

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

AUGUST 1978

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- SONY STA7B
- KOAP SCA
- TROPS UP



From The Staff:

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

New address...Frank Aden, Jr. is now living in Newport, Oregon where he has secured a job at a local weekly advertising paper. All columns and feature articles to be published in the VUD should now be sent to 105 SW Brook St., Apt. 4, Newport OR 97365. All club business and supply orders should be sent to HQ in Whiting.

Convention 1978...Our 1978 Convention is now history. A complete report will appear next month. Editor Frank Aden, Jr. was unable to attend as the owners of the paper where he now works took their vacation on the same weekend as the convention.

National Radio Club 1978 Convention...NRC will be having this years convention in Atlanta. Tours have been planned of WTCG-17 (well known satellite feed station), WSB AM, FM and TV. There is also a stop planned at the famous Stone Mountain and a Beverage antenna will be visited. Dates are the 1-4 of September and for more details write: Karl Jeter, 2816 Frontier Trail NE, Atlanta GA 30341.

Clippings...Bill Thompson has sent in some interesting new clippings related to the hobby and they appear on pages 24 and 45. They are from the Buffalo Evening News. Thanks Bill!

Late issue?...Due to a slowdown in mail delivery on the West Coast and editor Frank Aden, Jr.'s move to Newport this issue may be a few extra days late if the pending mail strike does not occur.

SCA Program schedule...Paul Wardell has sent in a copy of KOAP 91.9, Portland Oregon's NPR station's SCA schedule and is printed on page 51 as a special treat.

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FROM THE EDITOR: This issue marks my first 6 months as VUD editor, a 6 months that has not been easy. Support has been lacking greatly in the feature article areas and especially with technical material. At least we can say all the regular columns are back and the VUD is now on schedule. Hopefully the next 6 months will be better but for this to become true YOUR support is needed. If you have any material that may be of interest to the membership please send it in. I would like to thank those of you who have supported the VUD and I ask you please keep it up. *Frank*

NORTHERN FM-DX

Bruce Golden
27 Spruce Hill Road
Georgetown, CT 06829
(203) 544-8129

Deadline: the 10th

Send in your DX now, if you live in WA,OR,ID,WY,ND,SD,NE,MN,IA or east of the Mississippi River and north of the Mason-Dixon line.....

I asked for reports last month. I got 'em this month. Read on....

Harry J. Hayes-9 Henry St.-Wilkes-Barre, PA 18702 (EDT)

4/13 AU 2005 unID 97.5 mention of New England and London wx.

4/20 GW 0730 WAWR 102.3 NY Waverly w/ scratchy audio.

5/3 AU 1745 Hash, no audio.

Equipment here is a Zenith Trans-Oceanic w/whip and quad loop cut for 104 MHz. It's been awhile since I DXed from this location but expect to experiment this summer w/quad loops for both FM and TV. New underlined.

Joseph Markewicz-P.O. Box 1503-Hornell Heights, ON POH 1PO

9/9/77 (Tr)

0730 WIOG 106.3 MI Saginaw	0917 WOMC 104.3 MI Detroit
0735 WGER 102.5 MI Bay City	0924 WIOT 104.7 OH Toledo
0800 WKCQ 98.1 MI Saginaw	0930 WVNO 106.1 OH Mansfield
0814 WOOD 105.7 MI Grand Rapids	0935 WCLW 105.3 OH Mansfield
(solid for 4½ hours)	0945 CJOM 88.9 ON Windsor
0855 WHSB 107.7 MI Alpena	0957 CKLW 93.9 ON Windsor
0915 WWWW 106.7 MI Detroit	(fighting with local CKAT 93.7)

9/10/77 (Tr)

0800 CFNY 102.1 ON Brampton	0923 CKO-2 99.1 ON Toronto
0900 CKO-1 106.9 ON Ottawa	1000 CKLQ 107.5 ON Toronto

11/30/77 (Tr)

0739 WWRM 106.7 MI Gaylord	1215 CING 107.9 ON Burlington
0800 WTCM 103.5 MI Traverse	1220 CILQ 107.1 ON Toronto
0900 WHSB 107.7 MI Alpena	1730 CHEZ 106.1 ON Ottawa

Eric Fader-23-35 Bell Blvd.-Bayside, NY 11360

2/25 GW 1813 WARY 88.5 NY Valhalla, 10w, but local

3/22 GW 0130 WVOF 88.5 CT Fairfield, 10w (35mi)

4/13 GW 1600+WVOF 88.5 CT Fairfield, over WKWZ-NY, WARY-NY, & WFCR-MA.

5/5 GW 1930 WLAD 98.3 CT Danbury, through local

5/8 (Tr)

0012 WIHS 104.9 CT Middletown, s/off	0105 WXPB 88.9 PA Philadelphia, tx
0030 WIBF 103.9 PA Jenkintown	0126 WHUR 96.3 DC Washington, jazz/soul
0100 WIFJ 92.5 PA Philadelphia, \$	0140 WDAS 105.3 PA Philadelphia, jazz, \$
0101 WTSR 91.3 NJ Trenton, tx	0206 WROW 95.5 NY Albany, muzak (no PLJ)

5/13 Tr 0200 WIHS 104.9 CT Middletown

5/14 Tr 0142 WLVA 93.7 CT Hartford, loud

6/7 Tr 0147 WWSH 106.1 PA Philadelphia, + other PA's.

0220 WXPB? 88.9 PA Philadelphia, local-like

6/12 (Tr)

0030 WAQY 102.1 MA Springfield	0138 WBJB 106.7 MA Boston, r
0046 WLIF 101.9 MD Baltimore	0143 WJPB 105.1 RI Providence "JB-105"
0050 WPRO 92.3 RI Providence, r	0154 WCCC 106.9 CT Hartford
0058 WHJY 94.1 RI Providence, "joy,"	0158 WBYO 107.5 PA Boyertown, relig.
0102 WROR 98.5 MA Boston, jx, r	0205 WAAF 107.3 MA Worcester, AOR
0115 WJBR 99.5 DE Wilmington, pegging	0235 WYSP 94.1 PA Philadelphia
WSSH 99.5 MA Lowell, "wish"	0305 WAVA 105.1 VA Arlington, p, u, WPJB
0118 WMY5 98.1 MA New Bedford, "miss"	0323 WKTK 105.7 MD Catonsville, "FM-"
0123 WUSL 98.9 PA Philadelphia, "US-1"	0338 WFSI 107.9 MD Annapolis, rel/105"
0343 WMAZ 106.5 MD Baltimore, "FM-106"	
0341 WZZR 106.7 VA Manassas, w/PSA	
0359 WXTF 104.1 MD La Plata, c/w	
0400 WKDN 106.9 NJ Camden, relig.	
0407 WLPL 92.3 MD Baltimore, r	
0425 WKYS 93.9 DC Washington, disco	
0443 WMMZ 98.7 DC Washington, c/w	

