
K68BA	Pacific City, OR	KOAP
K05GE	Shell, WY	KULR
K12KT	Shell, WY	KTVO
K070M	Ambler, AK	KTVA
K070P	Emmonak, AK	KENI
K070N	Gambell, AK	KIMO
K070O	Larsen Bay, AK	KAKM
K09NJ	Holy Cross, AK	KTVA
K09NI	Mekoryuk, AK	KENI
K09NG	Noatak, AK	KIMO
K09NH	Shungnak, AK	KAKM
K10KH	Shunak, AK	
K10KG	Tenakee Springs, AK	
K02IJ	Somerset, CO	KOAA
K11NS	Natoma, KS	KLNE
K130M	Natoma, KS	KSNB
K09NF	Chitina, AK	KTVA
K09ND	Old Harbor, AK	KENI
K070I	Kipnuk, AK	
K48AC	N. Kenai, AK	KAKM
K070K	CA Polytechnic Institute, CA	KCOY
K12KR	Toponas, CO	KOA
K59AV	Salmon, ID	
W67AJ	Ann Arbor, MI	WJIM
K58AO	Crystal Bay, NV	KOLO
K02II	Searchlight, NV	KSHO
K05GD	Smith, NV	KOLO
K65AX	Eldorado Valley, NV	KORK
W42AD	Unadilla Center, NY	WSKG

Thanks to:

Morrie Goldman, John Combs, Ron Wing,
Bill Coleman Jr., Clarke Ingram, and
Doug Everitt.

FROM THE READERS...

WTVQ-62 wants channel 36 assigned to Lexington, KY--now assigned to Portsmouth, OH... FCC is giving thought to adding short-spaced VHF "drop-ins" to the following cities: Charleston, WV(12), Johnstown, PA(8) or Altoona, PA(12), Knoxville, TN(8), and Salt Lake City, UT(13)...In Durham, NC new owners of WRDU-28 plan drastic programming and technical improvements...also in Durham, Carolina Christian Broadcasters are planning to apply for channel 22...WPCB-22 in Pittsburgh now plans summer target date...WGTQ-8 in Detour, MI is new station on air; not WGTU-29 in Traverse City as reported in this column in January--WGTQ must be a satellite of WGTU...WBOY-12 in Clarksburg, WV has dropped NBC in favor of ABC...WFMZ-69 in Allentown, PA is on the air with a "big" 18.25kw; is a revival of the old WFMZ-68 which operated there in the 1950's (Does anyone know if they are using the same transmitter? dp)...Although many rumors circulate about a fourth commercial network, no definite plans have yet been announced...WPGH-53 in Pittsburgh is now on all night Friday and Saturday nights...Channel 55 in Leesburg (Orlando, FL) is being sought for use as Spanish outlet...Kentucky Educational Television Network hopes to buy defunct WDXR-29 in Paducah, KY for new outlet in statewide PTV system--asking price right now is \$1...Morrie Goldman has again pointed out the threat to our hobby as a result of the increased use of UHF (and maybe VHF) channels by land mobile interests.



FM NEWS

Bruce F. Elving, Ph.D., Editor
18 1/2 East Fifth Street
Duluth MN 55805

New Stations Granted

CO Aspen ("Snowmass-at-Aspen," which I assume is the same or virtually the same as plain "Aspen") K261AJ \$, r (KQIX 93.1 Grand Junction CO translator) 100.1, 10 watts
 FL Orlando *89.9 10 watts FL Tech. U.
 IN Rockville 104.9 1200 h,v; 440' 14 miles primary; 45 miles secondary
 KS Iola 99.3 3000 h,v; 300' 15, 46 miles
 LA Minden 95.3 3000 h,v; 145' 9, 37 "
 MA Worcester *89.1 10w Holy Cross College
 MI Escanaba 104.7 100000 h,v; 345' r; 32, 76mi
 NE Crookston 96.1 57000 h,v; 510' 51, 121 km, ethnic (Indian). Rosebud Educational Society, but not known if station to be operated as a noncommercial station or not. Transmitter believed to be in South Dakota.
 NY Albany *90.9 10 w State U of NY
 OH West Carrollton *88.1 10 w, adding to the proliferation (and map crowding) near Dayton of ten-watters. [46, 92 miles
 OR Albany 99.9 100000 h, 50000 v; 1075'; k /
 OR Brookings 95.3 3000 h,v; -208' 5, 17 miles
 TX Marshall 103.9 3000 h,v; 300' 24, 74 km
 VA Richmond *90.1 10 w; U of Richmond
 WA Yakima 98.3 700 h,v; 560' 23, 71 kilometers
 WI Marathon W221AB 92.1 \$ g (WRVM 102.7 Suring WI translator).

OnAir and DX Ready (Presumed)

AL Birmingham WVOK-FM 99.5 100000 h,v; 870' \$, p, has telemetry only SCA.
 AL Troy WTSU*-FM* *90.1 50000 (h only?); 285'
 AK Kenai KQOK 100.1 3000 h,v; 175'
 AR Hope KHFA 104.9 3000 h,v; 300' stereo
 AR Nashville KNAS 105.5 km 3000 h,v; 85'
 ID Nampa KUUZ 96.9 44000 h,v; 2520' 56, 105 miles, stereo; SCA (on with changed facilities)
 KY Madisonville WSOF*-FM* *89.9 15000h,v; 300' g
 NE Superior KRFS-FM 103.9 500 h,v; 59'
 MT Billings KRER*-FM* *88.9 10 watts
 OK Sapulpa KXDJ-FM 100.9 2000 h,v; 360' \$, nr, l
 TX Orange KIOF 106.1 \$ 100000 h,v; 1060' "K-106," music format not reported (?).
 WV Rainelle WRRL-FM 96.7 1150 h,v; 460'
 WY Sheridan KRQE-FM 94.9 58000 h,v; 44'

On Air with Changes (Selected)

NY Troy WFLY 92.3 13000 h,v; 850'
 OR Achland KSOR *90.1 1950 h,v; 1340'; \$; A
 TN Morristown WAZI 95.9 460 h,v (770')
 TN Sewanee WUTS *91.5 10 (from *88.1)
 TX Mc Allen KVMV*-FM* 96.9 100000 h,v; 225'

Facilities Changes Granted

AK Kenai KQOK 100.1 175' (3000 h,v)
 CA Chico KFME 93.7 10,000 h,v; 330' 20, 55 mi.
 CA Los Banos KLSB-FM 95.9 adds v(ertical)
 CO Denver KLIR 100.3 94000 h,v; 890' 69, 143km
 KOSI-FM 101.1 100000 h, 64000v,DA, 790'
 FL Bonita Springs WLEQ 95.9 1100 h,v; 490'
 ID Caldwell KBXL 94.1 has vertical polarization
 IN Muncie WBSI from 90.7 to *92.1 3000 h,v; 300'
 IA Cherokee KCHE-FM 92.1(or 102.3) 210'(3000hv)

ME Westbrook WRQN 100.9 3000 h,v; 225' \$; r
 MA Walpole WNA *91.5 adds vertical (10 w)
 MI Flint WACK 105.5 2350 h,v; 330' 15, 46 mi
 MS Jackson WKXI 94.7 68000 h,v; 430' 33, 74"
 NE Columbus KJSK-FM 101.1 adds vertical
 NJ Trenton WBJH 101.5 50000 h,v (120') [560'
 OH Columbus WNCI 97.9 175000 h, 105000 v DA,
 OH Struthers WKTL *90.7 15000h, DA; 23'
 PA Philadelphia WYSP 94.1 16000 h,v (900')
 TN Cookeville WPTN-FM 94.3 adds vertical
 VA Appomattox WTTX-FM 107.1 " "
 VA Roanoke WLRG 92.3 goes from -57' to 2000' (20000 h,v) 74, 146 kilometers' coverages.
 UT Cedar City KBRE-FM 94.9 25500 h,v; 1680'
 UT Salt Lake City KUER *90.1 has vertical
 WA Pasco KOLU *90.1 adds vertical
 PR Hormigueros WROZ*-FM* 92.1 110' (3000h,v)
 PE Charlotetown CBC-FM from 103.1 to 95.9; 93500 h,v; 825'; 69, 140 kilometers.

Deletion

MB Missi Falls CHMF 96.1 (hydro plant construction ceases; city of "Missi Falls" apparently vanishes!)

Formats/Networks

AR Monticello KHBM-FM 93.5 k
 AR Walnut Ridge KCAC 106.3 E | WVCN 100.1 km
 CA San Diego KIFM 98.1 r (from rm)
 FL Clearwater WOKF 95.7 may have dropped ABC-FM (see lower note about WLCY-FM)??
 FL Jacksonville WQIK 99.1 E (from Mutual)
 FL Panama City WKGC *90.7 P | KY Elkhorn City
 FL Tampa WLCY-FM 94.9 A | WECL 103.1 r; \$ WRQ 104.7 no A | KY Harrods-
 GA Americus WPIR 97.7 m (from rm) | burg WBNB-IL Geneseo WRSQ 104.9 m; \$ | FM 99.3 km
 IN Terre Haute WUTS 100.7 l | LA Shreveport
 KS Ellsworth K224AC 92.7 m (not nr) | KEPT
 KS Garden City KUPK-FM 97.3 l | ME Bangor (not A)
 KS Great Bend K257AB 99.3 m (not nr) | 96.5 E | KVBG-FM 104.3 m (not nr) | WBGW (not A)
 KS Lyons KLOQ 106.1 m (not nr) | 197.1 E
 KS Wichita KUMW *89.1 s | KY Hodgenville WLCB-FM 106.3 m (not r), but some k heard. The station plays "oldies," and I assumed these were rock oldies until I heard a tape Ted Fleischaker sent, revealing that it plays m oldies! [Disco]
 KY St. Matthews WSTM 103.1 rs (so-called /
 ME Brunswick WKXA-FM 98.9 k; no network
 ME Lincoln WLKN-FM 99.3 r; l; stereo
 MD Lexington Park WDMO 97.7 A
 MA Springfield WNAS-FM 94.7 rumor has it will switch to separate rock programming
 MN St. Louis Park KFMX 104.1 A (from NBC)
 MO Butler KMDE 92.1 km [rock]
 MO Rolla KMNR *89.7 c; KCLU-FM 94.3 k (from/
 MO Warrensburg KCMW *90.9 mostly classical
 NH Manchester WGR-FM 101.1 r (from m); \$
 NM Los Alamos KRSN-FM 98.5 mc NY Utica WOUR
 NM Santa Fe KSNM 95.5 mc 96.9 ABC-FM
 NY Cortland WSUC *90.7 r
 NY Fulton WKFM 104.7 no network (was Mutual)
 OK Lawton KRLG 96.1 rp (not rm)

NC Greensboro WQMG 97.1 rs (from nr)
 OH Bowling Green WKIQ 93.5 l
 OH Canal Fulton WNR *90.9 rock
 OH Elyria WBEA 107.3 E SC Greenville WESC-
 OH Ottawa WPNM 106.3 Y
 OK Okmulgee KLLS 94.3 m FM 92.5 k
 OK Ponca City KLDK 99.3 r (not rm)
 OK Poteau KLCO-FM 97.9 rp (no k)
 OK Pryor KKMA 104.5 gk [longer m]
 OK Stillwater KSPL-FM 93.9 r (no /
 OK Tonkawa KAYE *90.5 r ("very professional 10-watter") [news, NIS]
 SC West Columbia WSCQ 100.1 r (from/
 TN Clinton WYSH-FM 104.9 k (from r)
 TN Knoxville WBIR-FM 103.5 C ("A)
 TX Brenham KWHI-FM 106.3 E
 TX Clear Lake City KLYX 102.1 S (AP Audio, replacing NBC's N.I.S.) [\$
 TX College Station KAMU *90.3 cj, P/
 TX Dallas KAFM 92.5 r (from rk)
 TX El Paso KPAS 93.9 ABC-FM
 WA Tacoma KNBQ 97.3 A (from Mutual)
 WV Morgantown WAJR-FM 101.9 m (not r); SCA has sports
 NON-IDers (Selected; see also readers' reports)

MI Port Huron WSAQ 107.1 Q-107
 NY Jamestown WJSE 93.3 SE-93
 OH Cleveland WDMT 107.9 FM-108
 PA Erie WCKK 103.7 k-104
 ON Kitchener CKGL 96.7 "Big Country" Stereo, or to go Stereo

CA Berkeley KALX *90.7
 IA Emmetsburg KEMB 98.3, m [MI Midland
 KS Hiawatha 103.9, m [land
 ME Norway WOXO 92.7, r [WRCI
 ME Orono WNEB *91.9, r [193.5 r, [Mutual
 ME Portland WPOR-FM 101.9, k [Mutual
 ME Rumford WRUM-FM 96.3 r; no CBS
 MO Farmington KTJJ 98.5
 NM Albuquerque KRKE-FM 94.1
 NY Stony Brook WUSB *90.1
 OH Cleveland WBOE *90.3 m; talk; P
 TN Cleveland WCLE-FM 100.7, r
 TN Jefferson City WBSB 99.3, mk

SCA (67 kHz) News

AL Birmingham WENN-FM 107.7 adds SCA; network remains B (National Black), not adding Mutual Black.
 CT Westport WDJF 107.9 Q (PRN)
 GA Atlanta WREK *91.1 talk (educational programs)
 ID Jerome KFMA 102.9 adds SCA [(X).
 IL Effingham WCRC 95.7 facsimile /
 LA New Orleans WNO *89.9 telemetry only. // AL Birmingham WERC-FM 106.9 telemetry only. //
 NY New York WRFM 105.1 music. OH Newark WNKO 101.7 no SCA heard to date; must be telemetry.
 TX Waco KEFC 95.5 has SCA
 VA Richlands WGTB 105.5 adds SCA
 OK Oklahoma City KAEZ 107.7 sr, still monophonic.

FCC-FM

Call Letters

AL Fayette 98.1 WHKW (was WVEL)
 AK Nome 100.3 KICY-FM
 CA Bakersfield 107.9 KXXX (KUZZ-FM)
 CA Indio 103.1 KCMS
 CA Mariposa 96.3 KUBB
 CA Pacific Grove 104.9 KOCN
 CA Salinas 102.5 KDON-FM (KBEZ)
 CA San Francisco 99.7 KYUU (KNAI); \$, rm, may have NBC news late at night
 CA Truckee 101.7 KEZC (KSMI); now music?
 CT Wallingford *89.9 WNEB
 FL Daytona Beach 94.5 WWLV (WJDN)
 FL Lehigh Acres 107.1 WSWF (WAYK-FM)
 FL Tampa *88.5 WIND ("wonderful Wino?")
 GA Columbus 102.9 WRBL-FM (WRBL-FM)
 GA Macon 107.9 WCRY-FM (WCRY-FM)
 ID Pocatello 104.9 KRBU
 IL Pana 100.9 WKXX
 IL Zion 96.9 WKZN-FM (WKZN-FM)
 IN Kokomo 92.7 (from 93.5) WZVZ (WKMO)
 IA Sioux City KWIT (KWIT-FM)
 KY Louisville 97.5 WAMZ (WNS); \$, k, no NIS
 LA Lafayette 99.9 KTDY (KPEL-FM)
 LA Many 107.1 KQLV
 LA Sulphur 100.9 KLOQ
 MD Emmitsburg *89.9 WMTB
 MI Grand Rapids 101.3 WMLW (WYON)
 MI Ironwood 106.9 WUPM
 MS Clarksdale 106.3 WAID
 MO Tarkio 93.5 KTRX
 NE Omaha KEFM 96.1 on air with \$, m (interim)

KS Chanute 105.5 KQSM (was KKQY-FM)
 KS Concordia *88.3
 MA Lynn 101.7
 WLYN (WLYN-FM)
 MA Pittsfield
 *89.5 WTBW-FM

NJ Blackwood *91.5 WDBK
 NJ New Brunswick 98.3 WMGQ (WQMR)
 NM Aztec 94.9 KWYK-FM
 NY Rochester 92.5 WMJQ (WNWZ); \$, r, UPI Audio (drops all-news, NIS)
 NC New Bern 101.9 WRBK (WOBW)
 NC Wilmington 97.3 WHSL (WWIL); A (from Z); drops soul, but not known for sure what WWIL's new music will be, except it will be what the AM station's music was.
 ND Mandan 104.9 KNOR
 OH Columbus 96.3 WLVO (WTVN-FM), r
 "Q-FM-96."
 OH Dayton *80.5 WWSU
 OK Weatherford 97.3 KWEY-FM to 400' (69000hv)
 OR Ontario 96.1 KXBG
 PA Lancaster 101.3 WNCE (WGAL-FM)
 PA Oil City 98.5 WRJS (WQJR)
 PA Pittsburgh 96.1 WXXX (WTAE-FM)
 PA Ridgway 94.3 WTMX (WKBI-FM)
 SC Surfside Beach-Garden City 103.1 WYAK-FM
 TN Dickson 102.3 WTNO (WDKN-FM)
 TN Huntingdon 100.9 WPGV
 TX Amarillo 98.7 KZIP-FM (KFRN)
 TX Floresville 94.3 KWCB
 PA Wayneburg 103.1
 WANG-FM
 VT Montpelier 96.7 WNCN
 VA Richmond *90.1 WDCE

**COMING SOON
 on a Radio
 Near You
 THE
 BIG SWITCH
 WHSL-
 WWIL**

Simon Geller faces FCC Hearing for WVCA
 The Commission has set for hearing the application for WVCA-FM 104.9 Gloucester MA, along with a competing application of the Grandbanke Corp. Issues to be considered include whether a waiver should be granted to allow WVCA to operate less than 12 hours a day; if Geller is qualified to be an FCC licensee; and which application to be granted.

WA Seattle 96.5 KYYX (KYAC-FM)
 WI Sheboygan 97.7 WJLR (WHBL-FM)
 WI Waukesha *88.1 WCCX
 WY Sheridan 96.5 WNYO-FM
 PQ Longueuil-St. Lambert 98.5 CIEL; \$; Dolby

DOLBY CHANGES: Based primarily on the latest list supplied by the Dolby Co., but including information supplied by reporters that in some cases contradicts that which Dolby supplied. All stations listed below adding Dolby unless otherwise noted.
 CA Berkeley KPFA 94.1, CA Los Angeles KJ01 98.7, CA San Diego KLRO 94.9, CA San Francisco KKHI-FM 95.7
 CT Hartford WDRG-FM 102.9
 ID Moscow KUOI *89.3; \$, too
 IL Urbana WILL-FM *90.9
 KS Hutchinson KSKU 102.1
 KS Manhattan KMKF 101.7
 KS Topeka WIBW-FM 97.3 [Dolby
 KY Louisville WLRS 102.3 no longer/
 KY Louisville WUOL *90.5 [Dolby
 LA Baton Rouge WFHF 102.5 no longer/
 MO Greenfield KRFG 93.5, NY Geneva WEOS *89.7, TX Houston KLEF 94.5
 TX Lamesa KCOT 104.7; \$, too
 TX Nacogdoches KSFA-FM 92.1
 VA Altavista WKDE-FM 105.5 no longer
 Dolby, WI Delafield WHAD *90.7
 WI Highland WHHI *91.3, WI Madison WERN *88.7, but no mention that the rest of the WI Ed. Radio Network is so equipped; WI Moncton CFQM 103.9, ON Brampton CFNY 102.1, ON London CFPL-FM 95.9, ON North Bay CKAT 93.7
 ON Tillsonburg CKOT-FM 101.3
 ON Wingham CKNX-FM 101.7, \$; heard testing without identifications.

Abbreviations Used (Selected)

c classical, e ethnic, g gospel, k country, m middle of the road music, n news, p progressive rock, r rock oldies, top hits and "soft rock," s soul, t talk. Networks: A ABC-FM, B National Black Network, C CBS, E ABC Entertainment, I ABC Information, M Mutual, N NBC, P National Public Radio, Y ABC Contemporary, Z Mutual Black Network. \$-stereo; v vertical polariz'tin

FCC Waivers Granted

The effective date of the FCC's extension to the AM-FM program nonduplication rule has been extended from May 1, 1977 to June 1, 1977 (one month). This rule requires AM-FM stations in cities of over 100,000 to duplicate only 25% of the time, with stations in cities of 25,000 to 99,999 having to transmit separately for the first time 50% of their schedules. Of perhaps even more significance are the many waivers the FCC is granting to this rule—in some cases rather long extensions are being granted. This list will probably expand, but for now here is the complete listing of stations being granted waivers to continue their AM-FM program duplication practices, and the dates to which the waivers are effective: WAIM-WCAC (FM) Anderson SC to Feb. 1, 1978; KUPD-KUPD-FM Tempe AZ to June 1, 1978; WGRD-WGRD-FM Grand Rapids MI to Oct. 1, 1979; WZUU-AM-FM Milwaukee WI Dec. 1, 1979; KIXJ-AM-FM Seattle WA Feb. 1, 1978; KOWB St. Paul and KOWB-FM Richfield to May 1, 1978 for 100% duplication and to May 1, 1979 for 50% duplication; WVOX-WVOX-FM New Rochelle NY to Nov. 1, 1977 or until WVOX-FM begins transmitting with 2400 h,v; 330'; KLUC-KLUC-FM Las Vegas NV, 30-90 days; KSMA-AM-FM Santa Maria CA May 1, 1979; KCLD-AM-FM St. Cloud MN Nov. 1, 1977; WBRE-AM-FM Wilkes-Barre PA Aug. 1, 1977; WAKX-AM-FM Duluth MN, Superior WI June 1, 1979; KHAK-AM-FM Cedar Rapids IA May 1, 1978; KZAM-AM-FM Bellevue WA Feb. 1, 1978; WYLD-AM-FM New Orleans LA June 1, 1979; KFJZ-AM-FM Fort Worth TX "60-day extension of current waiver"; KTCS-AM-FM Fort Smith AR Sept. 1, 1977; KGNC-AM-FM Amarillo TX Aug. 1, 1977. The Commission denied the request of KVIL Highland Park and KVIL-FM Dallas-Highland Park TX to continue duplication. As these stations sluggishly begin complying with the AM-FM nonduplication rule watch for program format and network affiliation changes, particularly on the FM sides, and send in the news to this column. It is expected that a greater number of stations will begin complying between now and June 1 — especially stations in the 25,000 and up population category, so watch for these. And when you see that a station in your area is changing its call letters, try to tune it in and see if its programming format, network affiliation, or stereo status is changed. Stations often change call letters when changing music formats, and the FCC's extended AM-FM program nonduplication rule might result in more stations changing their call letters (and/or going to silly "non-IDs") than would otherwise be the case.

I now have FM-SCA working in a portable radio and in the car. Both systems perform very well, and as I travel about I hope to be able to have more accurate news for this column from what I can "snoopervise." Details later in an article I hope to write.

SCA in the car (see below)

Readers' Reports and Comments

A group is forming to apply for a noncommercial, educational FM station in Provincetown RI, the city's first, with plans for it to be on the air 18 hours per day and with at least 1 kw. WBAI 99.5 New York was still off the air at last report, with a lockout of the staff by the management, after some of the staff took over the station's programming directly at the Empire State Building transmitter site. About the Atlas: "On people's comments about too much information, I say the more the better for a DXer. As an example, last year I heard four stations with the same classical music selection. One station ID'd as Wisconsin Ed. Net. Not knowing what stations were in the net, I could not identify the other three, until the new Atlas came and I saw the 'extra' map on p. 75." Allen Rockford says that anyone hearing WONO 107.9 Syracuse NY should not write to him for a verification, as he is no longer working there; Allen doubts that anybody there would answer a letter requesting a verie, so good luck!

WRQK 98.7 Greensboro NC calls itself "K-99," or "Superpower 99," although they still use their call letters with their slogans, so are not what I'd call true "non-IDers." WQMG 97.1 sometimes calls self "97-FM," with rock 6 am to 7 pm, "Adult Contemporary in Stereo," and "Souldin Stereo" 7pm-6am.

"In the back of the Atlas you mention the availability of 'up-to-the-minute' computer printouts. What is the price per state for these? (I suggest you answer this in your column, as it may generate some sales.)" The price for the applications list (new station applications only, not including facilities' changes) is \$3.00 to club members. By state for all stations on the air and authorized, if you really want to update your Atlas it is \$2.00 (no partial states); the entire deck would cost \$25, which covers the entire U. S., Canada, and misc. countries on the air and authorized.

WIFE-FM 107.9 Indianapolis' facilities are being applied for by a number of applicants; Variety reported that WIFE-FM exceeds Class B facilities, and the other Indy FMs want the new station cut back to 50 kw at 500', so as to be competitive. The item below largely concerns WNNS Louisville KY:

Louisville's Ted Fleischaker, 3023 Tremont Drive, 40205, would like to swap tape cassettes of beautiful music FM stations. The NIS news format ended quite abruptly at 12:01 am Feb. 28 when "manager Hugh Barr made an announcement that due to the upcoming end of NIS and the economic problems they had, the news format was ending and a new format, 'America's Music' [k] was starting. They did the oddest change of calls I ever heard, with him then saying that the listeners were to hear an historic moment and adding, 'This is WNNS Louisville, and this is WAMZ Louisville'. That was it, and with that, the computer went to the new automated country format" on 97.5.

WXEN 106.5 Cleveland was to switch to soft rock, but the announced change drew such protests from the station's foreign-language listeners that it has been delayed, and possibly permanently called off. WXEN was supposed to change call letters. After getting a report from a Kalamazooite that WDOV-FM Dowagiac was being "translated" by somebody locally on 92.1 prior to WDOV-FM's actual move to 92.1 from 97.7, I checked and found that WDOV-FM never had any translators, legal or extralegal "there or anywhere else," although they have a sister station in K'zoo, WKPR (AM).

WCAR-FM 92.3 Detroit mis-identifies as "Car-92." The latest program guide from WMXM *88.9 Lake Forest IL gives their power as 10 w, although the FCC lists it as 300 w, which would indicate at least a 50-watt transmitter. I wrote and asked them, but no reply. They're on noon-midnight weekends and 7-9 am; 3 to 11 pm weekdays (until 1 am Sat. and Sunday mornings). From Red Wing MN:

A long friendly letter came from KCUE-FM in response to a report they were on 105.7 instead of 105.5, with the owner asking the reporter to call them collect if he ever notices that problem; a lot different from the treatment Fred McCormack and I got from the owner of KEHG-FM Fosston MN when we notified them of a similar problem! The big new voice of KSUI 91.7 Iowa City should be on in April or May (100 kw, 1310' with v, but directional somewhat away from the north). One reader would like me to say in what direction the major lobe of FM directional stations points. The FCC does not report this information. Usually in FM the difference is not great, with no major "lobe," as such but rather usually a suppression to some extent of the signal in the directional of a station that may be interfered with. By consulting the FMaps you should be able to tell co-channel or adjacent-channel stations that may be protected. KSUI will protect KLSE Rushford MN with their DA.

More nonIDers: KGOR 99.9 Omaha NE now "Rock100" instead of "99-KG." KQKQ 98.5 Council Bluffs IA "KQ-98"; KRNO 102.5 Des Moines is "Q-102." The new KXOJ-FM Sapulpa OK has a very good signal in Enid. This reporter would like to send more updates before my next Atlas deadline and wonders what the deadline is. I don't know; I'm not even sure there will be a 1977 edition; depends on how well the '76 edition copies sell, so don't wait for deadlines—either for the Atlas for for this column—but send in your FM station news whenever you want. I don't like to be rushed before any deadline, but like to have my work spaced out. KJNP-FM 100.3 North Pole AK has its transmitter on order and should be on the air this summer. (Contributors' names to be run next month.)

CANADIAN NEWS REPORT

MARK L. LEWIS
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Ottawa, Ont K2P 0W4
J. JOEL ROSENBERG
909-40 Godstone Rd
Willowdale, Ont M2J 307

NORTH OF THE BORDER REPORT

APRIL 1977

FM NEWS ** APPROVALS

PEI--CHARLOTTETOWN CBC-FM 93.5 kw. Pres: 103.1 MHz Auth: 96.9 MHz Sat. CBH-am
 PQ--BAIE JAMES, 100.5 MHz 116 watts (fr. lang.)
 Ste. ADELE 99.5 MHz 50 Kw.
 DUPLANTER 100.1 MHz 297 watts Sat. CBFR-FM Radisson
 PETITE OPINACA 100.3 MHz 146 watts Sat. "
 EASTMAIN 105.1 MHz 59 watts Sat. Petite Opinaca above
 LAC BOYD 95.1 MHz 59 watts Sat. "
 JONQUIERE 92.5 MHz 423 watts (had requested 93.7)
 LONGUEUIL 98.5 MHz (had requested 93.5 which CBL-FM now occupies)
 ONT--BROCKVILLE CBOB-FM 100.3 MHz 100 kw. Sat. CBO AM & FM on air (via FM SOMO)
 BROCKVILLE CBOF-FM-7 102.1 MHz 3 kw. Sat. CBOF AM Ottawa on air "
 PENETANGUISHENE CJBC-FM-20 96.5 MHz 15.3 kw Sat CJBC AM Toronto
 PETERBOROUGH 106.3 MHz 31 kw. Sat. "
 PENETANGUISHENE 107.5 mhz 15.3 kw. Sat. CBL AM Toronto
 COBOURG ? applied for 103.1 100 kw (granted to another party) Sat. CBL
 ORILLIA CBOC-FM 105.9 MHz 8.64 kw. Sat. CBL AM via CBL FM SOMO
 TORONTO CBL-FM to carry CBL-AM on SOMO
 PETERBOROUGH CKPT-FM 105.1 MHz 50 kw.
 LONDON Sat. CJBC Toronto, also an independent ---both had requested 99.3
 which was granted to another party. Suspect one will be on 100.5
 MAN--EASTERVILLE CBWE-FM 95.5 MHz Pres: 40.5 watts Auth: 85.5 watts
 BC--KITIMAT OBUK-FM 101.1 MHz Pres: 65 watts Auth: 101.5 watts
 LYTTON CFFM-FM-6 4.8 watts Pres: 106.1 MHz Auth: 102.3 MHz
 VANDERHOOF 96.7 MHz 118 watts Sat. CBU-AM via CFFR-AM Prince Rupert
 FORT FRASER 102.9 115 "
 BURNS LAKE 99.1 327 "
 HOUSTON 102.1 318 "
 SMITHERS 97.5 161 "

** APPLICATIONS

NFLD--PORT HOPE SIMPSON 105.1 MHz 83 watts Sat. CFFB-am Happy Valley
 NS--HALIFAX 90.5 MHz 100 kw. Sat. CBH-AM Halifax!!! Complaints of poor quality
 nighttime AM signal results in this ridiculous solution by CBO!
 PQ--SEPT-ILES 96.9 MHz 15 kw. Sat. CBL-AM to replace CBO-AM low power AM xmtr
 MONT JOLI 95.1 MHz 100 kw. (fr. lang. indpt.)
 CAMP LG4 100.1 583 watts Sat. CBFR-FM Radisson
 LAFOREE 99.9 520 watts Sat. "
 BRISAY 100.5 520 watts Sat. "
 RIVIERE DU LOUP 107.1 MHz 8380 watts (fr. lang.)
 GASPE 103.1 MHz 79 watts (fr.)
 RIVIERE AU RENARD 97.9 MHz 58 watts Sat. Gaspé 103.1 above
 LA MALABAIE 92.9 MHz 805 watts Sat. CBV-AM Quebec
 BAIE COMEAU 99.7 MHz 3 kw. Sat. CBL-AM (to replace CBMI-AM low power AM xltr)
 AMQUI 97.3 Mhz 2470 watts Sat. AM indpt stn. in Rimouski
 CAUSAPSCAL 98.3 MHz 82 watts Sat. Amqui 97.3 above
 ONT--WINDSOR 89.9 MHz 100 kw. Sat. CBL-FM Toronto CBO ENG FM net
 KINGSTON CKLO-FM 98.3 MHz Pres: 47.7 kw. Prop: 95.5 kw.
 BRAMPTON CFNY-FM 102.1 MHz & Pres: 857 w. Prop: 100 kw. This may finally pass!!
 ALTA--EDMONTON 93.3 MHz 100 kw. CBO ENG FM net.
 RED DEER 102.5 MHz 1560 watts Sat. CBR AM & FM Calgary
 RED DEER 103.5 MHz 1560 watts Sat. CHFA-AM Edmonton CBO FR AM net.
 FOX LAKE 96.9 MHz 148 watts Sat. CBX-AM Edmonton
 JEAN D'OR 102.5 MHz 52 watts Sat. "
 BC--CACHE CREEK--ASHCROFT 95.3 MHz 125 watts Sat. CFFM-FM-4 Clinton
 WILLIAMS LAKE 97.5 MHz 176 watts Sat. CFFM via CFFM-FM-5 Mt. Timothy

** TIDBITS

APPLICATIONS WITHDRAWN-- SARNIA, Ont 103.9 3 kw. Sat. CBEF-AM Windsor (AM signal improved)
 SIMCOE, Ont 107.5 3 kw. Sat. CBL-AM Toronto

Bob's Tek-Notes

by Robert B. Cooper, Jr.



WHAT HAPPENS (almost) EVERY APRIL...

Warmer weather returns. Cold goes away. THE DX SEASON STARTS ALL OVER AGAIN!

April is truly the month of transition. In April, the DX season starts to do its thing. All forms of DX (with the possible exception of meteor work) are about to take a dramatic rise. Even Roger Brown's pulse rate quickens as the first signs of truly warm weather bring back thoughts of the preceding year's DX activity.

Why is DX a summertime thing? Actually, it is not. It just seems that way. For the truly devoted serious-type DXer with the proper equipment, almost any time of year will or can produce DX. It just all seems to fall together in April, however, for tropo and Es and other good forms of extended-range TV and FM DX activity.

Well, April is here. So where is the DX?

SPORADIC E-SKIP

The E-skip season usually gets underway in the south and southwest around April 15th. In years past, it has been known to get started earlier (anytime after the 1st) and later (as late as the 30th or so). Most of the early-season Es hits late in the morning or late in the afternoon. There is usually little Es activity north of the fabled Mason-Dixon line until after the 21st or so, some years not until 1 May.

April Es seems to have little form to it. It can occur in most any direction, and suddenly. And it can (and often does) shut down very quickly. If there is any auroral activity during April, the chances for Es activity are markedly increased during the 72 hour period following the onslaught of the auroral activity. If you live far enough north to be attuned to the presence of auroral activity, it will help to alert you to the possibility of aurorally-induced Es soon thereafter.

Anytime after April 25th, Es to the south or southeast chances a link-up with Caribbean area Es and can bring in reception from one or more of the island stations in Puerto Rico and those south and east, or Venezuela. (The subject has been covered extensively in past TEK-NOTES.) The best time of day, based upon experience, for this sort of double- or triple-hop Es is after 4 p.m. and before 7 p.m. local time.

In summary, to keep an eye peeled for Es, turn on your receiver and let it run on your lowest open low band (2-6) channel. Keep an extra close eye on the receiver between 8 and 10 a.m., 11 a.m. and 1 p.m., and 4 and 7 p.m. Your antenna should be pointed into an area producing Es reception for your area (i.e. if you live in the northeast, point south or southwest, etc.).

TROPO BENDING

Tropospheric inversion (tropo) is the most common form of DX. Stations 100 to 300 miles distant are considerably stronger than normal (15-30 dB) in the early-morning hours (6 to 9 a.m. most common), and in the mid to late evening (8 to 11 p.m. most common). This type of DX is very common virtually all summer long, and DXers with better than average installations usually pay little or no attention to this type of improvement in DX conditions, simply due to the fact that it is always there.

The early-morning variety of tropo, caused by the sun's heating of the middle and then lower atmosphere, forms a temperature inversion layer in the 500-3000 foot level of the atmosphere. This inversion level tends to refract VHF and UHF signals beyond their normally horizon-limited coverage areas for distances of up to 300 miles. If your installation is good enough, you probably have already received some type of forward-scatter signal over these distances, possibly on a regular day-in and day-out basis. With the added help of the morning (or the evening) temperature inversion, these signals lose their irregular sharp fading and increase in signal strength by as much as 30 dB.

This type of DX is typified by gradually weaker signals from stations further and further away (i.e. 100 miles, 150 miles, etc. out to 300 miles) coming through. Eventually you will reach a distance where the signals are weak enough that your equipment simply will no longer respond. That is the limit of your equipment sensitivity (not necessarily of the opening).

TROPO DUCTING

A tropo duct is very much like a pipe line. It extends from your receiving location to some distant point, and any signals that fall along the line that the duct travels may be trapped in the "pipe line" and find their way to your receiver, with amazing signal strength for short periods of time.

The duct is invisible within the relatively lower atmosphere. Ducting forms along sharply different atmospheric pressure gradients (i.e. along the boundary between two such gradients), along sharply different temperature gradients, and/or along sharply different humidity gradients (moisture content of the air).

A duct almost has to be a straight (great circle) line between your location and the transmitter location. And ducts are usually easy to see on a detailed weather map as stretching from point "A" to point "B" along a weather front, directly across and through a high pressure ridge, or along a wind shear boundary line.

Ducts are the work of the devil, and the properly equipped long-haul DXer's best friend. Virtually all UHF DX over 500 miles has a duct involved, as does virtually all high band and low band tropo DX over 600 miles.

April can be a dandy time for ducts. Where there are sharply contrasting weather patterns in the United States (i.e. cold air in the north coming down from Canada, warm air in the south coming up from the Gulf), boundary lines between differing air masses form. And, if the line where the two differing air masses meet is NOT too disrupted by violent weather (storms, etc), a duct will form.

In the far southern tier of states (Florida, along the Gulf and into Texas), ducts are especially productive, with several good sessions likely from south Texas east to all of Florida during April. In the midwest from Minnesota south to Texas, north-south ducts are likely late in the month as far western weather patterns take on almost north-south frontal lines in their sweeps across the country from west to east. By the same token, slightly slanted (s.w. to n.e.) front lines stretching from central and northern Texas on one hand to the middle Great Lakes on the other can also cause some nice ducts to form.

Most ducts form on the leading edge of a frontal line, and as has been discussed many times here previously, UHF is the best place to be when a duct forms, followed by high band VHF, FM, and low band VHF, in that order.

73, Bob Cooper, Jr.

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MINI-REVIEW: SONY'S ST-5950SD

by Danny Buntin

Sony's new \$450 top-of-the-line FM tuner, the ST-5950SD, supersedes the ST-5130 reviewed in a past VUD (Pete Oprisko, August '76). Its most remarkable feature is its complete capacity for receiving Dolbyized broadcasts. A bulkier new front panel design, more detailed linear tuning, and lack of a pulse-noise suppressor distinguish it from the ST-5130. Switchable AFC remains.

To analyze the tuner's quality, I compared it in A-B fashion to a top-notch tuner, the Pioneer TX-9100. Surprisingly, the Sony seemed a poor challenger in most categories. The sensitivity of the Pioneer in both mono and stereo put the Sony to shame; weak signals barely readable on the TX-9100 became solid noise on the Sony. In an area relating to sensitivity was an S-meter comparison: signals registering two on the Pioneer read zero on the Sony.

The ST-5950SD's stereo threshold is incredibly high. On the Pioneer it's not hard to bring in stereo from Dallas-Fort Worth stations at 240 miles (erratically), but the Sony barely managed stereo from full-power KWHP 97.7, 40 miles away, for more than half the time. It's ironic that Sony would stick its new Dolby tuner with such a high threshold level when Dolby is supposed to quiet noisy stereo. To compound the confusion, there are no labeled adjustments for stereo or muting sensitivity when the cover is removed.

I couldn't judge effectiveness of the Sony's Dolby system since KWHP, the only area station thought to be Dolbyized, evidently is not. Switching in Dolby only added more noise to the already weak stereo signal. Cross-modulation was an equally pesky problem for both tuners.

There was one area the Sony gave the Pioneer a good run for its money. As far as adjacent channel selectivity is concerned, both tuners could pick up equally well KUOA 105.7, 150 miles away, next to local KVRO. Both can almost center-tune KVOA under slightly better than usual tropo conditions; the same can be said for an adjacent Dallas station on KVRO's other side.

I also found the Sony's multipath meter to be practical. Most surprising was the discovery that multipath reception from semi-locals in Oklahoma City and Tulsa was possible.

In conclusion, though, I'd say that Sony's ST-5950SD does not merit any special consideration when one is ready to buy a top-quality FM tuner.



Southern F.M.DX

DAVE COX
2007-E Brandywine Ct.
Birmingham AL 35216

April 1977

Deadlines: the 10th

The frigid weather which had been so dominant in the South's weather for the previous several months began to loosen its grip in February. And with the beginning of the thaw came slightly improving conditions for DX. A few record low temperatures were set during the early part of February, but by the end of the month warmer weather had arrived with a few record highs being set. The warmer weather not only brought on the improving band conditions, but also a dust storm, a weather phenomenon rarely seen in the Southeast. In fact, the best DX of the month evidently was heard on the dates the dust storm was the primary weather feature.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase MD 20015 EST

DXing from our cottage at Fair Haven MD overlooking the Herring and Chesapeake Bays, 15 miles below Annapolis MD.

2-19-77

- 1305 WOLC 102.5 MD Princess Anne (60mi.) brand new station, nx, time checks & Country Gospel Hour
- 1400 WMDM 97.7 MD Lexington Park (35);r wx & ads with news from American FM Radio. Brand new.
- 1658 WEEA 88.9 MD Baltimore (40) Morgan State Univ. Aimed for black audiences, carries NPR programs, WEEA Weekend Rept., Univ. Forum. very good programming, well thought out and presented.

2-20-77

- 0010 WUSL 98.9 PA Philadelphia (120);r exWPBS, IDs as "US-1" & "FM99" with wx and ads
- 1126 WBKZ 95.9 MD Glen Burnie (30);r wx & ads, IDs as "2-96"
- 1556 WKNC 88.1 NC Raleigh (250);r call heard only once in over 3 hrs. very rough copy - fading in & out with another station. ABC Information news, public service announcements

It warmed up enough for us to get down to the cottage. I had intended to concentrate on LW and 2mcs. but much static and much to my surprise a bundle of stations added on FM. Must be a record here for the off month of February. Unfortunately, 3 new locals are blocking more channels; FM is becoming cluttered like AM. I thought they were going to avoid that! Also testing but not on while I was at the bay is WFFW Washington 89.3, Pacific Foundation.