6/12 (daytime)(Tr)

1949 WWRJ 95.3 NY Southampton, EZL	2104 WHJY 94.1 RI Providence
1953 WLNQ 92.1 NY Sag Harbor, r	2108 unID 101.7 gospel (WNNN-NJ?)
1957 WSUB 105.5 CT Groton, pr	2148 WHCN 105.9 CT Hartford, o/WHBI
2008 WTYD 100.9 CT New London, "tide"	2124 WCAV 97.7 MA Brockton, r "FM-CAVE"
2020 WCTY 97.7 CT Norwich, "Cty. Lovin"	2149 WCRE 102.5 MA Waltham
2030 WMY5 98.1 MA New Bedford	WIOQ 102.1 PA Philadelphia
2034 WRLM 93.3 MA Taunton, "M-93"	2235 WLYN 101.7 MA Lynn, "NOW Radio" m
2043 WOTB 107.1 RI Middletown, "107-FM"	2250 WRDR 104.9 NJ Egg Harbor City
2056 WPBH 90.5 CT Middlefield, NPR	2310 WPLM 99.1 MA Plymouth, o/WPLR
2059 WJMJ 88.9 CT Hartford, u/slop	WSSH 99.5 MA Lowell

Eric Fader report, continued

6/13 (Tr)
 0030 WCGY 93.7 MA Lawrence, LP Hour
 0051 WROR 98.5 MA Boston, local-like
 WBCN 104.1 MA Boston, AOR o/mess
 0103 WAAF 107.3 MA Worcester
 0108 WVBF 105.7 MA Framingham
 WJIB 96.9 MA Boston, "VERY Quiet"mx
 0145 WEEI 103.3 MA Boston, "E-I"
 WLYN 101.7 MA Lynn, weak u/slop

On 6/12, antenna maintenance on the Empire State Building forced off all NY-licensed stations except WPLJ, WYNY, WCBS & WNEW (suburban/NJ stns remained on). Luckily, this coincided w/the best general tropo opening I've ever seen. WBZ-106.7 just barely got in--it was at the limit of the tropo and, later, the opening reversed direction completely into MD/VA. The 6/12 day opening finished commercial CT stns for me, except WXLS-98.3. 28 tropo newies in 2 days! Receiver: Concord CR-260, Archer rabbit ears. Totals now at 197. 73 & Good DX, Eric.

Michael L. Hogan-9224 Cottage Grove Avenue-Highland, IN 46322

5/31 Es 2200 WVHC 88.7 NY Hempstead
 6/5 GW 2100 WKKC 89.3 IL Chicago
 6/5 Tr 2200 CJOM 88.7 ON Windsor, \$
 Totals: Heard (227), Taped (151), 88-92 (44), Es (16), CN (1), States (17), TPU (18). Equipment: Magnavox \$ rcvr 1143, stereo-probe 9 antenna at 18ft with manual rotation. Phone: (219) 924-2361. 73.

Fred Nordquist-7945 Boxford Road-Clay, NY 13041 (EDT)

4/4 (AU)
 1741 WFUV 90.7 NY New York, nx 1806 WJFM 93.7 MI Grand Rapids, ID
 1753 WMUZ 103.5 MI Detroit, ID 1826 WMBI 90.1 IL Chicago, g
 1800 WBOE 90.3 OH Cleveland, ID
 4/6 Tr 1750 WCGY 93.7 MA Lawrence, ID, r
 4/9 GW 2245 CJBC-16 106.3 ON Peterborough, EE CBC
 GW 2332 CKO-FM1 106.9 ON Ottawa, nx
 4/10 AU 2100 WMBW 88.9 TN Chattanooga, moody/wx/ID (740mi) (longest AU
 4/13 AU 1850 WCOU 93.9 ME Lewiston, ad/ID ///DX to date; potent AU cx)
 1900 WRNZ 99.7 OH Columbus, MBS nx, ID
 4/19 AU 2230 WDUQ 90.5 PA Pittsburgh, ID, nx
 4/25 Tr 2009 WCLG 100.1 WV Morgantown, FM-100, k, ID
 (WKRT-99.9 off air 4/25 to 6/6 (present))
 4/27 AU 2200 WMBI 90.1 IL Chicago
 5/1 AU 1757 WSEF 106.5 NC Bridgeton, ID, r
 5/3 AU 1807 WYVA 94.1 VA Yorktown, ID
 5/8 AS 1730 WPRE 99.9 MD Frederick, ID/TC/nx
 5/13 Tr *0033 WIEZ 102.9 ??who?? FM103, (WNHR off)
 5/20 Tr 1858 WKTL 90.7 OH Struthers, SS mx, local anmt, ID
 5/21 AU 1850 WFUV 90.7 NY New York
 1900 CJOM 88.7 ON Windsor
 1703 C??? 90.5 NS Halifax, Canadian nx, CBC nx, classical mx.
 new province, only Canadian on 90.5
 1922 WMUS 103.5 MI Detroit, g
 5/31 Es 2214 WMUF 105.9 MI Detroit (1st Es of season)
 2202 WSMC 90.7 TN Chattanooga, ID, nx, many unIDs, faded in/out.
 6/1 Tr 2304 CEM 93.5 PQ Montreal, CBC radio, ID
 6/2 Tr 2201 CBF-FM1 100.1 PQ Trois Rivieres, PFC//CBF-690 AM
 6/4 AU 1755 WMUS 103.5 MI Detroit, g
 Totals: 956. Equipment: Heathkit AJ-15 rcvr; JFD LPL FM 10A at 45' AGL, rptor. new underlined, dashed indicates new prop.

Dr. Richard E. Wood-R.F.D.-Ashland, NH 03217 (EDT)

5/31 (Es) All new at this location
 2135 WQXI 94.1 GA Smyrna, pr 2219 WOCH 106.1 IN North Vernon, k
 2140 WCOL 92.3 OH Columbus 2230 WMIX 94.1 IL North Vernon, \$94, m
 2145 WMEF 92.3 TN Chattanooga, k 2236 WLBH 96.9 IL Mattoon, m\$, live dj
 2150 WKRY 93.5 SC Columbia 2239 WMC 99.7 TN Memphis, YL dj, m
 2154 WCIL 101.5 IL Carbondale, r 2245 KTTS 94.7 MO Springfield, r\$, req.
 2200 WEEP 107.9 PA Pittsburgh, m 2250 KTXR 101.5 MO Springfield, \$net
 2205 WKMO 106.3 KY Hodgenville, k 2255 KWFC 97.3 MO Springfield, \$sports
 2207 WKOA 100.3 KY Hopkinsville, \$r 2256 WRUL 97.3 IL Carmi, live dj, r
 2210 WGEEM 105.1 IL Quincy, "\$105, "k 2305 KWPM 93.9 MO West Plains, \$ net-
 2216 WVHI 105.3 IN Evansville, ID, g work sports.
 "Voice of Inspiration"

This is the former editor of FM South (1972-73) checking in and happily active again in FM and TV DX, with a quick report before leaving for summer in Europe. Equipment: Heathkit AJ-15 tuner, Lafayette amplifier,

Dr. Richard E. Wood report, continued

Channel Master Quantum antenna on a CDE AR-20 rotor at about 40ft. above average terrain (though there is no average terrain, as I am on a hill-side). Though in a valley, it seems a good location -- no locals, little QRN. Would be glad to hear from New England and Quebec WTFDA'ers on my return in mid-August. Totals: 16 states (9 Es, 7 on GW). Look forward to some MS and Au too. 73.