Rotor is still not working, but got up on roof and turned it from NE to SW so I'll be ready for skip season. After turning it, I got the only DX for the month - WKNC! Rotor will NOT be replaced this year! Three shot in 10 years and I'm disgusted!!!

Veries now at 791 from 35 states, Manitoba, Quebec, Ontario and Nova Scotia plus Cuba Bermuda, and Puerto Rico. 73, Hank

Leslie Price, 115 Parkwood Dr., Wilmington NC 28401 EST

Received the following stations Saturday, Feb. 26 while there was a high pressure ridge along the Atlantic Coast. There was also a lot of dust with visibility down to about 3 miles and SW winds.

2-26-77 (0700 to 0830)

- WIRK 107.9 FL West Palm Beach "FM 108"
- WBWA 107.3 FL St. Petersburg
- WPWR 107.5 SC St. George \$ and quad
- WSFL 106.5 NC Bridgeton (New Bern) FM106²
- WXYI ? NC Wilson (tentative) y-106
- WNEB 105.5 SC North Myrtle Beach
- WELE 105.9 FL DeLand
- WBJW 105.1 FL Orlando "BJ-105"
- WBBQ 104.3 GA Augusta
- WLAT 104.1 SC Conway
- WORG 103.9? Orangeburg (SC? ...dsc)
- WEZL 103.5 SC Charleston
- WAAV 102.7 NC Wilmington w/NBC nx
- WZAT 102.1 GA Savannah
- WRAL 101.5 NC Raleigh
- WKZQ 101.7 SC Myrtle Beach
- WMDM ? SC Columbia (FM Atlas lists this stn on 101.3 in Sumpter SC ...dsc)
- WDIZ 100.3 FL Orlando
- WPJC 99.9 NC Burgaw "We are Praising Jesus Christ"
- WMPR 88.1 SC Sumpter

2-26-77 continued

- WSB 98.5 GA Atlanta "Beautiful Music 98"
- WENG 99.1 NC Whiteville
- WBEU 98.7 SC Beauford k
- WQSM 98.1 NC Fayetteville "Q-98"
- WXTC 96.9 SC Charleston "FM 97"
- WYTD 96.1 NC Raleigh "all music, all the time"
- WMBL 95.9 NC Morehead City
- WSGF 95.5 GA Savannah "FM 95"
- WQDR 94.7 NC Raleigh
- WPXI 95.1 SC Charleston
- WSLS 94.3 NC Wallace
- WTOC 94.1 GA Savannah C; "Country 94"
- WPUZ 93.7 FL Ocala
- WITN 93.3 NC Washington
- WMYR 92.1 SC Myrtle Beach
- WUNC 91.5 NC Chapel Hill
- WLTR 91.3 SC Columbia
- WVSP 90.9 NC Warrenton "Radio for Very Special People"
- WSPR 90.1 SC Greenville
- WSCI 89.3 SC Charleston
- WSHA 88.9 NC Raleigh

(many thanks for the report ..dsc)

Kenneth R. Simon, 528 Pilgrim Road, West Palm Beach FL 33405 EST

2-25-77

tr 1930 WSCI 89.3 SC Charleston w/NPR programming & ID

WGYL 93.5 FL Vero Beach w/ads & ID

WDBO 87.75 FL Orlando TV ch.6

73's Ken (note Ken's 2-1&2 loggings

2-26-77

tr 0700 unID 88.1 ? parallel to WSCI suspect WMPR 88.1 Sumpter SC

Note nothing exciting! Ho hum, but I haven't done too much checking.

were reported in the March VUD ... disc)

David Cox, 2007-E Brandywine Ct., Birmingham AL 35216 GST

Equipment: Tenna auto 8-track/FM stereo unit used indoors with homemade dipole under the window; GE multiband portable using the built-in whip

2-25-77

tr 0826 WAQT 94.1 AL Carrollton (75mi.);mr

0831 WTVY 95.5 AL Dothan k;(175)

0835 WKSJ 94.9 AL Mobile k;(200)

0840 WBLX 92.9 AL Mobile s;(200)

0842 WQUE 93.3 LA New Orleans (300)

0847 WFSU 91.5 FL Tallahassee (265)

0850 WKGC 90.7 FL Panama City r;(240) NPR

thought I had my first 10-watter, but the GE wrote that their ERP is 9210

0908 WABB 97.5 AL Mobile r;(200)

0909 WALT 97.1 MS Meridian r;(125)

0910 WIRB 96.9 AL Enterprise (150)

0917 WSLY 99.3 AL York (100)

0923 WBGM 98.9 FL Tallahassee m;(265)

0927 WBOP 101.5 FL Pensacola s;(200)

0931 WPCM 101.7 GA Albany k;(200)

0935 WTUN 100.1 AL Selma k;(75)

2-25-77 continued

tr 0940 WQSI 100.9 AL Union Springs r;(145)

0944 WXBW 102.7 FL Milton k;(190)

0950 WRBL 102.9 GA Columbus (140)

2140 WTGI 103.3 LA Hammond r;(300)

2141 WZZQ 102.9 MS Jackson p;(220)

2145 WGLF 104.1 FL Tallahassee r;(265)

2152 WFMP 102.5 LA Baton Rouge r;(325)

2204 WPCS 89.3 FL Pensacola g;(200)

with ABC news "provided through the courtesy of WMEX radio"

2222 WAFB 98.1 LA Baton Rouge rm;(325)

2-26-77

tr 0020 WTAM 102.3 MS Gulfport s;(250)

nothing spectacular heard but there were quite a few new stations heard to help begin to fill a rather sparse log.

A reminder to all members that beginning with the May VUD (report deadline is April 10th), Western FM DX will be dissolved and members who previously reported to that column will report to either the Northern or Southern FM DX columns. Members who live in the following states should report to Southern FM DX: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV. Til next month, 73s

NORTH OF THE BORDER REPORT (continued from page 8)

APRIL 1977

- ## DENIED-- GRAVENHURST, Ont 96.7 100 kw. Sat. CHFI-FM Toronto
- ## DELETED**SOMO (67 KHz) on OKLW-FM Windsor, Ont.
- **NISSI FALLS, Man CHMF-FM 96.1 15 w. Sat. CBDU Lynn L. off air Dec. 9
- ## CALLS-- CJAT Trail, bc now CBTA CHLT Sherbrooke, pq now CITE
- CFGM 107.1 Toronto requests CILQ ("silk-fm 107")
- CHQZ 95.9 St. Johns NF -flagship stn. for new NFLD FM net. We don't know if each translator will have its own call.
- ## Ottawa member of new trans-Canada news network will be on 106.9
- ## CKRD-FM RED DEER, Alta joins CBC FM (SNG) network.
- ## CBUE-FM HCFE, BC 101.7 136 watts is on the air.
- ## Application for new Toronto 89.5 38 kw. Sat. CBF-FM Montreal (CBC FM FRENCH Net.) delayed pending study regarding interference to existing USA stations.
- ## CHGM-FM Montreal ordered by CRTG to end experiment of bilingual programming.
- ## CIML-FM Makkovik, LAB 99.5 broadcasts 8 hours per week in Inuit language.
- ## FM crisis in TORONTO -- Stations broadcasting from 1300' ON TOWER may be forced to reduce power because overloading on downtown receivers is higher than originally anticipated. The two stations recently granted on 99.1 and 107.1 would like to locate on a nearby lower 70-storey office tower to avoid the higher rental costs of ON TOWER. To avoid ON TOWER power reduction, the 2 new stations would have to join the group. As of the present, the new rock station (107.1) have accepted the move for 5 years free rent. The all-news station (99.1) is holding out.

FLASH***** On air testing...CHEZ 106.1 Ottawa 100 kw. program starts in late Mar
Seen testing since Mar.8 CBLFT-4 Peterborough ch. 44 48 kw.
Watch for ch. 15- Bellefonte 130 kw., ch. 52- Kingston 48 kw.
On air with programming... WCFB ch. 57 Plattsburgh NY 500 kw. with 400 ft. tower atop 3500 ft. mtn. they put a good signal into Ottawa at 95 mi.

WESTERN FM

Steven C. Wiseblood
707 Loma Way
Santa Maria, CA

Beginning with the MAY V.U.D., You will have two new editors for those of you who had previously sent your material to me! I have been informed that this will be my last column for WESTERN FM DX. So, beginning with the MAY V.U.D. (The Deadline being Apr. 10), Please send your reports to SOUTHERN FM DX if you live in the states of CA, NV, AZ, NM, TX, OK, KS, CO & UT. Or, if you live in OR, WA, ID, MT, WY, NE, SD, ND, MN, IA then please send your reports to NORTHERN FM DX. The VUD will look lots neater, and maybe not so cluttered with only 2 FM editors instead of 3. I also understand that the TV editors are also being cut back, so please see the column that you normally report to for details. Oh, by the way, if you live in AK, UK or Canada report to NORTHERN FM DX!

Doug Everitt, 1710 W. Maine, Enid OK 73701 (CST) (25 Jan -01 Mar)

Equipment: Kenwood KT-8007 tuner, 10-el yagi @ 35', CDE rotor

25 Tr	2052	KKYK	103.7	AR	Little Rock, r	350	5 Es	1742	XHLC	98.7	JAL	Guadalajara, m	
26 Es	1722	WMCU	89.7	FL	Miami, g	1290		1742	XHLS	99.5	"	"	rm
28 Es	1345	WPCS?	89.3	FL	Pensacola, g	740		1742	XEAV	100.3	"	"	r
	1800	WPCS	89.3	FL	Pensacola, g	740		1742	XHMA	101.1	"	"	Lk
	1814	WBHM?	90.3	AL	Birmingham	670		1742	XEAD	101.9	"	"	Lr
29 Es	1139	KXLU	88.9	CA	Los Angeles	1150		1742	XEHL	102.7	"	"	r
	1142	KFYE	93.7	CA	Fresno, r	1210		1750	X---	104.3	"	"	c
	1143	KYNO	95.5	CA	Fresno, kr	1210	7 Es	1912	WZZQ	102.9	MS	Jackson, g	530
	1144	KMJ-	97.9	CA	Fresno, c	1210							
	1144	KFIG	101.1	CA	Fresno, r	1210							
	1144	KUUL	92.1	CA	Madera, m	1210							
	1156	KQED?	88.5	CA	San Francisco	1340							
	1200	KTRI	92.3	NV	Las Vegas	960							
	1202	XHRM	92.5	BCN	Tijuana, L	1110							
	1203	KFSD	94.1	CA	San Diego, c	1110							
	1205	XHIS	90.3	BCN	Tijuana, m	1110							
	1207	KYXY	96.5	CA	San Diego, m	1110							
	1210	KSON	97.3	CA	San Diego, r	1110							
	1218	KVIM	93.7	CA	Coachella, L	1040							
	1220	KWXY	98.5	CA	Cathedral City	1060							
	1222	KDES	104.7	CA	Palm Springs, m	1050							
	1258	KBBY	95.1	CA	Ventura, r	1180							
	1300	KEWE	95.9	CA	Camarillo, r	1170							
	1301	KUSC	91.5	CA	Los Angeles, c	1150							
	1303	KPMJ	104.7	CA	Oxnard	1170							
	1309	KTMS	97.5	CA	Santa Barbara, r	1220	8 Es	1043	XHJE	94.1	PUE	Puebla	
	1315	KQLH	95.1	CA	San Bernardino	1090		1045	XHRH	93.3	PUE	Puebla, Lj	
	1318	KWST	105.9	CA	Los Angeles, r	1150		1046	XHZM	92.5	PUE	Puebla, mr	
	1323	KFSG	96.3	CA	Los Angeles, g	1150		1050				All Mexico City have 96.9 & 104.1	
	1415	XHM, XEBS, XEDA, XHGX, XHFO, XEJP,			all in Mexico City.			1110	XHRO	95.5	JAL	Guadalajara, rm	
30 Tr	1802	WJMI	99.7	MS	Jackson, r,	530	9 Tr	0849	KXCV	90.5	MO	Maryville, m	320
					no other area stations in, in very			0855	KMGK	93.3	IA	Des Moines, r	420
					briefly. WAPT-16 noted tentatively.			0903	KSFT	105.1	MO	St. Joseph, m	280
31 tr	1421	KUMR	88.5	MO	Rolla	360	22 Tr	0906	KGOR	99.9	NE	Omaha, o/KSKG!	350
Es	1435	WFDD	88.5	NC	Winston-Salem, c	1000		0925	KFOR	102.7	NE	Lincoln, m	310
	1439	WUNC	91.5	NC	Chapel Hill	1080		0930	KCMW	90.9	MO	Warrensburg, lcl lvl	
	1441	WQDR	94.7	NC	Raleigh, rp	1090		0944	KMOE	92.1	MO	Butler, m	
	1523	WPUB	94.3	SC	Camden, sr	1010		0947	KROA	95.7	NE	Grand Island, m	320
	1604	WGWG	88.3	NC	Boiling Sprs., r	910		0949	KRGI	96.5	NE	Grand Island, rk	320
	1607	WEPR	90.1	NC	Greenville,	890		1006	KFMW	107.9	IA	Waterloo,	510
1 Tr	1340				all Kansas City stations in							(heard last in March)	
	1340	KJLC	88.5	MO	Kansas City, g	260		1012	KDPS	88.1	IA	Des Moines, j	420
	1346	KCMW	90.9	MO	Warrensburg, jm	290		1014	KLYF	100.3	IA	Des Moines, m,	420
	1845	KCEI	89.3	TX	Dallas, gc	260						"K-Life"	
5 Es	1720				many Mexican unIDs			1015	KRNQ	102.5	IA	Des Moines, auto F	
	1731	XHNH	95.1	GTO	Irapuato, ID			1018	KQCR	102.9	IA	Cedar Rapids, m	
	1737	XHJL	91.3	JAL	Guadalajara, mL			1024	KAOL	101.1	MO	Carrollton,	
	1737	XHCD	92.3	"	"	L		1047	KTAP	103.9	NE	Crete, r	
	1737	XHSC	93.9	"	"	mL		1056	KGOR	99.9	NE	Omaha, way/o/KSKG!	
	1737	XHRO	95.5	"	"	mr		1115	KCLO	98.9	KS	Leavenworth, m	
	1737	XEJB	96.3	"	"	c		1115	KEPM	96.1	NE	Omaha,	350
	1737	XEBA	97.1	"	"	L		1115	KOOO	104.5	NE	Omaha, k	350
	1737	XETIA	97.9	"	"		1 GW	1046	KXOJ	100.9	OK	Sapulpa, mr	

22 Feb tropo was the best seen here on FM in a long, long time. I hope this marks the beginning of a good FM tropo season! Plans are underway to raise the horizontal yagi to 50', perhaps with the addition of a vertical at a lower height. I hope to have a digital readout alongside my faithful KT-8007 some day. My log is now at 338. Best DX!

Pat Dyer, 5315 Silvertip Dr., San Antonio TX 78228 (2 Jan - 7 Mar) (CST)

2 Es	1701	WFMR	96.5	WI	Milwaukee, c, ID	
	1701	WZUU	95.7	WI	Milwaukee, r, ID	
	1701	WKTI?	94.5	WI	Milwaukee, m	
	1704	WQFM?	93.5	WI	Milwaukee	
	1710	WDUZ?	98.5	WI	Green Bay	
	1710	WDOR	93.9	WI	Sturgeon Bay, PSA	
	1710	WEKS?	93.7	WI	Monroe	
	1714	WEKV	92.5	WI	West Bend, area ads	
	1845	TGRT	88.8	GUAT	Guatemala	
3 Es	1827	XEBS	89.7	DF	Mexico City	690
	1827	XHCS?	93.9	JAL	Guadalajara, SS	
	1827	XETIA?	97.9	JAL	Guadalajara, SS	
	1830	XELA	98.5	DF	Mexico City, c	690
5 Tr	0155	KIEL	95.1	TX	Beaumont, EL, ID	275
	0155	KSNS	96.1	LA	Lake Charles, r	275
	0205	KYKR?	93.3	TX	Port Arthur, k	280
14 Tr	1010	KLBK	94.5	TX	Lubbock, m, ID	340
	1018	KWMJ	103.3	TX	Midland, EL, ID	275
	1045	KORQ	100.7	TX	Abilene, EL, ID	220
Es	1825	KESD?	88.3	CA	San Diego	1120
	1836	XHIS	90.3	BCN	Tijuana, local ad	
	1836	XHRM	92.5	BCN	Tijuana	1100
	1836	XHQ3	95.7	BCN	Tijuana	1100
	1839	KIFM	98.1	CA	San Diego, r	1120
	1854	KFSD	94.1	CA	San Diego, area ad	
	2026	KBYU	88.9	UT	Provo, c	1045
16 Es	1847	KFSD?	94.1	CA	San Diego, operatic	
	1902	KVIM	93.7	CA	Coachella, SS	1070
	1902	KMET?	94.7	CA	Los Angeles, r	1190
	1902	KLOS?	95.5	CA	"	r 1190
	1909	KPKK?	90.7	CA	"	1190
	1914	KXTC?	92.3	AZ	Glendale, EL	840
	1936	KDXU?	93.5	UT	St. George, EL	1005
	1948	KTDB	89.7	NM	Ramah, Navajo	695
22 Es	1640	XHM?	88.9	DF	Mexico City, EL	690
	1640	XEBS?	89.7	DF	Mexico City	690
	1654	TG---	88.1	GUAT	Guatemala	1120
	1657	TGDX	94.9	GUAT	Guatemala	1120
	1657	TGY?	98.6	GUAT	Guatemala	1120
	1657	Guatemalans	are in strong			
	1712	TGRT	88.8	GUAT	Guatemala	1120
	1806	XHSH?	95.3	DF	Mexico City	690
	1806	XEW	96.9	"	"	r, w-FM
	1810	XELA?	98.5	"	"	c
	1825	XEDF	104.1	"	"	local ad
	1829	XEQR	107.3	"	"	
	1829	XHPOP?	99.3	"	"	
	1900	XHOF	105.7	"	"	ID
	1901	XHDFM	106.5	"	"	local ad
	1902	XERPM?	103.3	"	"	c
	1904	XHTB?	105.9	MOR	Cuernavaca, EL	735
	1910	XERC?	97.9	DF	Mexico City, r	690
	1910	XEOY?	100.9	"	"	
	1910	XEX?	101.7	"	"	
	1910	XHCM?	88.5	MOR	Cuernavaca	735
	1915	XEDA?	90.5	DF	Mexico City	690
	1915	XHQK	91.3	DF	Mexico City	690
	1916	XHNP?	89.3	PUE	Puebla	735
	1916	XHJE?	94.1	PUE	Puebla	735
	1932	XHM	88.9	DF	Mexico City, ad	690
24 Es	1829	WMCU?	89.7	FL	Miami, g	1150
	1829	XHM?	88.9	DF	Mexico City, EL	690
	1829	CMQ-	90.5	CUBA	Habana	
	1832	XHNP?	89.5	PUE	Puebla	
	1832	WCVU?	94.5	FL	Naples, EL	1050
24 Es	1837	WBUS	93.9	FL	Miami Beach, PSA	
	1837	WINZ?	94.9	FL	Miami	1150
	1837	WTAN?	95.7	FL	Clearwater	960
	1840	WUSF?	89.7	FL	Tampa, r	985
	1842	WEDR?	99.1	FL	Miami, r	1150
	1842	WMJX?	96.3	FL	Miami, r	1150
25 Es	1810	WERN?	88.7	WI	Madison, c	1065
	1812	KSJR	90.1	MN	Collegeville, nx	
	1812	KRSW?	91.7	MN	Pipestone, nx	1010
	1818	KBCM	95.5	IA	Sioux City, ad	910
	1821	KQDY?	94.5	ND	Bismark, m	1200
	1827	KBEM?	88.5	MN	Minneapolis	1110
	1829	KESD	88.3	SD	Brookings, PSA	1020
	1831	WCAL	89.3	MN	Northfield, ID	1080
	1831	KUSD?	89.7	SD	Vermillion	920
	1844	KXTZ	94.1	NV	Henderson, ad	1040
	1850	KKLS	93.9	SD	Rapid City, ad	1040
	1850	KVSR?	97.9	SD	Rapid City, g	1040
	1852	KCHF?	93.5	SD	Sioux Falls	975
	1911	KELO	92.5	SD	Sioux Falls, EL	975
28 Es	1358	WCNE	88.7	OH	Batavia, ID	1045
	1606	KQDY	94.5	ND	Bismark, MoR	1200
Tr	1607	KBOP	98.3	TX	Pleasanton, ads	35
Es	1620	KWYR	93.7	SD	Winner, ads	960
	1628	KEYA?	88.5	ND	Belcourt, NPR	1330
	1628	KUSD?	89.7	SD	Vermillion	920
	1709	KSJR	90.1	MN	Collegeville, nx	
	1712	KMSR?	94.3	MN	Sauk Centre, nx	
	1716	KLFD	95.3	MN	Litchfield, ads	
	1717	WWJO	98.1	MN	St. Cloud, PSA	1140
	1717	KEYC?	99.1	MN	Mankato, EL	1125
	1720	KSTP	94.5	MN	St. Paul, ID	1060
	1724	KTWN	107.9	MN	Anoka, PSA	
	1727	KROC	106.9	MN	Rochester, ID	
	1729	KPMW	107.9	IA	Waterloo	
	1730	KKWS	105.9	MN	Wadena (// KWAD-AM)	
	1732	WCFW	105.5	WI	Chippewa Falls, ads	
	1734	WMAD?	106.3	WI	Middleton, WI nx	
	1737	WDLB	106.5	WI	Marshfield, ads	
	1741	KSEL	105.7	IA	Waterloo, ads	
	1744	KYSM	103.5	MN	Mankato, ad	
	1751	WEVR	106.3	WI	River Falls, ad	
	1759	WAPL	105.7	WI	Appleton, ID	1165
	1805	WJML	98.9	MI	Petoskey, ID	1320
	1807	WJGS	98.5	MI	Houghton Lake, ad	
	1812	W1AA?	88.3	MI	Interlochen	1255
	1812	WCMU?	89.5	MI	Mt. Pleasant	
	1823	WHS?	89.9	WI	Brule	
	1829	WJVM	94.3	IL	Sterling	
	1833	KNOF	95.3	MN	St. Paul, wx	1110
	1842	WDOR	93.9	WI	Sturgeon Bay	1225
	1843	WIAL?	94.1	WI	Eau Claire, EL	1115
	1847	KMRS	95.7	MN	Morris, ID	1125
	1850	KMGK	93.3	IA	Des Moines, ID	880
	1901	WJPD?	92.3	MI	Ishpeming, NBC nx	
	1902	KOEL	92.3	IA	Oelwein, ID	985
	1912	WFRL	98.5	IL	Freeport, ID	1000
	1913	WVPC	97.7	IL	Monmouth, ID	905
	2118	KOOL?	94.5	AZ	Phoenix	835
	2118	KRFM?	95.5	AZ	Phoenix	835
29 Es	1144-1214	KEYU?	88.9	PA	Pittsburgh, wx	1045
31 Es	1455	WQED?	89.3	PA	Pittsburgh, wx	1045
	1502	WAIF	88.3	OH	Cincinnati, wx	1035
	1505	WYSU?	88.5	OH	Youngstown, c	1275
	1510	WAUP?	88.1	OH	Akron, j	1240
	1532	CJOM	88.7	ONT	Windsor, m, ID	1230

WESTERN FM DX

APRIL 1977

31 Es	1559	WKSU	89.7	OH	Columbus, ID	1130
	1559	WKSU?	89.7	OH	Kent	1255
	1617	CBL?	94.1	ONT	Toronto, c	1435
	1617	CKDS?	95.3	ONT	Hamilton, EL	1400
4 Es	0539	XHM?	88.9	DF	Mexico City, m	690
	0929	XEBS?	89.7	DF	Mexico City, c	690
	0940	XEDA?	90.5	DF	Mexico City	690
	0955	XHCM?	89.5	MOR	Cuernavaca	735
5 Es	1734	KOOL	94.5	AZ	Phoenix, ID	835
	1734	KRFM	95.5	AZ	Phoenix, EL	835
	1735	KUPD	97.9	AZ	Tempe, area ad	825
	1736	KDKB	93.3	AZ	Mesa, r	820
	1737	KMEO	96.9	AZ	Phoenix, EL	835
	1850	KSDS	88.3	CA	San Diego, j	1120
6 Es	1643	KDKB?	93.3	AZ	Mesa, r	820
	1659	KAIR	94.9	AZ	Tucson, EL, ID	750
	1701	KIPM?	98.1	CA	San Diego, r	1120
	1705	KFSD?	94.1	CA	San Diego, c	1120
	1705	KYXY?	96.5	CA	San Diego, EL	1120
	1705	KALJ?	95.1	AZ	Yuma, EL	970
	1707	KOOL	94.5	AZ	Phoenix, wx	835
	1707	KUPD	97.9	AZ	Tempe, r	825
	1707	KBBC	98.7	AZ	Phoenix, r	835
	1714	KWAO	106.3	AZ	Sun City, ad	850
	1715	KBFE	105.5	AZ	Casa Grande, ad	805
	1717	KSTM	107.1	AZ	Apache Junction, r	
	1725	KRFM?	95.5	AZ	Phoenix, EL	835
	1729	KMEO	96.9	AZ	Phoenix, EL, ID	835
	1732	KDOT	100.7	AZ	Scottsdale, ID, EL	
	1850	XHCM?	88.5	MOR	Cuernavaca	735
	1900	XHSH?	95.3	DF	Mexico City	690
	1900	XEW?	96.9	"	"	r 690
	1900	XELA?	98.5	"	"	c "
	1917	XEJP?	93.7	"	"	"
	1929	XHNP	88.9	"	"	"
	1930	XHM	89.7	DF	Mexico City, c	690
	1950	XHTB	105.9	MOR	Cuernavaca, ID	735
7 Es	1214	KPCS?	89.3	CA	Pasadena?, r	1185
	1215	KPFK?	90.7	CA	Los Angeles	1190
	1215	KCSN?	88.5	CA	Northridge	1210
	1221	KCRW?	89.9	CA	Santa Monica	1200
	1222	KXLU?	88.9	CA	Los Angeles	1190
	1223	KLON?	88.1	CA	Long Beach	1180
	1225	KVIM?	93.7	CA	Coachella	1070
	1225	KPOL?	93.9	CA	Los Angeles	1190
	1225	KUSC?	91.5	CA	Los Angeles	1190
	1702	WERN?	88.7	WI	Madison, NPR	1065
	1704	WLVE?	94.9	WI	Baraboo, EL	1085
	1706	KWOA?	95.1	MN	Worthington	995
	1715	KVSR?	97.9	SD	Rapid City, g	1040
	1716	KKLS	93.9	SD	Rapid City, r	1040
	1720	KSID	95.3	NE	Sidney, nx, EL	845
	1722	KNEB?	94.1	NE	Scottsbluff, EL	900
	1729	KIBC	93.5	NE	Ogallala, ID	825
	1735	KVOD	99.5	CO	Denver	810
	1735	KWYR?	93.7	SD	Winner	960
	1742	KUAD	99.1	CO	Windsor, ID	840
	1743	KIMN?	98.5	CO	Denver	810
	1744	KDJQ?	97.9	CO	Pueblo	735
	1747	KLZ?	106.7	CO	Denver	810
	1752	KBPI?	105.9	CO	Denver, r	810
	1752	KADK?	105.1	CO	Denver	810
	1753	hi-band TV	Es thru ch. 13!			
	1859	WMAD	106.3	WI	Middleton, ID	1065
	1900	wasted 2 hrs	looking for VOR's			
	1950	KQSW	96.5	WY	Rock Sprs., ID	1025
	1958	KNIS	94.7	NV	Carson City, ID	1370
	2014	KXTZ	94.1	NV	Henderson, EL	1040

7 Es	2014	KILA?	95.5	NV	Henderson	1040
	2014	KLUC?	98.5	NV	Las Vegas, r	1050
	2018	KMJ?	97.9	CA	Fresno, c	1315
	2018	KNEV?	95.5	NV	Reno	1380
	2018	KYNO?	95.5	CA	Fresno, r	1315
	2029	KSAN?	94.9	CA	San Francisco	1475
	2030	KMET?	94.7	CA	Los Angeles, r	1190
	2032	KABL?	98.1	CA	San Francisco	1475
	2053	KCSN?	88.5	CA	Northridge	1210
	2053	KPCS?	89.3	CA	Pasadena	1185
	2110	KQED?	88.5	CA	San Francisco	1475
8 Es	1115	KRFM?	95.5	AZ	Phoenix	835
	1115	KFSD?	94.1	CA	San Diego, c	1120
	1118	KALJ	95.1	AZ	Yuma, ad	970
	1120	KOOL	94.5	AZ	Phoenix, ID	835
	1120	KLRO?	94.9	CA	San Diego	1120
	1122	KNOB?	97.9	CA	Long Beach	1180
	1124	KWXY?	98.5	CA	Cathedral City	1080
	1130	KPBS?	89.5	CA	San Diego	1120
	1229	KIFM?	98.1	CA	San Diego, r	1120
	2012	KPCS	89.3	CA	Pasadena	
	2012	KXLU?	88.9	CA	Los Angeles, c	1190
	2015	KPOL?	93.9	CA	"	EL
	2015	KMET?	94.7	CA	"	r
	2021	KBCA?	105.1	CA	"	J
	2024	KWST	105.9	CA	"	r
	2027	KJOI	98.7	CA	"	EL
	2029	KNAC	105.5	CA	Long Beach, ad	1180
	2032	KBBL	99.1	CA	Riverside, g	1140
	2032	KNOB	97.9	CA	Long Beach, ID	1180
	2035	KROQ	106.7	CA	Los Angeles, r	1190
	2039	KOLA	99.9	CA	San Bernardino	1135
	2042	KIFM?	98.1	CA	San Diego, r	1120
	2049	KPRI?	106.5	CA	"	r 1120
	2053	KYMS?	106.3	CA	Santa Ana	1165
	2101	KAPX	107.9	CA	San Clemente, nx	
	2110	KOST?	103.5	CA	Los Angeles	
	2115	KWIZ?	96.7	CA	Santa Ana	
	2125	KLLU?	89.7	CA	Riverside	1140
	2125	KCSN?	88.5	CA	Northridge	1210
	2130	KXLU?	88.9	CA	Los Angeles	1190
	2134	KLON	88.1	CA	Long Beach	1180
	2146	KCRW	89.9	CA	Santa Monica, bkbl	
					(rather weird - with the south coast on 88-89 but no sign of Ch. 4!)	
9 Es	2020	KBYU?	88.9	UT	Provo, c	1045
10 Es	1100	tent: KCSN-	88.5; KPCS-	89.3		
	1838	tent: KPFK-	90.7; KPOL-	93.9		
	1838	KMET	94.7	CA	Los Angeles, ad	
	1838	KLOS	95.5	CA	"	r
	1838	KWST	105.9	CA	"	r
	1838	KROQ?	106.7	CA	Pasadena, r	1185
	1838	KOST?	103.5	CA	Los Angeles	1180
	1843	KWXY-	98.5	CA	Cathedral City	1080
	1848	KPRI	106.5	CA	San Diego, ID	1120
	1849	XHQS?	95.7	BCN	Tijuana	1100
	1851	KQSW	96.5	WY	Rock Sprs., r	1025
	1853	KFSD	94.1	CA	San Diego, PSA	1120
	1854	KDIG	98.1	CA	San Diego	1120
	1910	KCFX?	98.7	UT	Salt Lake City, r	
	1920	KCFR?	90.1	CO	Denver	810
	1920	KTSC	89.5	CO	Pueblo, ID, promo	
25 Tr	0848	WKXI	94.7	MS	Jackson, ad	525
	0859	WJFR	96.3	MS	Jackson, g	525
	0902	KLUF	105.1	TX	Lufkin, PSA	265
	0904	KOOI	106.5	TX	Jacksonville, ID	260
	0908	WKYV	106.7	MS	Vicksburg, ID	495
	0926	KWBU	107.1	TX	Waco, ID	170

(continued on page 32)

C.C.I. [UNIDENTIFIED DX]

Frank Aden, Jr.
 1535 NW Ithaca Ave.
 Bend, OR 97701
 (503) 389-5488
 Deadline: 10th

APRIL 1977 More unIDs this month!

Randall Clark, RT 5 Dutch Ridge, Parkersburg WV 26101 (1977 unIDs)
 Wed Jan 26 Es ch 4 1608 EST- -CBS net show "Tattle Tales" in progress. PTA: OK, TX
 ch 5 1552 EST- -Yoga program in progress. PTA: TX, NM. (I would suspect a
 PBS station but no current schedules available yet. --FEA)
 ch 5 1615 EST- -PBS station with "Sesame Street". Suspect KTXT or WUPT.
 ch 6 1556 EST- -UnID 3/4 CB with a VITS/VERTICAL interval test signal.
 Suspect WCIX but see TE without VITS at 1706.
 Sat Jan 29 Es ch 3 1823 EST- -UnID with Country & Western Show, 20 Kc offset with WSAZ.
 Mon Jan 31 Es ch 3 1555 EST- -CBS net "Match Game ???" in progress.

FM unIDs

John Jefferson, 1150 Tilson Dr., Concord CA 94520 (1976 & 1977 unIDs)
 Thu Jul 29 Es 95.7 1150 PDT- -Possible country station with Jessie Colter, "Suspicious
 Mind". Station was overriding a local station (KKHI)
 with a 10 watt booster.
 Sat Aug 21 Ms 92.5 2358 PDT- -"...On Disco Soul 92..." Signal may have been 92.3 as the
 signal may have been strong enough to bleed over.
 Sat Jan 15 Ms 94.1 0343 PST- -PSA on child abuse. KALL, KXTZ, KXIQ say no. No reply
 from KBOW, KD JW, KCLK. (KXIQ is now automated rock -- FEA)
 Sat Jan 29 Es 88.3 1320 PST- -Dept. of Arig. consumer feature on various types of hams
 available on the market. Then followed by soft rock or
 MOR format. Not KSUC, KCCK. No answer from KESD. Stations
 from Midland TX area in between 1130 & 1300. Could this be
 a new station not listed in FM ATLAS? Signal was mono.

Identifications

Feb. CCI, Frank Aden, Wed., Dec. 22, ch. 3 ad for "Braums". Could be KFDX as Braums is a
 very common ice cream chain in this region. From Doug Everitt.

Dec. TV-CCI, John Combs, Wed., Sept. 29, ch 3 "Hollywood Squares". This may be WSAZ but
 it carries it on both Tues. & Thurs.

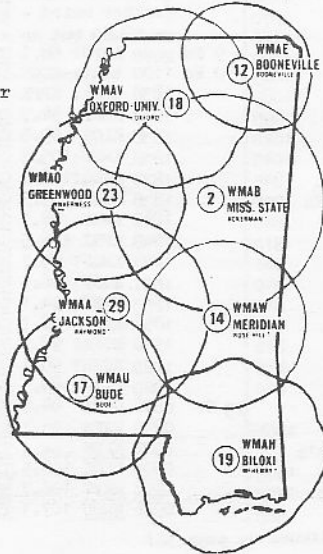
I have been holding off on running the network lists for the Western Educational Network
 and the Eastern Educational Network because lack of space. Since these are fairly large
 lists I will make them available to any for an SASE and 10¢ for copy charges instead of
 waiting any longer.

Regional Networks

Mississippi Authority for
 Educational TV
 PO Drawer 1101
 Jackson MS 39205



WMAE ch 12 Booneville
 WMAV ch 18 Oxford
 WMAB ch 2 Ackerman
 WMAO ch 23 Greenwood
 WMAA ch 29 Jackson
 WMAW ch 14 Meridian
 WMAU ch 17 Bude
 WMAH ch 19 Biloxi



HAWAII PUBLIC TELEVISION
 2350 Dole Street
 Honolulu, Hawaii 96822
 Telephone (808) 955-7878
 Telex 723-8553
 KHET Channel 11 Oahu
 KMED Channel 10 Maui

University of North Carolina
 TV Network, 202 University
 Sq. Wes., Chapel Hill NC
 27544
 WUND ch 2 Columbia
 WUNG ch 4 Chapel Hill
 WUNE ch 17 Linville
 WUNK ch 25 Greenville
 WUNL ch 26 Winston-Salem
 WUNF ch 33 Asheville
 WUNJ ch 39 Wilmington
 WUNG ch 58 Concord



73,
 Paul



STATISTICS

Andy Bolin, Editor
709 Lincoln Ave.
Charleston, Illinois
61920
Tele. 217-345-5778

IT'S TIME FOR CHANGES! Up until now the only FM records kept were those for the largest distances. Now it's time to add two more forms of statistics, a "STATES STATS" & "STATISTICS SURVEY".

But first let's talk about the distance records for 88-108MHz that Glenn Hauser did. I'll do my best to run the column bimonthly. The deadline will always be the 10th of the month, and I'll run 2MHz at a time. So far we have a lot of new records below 97MHz, but only one above 102. When space permits, I plan to have a "REVISIONS" section like Glenn originally did, so keep those records coming in! **ONE CHANGE!** It will be mandatory that you give the date of reception for each candidate. This WILL NOT be printed in the VUD, but it is wanted for the files.

STATES STATS

Have you ever wondered who's heard the most stations from CA or NY? Or what about WY or DE? Would it be a DXer from his home state, or someone 1200 miles away? We'll find out with STATES STATS! The rules for this game are simple. A station counts from its city of license, NOT its transmitter site. In other words, whatever state a station is listed as being in in the FM ATLAS counts. This is the opposite of the way we count stations for distance records and for totals in the Scoreboard! The reason is because some DXers may not know the transmitter site for a station, and in this type statistic just one station can make all the difference. For the fun of it, not only will the largest total from a state be printed, but also the second largest total! So if you think you've heard the most, or second-most stations from any of the 48 states, send that total now. The competition could be fierce, if you're willing to participate!

STATISTICS SURVEY

Quite simply, just answer these questions if you think you may have the record. And if you don't see a question you want asked, send it too! Non American stations on class A frequencies with more than 3 kilowatts are NOT eligible for questions 11, 15 & 18.

1. Largest number of frequency changes logged.
2. Total number of ten watters logged.
3. Closest ten watter via Es.
4. Farthest ten watter via Es.
5. Farthest ten watter on tropo.
6. Au total in the educational band.
7. MS total in the educational band.
8. Es total in the educational band.
9. Largest number of stations logged on any one frequency. (Example: if you've logged more stations on 92.1 than any other frequency, then I want your total for 92.1.)
10. Largest number of stations logged on any one frequency in the educational band. (See question 9 for help.)
11. Closest Es station logged on 106.3 or 107.1.
12. Closest Es station logged on 107.7 or 107.9.
13. Closest Es station logged in the educational band.
14. Largest number of MS stations on any one frequency. (See #9 for help.)
15. Closest MS station logged on a class A frequency.
16. Closest MS station logged on a class B-C frequency.
17. Closest MS station logged in the educational band.
18. Closest Es station logged on a class A frequency.
19. Closest Es station logged on a class B-C frequency.
20. Closest Es station logged in the educational band.

THAT'S IT! Please send your ansewrs to any or all of the 20 questions asked in the STATISTICS SURVEY if you think you might have the record. Get your station totals in for each state for the STATES STATS. We've had more Es this winter than the summer of '71, so get those distance records in too! None of this can work without your support!

73, A.B.