John Ebeling-9209 Vincent Avenue South-Bloomington, MN 55431 (CST)

12/26/77 (Es) DXing from Bloomington
 1600 CKRL 89.1 PQ Quebec City 1655 WXXI 91.5 NY Rochester
CBFD 96.5 PQ St.Fabien-de-Panet 1700 WGBH 89.7 MA Boston
 1605 CBF 100.7 PQ Montreal 1/3/78 (AU)
CIMP 94.9 PQ Hall 2130 WJZZ 105.9 MI Detroit
 1620 WDCS 97.9 ME Portland 2200 WSIU 91.9 IL Carbondale
 1621 WPBC 92.9 ME Bangor 2230 KUSB 89.7 SD Vermillion
 1630 WEZF 92.9 VT Burlington WSSR 91.9 IL Springfield "\$92"
 1631 WSRS 96.1 MA Worcester
 WHON 94.9 NH Mt. Washington
 1/28 Tr 1900 WCMP 92.1 MN Pine City, new "k" stn.
 1/30 Tr 1900 KSJU 89.1 MN Collegeville, New 10watt stn.
 2/6 Tr 1715 KPLL 103.3 IA Pella, "\$103"
 2/7 AU 0300 KHCE 105.7 TX Houston
 2/17 Tr 0700 KWIT 90.3 IA Sioux City
 1200 KCHA 95.9 IA Charles City
 2/22 Tr 1558 KDXL 91.7 MN St. Louis Park (Mpls) New 10w rocker "XL-92"
 4/11 AU 0015 WAMU 88.5 DC Washington "88+" (rcvd. on V ant)
 0100 WDZQ 95.1 IL Decatur, k
 5/1 Tr 2000 KFAI 90.3 MN Minneapolis, new 10w stn.
 5/3 AU 2259 KPPL 107.5 CO Lakewood
 2302 KAZY 106.7 CO Denver, r
 2305 KRVN 93.1 NE Lexington, dupl. of AM & s/off

5/12 (Es)
 1100 KAMA 93.1 TX El Paso,SS 1115 KEZB 96.3 TX El Paso "FM-96"
 KOYE 94.9 TX Laredo,r 1128 KTFM 102.7 TX San Antonio,r
 KITY 92.9 TX San Antonio,"Y-92" 1130 KBQP 98.3 TX Pleasanton
 annr. noted long dist. call KMCS 98.3 TX Gatesville
 from Athens, GA- someone re- 1145 KMPM 96.1 TX San Antonio,96-
 ceiving KITY. I did not call KBUC 107.5 TX " ",k //FM,"g
 them from Bloomington. 1150 KOKE 95.5 TX Austin

Also several Mexican stations (yet to be ID'ed) rec'd on 94.1,107.7 and 98.3 (Probably XET-FM, XHMN & XHPX respectively)

5/23 Tr 2300 KTIG 100.1 MN Pequot Lakes, new on air
 2303 KTLE 105.5 IA Twin Lakes
 5/25 Tr 2211 KLIZ 107.5 MN Brainerd, freq. change from 95.7
 DX From my cabin at Prosit, MN:
 2/10 Tr 2300 WCMP 92.1 MN Pine City
 4/1 Tr 2300 WUPM 106.9 MI Ironwood
 5/29 Es 0915 KBAT 93.3 TX Midland, logged while in an out-house on port-
 Tr 0930 KLIZ 107.5 MN Brainerd // able radio.
 2000 KBEM 88.5 MN Minneapolis
 2001 KTIG 100.1 MN Pequot Lakes
 5/30 Es 0900 KQNM 93.7 NM Gallup, "KQNew Mexico"
 0909 KFLG 92.9 AZ Flagstaff, r
 0930 KTCE 93.9 AZ Flagstaff, g

Equipment: in Bloomington- Heath AJ-15 Tuner, Sony ST-5130 Tuner, 10-Element Yagi, 25' above ground & rotor (Horiz. reception), Dipole 15' High for Vertical reception. In Prosit- Sherwood S-2200 Tuner (old tube job), 5-element attic mounted FM antenna, Allied A-2600 Portable radio. All are SCA equipped. Bloomington is primary location; Prosit is 30mi NW of Duluth

Peter Sawatzky-R.R. #4-Guelph, ON N1H 6J1

3/24-3/25 MS 2300-2000 WNOE*101.1 LA New Orleans, ID (prev. rec'd Es)
 5/12 Es 0800-1800 WFTW* 99.3 FL Fort Walton Beach, local spots
 5/16 Es 0800-2200 WMCU* 89.7 FL Miami, ID
 5/17 Es 1159 WHR* 90.7 FL Boynton Beach (prev. rec'd on 91.7)
 5/28 Es 1400-2100 WUSF* 89.7 FL Tampa
 5/30 Es 1200-1900 WXBM* 102.7 FL Milton
 1200-1900 WQUE* 93.3 LA New Orleans
 6/6 Es 1100-2000 KJVC* 92.7 LA Mansfield, ID
 6/11 Tr 1106 WVPW 88.9 WV Buckhannon, ID (last time was WVWC)
 2328 WVLY 92.9 KY Lexington, ID,local spots (prev. via MS)
 6/12 Es 1800 WMCU 89.7 FL Miami (rec'd while in Waterloo, ON)
 0800-1900 KACV* 89.9 TX Amarillo
 6/13 Tr 2310 WAUS 90.7 MI Berrien Springs, ID (prev. on 90.9)
 Equipment: Pioneer TX-9500 & homebrew automated DX equipment; Delhi 1047 @25'. Times EST/EDT. * indicates logging made on tape w/automated equip-

Peter Sawatzky report, continued

ment and time not precisely known unless given by announcer. New loggings underlined. Automated equipment will be described in a future article. 73.