PHOTO-NEWS

Jim Alexander
4 Brook Court
Parsippany, NJ 07054

April, 1977

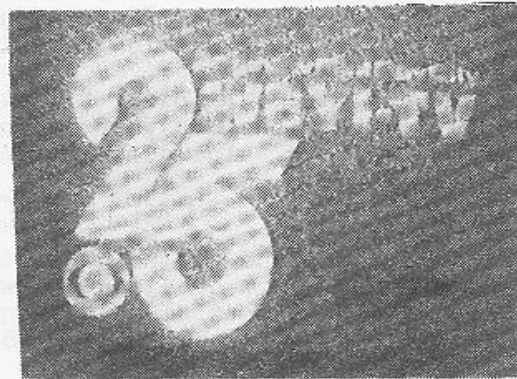
Feature: "Oh, how we love those winds!" - (Buck Battin)



This month, PHOTO-NEWS features what happened four days after Buck Battin mounted his new 7' dish. Winds gusting to over 100 miles per hour caused a guy wire to snap, and the result can be seen at the left. It wasn't a total loss; the mast stopped with the dish a couple of inches from the roof, and the dish settled to the roof unharmed. Buck's ten-element low band yagi (behind the dish) did sustain damage, however, and had to be replaced. (My condolences, Buck -- hope this is the last time it ever happens to you. Also hope this sort of thing didn't take place at many other QTHs this winter! One thing's for certain: it's been a winter we'll all remember for quite some time to come. - jja)



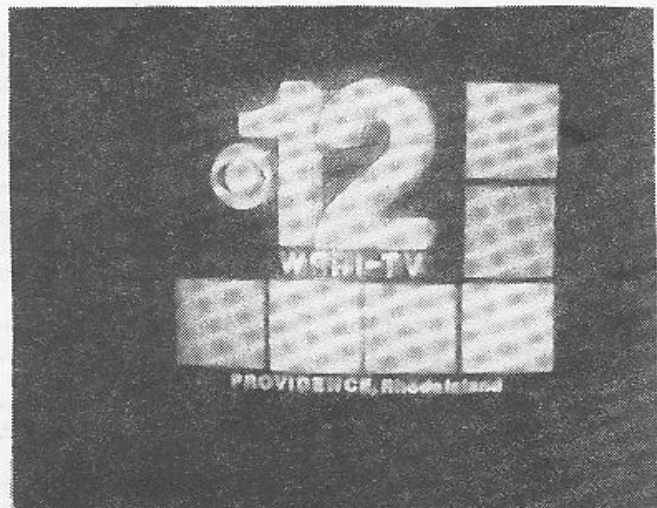
KTVE-3 Sterling, CO
E-skip (Pizzi)



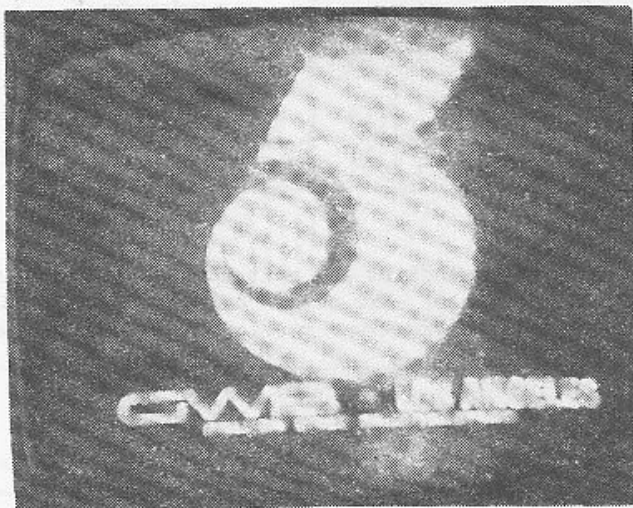
WEYI-25 Saginaw, MI
255 mile tropo (Traska)



CJFB-5 Swift Current, SK
1,280 mile E-skip
7/17/76 (Gaines)



WPRI-12 Providence, RI
395 mile tropo (Yingling)



KTLA- 5 Los Angeles, CA
E-skip
6/5/75, 0930 CST (Hauser)



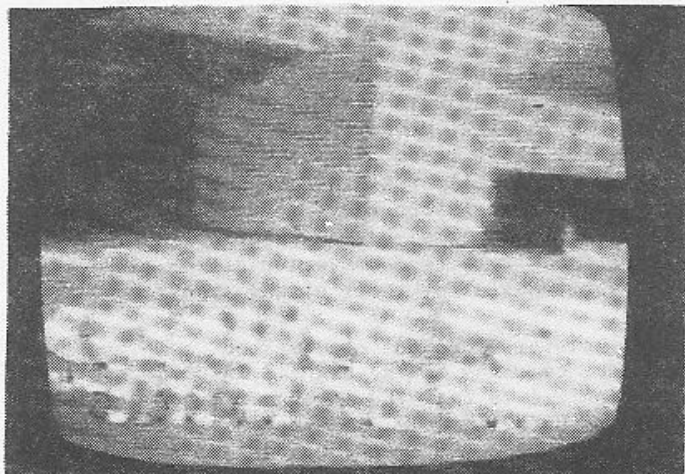
WSFA-12 Montgomery, AL
380 mile tropo
1/4/77 (Combs)



KJHI-16 Joplin, MO
515 mile tropo
7/23/74, 0655 CDT (Gould)



WCCO- 4 Minneapolis, MN
920 mile E-skip
6/18/76, 1630 EDT (Egan)



KDAL- 3 Duluth, MN
E-skip
6/9/76, 1626 PDT (Aden)

My thanks to Buck Battin,
Duluth, Minnesota, for the feature
material, and to the rest of our
10 contributors this month:

- Jim Pizzi, Orcutt, CA
- Paul D. Traska, Buffalo, NY
- Paul Gaines, Detroit, MI
- Tom Yingling, Baltimore, MD
- Glenn Hauser (photo taken at
Enid, OK)
- John F. Combs, Orlando, FL
- Jim Gould, Kokomo, IN
- Dave Egan, Valleyfield, PQ
- Frank Aden, Bend, OR

Anyone planning on a para-
bolic -- remember, they're wind-
catchers. Mount them carefully!

73 and good DX, *Jim*

TECHNI-

CORNER

conducted
by
Dave Janowiak

EDITOR'S NOTE: There was not enough time this month to transcribe the next portion of the tape of Dave Janowiak's convention lecture into a written article. The series on polarization will continue in May. In this issue, Dave presents a question-and-answer session. --CLARKE INGRAM

UHF CONVERTERS

QUESTION...Gary Olson asks, "What can be done about slop from strong locals on channels 5 and 6 that makes UHF reception difficult with UHF converters? I've written to Blonder-Tongue asking about conversion to other channels, but received no reply."

ANSWER...VHF signals that mess up UHF conversion on channels 5 and 6 "get into" the converter through three paths: the UHF antenna directly; the VHF antenna, of course, where they might be coupled via poor shielding or a selector switch with poor isolation into the UHF portion; or direct pickup by the converter, as the wiring, etc. acts as a pretty good "antenna" for strong locals. The result, of course, is random "blips" from any strong VHF or UHF source that might block UHF. Obviously, you can't do much about some of these, unless you buy a new converter. But let's start at the beginning.

UHF is received conventionally with either a "built-in" UHF tuner that comes with all-channel TV sets, or a UHF converter added externally to a TV set and connected via a few transmission line hookups.

With the built-in tuner, UHF channels are converted to the IF frequency of the TV. With UHF selected, converted UHF signals are fed directly into the TV IF. There's no RF amplifier--like British UHF tuners--or no IF stage ahead of the TV IF to boost the desired signal after conversion. (A few rare sets years ago had an IF stage after the conversion.) With UHF selected, you operate a 2-speed dial for the UHF channel desired, usually with some difficulty.

The so-called outboard UHF converter converts UHF to a lower frequency also. But to simplify hookup, the converter output is not the IF frequency of the TV, but is a discrete VHF channel (or channels). Thus, the converter feeds the TV tuner set to the output of the UHF converter. Since the TV's VHF tuner converts this to the IF frequency of the TV, you have double conversion. No converter in the U.S. has an RF stage, but the quality ones have an IF.

Channels 5 and 6 were chosen as the converter outputs for reasons I don't know. The fact that they are adjacent simplifies design, and the improved noise figure of a low band TV channel and the absence of slop above channel 6 help. Although commercial converters for different UHF channels--or converters with a tuneable output to span several channels--are possible, they are uneconomical. So the two adjacent channel setup of channels 5 and 6 was adapted. If you have a local on 5, you use 6, or vice versa.

A good UHF converter with IF stage and, usually, easier tuning has been favored by DXers over the built-in tuner, though the detent tuners of recent years have changed this. Since UHF tuners in all U.S. sets were added only to comply to the law, and even today lag far behind the state of the art, the buyer has suffered. Two or three basic types of transistorized UHF tuners are available for all U.S. TV sets, and none are really worth a hoot for serious DXing. In fact, even the top of the line UHF converters with transistors leave a lot to be desired as they are almost useless in some strong signal areas, as reported by many DXers. (More than one DXer has asked me how to get a good "old fashioned" tube type converter of the 1962-1964 vintage. Some have been delighted to find good tube models for their strong signal areas.)

But the superior performance of a UHF converter, however, does not come without some problems. UHF and VHF sections are not shielded correctly, coupling of VHF signals into UHF section, and vice versa, may occur. Also, switching is required to feed VHF through the converter to the TV antenna terminals when UHF is not selected. Unfortunately, in some models this also may mean interaction between VHF and UHF. Worse, VHF loss may be as high as 30% in the switch. (For critical, weak VHF tropo, the VHF antenna should bypass the converter.) When switched to UHF with a strong channel 5 or 6 selected, VHF is attenuated many, many times, but sometimes a strong VHF signal remains to fight weak UHF. If your TV has poor fine tuning or poor adjacent

channel rejection, or if you don't have enough UHF to begin with, you may have a problem, especially if strong VHF is somehow getting into the converter.

The coupling problem is usually annoying if a local under 10 miles is ruining channels 5 and 6. I don't think Gary's problem is at his Illinois DX site, where WMAQ-5 in Chicago and WITI-6 in Milwaukee are strong indeed with a good VHF antenna, but shouldn't be strong enough to hurt UHF. (His to me is a "dream" DX location, a fact that Gary would never have admitted to until he joined this writer in the shadow of Milwaukee's lousy TV stations.)

Solutions to the problem are many, depending upon how bad your DX setup is. The problem may be solved at no cost at all. Obviously, the problem is limited to those who DX with converters within a few miles of local VHFers.

1) If you use an all-channel log periodic (2-83) antenna, you've got two strikes against you already. These antennas usually have a splitter for separation at the set of VHF, FM, and UHF. And these splitters are usually abominable. Not only is isolation poor (that is, some VHF in UHF splitter section, etc.), but loss is high as well. Also, the gain on a channel 2-83 antenna is so low to begin with at UHF that after the split, you're lucky to have any signal left. Generally, an otherwise fine 2-13 log periodic is ruined when a UHF log portion is "stuck on." Impedance match goes to heck, so VHF suffers also. Many makers compromise so that the VHF portion is still quite good, but UHF performance is poor. You'll usually be better off with, for example, the largest 2-13 only log periodic and an inexpensive UHF corner reflector and correct lead-in than the largest 2-83 log periodic in the same antenna family. Even if you have no problem like Gary's. The log periodic principle, while fine for delivering "flat" impedance match over a wide frequency, just can't deliver high gain and such flat impedance from channel 2 to 83.

2) Any UHF antenna picks up some VHF signal (and therefore channels 5 and 6), but this should be negligible except in the case of a poor splitter just described. Nothing can be done about the VHF signal coupled into the UHF section within the converter, but much VHF signal might be coupled from VHF to UHF via the T-line, if unshielded, especially if lines are parallel and quite close. Of course, if antennas are mounted too close to each other, VHF coupling into the UHF antenna will contribute to the trouble. Separate the antennas (usually at least five feet) and lead-in, and see if that helps. Also, check if unshielded T-line is positioned broadside to local transmitters; this can cause considerable local signal pickup.

3) Traps, of course, in the UHF line for channel 5 and/or 6 will help. (Of course, other VHF signals can ruin a few UHF channels.) Use Channel Master or Jerrold tuneable traps for severe problems, but a cheap T-line wave trap (see December VUD) might be enough to solve the problem if the VHF signal is entering from the UHF line. Of course, the Channel Master creates a loss of about 20-40% of all signals, the Jerrold 10%, and the T-line trap none (approximate values). Finco, Winegard, and JFD all sell cheap screwdriver or slug-tuned traps either for single VHF channels or low/high band. I haven't purchased these, and haven't heard of anyone who's used same, so can't evaluate them.

4) Some UHF converters have a high pass filter in the UHF antenna input circuit. This passes only UHF and reduces greatly any VHF component. Adding circuits of this type, with correct impedance, will help tremendously.

5) Another approach is to get more UHF signal. Since the converter output is broadly tuned to cover channels 5 and 6, try reducing converter IF bandwidth to just channel 5 or 6. My B-T BTU-2 had an IF output quite low at channel 5, higher through 6, and really peaked at 90 MHz in the FM band! I removed the swamping resistor and "created" a bit of inductance by compressing the coil until I had a three-megahertz bandwidth output on channel 5. Circuit Q was increased by about three times. This made some visual improvement of signal, and slop from local channel 6 was nonexistent. Of course, on very weak signals I can't tune sound and picture, but who cares? Retune the output for the most "open" channel. Of course, if you are handy enough with electronics to do this, you can build simple L/C parallel or series traps to remove other strong VHF signals that might enter the converter (and, of course, VHF tuner), and mess up some channels. And a good low noise mixer diode like the IN21WE can improve the noise figure quite a bit for a better UHF signal. (Those with even limited electronic knowhow and equipment can try to improve their UHF converter considerably, even if no slop problem is there, by narrowing the IF bandwidth and adding a good low-noise diode as noted above.)

6) Yes, you can redesign for an output at channel 2, 3, or 4; any converter will tune UHF on these channels anyway, but usually the signal is down due to mismatch. Try tuning UHF on 4 anyway; the IF output might be so mistuned that it's useable on channel 4. Shielding of your converter might help, also...or you can buy another converter, and hope for the best!

Next month, our series on polarization and DX continues.

73, Dave Janowiak

SOUTHERN TV-DX

April 1977

John F. Combs
816 W. Harvard
Orlando FL 32804
(PLEASE SEND NO
MORE REPORTS TO
THIS ADDRESS!!)

This will be the last installment of the SOUTHERN TV-DX column. Please send all future reports to the EASTERN TV-DX column, with address as follows:

Bill Thompson
1907 Seneca St.
Buffalo NY 14210
Deadline: 10th of each month

3-Skip has left us for the most part, as is to be expected for February and March. Openings were noted February 5, 15, and 27, with other dates possible, as evidenced by Randy Clark's reports of frequent CCI on Chs. 2 & 3. The only recent tropo seems to have occurred the 25th-26th, including some nice catches by Dave Cox on rabbit ears. Unfortunately, your editor never seems to be home when these type of openings occur, hi!

Ken Simon, 528 Pilgrim Rd., West Palm Beach FL 33405 (EST)

February		26 Tr	0155	WTLV-12 FL	285	26 Tr	0824	WJSP-28 GA	495	
5 Es	1715			unIDs-2,4				0824	WACS-25 GA	430
	1920			UnID-3				0829	WABW-14 GA	415
6 Tr	0036	WCJB-20 FL	260	0625	WNOK-19 SC	550	1430	WJWJ-16 SC	410	
9 Tr	0730	W69AA FL	45	0630	WJCL-22 GA	390	1430	WJCL-22 GA	390	
	0800	WCJB-20 FL	260	0635	WJXT-4 FL	285	27 Tr	0650	WJCL-22 GA	390
24 Tr	2100	WJWJ-16 SC	410	0635	unID-7 CCI			0900	WCJB-20 FL	260
25 Tr	0427	WJSP-28 GA	495	0635	WTOC-11 GA	390	Es	1530	unID-2 CCI	
	1316	WJWJ-16 SC	410	0650	WRET-36 NC	650		1708	YSR-2 EL SAL.	
	1316	WJCL-22 GA	390		Charlotte			1722	TGV-3 GUAT	T
	1700	unID-26 CCI		0658	WYEA-38 GA	480		1810	XEZ-3 QRO	
	1930	WEBA-14 SC	460	0722	WKAB-32 AL	T		1854	XHD-4 TAMS	
	1930	WRJA-27 SC	580	0725	WOLO-25 SC	550		"No sign of XEW-2!"		
	1930	WRLK-35 SC	550	0725	WRLK-35 SC	550		(Ken's log now at		
26 Tr	0110	WJXT-4 FL	285	0741	WECA-27 FL	360		230--jfc)		
	0125	WNOK-19 SC	550	0741	WETV-30 GA	560		Love that TROPO!		
	0130	WCJB-20 FL	260	0753	WCJB-20 FL	260				
	0139	WCWB-41 GA	465	0753	WAIM-40 SC	565				
	0140	WTOG-17 GA	560		Anderson					
	0140	unID-10 CCI		0806	WDHN-18 AL	440				
				0810	WAAV-31 AL	640				

David Cox, 2007-E Brandywine Ct., Birmingham AL 35126 (CST)

Equipment: 1970 Sears 21" color table model with built-in rabbit ears. GE multiband portable radio with TV channels 2-13 and built-in whip.

February		25 Tr	2231	WCIQ-7 AL	50	26 Tr	0135	KPLC-7 LA	445	
5 Tr	2225	WBRZ-2 LA	330	2329	WALA-10 AL	200		Lake Charles		
	2227	WKRZ-5 AL	200	2332	WTWV-9 MS	140	0136	WSB-2 GA	150	
		Baton Rouge			Tupelo		0210	WJHG-7 FL	225	
	2228	WSFA-12 AL	100	2345	WCBI-4 MS	100		Panama City		
	2229	WTOK-11 MS	130	26 Tr	0000	WLBT-3 MS	225	0230	WAGA-5 GA	150
	2230	WAFB-9 LA	330		Jackson			(OUT OF ORDER:)		
		Baton Rouge		0110	WWL-4 LA	310	0026	WJTV-12 MS	225	
					New Orleans			Jackson		

First DX seen here since the summer of '76...some nice tropo were received from the SW on just the built-in antennas. Sure wish I had an outdoor antenna! Audio on the GE was often much clearer than that on the TV. (That's due to the fact that on most TV receivers, the set is built to fade out the audio in the absence of a strong video signal. The audio and video frequencies are 4.5 MHz apart. Especially troublesome, therefore, are situations where the audio frequency is peaking with no video signal present. On most sets, that audio signal will be suppressed, and maybe not even audible--jfc)

Wayne L. Fitzgerald, 718 Leesville, Lynchburg VA 24502

Not much to report from here. Have seen no skip since last report and hardly any tropo action. There was a pretty good Tr opening last night (3/6--jfc) that brought in Washington area...also a couple of NC V's that usually have a weak sig were almost snow-free. Oh, well, things are bound to get better!"(We can hope!-jfc)

April 1977

Randall B. Clark, Rt. 5, Dutch Ridge, Parkersburg WV 26101 (EST)

February		17 Es	"Cuban CCI on 2"	26 Tr	"All above (2/7) +":		
7 Tr	2030	WVU-24	WV 85	21 Es?	"Au-type shimmer-	2115	W31AA OH 70
	2030	WKEF-22	OH 145		on 2,3..."		
	2030	WPBO-42	OH 85	22 Es?	"Cuban-type CCI	March	
	2330	WUAB-43	OH T		as yesterday--	2 Tr	0815 WKEF-22 OH 145
	2330	WLEX CCI/WHIZ-18			stronger, but		0816 WOSU-34 OH 90
8 Tr	2330	"All above +":			faded out..."		0816 WPBO-42 OH 85
	2330	WNEO-45	OH 115	23 Es?	"Wierd 10 kHz		0820 W31AA OH T
	2330	WOSU-34	OH 90		beat against KDKA		0825 WVU-24 WV 85
	2330	WPGH-53	PA T		...1545 poss.		0830 WKMR-38 KY 120
9 Tr	0000	WEAO-49	OH 125		Cuban audio..."		0830 WEAO-49 OH 125
	0050	WTVQ-62	KY 180				"Dead at 1000"

Well, the weather has taken a turn for the better. But I for one wonders how Bill Thompson survived what appears to be the worst winter season yet!! Sorry about giving incorrect info on my college plans, but now to set the record straight--I will be attending (definitely) WV State College in Charleston WV for about 1 year, then it's on to WV Tech.....Well, here's my 'statistics': I am 30 years of age. I started TVDXing in June, 1973. Enjoy reading & watching science fiction & Star Trek--a true 'trekkie' at heart!! Photography's another hobby that I seem to enjoy very much (I'm just getting into it--jfc) as well as being interested in radio wave propagation...I'd just love to be on a gov't. research project concerning studies with various forms of propagation...I am as well a fan of NBC's Saturday Night and Monty Python's Flying Circus. A comedy fan--5 cassettes on comedy alone! Well, how much more do you want me to write? I think that's quite enough, Randy, tnx for your "stats". I have approximated our distances in your report above. Are all those stations really "DX"? I.e., stations that are not normally seen at your QTH? If so, what type of antenna set-up do you have??--jfc)

John F. Combs, 816 W. Harvard, Orlando FL 32804 (EST)

Present equipment: Sears 17" B&W TV (UHF screwed-up, VHF ailing)
 RCA 9" portable B&W TV (No VHF, UHF okay)
 Archer V-150 VHF antenna at 25 feet above ground.
 4-bay UHF antenna at 30 feet above ground.
 Winegard AC-4990 UHF pre-amp.

February		15 Es	0948 KETS-2	AR 785	25 Tr	0655 WMAZ-13	GA 318
5 Tr	0011	WITN-7	NC 526			LITTLE Rock	*0708 WJWJ-16
	0011	WCTI-12	NC 508	0952	KARK-4	AR 785	*0708 WTCG-17
	0035	WTVQ-11	NC T	0954	KFSM-5	AR 901	*Logged on VHF ant: UHF out,

will withhold my comments until next time.

and now.....our first international reporter!!

Winston Smith, 4 Rifle Rd., Norman Gardens, Kingston 2, Jamaica, W.I. (EST)

Loggings made February 27, 1977 between 1630 and 2030:

WBRZ-2	Baton Rouge	LA (1285)	"Good picture & sound"
WEAR-3	Pensacola	FL (AL) (1140)	"Good picture & sound featuring WWOS, etc."
WDSU-6	New Orleans	LA (1225)	"Nx at 6 P.M. followed by Wx & sports"
WKRQ-5	Mobile	AL (1250)	"CBS network--a game of golf was seen"
WDIQ-2	Dozier	AL (1090)	"Good picture, not so good sound..."

This is my first contribution to your column. Things don't happen very often in these areas, but I hope to be able to contribute whenever 'things do happen'.... Working with a 23" B&W electrochrome with an ordinary 'fan-type' antenna about 10' above ground....more next time--73!"

That certainly was a nice opening, Winston. As you can see I've figured the approximate distances for your loggings. It must be nice to DX with channels 2-clear!! I suppose the only real DX activity one has down that way are the Es openings, although S. Cuban tropo might be possible. I wish more of our non-USA porters would contribute--jfc)

Thank you all for your support of this column during the 4 months of its existence. I hope you all contribute to Bill's column in the future. I've enjoyed writing this column immensely and hope to do one again in the near future. God bless you all, and thanks again!! 73, John.....

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

April 1977

TV-DX from the Northeastern U.S. and Eastern Canada

DX conditions in most of the Northeastern regions of the continent were about normal for late winter: very dull. However, some of the areas hardest hit by the infamous Winter of '77 enjoyed a preview of spring in the first part of March. With very stable high pressure during this period, some Northeastern U.S. cities reached temperatures in the mid 60's to low 70's for the first time in many months. Thanks to this early northerly movement of Gulf air, we may have some interesting tropo reports next time. Be prepared for E-skip!