David Williams-305 Lindsley Drive-Morristown, NJ 07960 (201)538-0131

4/12
 2100 WKOK 94.1 PA Sunbury, CBS nx, o/WYSP
 2130 WPFL 96.5 PA Montrose, g, s/off
 2144 WHP 97.3 PA Harrisburg, m
 2200 WQYT 98.1 NY Binghamton, m, o/WCAU, rare
 2201 WAAL 99.1 NY Binghamton, r, o/25mi distant WAWZ
 2205 WSKG 89.3 NY Binghamton, w/Auction, squeeze between WNYU/WSOU
 4/16 0131 WEZS 103.7 VA Richmond, w/WIXL off, m
 5/26 2030 WBYO 107.5 PA Boyertown, g, o/u WBSL, til now my nearest unhrd.
 6/1
 2159 WACI 92.1 IL Freeport, nx, wx, ID 2215 KDMI 97.3 IA Des Moines, g
 2201 WJRE 92.1 IL Kewanee, sports 2223 KPRS 103.3 MO Kansas City, BB game
 2202 WVPE 88.1 IN Elkhart, r 2230 WWMH 95.9 WI Minocqua
 2205 WMMM 92.7 IL Arlington Heights
 6/11 2031 WJNS 92.1 MS Yazoo City, ID, k
 6/12 2355 WGBH 89.7 MA Boston, nx, into Mass. poetry
 6/13
 0003 WRLM 93.3 MA Taunton, rm, later heard at 0100 s/off o/WMMR
 0005 WGRG 95.9 MA Pittsfield, r
 0015 WPLM 99.1 MA Plymouth, ID, m
 0016 WSSH 99.5 MA Lowell, ID, m, o/WBAI
 0022 WPJB 105.1 RI Providence, r, "JB-105", o/strong WRFM
 0030 WVLC 104.7 MA Orleans, ID, m, o/WBOC
 0041 WCGY 93.7 MA Lawrence, "Bay Area Rock," o/WSTW
 0045 WVEL 107.9 MA Medford, "\$108," m, o/WDJF
 0100 WCRB 102.5 MA Waltham, "Boston's Concert station" o/WRFY
 0101 WFCR 88.5 MA Amherst, c
 0106 WEEI 103.3 MA Boston, r, female DJ
 0115 WSR5 96.1 MA Springfield, m, ID, wx, o/WLEV
 0118 WAQY 102.1 MA Worcester, r, local ads, ID, o/WIOQ
 0130 WVEF 105.7 MA Framingham, r, ID, o/"the mess," (WKTK, WQXA).
 0130+ reception was no longer confined to NE; Central PA, most MD high pow-
 ereders showed (WMAR, WBOC, etc) also Binghamton, NY.

Totals: 188. I've been DXing since early this year seriously. I use a Panasonic stereo w/60 inch twin lead antenna (I live in a Garden Apartment) and a Realistic Patrolman 9. Other DXing equipment: Sony 12" b/w TV, Sears 17" b/w TV, RCA 25" color TV, Realistic TRF for MW. 73.

-----Not much to report from Georgetown. DX has been good the past few days, but naturally, I've been working at peak periods. Oh well. Thanks for the terrific response, but lets have an even bigger showing next time.
 73, Bruce

Something is Being Done About TV Sound Quality

By MARK ANDREWS
 New York News

Videophiles take note: At last somebody is doing something about the miserable quality of television sound.

If you're a hi-fi enthusiast, you don't have to be told how awful TV audio can be. Most portable TV sets have tiny, tinny speakers, and even expensive color sets seldom sound much better than a good table radio.

CONNECTING a good external speaker can help some — if you know how to do it — but it can't help much. That's because the audio circuitry in the average TV set is also inferior, with power that is much too low and distortion that is much too high to qualify as hi-fi, even when a good speaker is attached.

— a TV tuner that will pick up the audio portion of any television broadcast and then reproduce it through any hi-fi system.

THE TUNER, the TVX-8500, will be sent out to Pioneer dealers within the next couple of months and will have a suggested list price of \$250.

"We are really quite excited about introducing this new product," said Bernie Mitchell, president of U.S. Pioneer Electronics. "For the first time, the home TV viewer will be able to hear a gunshot that is a gunshot, a whip that cracks like a whip. The TVX-8500 will make the viewing of feature-length music and musical specials very enjoyable."

Another problem is that TV stations, until recently, were limited to a very low-fi transmission bandwidth for their audio signals. The allowable bandwidth has now been increased — but that isn't any help yet either, since all TV sets on the market are still low-fi.

Over the past few years, some TV stations have come to our assistance by occasionally transmitting "simulcasts" — television programs with the audio portion beamed out by a nearby FM radio station.

To receive a simulcast, you turn your TV sound off and pick up the audio through your hi-fi system. To a hi-fi addict, a simulcast is a rare treat — too rare. And therein lies the flaw. Tuning in a simulcast concert now and then is hardly a solution to the overall problem of poor TV sound.

But help is on the way. Pioneer, a leading manufacturer of hi-fi components, will soon be marketing a unique new product

The tuner can be connected to the tape monitor, auxiliary or tuner input of any receiver or hi-fi amplifier. It will pick up all TV channels, both VHF and UHF, and is compatible with cable television systems and videotape recorders.

The unit is about four inches high and less than 17 inches wide, and weighs less than 12 pounds. VHF channels are selected with "soft-touch" buttons, and UHF channels are selected with a knob.

Perfect tuning is automatic, Mitchell said. A tiny light goes on above the appropriate button each time a station is tuned in.

The frequency response of the TVX-8500 is rated at 50 to 10,000 Hertz, plus or minus less than one decibel. Distortion is said to be less than 0.1 percent, and signal-to-noise ratio at 85dB is rated at 65 dB.

The TVX-8500 was unveiled at a press conference in New York and will make its official debut in Chicago next month at the Consumer Electronics Show.

AUGUST 1978

Deadline: 8th

LOTS OF UP TO DATE MATERIAL THIS TIME

Report your dx to this column if you are from: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV.

Jim Pizzi, 300 Park, Orcutt, CA 93454 2-21.78 to 6-19.78 PST/PDT

2 Feb.

Tr 1415 KMTX 98.3 CA Turlock, equip tests with rk, rovd on horz. ant. only, suspect h. pol. only

24

Tr 2120 KEZR 106.5 CA San Jose, rk, "FM 106"

3 April

Tr 1930 KUPE 101.9 CA Glendale, soul, rare

5 May

Tr 1403 KCTC 96.1 CA Sacramento, KUNA off

22

Es 1219 KBID 92.9 TX Wichita Falls

1221 KWHW 93.5 OK Altus

1232 KWEY 97.3 OK Weatherford, ONN, 3rk

1243 KPSU 91.7 OK Goodwell, cl

1244 KOSU 91.7 OK Stillwater, cl

tr 1244 KVCR 91.9 CA San Bernardino

6 June

Es 2015 KRUU 94.1 TX Amarillo

Tr 2016 KGIL 94.3 CA Sanfernando, rk

9

Es 2024 KSDL 92.3 TX El Paso, rk

2029 KNFM 92.3 TX Midland, EZ

2034 XHPX 98.3 Jaurez

10

tr 1129 KORJ 94.3 CA Garden Grove, rare

13

tr 1217 KBEE 103.3 CA Modesto, KRUZ off, rare

1229 KOCM 103.1 CA Newport Beach, wx

14

tr 1109 KOEZ 97.7 CA Shafter, ID cw, not nr
1201 KFCF 88.1 CA Fresno, finally on right freq., was on 88.3, heading east of Fresno.