Bob Seybold Bennett Road Dunkirk, New York

"Not much DX here for a long time--but haven't watched much either. It has been a terrible winter, as you can guess. Some of my antennas went down in one of the storms and they will probably not be put back up till spring. I can say much about snow--you in Buffalo have had plenty too! I can report this small amount of DX:

January

2 Tr "Evening--all Detroit U's good, also WEYI-25 WKAR-23 WUHQ-41 CKCO3-42 and other Canadian U's on 40, 32, 48, 59, 76, 78--also WJAN-17, many WNED translators and these: WKBS-48 WFMZ-69 Allentown PA, W60AD-60 Savona NY, Scranton U's, WUTR-20 WENY-36 WNPI-18 WNPE-16 and others."

"Also some occasional E-skip observed especially on channels 2 & 3 from time to time in December and January--no IDs, and not good openings. Looks like it has been a long winter here and generally bad DX season for most."

Paul D. Traska 64 Weaver Avenue Buffalo, New York 14206 (EST)

January

<u>January</u>		<u>February</u>		<u>March</u>	
5 Tr	1200 W50AA-50 NY W64AG-64 NY	10 Tr	2130 "Detroit, Youngs- town, Binghamton, Scranton, etc."	11 Tr	1935 CBLFT5-15 ON Belleville CBLFT6-32 ON Kingston
	1530 "Binghamton, Elmira, Scranton, Philly, Trenton, WilkesBarre"	11	0930 "Same as above with WKBS-48 PA and WNJT-52 NJ	2014	W60AC-60 NY
	1750 W60AD-60 NY WTPA-27 PA WHP-21 PA	18	0045 unIDs 17 & 18 "south"	2015	W56AD-56 NY
6	0050 W55AC-55 NY Cohocton (WSKG)			2016	W56AF-56 NY
				2017	W62AD-62 NY W62AE-62 NY W62AC-62 NY
29 Es	1500 WLBT-3 MS			2047	WANE-15 IN
	1520 WBRZ-2 LA			2048	WKAR-23 MI WKJG-33 IN
	KATC-3 LA	4	1540 WDCA-20 DC	2101	WEYI-25 MI
	1530 WEDU-3 FL	10	2040 CBLFT4-44 ON Peterborough	2114	WPTA-21 IN
				2245	WGTE-30 OH
				2246	W39AA-39 IN

David J. Egan 92 Joron Valleyfield, Quebec J6S 3P3

"...My interest in DXing has not waned. My time simply does not permit me to sit in front of a television set watching fuzzy pictures and flashing lines as I used to be able to do...Of course I still periodically check the dials and mark down scribbles when I note E-skip or strong meteor-scatter, but I have not actively logged since last summer. In 1970 my antenna system was an all-channel VHF yagi on a 15-foot pole guyed on my roof at 12a Andrew. I was not equipped for UHF. In 1975 I set up first a 52-foot tower at 12a Andrew and then a 68-foot tower at my 92 Joron address, with a 7-foot UHF dish plus a VHF set-up. In 1976 I sold my tower (which I had dreamed of getting for five years) to my brother-in-law and took a vacation in Florida with the money. How values changed in only six years! Today in 1977 I have an all-channel VHF yagi and a small UHF screen on a 15-foot pole attached to the side of the house. With a little luck I pick up WNPI-18 Norwood, NY, which is only 45 mi. away. I rarely get a good color picture from channel 18. My current location affords little tropo DXing and even the E-skip is poor. Perhaps should I change my location later this year my taste for DXing will return with better conditions, but as I said earlier, time is the biggest factor. The only thing I can say to those members who, like me, haven't the time to report in as often as they'd like, is to at least try to send in a couple of lines once in a while to your column editor to let the club know what you're up to. I personally have not been heard from in about ten months. I should have tried to find a little time to write in, but I guess I overlooked it. If you could send in a small report you would see how more interesting you could make your column and your publication itself...for now, 73 and best of luck to all."

Roy Barstow 70 Heritage Circle Teaticket, Massachusetts 02536 (EST)

<u>November</u>		<u>January</u>		<u>February</u>
15 Es 2100 WMT-2 IA		3 MS 0210 WKYC-3 OH		29 Tr 1300 WMC-5 TN
22 2200 WEDU-3 FL		0220 WBAY-2 WI		1458 WMAB-2 MS
"Es in & out late		0233 KMOX-4 MO		1500 KETS-2 AR
afternoon, evening"		"best morning for		1502 KTBS-3 LA
		MS here with many		1530 WFIAB-2 MS
<u>December</u>		unIDs"		WLBT-3 MS
15 Tr 2000 "NJ ETVs,		Tr 1345 WVIA-44 PA		
to Philly, WNYC-31		1650 WVTA-41 VT		<u>February</u>
2200 & semi-locals"		WLIW-21 NY		11 Tr 1658 WCMC-40 NJ
21 Es 1730 WRBL-3 GA		WPHL-17 PA		1700 WYAH-27 VA
WSJK-2 TN		"NJ UHF ETVs"		WHRO-15 VA
1800 WSM-4 TN		unIDs to 2130,		
1830 WLBT-3 MS	4 Es 2000	channels 2 & 3		<u>March</u>
1900 WEAR-3 FL		1630 WEAR-3 FL		1 Tr 2230 W62AB-62 RI
1930 WDIQ-2 AL	26	WKRG-5 AL		(WSBH xltr)
"skip started coming		"out at 1735"		3 2030 WCPB-28 MD
in around 1445--out		1230 KETS-2 AR		"plus NJ UHF ETVs"
around 1945. Up to	29	WRBC-3 TN		5 2300 WCMC-40 NJ
channel 5 at times."				WBOC-16 MD
				WCPB-28 MD

"During this DX period there were no real tropo openings to speak of. Have you ever opened your front door during blizzard conditions and found your mast, VHF antenna, UHF antenna, and rotor on your front lawn? Who says Cape Cod doesn't get snowstorms? No part of the mast bent or broke (dowels inside the pipe to strengthen it). The bottom of the rotor broke off. 7' dish a mess, but high-band Super Vector could be salvaged. The mast came off the 70' tower. Thank God it happened late at night and didn't hit the house."

Dr. Joel Rosenberg Apt. 909 - 40 Godstone Road Willowdale, Ontario M2J 3C7

"I got married and am now living in Willowdale (N.E. Toronto) on the 9th floor of an apartment building. Our balcony faces north-east (lousy for DXing!). Work has been keeping me very busy--however, over the summer, I was able to catch a couple good openings. Better late than never to report! Using a loop, WXXI-21 and CICO28-28 were seen quite often. With slightly improved conditions WNPE-16, WCNV-24 and CBLFT1-76 were common. I also use a home-made 4 bay bow-tie antenna. I was able to catch some of that big opening in late August:"

<u>July</u> (all times EDT)		24 Tr 1730	WBRE-28 PA		7 Tr 0900	WSYE-18 NY
31 Tr 0820			WNPE-16 NY			WENY-36 NY
"using loop"		1805	WHNB-30 CT			WUAB-43 OH
WKBN-27 OH			New Britain			unID-66
WYTV-33 OH			"First CT stn!!"			"frame bar"
WUAB-43 OH		1900	WUTR-20 NY		9 0830	W46AB-46 NY
WNBO-45 OH			WNEP-16 PA			WICZ-40 NY
<u>August</u>			WVIA-44 PA			unID-50 "ETV
21 Tr 1000		2200	"unID 33, 41			// to WRBD;
WNDU-16 IN			(Vermont ETV)"			frame bar
22 2200			W50AA-50 NY			52 or 53"
WMHT-17			"CCI o/CICA-19"	13	0930	WQLN-54 PA
Schenectady		2300	WVTE-20 VT			WUAB-43 OH
"Finally!!"			St Johnsbury			CBLFT1-76 ON
WBRE-28 PA		25 0715	unIDs 49, 55			WENY-24 NY
WNEP-16 PA			"frame bars;			W46AB-46 NY
24 0830			CCI over CICA-19"			unID-50 "ETV,
WSYE-18 NY						again!!"
WUTR-20 NY		<u>September</u>				
WNEP-16 PA		3 Tr 0900	CBLFT2-40 ON		19 0920	CBLFT1-76 ON
WDAU-22 PA			London			WKBN-27 OH
WBRE-28 PA			"testing"			WXXI-21 NY
WENY-36 NY		0925	WGPR-62 MI		0930	WPGH-53 PA
WICZ-40 NY			WKBD-50 MI			WAKR-23 OH
WSKG-46 NY		0933	CBEFT-78 ON			
0840 unID-22 "ABC"			Windsor			
1730 WSYE-18 NY						

"This afternoon (March 8), while flipping through the channels, saw CBLFT4 Peterborough ch 44 testing. A call to CBC revealed nothing other than that sister stations ch 15 Belleville, ch 32 Kingston will take to the air at the same time (when?). Engineer did not know when testing began but said that it probably was in the past few days. That's all for now."

Steven Sprachman Box 88 Moffitt Hall SUNY Plattsburgh Plattsburgh NY 12901

"There has not been much DXing here lately because of a broken TV...WCPB-57 Plattsburgh (11) on the air testing." (Steven also notes poor DX conditions at a number of other State University of New York campuses he has recently visited -bt)

CENTRAL TV-DX

William J. Draeb
Ellis St. R.R.#2
Kewaunee, Wi.
54216

Deadline: see
notice.

April 1977

*
* IMPORTANT *
* NOTICE *
*

This is the last Central TV-DX column. Beginning with the May VUD, contributors to this column will either send their reports to the Eastern TV-DX column editor or the Western TV-DX editor. The dividing line between East and West is the Mississippi River. Thanks to all who contributed in the past.

It looks as though the Winter deep freeze weather has finally come to an end. Tropo: DX shows signs of improvement as a result, nothing real spectacular though. Here are this months' reports:

Buck Battin; 4305 Pitt, Duluth, MN 55804 CST (218)-525-78-0810

"February has been bleak for DX...its the second poorest I've ever done anywhere. The poorest was March, 1975 in Albuquerque. That month there was no Es at all, tropo: apparently does not occur in Albuquerque, and my log for the month was one meteor scatter.

I'm still beefing up my system. My seven foot dish arrived from Finco. I put it up and four days later it came right down again, courtesy of winds gusting over 100 miles an hour. One of the guy wires snapped and the steel mast bent itself over into a perfect "U"...fortunately, the downward travel of the bending metal stopped with my shiny new dish about two inches from the roof top and disaster. My horizontally mounted 10 element low band yagi didn't fare so well...its been patched back together with tape, but all the plastic insulators are broken and the big yagi will shortly have to go to the garage for spare parts. I found a store here that stocks Winegard 10 element yagis ...so it can be replaced without ordering. (The present model is a Jerrold, I assume they're comparable.)

My CMA-Ub has not arrived, its on back order. The power supply, however, is here. Finding a low loss 75 ohm cable has been a real hassel. None of the distributors I talked to have heard of aluminum-shielded coax. Finally, I settled for RG-11/U foam, but that hasn't been easy either. Even in Minneapolis, nobody stocked it and to have them order it for me, I'd have to buy a thousand feet. I finally found an outfit in Chicago which would sell me 100 feet of RG-11/U foam, but as with most things which have to be ordered, weeks have gone by and I've heard nothing.

Oh well...the trials and tribulations of TV-DXing."

2-13 Es 1240 Unided ch.2 2-21 Tr 1200 WHLA-31 La Crosse(210)
2-20 Tr 0800 WNPB-13(now WNMU-13--wd) 2-22 Tr 0720 " " "
 2250 WHLA-31 La Crosse(210) 2235 WNMU-13 Marquette, MI(225)

Paul Gaines; 15920 Puritan St., Detroit, Mi. 48227 EST

Summarizing Paul's report: WCBS-2 seen via Ms almost every day from 1-9 till 2-24.--wd Other DX:

1-13 Tr 0216 WOWK-13 Huntington(280) 2-11 Tr 0121 WOWK-13 Huntington(280)
1-27 Ms 0516 WWL-4 New Orleans(940) 2-17 Ms 0407 WWL-4 New Orleans(940)
2-10 Tr 0219 WOWK-13 Huntington(280)

Michael L. Hogan; 9224 Cottage Grove Ave., Highland, IN 46322 (219)-924-2361

"There has been no significant DX within the past month. All my spare time has been in re-evaluating and upgrading my present DX setup. I am looking forward, as probably everyone else is, to a fantastic Es season, for me it will probably be the first year that I will have some time to persue Es DX on a regular basis. Log total still stands at 42 stations from 10 states, hopefully with any kind of luck I could break the 100 mark during the upcoming season. 73's."

(continued on page 32)

WESTERN TV-DX

Doug Everitt
1710 W Maine
Enid OK 73701
Deadline: 10th

As most of you probably know, the WESTERN TV DX reporting zone has been expanded to include Minnesota, Iowa, Missouri, Arkansas, and Louisiana. I'd like to welcome all TV DXers in these new WTV states, and encourage you to report your DX regularly!

A very nice reporter turnout this month, including four new reporters: Rick Samford, Karen Young, John Jefferson, and Dale Connolly. Let's all hope this upward trend in Western reporting continues!

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (07 Jan-07 Mar)

Equipment: 1971 and 1976 Penncrest b&w 9-inch sets; Archer V-100 and eight-bay UHF bowtie array at 20 feet with rotor. New loggings underlined.

J 07 Es	0959 WBAY 2 WI 1190	22 Es	1740 XHTV? 4 DF 690	29 Es	1729 KETS 2 AR 515
	1029 KUSD 2 SD 920		XHGC? 5 DF 690		1735 KARK? 4 AR 515
	1040 WCCO? 4 MN 1110		2030 f/outs		1825 f/outs
	1100 WMT 2 IA 945	23 Es	1840-2130 MUF 4 S.	31 Es	1434 WDTN 2 OH 1075
	1110 f/out	24 Es	1557 WTWO 2 IN 935		1438 WCMH? 4 OH 1130
	1645 Cuba? 2 brief		1608 WDTN 2 OH 1075		1600 WTVN? 6 OH 1130
	1750 YSU? 4 ELS 1200		1610 WCMH? 4 OH 1150		1617 MUF 95.3 MHz
	1754 YSR 2 ELS 1200		1620 f/outs		1635 f/outs
	1829 WPBT 2 FL 1150		1645 Cuba 2	F 01 Es	1110-30 WESH? 2 FL
	1902 WESH? 2 FL 1055		1657 Cuba 3		1725-1829 WPBT 2 FL
	1915 f/out		1740 WTVJ? 4 FL 1150		1745 Cuba? 2
11 Es	1255 TGV? 3 Gua 1120		1744 WPBT? 2 FL 1150		1920 WAVE? 3 KY 945
	1340 YSR 2 ELS 1200		1759 WESH 2 FL 1055		WCMH? 4 OH 1130
14 tr	0959 KLBK 13 TX 340		WEDU 3 FL 985		1959 WDTN 2 OH 1075
	1059 KOSA 7 TX 280		1815 WJXT? 4 FL 1015		all spotty after 2015,
	1227 KLFY 10 LA 395		1825 WUFT? 5 FL 975		but some traces to 2115.
	1229 KMCC 28 TX 340		WPTV? 5 FL 1150	02 Es	0955-1030 KUTV 2 UT
	KCBD 11 TX 340		1830 WCIX? 6 FL 1150		1002 KCPX? 4 UT 1080
	traces of KMCC in		1842 MUF 99.1 MHz		1315-45 KNXT 2 CA
	until apx 1500.		1900 Cuba? 5		1335 KEYT? 3 CA 1270
Es	1758 YSR 2 ELS 1200		1915 Cuba 6	04 Es	0940 MUF 90.5 MHz
	1800 XHBC 3 BCN 1010		2029 XHY 3 YUC 820		0928 XHGC? 5 DF 690
	1810 KNBC? 4 CA 1190		2045 XHTV? 4 DF 690		1535-50 MUF 2 South
	1815 XETV? 6 BCN 1100		2140 f/outs		1715-1955 MUF 4
	1839 MUF 98.1 MHz	25 Es	1917 YNTC 2 NIC 1425	05 Es	1624 WCB 2 SC 1120
	1943 KVVU? 5 NV 1040		1925 YSR? 2 ELS 1200		1659 WEDU 3 FL 985
	2025 KCPX? 4 UT 1080		1930 YSU? 4 ELS 1200		1705 WESH 2 FL 1055
	2028 KTWO 2 WY 1015	26 Es	1821 MUF 98.9 MHz		1715 KOAI? 2 AZ 855
	2059 KID 3 ID 1215		2059 WPBT 2 FL 1150		WJXT? 4 FL 1015
	2140 f/outs		WTVJ? 4 FL 1150		1733 KPHO? 5 AZ 835
	some resurge @ 2200.		2135 f/outs		1737 MUF 98.7 MHz
15 Es	1945 YSR? 2 ELS 1200	27 Es	2005-2050 MUF 4		1745 WTVJ 4 FL 1150
	1950 YSU? 4 ELS 1200		2034 XHFM 2 VC 730		KTVK? 3 AZ 835
	2030 f/outs	28 Es	1205 WPBT? 2 FL 1150		1810 XHBC? 3 BCN 1015
16 Es	1837 KNBC? 4 CA 1190		1410 WDAF? 4 MO 700		1812 KVOA 4 AZ 750
	KPHO? 5 AZ 835		1507 WCCO? 4 MN 1110		1915 WPBT? 2 FL 1150
	1845 XETV? 6 BCN 1100		1539 KDIX 2 ND 1225		WSAV? 3 GA 1050
	1859 KTVK 3 AZ 835		1550 KFYR? 5 ND 1200		1930 XHFA? 2 SON 740
	1901 KNXT 2 CA 1190		KDUH? 4 NE 940		2010 KUTV? 2 UT 1080
	1902 MUF 95.5 MHz		1559 KOTA 3 SD 1040		2035 f/outs
	1950 XEWH? 6 SON 765		1724 MUF 107.9 MHz	06 Es	1035-1045 MUF 2 sse
	2030 KOAI 2 AZ 855		1748-58 KCMT? 7 MN		1200-1205 MUF 2 South
	2055 XHBC? 3 BCN 1010		1959 WMT 2 IA 945		1600 XHBS? 4 SIN 700
	2150 f/outs		2050 KVOA? 4 AZ 750		1612 XEWH? 6 SON 765
	2230 2 & 4 tent. L.A.		KPHO? 5 AZ 835		1630 KVOA? 4 AZ 750
18 Es	1602-45 KWGN? 2 CO		2059 KTVK 3 AZ 835		1635 KPHO? 5 AZ 835
	KTWO? 2 WY		2104 KUAT? 6 AZ 750		1645 KUAT? 6 AZ 750
20 Es	0835-45 WFMY 2 NC		2225 f/outs		1717 MUF 107.1 MHz
	1625 YSU? 4 ELS 1200	29 Es	1059 KID 3 ID 1215		1800 XHP? 3 PUE 735
	1630 TGV? 3 Gua 1120		1129 KUTV 2 UT 1080		1950 MUF 106.5 MHz
	1727 YSR 2 ELS 1200		KCPX? 4 UT 1080		2059 KNXT 2 CA 1190
	1830 KBCI 2 ID 1370		1214 MUF 90.1 MHz		KNBC? 4 CA 1190
	1845 KUTV? 2 UT 1080		1255 KNBC? 4 CA 1190		2300 f/outs
	1937 KNXT 2 CA 1190		KNXT 2 CA 1190	07 Es	0150 KEYT? 3 CA 1270
	1945 f/outs		1500 WDTN? 2 OH 1075		0159 KNXT 2 CA 1190
22 Es	1400 TGV? 3 Gua 1120		WCMH? 4 OH 1130		KNBC? 4 CA 1190
	1435 YSU? 4 ELS 1200		1600 WSB? 2 GA 880		0210 f/outs
	1508 YSR 2 ELS 1200		1715 WAVE 3 KY 945		0945-1005 KUTV? 2 UT

Pat Dyer continued...

Well, maybe you're right about the seasons merging down here. January produced levels of Es unlike anything I've seen in that month before. As usual, a large amount of the Es was into Mexico, etc., but a lot of it has been up north with high MUFs. Perhaps we'll get a rest before the summer season shows.