19

Es 1123 KQDY 94.5 ND Bismark, EZ, \$

1125 KFOE 94.9 WY Sheridan

1136 KAWY 94.5 WY Casper, rk

1138 KOLY 99.5 SD Mobridge, cw

1142 KFNH 97.9 ND Fargo, REL

1151 KYWO 96.5 WY Sheridan, EZ, \$

1226 KEBC 94.7 OK Oklahoma City

1235 KATT 100.5 OK Oklahoma City

KHEN 99.5 OK Henrietta, rk

1236 KOFM 104.1 OK OKC

1238 KWOE 106.9 OK Clinton, mono

1238 KAEZ 107.7 OK OKC, rk

1239 KINB 107.3 OK Poteau

1241 KZUS 102.7 OK OKC

1242 KFJL 98.9 OK OKC

1243 KLCO 97.9 OK Poteau

1247 KXXY 96.1 OK OKC, u/KUNA w/rk

1446 CBK 96.9 CAN Regina, talk pgm

1456 CFMQ 92.1 CAN Regina, \$

20

Es 0952 KUWR 91.9 WY Laramie

0952 KFAH 92.1 NE Alliance

21

Es 2211 KWSC 91.9 NE Wayne

2212 KFAH 92.1 NE Alliance

Vernon Eaton, Rt. 1, Benton, AR 72015, 9-27 to 7-1, 78, CDT/CST

Equip.: Sony ST 5130 tuner, stacked stereo Probe Channelmasters #50', CM rotor (Only first time catches logged) (all loggings tr)

27 Sept., 77

tr 2200 WPGU 107.1 IL Urbana 400 mi.

29 2045 WKWV 98.1 AL Fayette, \$ 240

14 Oct.

0825 WRMS 91.3 KY Murray, \$ 375

23 1400 ESCS 96.3 TX Ft. Worth, \$ 285

24 1500 KBID 92.9 TX Wichita Falls 345

15 Nov

2105 KTDY 99.9 LA Lafayette 310

2200 KERA 90.1 TX Dallas 265

20 0145 KFJZ 97.7 TX Ft. Worth, \$ 285

29 1240 KFWD 102.1 TX Ft. Worth

12 Dec.

2015 KTDY 99.5 LA Lake Charles 305

13 2010 WRNO 99.5 LA New Orleans 350

2020 WDFP 102.5 LA Baton Rouge 300

2025 WQXY 100.7 LA Baton Rouge

16 0900 WMDT 89.5 TN Murfreesboro, \$ 350

0730 WMBW 88.9 TN Chattanooga, \$ 405

17 2000 KAFM 92.5 TX Dallas, \$ 265

24 1500 KYKR 93.3 TX Port Arthur 340

25 1830 KMGC 102.9 TX Dallas, \$ 265

26 1205 KHEN 99.5 OK Henrietta 235

27 0900 KEPR 88.9 TX Commerce 200

Jan.

6 2030 KUMR 88.5 MO Rolla, \$ 240

Feb.

7 0920 WSJC 107.5 MS Magee 240

11 0010 KOJS 103.3 TX Nacadoches 240

0035 KOFM 104.1 OK OKC 285

0110 KSMS 96.1 LA Lake Charles 310

0130 KMEZ 100.3 TX Dallas 265

0135 KJAK 100.5 OK OKC 285

11 0145 WVNA 100.3 AL Tusculumbia 275

12 1200 WDAI 101.3 MS Meridian 260

April

16 1900 KUHF 88.7 TX Houston, \$ 365

1910 KFMK 97.9 TX Houston, "

1925 KQVE 102.9 TX Houston

2100 KPPT 90.1 TX Houston

17 0720 KPLU 91.3 TX Beaumont, \$ 325

1825 KFNB 101.9 OK OKC, \$ 285

18 0830 KMGV 106.9 TX Conroe 340

1430 KOAX 105.3 TX Dallas, \$ 265

2045 KOOI 106.5 TX Jacksonville, \$ 240

May

21 2200 KWMO 90.7 MO St. Louis, \$ 300

2215 KBIA 91.3 MO Columbia, \$ 305

26 2215 WLAY 105.5 AL Muscle Shoals, \$ 285

27 1400 WKIR 104.1 TN Jackson, \$ 220

28 1300 KOSU 91.7 OK Stillwater, \$ 270

29 0700 WDDD 107.3 IL Marion 290

June

4 2135 KROZ 92.1 TX Tyler 210

2150 WQXQ 101.9 FL Daytona Beach (Did 840

you also get a lot of stations between Tyler and Daytona Beach, Vernon? A summary describing the geographical area of your reloggings, if any, would have satisfied my curiosity about the scope of that opening. DB)

5 1845 WBYU 95.7 LA New Orleans, \$ 360

2135 KRBE 104.1 TX Houston, rk 365

2208 WUNK 101.5 LA Baton Rouge 300

10 0400 WRSA 96.9 AL Decatur, \$ 310

0945 WTGI 103.3 LA Hammond, rk 325

On June 10 weather is clear and mild completely east of the Rockies and produced fantastic tr which lasted about one week being best June 10, SE to NE.

June	
10 0950 WKDF 103.3 TN Nashville, \$	350
1000 WSIK 97.9 TN "	"
1005 WSH 95.5 TN "	"
1010 WVLC 92.9 KY Lexington	530
1045 WAPI 94.5 AL Birmingham	350
1050 WDJC 93.7 AL "	"
1100 WDDO 96.5 TN Chattanooga	405
1105 WVOK 99.5 AL Birmingham	350
1110 WZZK 104.7 AL "	"
1112 WKXX 106.9 AL "	"
1114 WENN 107.7	
1145 WDRM 102.1 AL Decatur	300
11 0510 WSTO 96.1 KY Owensboro	390
2200 KOKE 101.5 TX Brownwood	450
2203 KLUR 99.9 TX Wichita Falls	345
2205 KMTO 103.3 TX Wichita Falls	345
12 0640 KZIA 96.9 LA Alexandria	230
1830 KNOK 107.5 TX Ft. Worth	285
12 1835 KZEN 97.9 TX Dallas, \$	265
1850 KNUS 98.7 TX "	"
1900 WRR 101.1 TX "	"
16 1500 KJCK 94.5 KS Junction City	410
17 0408 KFJL 98.9 OK OKC	285
0410 KAEZ 107.7 OK "	"
0415 KEBC 94.7 OK "	"
0418 KKNG 92.5 OK "	"
0435 KSEL 93.7 TX Lubbock	575
1600 WKYQ 93.3 KY Paducah, \$	300
1700 KJFF 106.9 MO Jefferson City	275
19 0700 KLCR 102.3 TX Center	
24 0415 KEIL 95.1 TX Beaumont	350
0425 KWIC 107.7 TX Beaumont, \$	
26 0700 WAFB 98.1 LA Baton Rouge, \$	300
0710 KGAF 94.5 TX Gainesville	260
1815 KXXY 96.1 OK OKC, \$ (As of yet on E-skip.	

I believe this is a bad year for Es.)

Rick Sanford, 404 S. McNeill, Burnet, TX 78611 6-5 to 7-4, 1978 CDT

Equip: Kenwood KR-5400 rx, 10-element Archer FM with Belden #8230 T-line at 24 ft., rotor

This report isn't really quite as big as I had hoped it would be. Es has managed to cooperate with me on only a few occasions, with the 18th, 20th, and 30th being the best days for skip during June. However, my skip DXing is usually quite erratic in terms of staying at the dial (as anyone who cares to scrutinize my report can see), so I've probably missed a few stations as the result of not being there when the opening began and leaving during the middle on numerous occasions. Other activities seem to counteract my skip DXing, and during this past month even my main DX priority (tropo) has failed to receive the attention it deserves. I'll try not to complain anymore about it, though, as I have managed to log well over 100 new stations via Es during the last month. My logging of KBED 92.7 on 6-19 is undoubtedly the most unusual of this report. If I didn't have the calls taped, I would have doubted what I heard. Both AM/FM calls were given and YL mentioned "Lake Radio." MUF was seemingly decreasing at this time (contrary to what you might expect for such short skip) with some unIDS (probably from NE FL, such as Jacksonville) being heard about the same time. Reception was noted for around one-half minute with the signal not too strong, as far as skip goes. While 450 mile class A tropo isn't all that rare down here, I think we can rule it out on this occasion, considering the time of day, and the fact that there are two stations along this same general path, in Crockett, TX and Mansfield LA, that would do their best to keep me from receiving it. The rest of the skip was pretty dull with nothing much beyond 1300 miles. Tropo had a minor resurgence of sorts during the June 22-27 period, with some medium-range (but moderately rare) signals from Amarillo and Little Rock being heard. Most of the late June tropo to NM was accompanied by a heat wave which brought temps up to 106F in Lubbock and 118F in Presidio, TX. (It wasn't quite as hot here, but certainly warm enough.) While I wasn't able to pull in any long-haul tropo this month, I have found one positive thing about the tropo that I did hear. On these occasions when cx were open to Roswell NM and Jackson MS simultaneously, this represented a spread of some 850 mi. Loggings of KLEK 94.5 and KLL 96.3, Lubbock at 290 mi. have been omitted since there was a long period when they were seemingly almost received at will on a daily basis. During the middle of the skip season, loggings of this nature are pointless and wasteful.

In last month's report I had a tr? beside two FL stations (WXOS 100.3 and WMCU 89.7) that were heard on 5-23. After much deliberation and further experience with Es, I have to conclude that these were heard via skip instead of tr. A number of factors (a relatively high MUF, the earliness of the opening, and 380 mi. tr in an almost opposite direction) all helped to confuse me on these two. After a re-evaluation of the signal strength (which was probably too strong for tr) and experience with other pre-0800 openings, I'm relatively certain these were Es. Until Next Month, Rick.

6 June	
Es 0711 WWOQ 99.9 FL Boca Raton	
0721 WSMN 93.5 FL Belle Glade	
0728 WAFG 90.3 FL Fort Lauderdale	
0732 WHRB 90.7 FL Boynton Beach	
2 tr 0744 KOFM 104.1 OK Oklahoma City	325
10 Es 1935 KFAC 92.3 CA Los Angeles	
1938 KXK 93.1 CA L. A.	
1945 KPEK 90.7 CA L. A.	
1948 KFOX 93.5 CA Redondo Beach?, mentioned L. A.; new calls for KKOP?	
(There's a KFOX-AM for Long Beach, DB)	
2000 KLOM 88.1 CA Long beach	
2005 KBEL 99.1 CA Riverside	
10 Es 2014 KQYN 96.7 CA Twentynine Palms	
2019 KOOL 94.5 Phoenix	
2022 KPOL 93.9 Los Angeles	
11 tr 0805 KQIP 96.9 TX Odessa	255
0813 KSCR 95.7 NM Hobbs	315
0900 KTKK 94.1 NM Humble City	325
12 tr 0627 WJMI 99.7 MS Jackson	500
0628 WLIN 95.5 MS Jackson	
0631 WXXI 94.7 MS Jackson, Hope this didn't develop into anything decent, as I had to leave.	
13 Es 1701 KJOK 93.1 AZ Yuma	

13					
Es	1706	KFSN	94.1	CA San Diego	
	1710	KIFM	98.1		
	1714	KDUO	97.5	CA Riverside	
	1716	KDKF	93.3	AZ Mesa	
	1721	KWST	105.9	CA Los Angeles	
	1724	KOLA	99.9	CA San Bernardino	
15					
Es	0859	WFLA	93.3	FL Tampa	
	0900	WUSF	89.7	FL Tampa	
		WVPM	94.1	FL Lakeland	
	0909	WUCF	92.7	FL Stuart	
	0910	MOVV	95.5	FL Ft. Pierce	
	0913	WDBO	92.3	FL Orlando	
	0931	WFTO	89.3	FL Titusville	
17					
tr	0737	KOFM	104.1	OK Oklahoma City	
18					
Es	1400	WMPQ	92.7	FL Ocala	
	1404	WOKO	101.9	FL Daytona Beach	
	1406	WLYD	99.9	FL Palatka	
	1411	WATV	96.9	FL Jacksonville	
	1414	WDBO	92.3	FL Orlando	
	1422	WFLD	94.3	FL Lake City	
	1425	WFLV	94.5	FL Daytona Beach	
	1428	WVPM	94.1	FL Lakeland	
	1430	WFOO	96.5	FL Orlando	
Es	1439	WQVW	95.5	FL Fort Pierce	
	1447	WPAF	92.5	FL Panama City	
	1501	WJCT	89.9	FL Jacksonville	
	1919	KSPN	97.7	CO Aspen	
	1921	KOSV	96.5	WY Rock Springs	
	1923	KGLS	92.7	CO Glenwood Springs	
	1929	KALL	94.1	UT Salt Lake City	
	1931	KWFO	93.3	UT S. L. C.	
	1941	KCPX	98.7	UT " "	
	1946	KRYU	88.9	UT Provo	
	1950	KTSN	97.1	UT Salt Lake City?	
	1952	KRSP	103.5	UT S. L. C.	
	1954	CHMM	97.5	MB Winnipeg	
	1958	KSET	100.3	Ut Salt Lake City	
	1959	KATK	96.9	UT Provo	
	2000	KARE	98.3	UT Price	
	2007	KSOP	104.3	UT Salt Lake City	
	2141	KREX	92.3	CO Grand Junction	
	2142	KSUP	92.5	UT Cedar City	
	2144	KDAB	101.1	UT Ogden	
	2152	KNUV	94.5	MT Great Falls	
	2156	KBRE	94.9	UT Cedar City	
	2200	KUER	90.1	UT Salt Lake City	
19					
Es	1036	WGOV	92.9	GA Valdosta	
	1039	WDMG	99.5	GA Douglas	
	1041	WATV	96.9	FL Jacksonville	
	1043	WSGF	95.5	GA Savannah	
	1045	WBCN	98.9	FL Tallahassee	
	1050	WQFL	98.1	FL Life Oak	
	1059	WUSF	89.7	FL Tampa	
	1312	KBED	92.7	LA Lake Providence	4501
				see comments	
	1354	WQJK	99.1	FL Jacksonville	
20					
Es	1038	WQDR	94.7	NC Raleigh	
	1045	KKDD	92.9	ND Grand Forks	
	1046	KSJM	93.3	ND Jamestown	
	1048	KTCR	97.1	MN Minneapolis	
	1050	KBHP	101.1	MN Bemidji	
	1052	KMAV	101.7	ND Mayville	
	1054	KKWS	105.9	MN Wadena	
	1100	KPAT	97.3	SD Sioux Falls	
	1103	KYYY	92.9	ND Bismarck	
	1105	CHMM	97.5	MB Winnipeg	
	1112	KMIT	102.3	SD Mitchell	
	1114	KLYX	93.5	SD Sioux Falls	
	1119	KQDY	94.5	ND Bismarck	
	1121	KLAX	96.1	SD Watertown	