F 07 Es	1110 KEYT? 3 CA 1270	08 Es	1803 KWGN 2 CO 810	11 Es	1920 YSR? 2 EIS 1200
	1120 KNBC? 4 CA 1190		1808 KTWO? 2 WY 1015		TGV? 3 Gua 1120
	1129 KORK 3 NV 1050		1825 KTVI 2 MO 790		2020 f/out
	KOAI 2 AZ 855		1828 KCPX? 4 UT 1080	12 Es	1135 WSJK? 2 TN 1010
	KNXT 2 CA 1190		1829 KUTV 2 UT 1080		1205 WCBD? 2 SC 1120
	1130 KVVU? 5 NV 1040		1859 KORK 3 NV 1050	13 MS	1357 WDIQ? 2 AL 730
	1155 KSBY? 6 CA 1135		1930 KVOA? 4 AZ 750		Es 1400 KDAL? 3 MN 1250
	1215 KTLA? 5 CA 1190		1935 KVVU? 5 NV 1040	MS?	1400 KCKT 2 KS 615
	1225 MUF 93.9 MHz		1959 KEYT 3 CA 1270	Es	1429 KTCA 2 MN 1110
	1330 f/out		KNXT 2 CA 1190		1432 WCCO? 4 MN 1110
	1517 KDIX 2 ND 1225		KNBC? 4 CA 1190	14 Es	1040-55 KTWO 2 WY
	1645 WMT 2 IA 945		2053 MUF 107.9 MHz		1129 KQTV 2 MO 750
	WCCO? 4 MN 1110		2230 f/out		1159 KUSD 2 SD 920
	1659 KTWO 2 WY 1015	09 Es	1827 WESH 2 FL 1055	15 Es	0920-25 WSB 2 GA
	MUF quickly thru FM		1829 KTCA 2 MN 1110	17 MS	0857:40 KTCA 2 MN tp
	1753 KABY 9 1105		WEDU? 3 FL 985	tr	2300 KPLC? 7 LA 325
	Aberdeen SD		1835 f/out	18 tr	2210 KPLC 7 LA 325
	unIDs 8		1959 KTWO 2 WY 1015		2342 KFDM 6 TX 275
	KESD? 8 SD 1020		2020 KCPX? 4 UT 1080	19 tr	0110 KTRE 9 TX 265
	1759 KSFY 13 975		MUF 88.9 MHz		KALB? 5 LA 385
	Sioux Falls SD		2034 KUTV 2 UT 1080		0113 KBMT 12 TX 275
	KELO 11 975		2040 XHBC? 3 BCN 1010	21 tr	2130 XET? 6 NL 270
	Sioux Falls SD		2125 KORK 3 NV 1050	22 tr	0715 KSWO? 7 OK 355
	more unIDs 7-12...		2129 KOAI 2 AZ 855		0720 KCBT 11 TX 340
	1803 KCMT 7 1150		2155 f/out		0725 KAUZ 6 TX 305
	Alexandria MN	10 Es	1055 KNXT? 2 CA 1190		0728 KFDM 3 TX 305
	KEYC? 12 1045		KEYT? 3 CA 1270		0759 KLBK 13 TX 340
	Mankato MN		KNBC? 4 CA 1190		KMCC 28 TX 240
	1807 WTCN? 11 1110		1100 KTLA? 5 CA 1190		0805 KOCO? 5 OK 420
	Minneapolis MN		MUF 90.7 MHz	25 tr	0100 KFDM 6 TX 275
	1812 unIDs 7-12		1110 XETV? 6 BCN 1100		0828 WAPT? 16 MS 525
	Traces of 11 to 1830		1629 KTWO 2 WY 1015		WGNO? 26 LA 510
	and 7 to 1835.		1659 KTVQ 2 MT 1245		0830 WMAU 17 MS 470
	1910 unID 7 brief		1725 KOTA 3 SD 1040		0835 WHTV? 24 MS 620
	More in comments...		1729 KDIX 2 ND 1215		0840 WBRZ? 2 LA 450
	2228 XHBC 3 BCN 1010		1745 WDAY? 6 ND 1210		1935 WBRZ? 2 LA 450
	2235 XHAQ? 5 BCN 1010		1758 KOA? 4 CO 810		2025 WGNO? 26 LA 510
	2259 KOAI 2 AZ 855		1820 KVVU? 5 NV 1040		2110 KPLC 7 LA 325
	2329 KORK 3 NV 1050		1825 KORK 3 NV 1050		2206 KLFY 10 LA 395
	2340 f/out		1827 XHBS? 4 SIN 700		2230 KALB? 5 LA 385
	(quite a day! de)		1828 KOAA? 5 CO 700		WMAU 17 MS 470
08 Es	1045 KOAI? 2 AZ 855		1838 MUF 106.7 MHz		WMAV 18 MS 630
	KTVK? 3 AZ 835		1902 XETV 6 BCN 1100		WMAH 19 MS 570
	1050 KVOA? 4 AZ 750		1929 KRMA 6 CO 810		WLPB? 27 LA 450
	KPHO? 5 AZ 835		1959 KOAI 2 AZ 855		WRBT? 33 LA 450
	1059 KTVK 3 AZ 835		KTVK 3 AZ 835		2259 WYEA 38 GA 830
	1126 XETV 6 BCN 1100		KPHO? 5 AZ 835	26 tr	0025 WTUV 9 MS 665
	1122 MUF 98.7 MHz	11 Es	1920 YSU? 4 EIS 1200		0029 KFDM 6 TX 275

Well, nature finally pulled the Es plug out of things in mid-February. From here, apparently one of the best winter Es seasons ever. The hi-band Es of February 7 was the highest MUF I've seen in nearly 18 years of TV DXing. It's the sort of event that you literally have dreams about (and become despondent upon awakening). I did manage to get a little of it on tape, but I don't have an SLR camera, so no photos of the snowy but clean ch.13 from SD (ch.7,8,11 often badly messed by CCI). I have plenty of tentatives to try to track down with program data. It will take some time, as the Dakotas, etc. have a lot likely. The theoretical MUF based on ch.13 would be around 228 MHz. It does boggle the mind a bit. And, to finish off the month, a little bit of UHF tropo. It was the best I've caught since early February 1976. Cold front came thru, though, and put an early end to it morning of 26th. 73, WA5IYX

(Some fantastic catches on hi-band, Pat! If you come up with any IDs out of your tentative stack, be sure to forward them to us. de)

(Pat mentions that his local 5, 7 in Austin, and some stations in Houston and DFW have begun a regional all-nite net show 0100-0600 Sundays. Austin is point of origin. These should make good MS targets. de)

Jim Pizzi, 300 Park, Orcutt CA 93454 (PST) (29 Jan-27 Feb) Log totals: 186
 29 Es 1119 KOCO 5 OK 06 Es 1850 KMID? 2 TX 08 Es 2043 KMOL 4 TX
 1140 KFDX? 3 TX 08 Es 1830 KENS 5 TX KENS 5 TX
 KAMR? 4 TX 1831 KMOL 4 TX 09 Es 1038 XHCH 2 CH
 KTVY? 4 OK KMID 2 TX XHI/XHFA? 2
 KOTV? 6 OK XEPM? 2 CH 11 Es 1015 XHCH? 2 CH
 1205 KMID 2 TX 1910 KOSA? 7 TX 20 tr 1724 KTSF 26 CA S.F.
 06 Es 1743 XHI 2 SON 2036 KDBC? 4 TX 1739 KQBC 32 CA S.F.
 XHQ 3 SIN 2037 XHIT? 4 CH Es on Feb 8th most intense
 XHBS? 4 SIN 2040 XEPM? 2 CH ever noted for this time of
 1850 KAMR? 4 TX 2041 KACB? 3 TX year. FM was open for over
 two hours, with ten new TX stations. Definite ch.7 Es @ 1910 w/10kc to ABC. -

Rick Samford, 404 S McNeill, Burnet TX 78611 (CST)

I joined WTFDA in January with a strictly FM-only DX interest, but some recent UHF tropo loggings have been deemed meritorious enough for me to amend my FM-only policy.

I'm situated in a town of about 3,000 people located approximately 40 miles northwest of Austin and 100 miles north of San Antonio, in an area known as the Hill Country. Burnet is located in a moderate valley with hills in virtually every direction, which inhibits reception. Non-DX TV signals include the three network affiliates in Austin (7,24,36), the PBS station in Belton (KNCT-46) 50 miles away, and PBS KLRN-9 in New Braunfels (listed as San Antonio). The UHF stations listed at the conclusion of this letter were logged using the following set-up: Winegard 4-bay bowtie UHF array at 28 feet with an Archer mast-mounted preamp. For VHF, there is a ten-element hi-band yagi. The receiver is a 19" RCA XL-100 with a defective UHF tuner, which has been replaced by a Blonder-Tongue BTX-111 converter. Needless to say, it is considerably less than state-of-the-art in all aspects and was not assembled with DX in mind. The poor terrain and inferior antenna set-up make these loggings even more remarkable. (Just goes to show what long-haul ducting can do! de) These antennas are pointed southeast without a rotor.

Within a five-mile radius since 1967 we've had four tornadoes and one hailstorm which was severe enough to have virtually all rooftops replaced. The ten-element Archer FM withstood the baseball-sized hail with no detectable deterioration in performance. The last tornado (five days ago) was two miles away, although an antenna mast four blocks away was broken in half.

The main reason for this report, of course, is to notify you of my reception of WBBH-20, Fort Myers FL, at a distance of approximately 1020 miles. Reception was first noted at about 0840 CST and continued until approximately 0900. Video quality ranged from extremely weak b&w to extremely weak color, but this (color) was quite infrequent. The picture lacked horizontal stability throughout most of the viewing period, but the audio was readable most of the time. For a UHF tropo logging at this distance, I had to have a QSL, and just yesterday (March 7th), I received a verification letter signed by their chief engineer, David McKelvey, as well as a coverage map. According to the map, their transmitter is located at Lehigh Acres, 14.8 miles east of Ft. Myers (Latitude 26°35'48"N, Longitude 81°37'53"W).

The distance of 1020 miles was calculated using a large U.S. map where 1"=80mi. Using this map, the mileage ratings are more conservative than other DXers' claims. The chief engineer stated that I was their most distant viewer to date.

I hope I'll be able to report more long-haul tropo now that spring has arrived.

21 tr 0755 KDOG 26 TX 25 tr 0745 KDOG 26 TX 01 tr 0805 KDOG 26 TX
 KHTV 39 TX 0810 KLAA 14 LA 390 KHTV 39 TX
 25 tr 0745 KEDT 16 TX 0825 KXIX 19 TX 03 tr 2055 KEDT 16 TX
 virtually snowfree 0840 WBBH 20 FL 1020 2130 KDOG 26 TX
 0745 KHTV 39 TX M 01 tr 0805 KEDT 16 TX much weaker than in Feb.

(Thanks, Rick, and welcome! I hope you'll start systematically DXing UHF this spring. If it weren't for your wind problem, I'd suggest a dish and rotor. de)

Karen Young, P.O. Box 576, Wrightwood CA 92397 (PST) (February)

This is the first report I have submitted to this column, although I've been TV DXing since 1975 during summers. It is also the first time I've seen winter Es. For three days it came in strong, then nothing since that time. Openings were very strong but short-lived--so many UNIDs.

My equipment consists of a GE 11" portable on its last legs (defunct UHF tuner, VHF tuner showing its age, too), Winegard 530 antenna up 70 feet on a rotor, and Winegard AC-924 preamp. Although I'm only about 25 miles from Mt. Wilson, I am well shielded by mountains (I am at 6000'ASL) as well as being east of it. So reception of the Los Angeles stations is weak, but that's all the better for DXing.

02 Es 2016-2042 MUF 4 04 Es 1609 KJAC 4 TX 1440 04 Es 1617 KPRC 2 TX 1370
 03 Es 2013 MUF 2 TX? 1613 KBTX? 3 TX 1270 (Thanks, Karen! de)

Dale Connolly, 11468 1/2 Califa Street, North Hollywood CA 91601 (PST) (Oct 76-Feb 77)

An FM DXer for years, I am now getting started in TV DXing as well. VHF DX in So. Cal. is very difficult, as every VHF channel is taken, but the recent purchase of a 7 foot dish has opened up a whole new world from 14-83. I haven't had the set long, either, and conditions lately have ranged from average to poor, so please don't look for impressive distances in this, my first report. Equipment includes Sears 564-4019 9" AC-DC color, Winegard CW2002 VHF antenna, Finco P-7 UHF dish, presently at 30 feet. U-100 and AR-30 rotors. No preamps yet.

Local stations on 2,4,5,7,9,11,13,22,28,30,34,40,52,&58. (Arggh!) Semi-locals on 3 (Santa Barbara) 6,8,10,12,15,39 (San Diego-Tijuana) 24 (San Bernardino) 46 (Guasti) 50 (Huntington Beach). Present TV total: 38 stations.

O 23 tr 1830 KSBY 6 CA 200	17 tr 1715 KBAK 29 CA 100	18 tr 1730 K62AC sKVCR-24
24 tr 0440 KLAS 8 NV 300	18 tr 1645 KMIR 36 CA 100	19 tr 0800 KMJ 24 CA 200
0445 KVVU 5 NV 300	1700 KPLM 42 CA 100	0815 KJEO 47 CA 200
F 17 tr 1700 KERO 23 CA 100	1720 K59## sKPBS-15	1345 K75BK sKVCR-24
1705 KMPH 26 CA 150	1729 K62AK sKCST-39	

Remember, "flatlanders", this is all over mountains! (that's why I left in your shorter loggings, Dale. de) Love that detent UHF tuner too! Am still trying for last "easy" (?). VHF from this location: KCOY-12 Santa Maria CA @ 150mi., but always swamped by XEWT-12 Tijuana.

Does everyone know that the new XEROX 6500 color copier can copy direct from a 35mm slide projector? Here's a way of getting large color repros of TV DX much cheaper than photo enlargements. Great for displays, and can even be transferred to T-shirts. Ever considered wearing your DX? A station ID on a T-shirt is a great conversation starter! Best of DX to everyone, Dale

(thanks for the report and the tips on novel uses of the 6500, Dale! de)

John M Jefferson, 1150 Tilson Drive, Concord CA 94520 (July 1976)

Equipment: Sony TV and Winegard antenna at Castro Valley CA.

July 03 Es 1415-1430 KENW 3 NM 1100 miles

This is my one significant TV logging. Next most distant is KEYT-3 in Santa Barbara CA, only 245 miles off. Just never have been into TV, not even for entertainment. I don't even have my TV hooked up in Concord, since the antenna is required for FM. Castro Valley is where I'm likely to get any TV DX, Concord is my mailing address. I don't know how long Es continued on 7/3. Yours truly, John

John S Phillips, 4459 Downing Court, Pleasanton CA 94566 (PST) (February)

Equipment: Zenith Chromacolor II, CM 3617/0040b VHF antenna/preamp & CM 4248/0071b UHF antenna/preamp with CDE AR-40 rotor at 60 feet.

08 Es 0900 KARD 3 KS 1453	13 tr 1045 KBAK 29 CA 239	16 tr 2200 KBAK 29 CA 239
KCKT 2 KS 1243	1130 KCOY 12 CA 218	17 tr 2150 KCOY 12 CA 218
10 tr 0900 KERO 23 CA 239	1405 KIXE 9 CA 205	KEYT 3 CA 247
1400 KRRCR 7 CA 205	15 tr 0830 KIXE 9 CA 205	KBAK 29 CA 239
KIXE 9 CA 205	1230 KERO 23 CA 239	KERO 23 CA 239
1710 KBAK 29 CA 239	KBAK 29 CA 239	KIXE 9 CA 205
KJTV 17 CA 239	16 tr 2200 KJTV 17 CA 239	KRCR 7 CA 205
13 tr 1045 KERO 23 CA 239	KERO 23 CA 239	

Robert J Williams, 251 6th Avenue East, Twin Falls ID 83301

June 1976

27 Es 1336 KDLO 3 SD	11 Es 2101 KARD 3 KS	18 Es 1659 KDAL 3 MN
1402 KFYR 5 ND	2128 KTEW 2 OK	21 Es 1328 KOTV 6 OK
1405 KXJB 4 ND	2157 KTBS 3 LA	1330 KOCO 5 OK
1408 WDAY 6 ND	2257 KFDX' 3 TX	1335 KOA 4 CO
1427 CBWFT 3 MB	2307 KBTX 3 TX	1358 KTVY 4 OK
1544 CKCO2 2 ON	15 Es 1330 KTVO 3 IA	1435 KSNB 4 NE
1600 CKSA 2 AT	1331 KMID 2 TX	1451 KNOP 2 NE
2F 1900 XHW 2 JAL	1430 KTCA 2 MN	1501 KMTV 3 NE
Es 2026 KYTV 3 MO	1455 KDAL 3 MN	1528 KOTA 3 SD
28 Es 1714 KTVY 4 OK	1600 KXJB 4 ND	1548 KENW 3 NM
1719 KARD 3 KS	1646 WISC 3 WI	1717 KARD 3 KS
	1658 CFRN 3 AT	22 tr 0759 KIFI 8 ID
	1730 KTCA 2 MN	0859 KID 3 ID

July 1976

02 Es 2024 KTCA 2 MN	17 Es 1059 KCMO 5 MO	26 Es 1758 KVOA 4 AZ
05 Es 1730 CKOS 3 SK	1112 WDAF 4 MO	2112 KFDX 3 TX
1742 CKSA 2 AT	1128 KCKT 2 KS	2129 KDAL 3 MN
07 Es 1228 KENW 3 NM	1151 KFSM 5 AR	27 Es 1459 KTVY 4 OK
1230 KMID 2 TX	1156 KTVY 4 OK	1510 KFDX 3 TX
1930 KFDX 3 TX	1347 KSNB 4 NE	1531 KYTV 3 MO
2031 KMID 2 TX		1551 WMT 2 IA

Robert J Williams continued...

27 Es 1622 KARD 3 KS	28 Es 1159 KQTV 2 MO	28 Es 1230 WHBF 4 IL
1927 KARD 3 KS	1219 KDUH 4 NE	1330 KTIV 4 IA
tr 2013 KID 3 ID		

Richard Noel Allen, Billings OK 74630 (CST) (February)

Equipment: Sony KVL212 color, 11 element VHF log, 44 element UHF log.
 07 Es 1810-15 Mexican 7 broadcasting Canal 2 with novela. CCI KSWO.
 07 Es 1839-48 KREZ 6 CO 1852-1900 KOAI 2 AZ 1900-01 KORK 3 NV
 10 Es 1905-15 XHD 4 TAM
 Totals as of Feb. 01: 305 stations.

This winter, I have been busy DXing European longwave stations and attempting to learn code for an Amateur license. Also received call KAFU-8803 for CB. Sporadic E has been more common this winter, with skip of February 07 being most intense I have ever observed. Good DX, Allen

John Anderson, Box 186, Lowe Farm MB ROG 1EO (204) 746-8887 (31 Jan-13 Feb)

Equipment: Delhi 1057 at 64 feet, CM 0059 VHF-FM amp, CD-44 rotor, CM hi & lo-band traps, Panasonic 12" b&w.

31 Au 0040 KTVQ 2 MT 08 Au 0150 intense activity on lo-band, possibly hi-band, intermittent. 13 Es 1230 KOAI 2 AZ 1215

Lately, my schedule has been reduced, so I haven't been able to stay up all hours waiting for Au openings (hi) which seems to be the ideal time for them.

Doug Everitt, 1710 W Maine, Enid OK 73701 (CST)

Antennas: Winegard K-10-26 at 30', K-10-713 at 40', Finco P-7 UHF dish at 35'.

<u>January</u>	29 Es 1029 KTVU 2 CA 1340	07 Es 2000 XHBC? 3 BCN
14 tr 1412 KHOU 11 TX 480	1031 KCRA? 3 CA 1300	2112 XEZ 3 QRO
1415 KZTV? 10 TX 600	1040 KRON 4 CA 1340	08 Es 1259 KTVN 2 NV 1210
Es 1914 XHIA? 2 COAH	1050 KNXT 2 CA 1150	09 tr 0820 KHIN 36 IA 340
2130 KUTV? 2 UT 810	1057 KTLA 5 CA 1150	0836 KRIN 32 IA 510
2135 KID? 3 ID 910	1102 KNBC? 4 CA 1150	0940 KXNE 19 NE 380
tr 2200 KLTV 7 TX 320	1212 XETV 6 BCN	0951 KBIN 32 IA 350
16 MS 0904 KTVK/KEYT? 3	1225 XHAQ 5 BCN	0953 KMBG 14 IA 420
Es 1830 WPBT 2 FL 1290	1230 KEYT 3 CA 1210	0955 KYNE 26 NE 350
1936 XHI 2 SON	1300 MUF 150 MHz	0956 KSIN 27 IA 420
2008 XHBS? 4 SIN	1357 WEDU 3 FL 1080	1040 KHNE 29 NE 290
18 Es 1535 XEW 2 DF 1200	1400 WPBT 2 FL 1290	Es 2021 XHJMA 3 CHIH
XEZ 3 QRO	1415 XEW/XHTV/XHGC	10 Es 1907 XHBC? 3 BCN
20 MS burst noted on ch.9 at 1130, heavy 2-6.	30 -- got dish back up.	22 tr 0720 KSNE 4 NE 250
22 Es 1702 XEW/XEZ/XHTV	tr 1820 WAPT? 16 MS 530	KGIN 11 NE 310
1710 XHGC 5 DF 1200	31 Es 1415 WUNC 4 NC 1080	KCBD 11 TX, KLBK 13 TX
23 Es 1939 XEW? 2 DF 1200	1430 WUND 2 NC 1190	KHGI 13 NE, KHNE 29 NE
1950 XHTV? 4 DF 1200	1431 WRAL 5 NC 1090	KBIN 32 IA, KHIN 36 IA
26 Es 1645 WPBT/WHS? 2 FL	1432 WWAY 3 NC 1140	0745 KVUE 24 TX 420
1720 WCIX 6 FL 1290	WBCT 6 NC 1140	KEDT 16 TX 600
1745 WSAV? 3 GA 1020	1500 WCIV 4 SC 1060	KIDZ 24 TX, KTVV 36 TX
1750 Cuba 3 S.Clara	1522 WFBC 4 SC 890	0750 KNCT 46 TX 380
28 -- noted dish down after freak windstorm.	1530 WNGE 2 TN 620	0810 K18AA KS
Es 1335 WEDU 3 FL 1080	1545 WRCB 3 TN 730	0815 KMBG 14 IA 420
1341 WEAR 3 FL 740	1557 WFMY 2 NC 1020	KYNE 26 NE, KSIN 27 IA
1400 WESH 2 FL 1100	<u>February</u>	0830 KHNE snowfree
1404 WDIQ 2 AL 750	01 tr 1400 KCPT/KBMA MO	KOZK 21, KMTC 27 s/free
1418 XHY 3 YUC	Es 1707 WFMY 2 NC 1020	0915 KCBJ 17 MO 350
1748 KATC 3 LA 550	1710 WUND? 2 NC 1190	1015 WHO 13 IA 420
1750 WCTV 6 GA 870	05 Es 1717 XEHL 6 JAL	1050 KUON 12 NE 300
1800 WTVY? 4 AL 810	1720 XHW? 2 JAL	1051 KOLN 10 NE 300
1829 WDIQ 2 AL 750	XHG? 4 JAL	1052 KETV 7 s/free
1923 XEFB 3 NL 740	06 Es 1800 XEHL 6 JAL	1053 WOI 5 IA 450
1926 KIII 3 TX 600	1857 XHW 2 JAL	1057 WWT 6 NE 350
29 Es 0922 KAID 4 ID 1080	1900 XHG? 4 JAL	<u>March</u>
0930 KTVN 2 NV 1210	07 Es 0858 KORK 3 NV 960	10 tr 0745 KOMC 8 NE 300
KUTV 2 UT 810	0900 KVVU 5 NV 960	KOLN 10 NE 300
0932 KCPX 4 UT 810	1908 tuned into very	KGIN 11, KHGI 13 NE
0955 KORK 3 NV 960	intense opening, checked	0800 KCNA 8 NE 370
1004 KSBY 6 CA 1250	ch.7 and found good sig	0815 KHNE 29 NE 290
1015 KVVU 5 NV 960	with tentative WDAM-7.	0825 KXNE 19 NE 380
	Spent most of period on	KMNE 7 NE 430
	FM, which was very good.	KWNB 6 NE 300

Date	January	20	22	23	24	25	26	27	28	29	31	(31 Au)
# reporters	1	2	2	2	1	2	1	2	4	2	1	
MUF at least	4	107.3	6	99.1	4	98.9	4	7	150	95.3	2	

February	01	02	03	04	05	06	07	08	(08 Au)	09	10	11	13
# rept's	2	3	1	2	2	3	3	2	1	1	1	1	1
MUF	6	4	2	90.5	107.9	107.1	13	7	7	2	4	2	2

Well, it looks like the winter Es season came to a halt in mid-February.
 The spring tropo season seems to be getting off to a grudging start now, and hopefully will produce some more of that nice long-haul ducting...