20					
Es	1123	WWJO	98.1	MN St. Cloud	
	1126	KOLY	99.5	SD Mobridge	
	1206	KOLL	93.5	WY Gillette	
	1214	KKHJ	93.9	SD Rapid City	
	1218	KIVE	96.5	MT Glendive	
	1219	KHMS	98.5	MT Billings	
	1310	KBOW	94.1	MT Butte	
	2003	KLGA	92.7	IA Algona	
21					
Es	1146	KUPD	97.9	AZ Phoenix	
	1149	KMCR	91.5	AZ Phoenix	
	1152	KDKB	93.3	AZ Mesa	
tr	1200	KJAK	92.7	TX Slaton	270
22					
tr	0743	KHJD	98.9	NL Monterrey	365
	0748	KYKK	94.1	NM Humble City	325
	0749	KSCR	95.7	NM Hobbs	315
	0845	KOYL	97.9	TX Odessa	255
	2345	KTDY	99.9	LA Lafayette	385
23					
tr	0000	KYKK	94.1	NM Humble City	?
	0731	KFNE	95.3	TX Big Spring	?
	0736	KPRH	94.3	TX Fort Stockton	
	1039	KBIM	94.9	NM Roswell	
Es	1440	WCCW	92.1	MI Traverse City	
	1630	WHLA	90.3	WI La Crosse	
24					
tr	0015	KTEZ	101.1	TX Lubbock	290
	0017	KBIM	94.9	NM Roswell	410
	0748	WJMI	99.7	MS Jackson	500
	0759	WAFB	98.1	LA Baton Rouge	435
	0806	KTCM	99.9	NM Clovis	380
	0856	KQIZ	93.1	TX Amarillo	365
	0900	KKGO	99.1	NM Clovis	380
	0910	KYKK	94.1	NM Humble City	325
	0911	KOFM	104.1	OK Oklahoma City	325
	0923	KBUY	94.1	TX Amarillo	365
	1000	KGNC	97.9	TX Amarillo	365
	1001	KNGO	99.5	TX Lubbock	290
	1008	KBIM	94.9	NM Roswell	410
	1010	KLEA	101.7	NM Lovington	335
	2357	WJMI	99.7	MA Jackson	500
25					
tr	0000	WAFB	98.1	LA Baton Rouge	435
	0046	KTDY	99.9	LA Lafayette	385
	0050	WPMF	102.5	LA Baton Rouge	435
	0808	KROK	94.5	LA Shreveport	290
	0813	KEPT	96.5	LA Shreveport	290
	0817	WJMI	99.7	MS Jackson	500
	0355	KXKZ	107.5	LA Ruston	360
	0848	WQWZ	95.1	MS Natches	420
	0909	WYNK	101.5	LA Baton Rouge	435
	0920	WZZQ	102.9	MS Jackson	500
	0931	WKTV	106.7	MS Vicksburg	460
	2214	WLIN	95.5	MS Jackson	500
	2358	WAFB	98.1	LA Baton Rouge	435
26					
tr	0738	WQWV	98.7	MS Vicksburg	460
	0743	KLAZ	98.5	AR Little Rock	445
	0745	KEZQ	94.1	AR Little Rock	
	0751	KYKK	103.7	AR Little Rock	
	0808	WKXI	94.7	MS Jackson	500
	0816	WLIN	95.5	MS Jackson	
	0829	WJMI	99.7	MS Jackson	
	0830	KBIM	94.9	NM Roswell	410
	0833	KNOE	101.9	LA Monroe	385
27					
tr	0738	KBIM	94.9	NM Roswell	410
	0752	KWOE	106.9	OK Clinton	325
	0754	KOFM	104.1	OK Oklahoma City	325
	0759	KKNG	92.6	OK OKC, o/KAPM Dallas	
	0801	KZUE	92.5	OK OKC	
	0805	KBEC	94.7	OK OKC	
	0806	KATT	100.5	OK OKC. "The Cat"	

27 June

tr 0809 KFJL 98.9 OK OKC, local ad, now rk
instead of soul with "Mellow-99" ID. Have
the calls changed also? (Yes, to KTLG, db.)
0813 KFNB 101.9 OK OKC
0823 KXXY 96.1 OK OKC, "96-X", w/no-comm.
hr. and local nx.
0824 KOSU 91.7 OK Stillwater 370
0827 KAEZ 107.1 OK OKC 325

28

Ms 0728 WIKY 104.1 IN Evansville
Es 1946 KQDY 94.5 ND Bismarck
1952 WWJO 98.1 MN St. Cloud
1957 KKDQ 92.9 ND Grand Forks
2000 KLTJ 92.1 SD Huron
2008 KBMO 93.5 MN Benson
2013 KARA 92.7 MN Alexandria
2016 KPRM 97.5 MN Park Rapids
2020 KDLO 96.9 SD Garden City
2022 KWDA 95.1 MN Worthington
2026 KEZO 92.3 NE Omaha
2029 KMSR 94.3 MN Sauk Centre

30

Es 0809 WFXI 95.1 SC Charleston
0811 WFDK 93.3 GA Manchester
0812 WBD 92.7 SC Bamberg
0813 WKLE 92.3 AL Montgomery
0818 WERI 97.7 AL Auburn
0820 WBAW 10 .7 SC Barnwell
0822 WBBQ 104.3 GA Augusta
0826 WLOW 95.9 SC Aiden
0828 WFDK 94.3 SC Camden
0829 WITN 93.3 NC Washington
0831 WAZK 93.1 OH Cleveland
0856 WKDE 105.5 VA Altavista
0949 WATA 97.3 FL Miami
0954 WQSR 102.5 FL Sarasota, Pre. by tr
0955 WMTX 96.3 FL Miami