73 & the Best of DX!

Doug

CENTRAL TV-DX (continued from page 26)

APRIL 1977

William J. Draeb; Ellis St. R.R.#2, Kewaunee, Wi. 54216 CST (414)-388-2350

2-8 Tr 1845	KDNL-30(432)	2-10 Tr 1911	WTTV-33(420)	3-7 Tr 0653	WLKY-32(437)
2059	WMUL-33(498)	1914	WFMJ-21 "	3-8 Tr 0832	" "
2-9 Tr 2020	KDNL-30(432)	1917	WTTV-29(445)		WTTV-33(420)
2030	WKYT-27(473)	2153	KDNL-30(432)		WEHT-25(420)
2142	WOSU-34(395)	2-11 Tr 2055	WOSU-34(395)		WUSI-16(402)
2-10 Tr 0715	WJET-24(405)	2-15 Tr 2157	KDNL-30(432)		WKMA-35(499)
	WSEE-35 "	2-16 Tr 2128	KHIN-36(457)	0837	WTIU-30(376)
0743	KHIN-36(457)	2-21 Tr 1800	KDNL-30(432)	0839	WDRB-41(437)
	KBIN-32(476)	2-22 Tr 1659	" "	1811	KDNL-30(432)
0750	KYNE-26 T	1811	Cleveland U's	1830	WOSU-34(395)
0756	WLKY-32(437)	1823	WMUL-33(498)	3-9 Tr 2143	WKBN-27(420)
0803	WKBN-27(420)	1845	WICS-20(325)	3-10 Tr 1835	Cleveland U's
	WFMJ-21 "	3-1 Tr 2042	WMUL-33(498)		WMUL-33(498)
1911	WKBN-27 "	3-7 Tr 0648	WKBN-27(420)	1843	Erie U's(420)

WESTERN FM DX (continued from page 15)

APRIL 1977

Jim Pissi, 300 Park, Orcutt CA 97454 (1/29 - 2/27) (PST)

29 Es unID 89.9	Laredo(?), 88.3 g	8 Es 1910	94.3 Del Rio TX, EL, ID @ 1917
8 Es 1835	99.5 KISS TX San Antonio, r \$	1910	91.9 Sabinas, SS (call is XHEC)
1838	95.3 KYUF TX Uvalde, k&r	1923	92.7 KINL TX Eagle Pass, \$r
1842	102.7 KTFM TX San Antonio, r	1937	94.3 KPJH TX Fort Stockton, EL
1842	94.9 KOYE TX Laredo, r	1940	94.7 KSET TX El Paso, EL
1849	100.3 KSAQ TX San Antonio, r, "Q100"	1945	88.5 KTEP TX El Paso
1854	98.5 KHPL Ciudad Acuna, SS	1948	XHPX 98.3 Ciudad Juarez, SS
1857	94.5 XHTA Piedras Negras, r	1954	KLOZ 102.1 El Paso, k
1901	104.5 KEKL?San Antonio, \$r	1957	105.5 XHRE Piedras Negras
1902	97.3 KEEZ San Antonio, r	2003	93.9 KPAS TX El Paso
1906	96.5 KIOU?Corpus Christi, EL	2014	94.3 unID SS u/KDLK
1910	TV MUF @ Ch. 7	2028	94.3 KPFM? u/KDLK

The Es opening of Feb. 8th was quite unexpected and very welcomed. It was the best Feb. Es ever noted. (Send your report to SOUTHERN FM DX next month, and 73's -sw)

John Jefferson, 1150 Tilson Dr., Concord CA 94520 (1/1- 2/16) (PST)

14 MS 1201	KEYU 89.1 UT Provo, c	600	70 MS 0530	KJOK 93.1 AZ Yuma, ID	550
Tr 1238	KIOY 103.7 CA Hanford, "K104"	170	0530	KAMA? 93.1 TX El Paso, SS	990
16 MS 2310	CER 102.1 AT Calgary,	1000	Tr 2203	KNEV 95.5 NV Reno, opera	165
	announced performer, also heard at		9 MS 0530	CER 102.1 AT Calgary, c	1000
	2330 & 2400 by MS.		Tr 1815	KGLR 105.7 NV Reno, PSA & nx	165
21 MS 0130	CHQM 103.5 BC Vancouver	800	11 MS 0525	KCGM 95.7 MT Scobey, ID	1150
29 Es 1131	KWLW 93.9 TX San Angelo, ID 1260		13 MS 0515	KRGI 93.1 NE Lexington	1200
	1240 KWLW 91.5 TX Plainview, promo			On 1/29 I also heard 94.7 KIXY San Angelo,	
	1300 KNFM 92.3 TX Midland, ID 1180			nothing above 94.7, though.	

New entries are underlined. Thought CHQM was my first Canadian but then CER came through. The Nevada stations have been a long time coming. The CER relog came before the original logging was confirmed --- their card came 6 hours later --- and was notable for duration. I used my Heathkit AJ-15 with my new Winegard CH-6065 antenna for most of the above. KCGM came in on my Sherwood S-7100 & Winegard SC-650 antenna. The Sherwoods selectivity is very poor in comparison with the Heath's. (Thanks, John for the report, please send all future reports to SOUTHERN FM DX -sw)

QSL CORNER

Thomas J. Vingling, jr.
 221 Pinewood Road
 Baltimore, MD 21222
 Phone # 1-301-282-5649
 Deadline: 10th

- FL KEO-363 155.28 Andytown (Broward CO.), 444 Brickell Ave, Suite M-100, Miami, 33131. Medical Radio Paging using 375 watts. (Simon)
- KTX-803 155.28 West Palm Beach, Belvidence Rd. West Palm CO, hospital emergency paging using 200 watts with 1 unit. (Simon)
- WKAO-AM 161.70 Boynton Beach, Box 1510, 33435. Radio station WKAO-AM 1510khz broadcast remote pick up using 20 watts, signed by James M. Johnson, Engineering Consultant. (Simon)
- KIS-458 155.37 Belle Glade, 2976 State Road # 15, 33430. Belle Glade Sheriff Dept. using 600 watts, 14 mobiles & 1 harbor patrol boat, signed by Rollin E. Clark, Communications Supervisor. (Simon)
- OH KW-8657 161.67 Marietta, P. D. Box 708, 45750. broadcast remote pick up for WMOA-AM Radio 1490khz. Reply from Ralph Matheny, KBRVU, Eng for station. 36 watts used and reply in 7 days. (Clark)
- TV-QSL Ch.
- NB CHSJ 4 St. John, New Brunswick Broadcasting Co. Limited, corner Union & Crown Sts. St. John, E2L 1B3, NB reply from Dir. of Eng. W. A. Piekarski, received a very nice letter in 14 days. (Lord)
- NS CBHT 3 Halifax, Box 3000, 5600 Sackville St, Halifax B3J 3E9, NS, received a CBC Card in 13 days from Peter MacGillivray, Public Relations. (Lord)
- PQ CFCM 4 Quebec City, Box 2026, G1K 7N2, received letter in english from Gerard Fortin, VP of Eng. Receive reply in 8 days. (Lord)
- CJBR 3 Rimouski, 273 St. Jean Baptiste, received letter, map-folder combination and AM-FM radio info in 1 week. Send english letter & 1 IRC for postage. Reply was also in english. (Lord)
- SK CKOS 3 Yorton, 95 E. Broadway, S3N 2V9, received letter in 2 weeks from Richard Niebergall, Technical Director. (Lord)
- GA WHAE 46 Atlanta, 1810 Briarcliff Rd. NE, 30359, friendly letter from Carl Meeks (?) CE, W4BEQ mention his interest in ham VHF-UHF, and reply in 10 days. (Simon)
- LA WRBT 33 Baton Rouge, 5220 Essen Lane, 70808 - letter mentioning program, comment on how people don't use uhf & about WLPB-27 who is on their tower. He says "When conditions are right again you should try for WLPB." I did! Got reply from K. C. Jones in 5 weeks. (Simon)
- ME WCSH 6 Portland, 579 Congress St, 04101, letter from Clement R. Payeur, CE in 24 days. (Lord)
- MN KTTC 10 Rochester, 601 First Ave. S.W., 55901, received letter & copy of my report in 7 days from C. H. Sanders, CE. (Lord)
- MS WMAA 29 Raymond and
 WMAH 19 McHenry, P. D. Drawer 1101, Jackson, 39205, letter for both stations from David J. Wilson, Dir of Eng. Reply in 1 week with coverage maps. Mississippi Authority for Educational Television. (Simon)
- UT KTVX 4 Salt Lake City, 1760 Fremont Dr, 84104. Received KCPX radio qsl card in 13 days from William E. Wright, General Manager. (Lord)
- WI WPNE 38 Green Bay, 110 S. University Circle Dr, 54302. Received letter from Mary Kulhanek & program guide & pamphlet on Wisconsin Education TV-Radio Network in 14 days. (Lord)

FM-QSL

- IL WITT 93.5 Tuscola, 600 D. Main St, 61953, letter from Frederick W. Seibold, Owner and Chief Engineer. (Hathaway)
- WRTL 95.3 Rantoul, Box 115, 61866, prepared card in answer to third report, reply from Bob Brown, CE. (Hathaway)
- IN WSMJ 99.5 Greenfield, Box 248, 46140. Letter signed by Curtis R. Steele, CE said they just completed new 500 foot tower. (Hathaway)
- Reporters are R. W. Lord of Chicago, IL, R. B. Clark of Parkersburg, WV, K. R. Simon of West Palm Beach, FL, & J. D. Hathaway of Champaign, IL. 73's and keep sending reports in.

Tom

Although a number of non-commercial FM stations operate on commercial frequencies, largely to avoid interference to television stations, only four frequencies outside Alaska have legally been set aside for this use by the FCC: Bloomington IN 103.7, occupied by Indiana University's WFIU since 1951; Waco TX 107.1, occupied by Baylor U's KWBU since the 1960's; Presque Isle ME 106.1, occupied by WMEM-FM and assigned after Canada objected to possible channel 6 interference; and Muncie IN 92.1, soon to be occupied by Ball State U's WBST, stymied in its plans to run 50 kw on 90.7 by WRTV-6 Indianapolis. In Alaska, a half-dozen commercial frequencies are assigned to non-commercial FM because the 88-98 MHz portion of the band is presently occupied by point-to-point communication facilities.

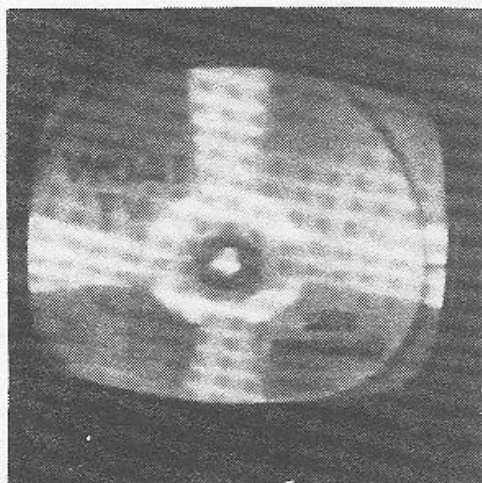
—Mike Dorner, Jr.

Memorabilia

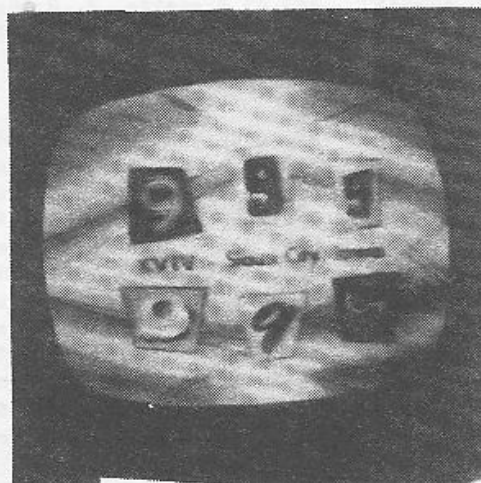
April 1977

Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 10th of month

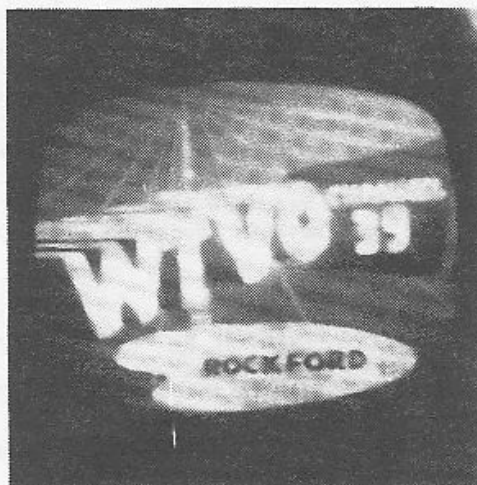
This month, MEMORABILIA presents some photos of TV-DX of bygone days, sent in by DXer Bill Draeb of Kewaunee WI. Thank you very much, Bill. (Man, those were the days, when the channels were less crowded with stations and the stations signed on later in the day, making TPs much easier to receive on Es.---rjw)



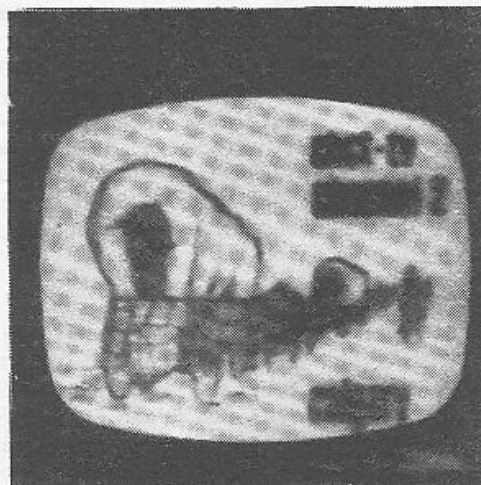
WQAI-4 San Antonio TX
1220 mi. Es (now KMOL-4)



KVTU 9 Sioux City IA
478 mi. Tr (now KCAU-9)



WTVO 39 Rockford IL
(now on ch. 17)



CHCT-2 Calgary, Alberta
1310 mi. Es (now CFAC-2)

Keep 'em coming, guys. Even "oldie" photos, QSLs, etc. of stations that have not changed call, channel, or anything are good material for this column, as well as those that have changed. Good DX to all. 73s, *Bob*



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 10th of month

APRIL 1977

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 QSLed, GMT

<u>5-31:</u>	1919, N42382	128.7	50 mi nw Salisbury, MD (Navy Norfolk Flying Club; Cessna 182, 1-engine, 4-seat)	
<u>7-17:</u>	1639, WYF 2929		off Ches. Bch., MD (PEGGY L., 43' Bay)	
		157.25	Built F/V Vessel; 25 watts)	
<u>8-14:</u>	1957, N7748Q	127.2	nr Ocean City, MD (Edens Enterprises, Inc.; Cessna 310, 2-engine, 5-seat; 10 watts)	
<u>10-30:</u>	1506, N7790Q	128.15	50 mi ssw DC (J. Gross & Son, Inc.; Cessna 340A, 2-engine, 6-seat; 21,000 feet; 20 w)	
	<u>31:</u>	2105, N1621	127.2	Swan Pt., MD (Texaco, Inc.; Grumman Gulfstream II, 2-eng jet, 22-seat; 14,000 feet)
<u>11-27:</u>	1932, N8905N	119.7	10 mi sw Balt. (Mr. Charles A. McCay; Piper Cherokee PA-32-300, 1-e, 6-s; 6400'; 10 w)	
-	-	N992	127.95	25 mi se Dover, DE (Reynolds Metal Co.; Sabreliner 60, 2-engine, 6-seat; 20 w)

Martin J. Theil, 12 Princeton Dr., Holiday, FL 33589 (934-5843) would still like to hear from members with Bear Cat 101 and their results with the indoor rod antenna; with such, Jan 5, 5-9 pm loggings

KAA 522	42.06	Willow Spgs., MO	KAA 201	42.06	Jefferson, MO
KAA 202	42.06	Lees Summit, MO	KAG 793	42.54	Belmond, IA
KAA 958	42.06	Rolla, MO	KSB 256	39.50	Mt. Carroll, IL
KSA 961	39.50	Taylorville, IL	KEA -	35.22	NY, NY (pager)
KSB 926	39.50	Shelbyville, IL	KSB 236	39.50	Effingham, IL

Randall B. Clark, Rt 5 Dutch Ridge, Parkersburg, WV 26101 EST
3-band portable; would appreciate some help to make sure the following were Oscar 6 or 7 (or other satellite) telemetry in 2-m band

1-19: 0106-0125 20: 0000-0007, extremely loud
21: 0015-0035 & 2100
22: 2335-2339 (Tnx to John Combs for passing us this. pjd)

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600 -JX-10; two 30' long wires at 12' (ne-sw and nw-se runs); all are F2 unless noted, with daily maximum; bs-backscatter; GMT used

<u>2-11:</u>	1757, 32.96		<u>20:</u>	1810, 30.30		<u>6:</u>	1850, 30.30
<u>12:</u>	2055, 30.30		<u>21:</u>	2055, 32.82		<u>7:</u>	1845, 30.30
<u>13:</u>	1845, 30.30		<u>22:</u>	2020, 30.30		<u>8:</u>	1845, 32.000
<u>14:</u>	1910, 35.28		<u>23:</u>	1745, 30.30		<u>9:</u>	0124, KLF 527
<u>15:</u>	1910, 35.28		<u>24:</u>	2140, 30.30			1800, 32.000
<u>16:</u>	2020, 32.000		<u>26:</u>	2145, 30.30		<u>10:</u>	2055, 35.28
<u>17:</u>	2015, 31 1/2 US nw		<u>3-1:</u>	2110, 30.30			35.58 bs
	2017, 32.96		<u>2:</u>	1835, 30.30		<u>11:</u>	0435, OK City (Es)
<u>18:</u>	2225, 35.28		<u>3:</u>	1920, 32.000			(magnetic storm on 9th)
<u>19:</u>	2155, 32.82		<u>5:</u>	1725, 30.30			

KLF 527 35.22 Honolulu, HI (tone message, voice ID)
OK City 35.58 OK City, OK (voice message & ID)

Anyone know the condition of the following pagers (i.e., on/off, moved)

KAD 931	35.58	Kansas City, MO	KAH 661	35.22	Minneapolis, MN
KAQ 611	35.54	Rochester, MN	KCB 897	35.66	Portland, ME
KCC 266	35.58	Springfield, MA	KCC 482	35.22	Concord, NH
KDN 402	35.54	Omaha, NE	KFJ 891	35.58	Columbus, OH
KGC 223	35.22	Philadelphia, PA	KGC 226	35.34	Allentown, PA

more later issues

73, Pat WA5IYX



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WORLDWIDE TV-FM DX ASSOCIATION

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