30

Es 0957 WOVV 95.5 FL Fort Pierce
0958 WJWZ 94.9 FL Miami Beach
0959 WMLL 93.9 FL Miami Beach
1000 WEPF 89.3 KY Louisville
1001 WPIO 89.3 FL Titusville
1029 WVFH 94.1 FL Lakeland
1030 WDBO 92.3 FL Orlando
1031 WGYL 93.5 FL Vero Beach
1039 WFLY 106.7 FL Leesburg
1156 WXL 95.1 WV Parkersburg
1159 WDOO 95.5 KY Prestonburg
1202 WQSH 98.1 NC Fayetteville
1206 WKOK 94.1 OH Lancaster
1241 WYVA 94.1 VA Yorktown
1249 WRAR 105.5 VA Tappahannock
1300 WEGG 95.5 MD Morningside

3 July

tr 0731 WJMI 99.7 MS Jackson 500
0745 WLIN 95.5 MS Jackson 500
0752 KNOE 101.9 LA Monroe 385
0753 KKKZ 107.5 LA Ruston 360
0802 WQWZ 95.1 MS Natchez 420
2354 KRIX 99.5 TX Brownsville 340

4

tr 0752 WRNO 99.5 LA New Orleans 500
0755 KWLW 107.1 LA Many 290
0759 WQUE 93.3 LA New Orleans 500
0815 WEZB 97.1 LA New Orleans 500
0820 WCKW 92.3 LA Laplace 480
0823 KNOE 101.9 LA Monroe 385
0828 WAFB 98.1 LA Baton Rouge 435
0832 KRIX 99.5 TX Brownsville 340
0840 WPMF 102.5 LA Baton Rouge 435
0845 WQXY 100.7 LA Baton Rouge 435
0859 WXEL 105.3 LA Slidell 520
In addition to June 30 Es:
1219 WEXB 100.1 NC Edenton

Thomas J. Yingling, Jr. 221 Pinewood Rd., Baltimore, MD 21222 EDT 6-6 to 6-30

Equipment: Pioneer TX-9100, Channel Master Probe9 ant. up 45 ft. with a Panasonic Dolby
noise reduction unit, #RP-966. DX is recorded on a Pioneer CTF-2121 stereo cassette.

6 June

Es 1820 WJWZ 94.9 FL Miami Beach 925
"Zeta-4"

10

Tr 0135 WDJF 107.9 CT Westport 225
20
Es 1730 WBBE 92.9 NE Beatrice, cw 1050
1743 WSCO 92.9 MN Duluth, cl 960
1744 KRMS 93.5 MO Osage Beach 875
1750 KRSD 96.9 NE Seward
1800 KCIM 93.7 IA Carroll 1000
1805 KBRX 92.7 NE O'Neill, bgame 1200
1813 KVDR 94.3 IA Sioux Center 1000
1822 KWTR 93.7 SD Winner 1150
1829 WDAY 93.7 ND Fargo 1150
1835 KMOT 93.7 ND Minot 1350
1840 KEZZ 94.3 MN Aitken 1050
1845 KPRM 97.5 MN Park Rapids 1050
1850 KOWH 94.1 NE Omaha, "FM94" 1000
1900 KYTN 94.7 ND Grand Forks, "Y95" 1200
1905 KODY 94.5 ND Bismarck 1300

Addenda to Tom's report:

24 June

Es 1010 WCCF 92.7 FL Punta Gorda
1015 WRCI 93.5 FL Naples
1030 WEEI 100.1 FL Port Charlotte
1032 WRCL 103.9 FL Cape Coral
1045 KSTN 92.5 MO Joplin
1100 KAFM 92.5 TX Dallas, "Rock 92 1/2"
1105 WBCF 92.7 FL Stuart
1115 WLYF 101.5 FL Miami, "We're Life,
WLYF-FM"
1117 WIGL 107.5 FL Miami
1120 WFCV 97.5 FL Winter Haven, cw
1122 WTFM 94.1 FL Lakeland

20

Es 1910 KLOQ 106.1 KS Lyons 1000
KIQD 107.7 IA Spencer 1000
1015 KNDY 103.1 KS Maryville, bgame 1050
KAYL 101.5 IA Storm Lake, bgame 1000
KTFK 103.3 IA Sioux City, REL 1000
1920 KICS 93.5 NE Hastings 1150
KROC 106.9 MN Rochester 900
1930 WLRW 94.5 IL Champaign 650
1945 KTRX 93.5 MO Tarkio 1000
1958 WBYS 98.3 IL Canton 700

21

Tr WESP 106.3 MD Cambridge, changed
format from Soul/Disco to cw

Units on 6-2-78:

1843 ???? 99.9 Rock-99, Hit-Parade mx
1910 101.3 Disco-101
1924 95.7 Classical right in middle of
two locals
1902 100.5 Royals vs Indians
ballgame

30

Es 1645 KVNO 90.7 NE Omaha
1700 KTTT 93.5 NE Columbus, "K-Triple-T"
1705 KICS 93.5 NE Hastings
1710 KBRX 92.7 NE O'Neil
1715 KOWH 94.1 NE Omaha, disco/soul hp
1730 KTFK 103.3 IA Sioux City
1740 WBCF 98.3 IA Boone
1730 KTRX 101.7 IA Creston
1734 KDMI 97.3 IA Des Moines
1750 WBYS 98.3 IL Canton
tr 1800 WFRB 105.3 MD Frostburg

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228, 1-7 to 6-18, '78 CDT

Equip: Halli Crafters SX-62 with International Crystal SA-X-1 preamplifier(s); Archer 6-el FM ant. at 20' with rotor; some 107.7/.9 loggings with Heath GR-98. t-tentative, new udl.

7 January					
tr 0132	KTAL	98.1	TX	Texarkana, ID	380
1 February					
Es 2135	KENot	92.3	NV	Las Vegas, rk	1050
		2142		f/outs	
9					
Es 1850	KSDSt	38.3	CA	San Diego	1120
	KFSdSt	94.1	CA	San Diego, cx	
29 March					
tr 0303	KSNS	96.1	LA	Lake Charles, ID	325
	0310	KLUF	105.1	TX	Lufkin, ID
					265
30 April					
Es 0800	WScIt	89.3	SC	Charleston, cx	1120
	0810	WMPrt	88.1	SC	Sumter, cx
					1110
	0819	WDDZ	93.5	NC	Shalotte, ID
					1220
	0830	WXY	93.5	SC	Columbia, ID
					1075
					lull to 0910
	0918	WAUG	105.7	GA	Augusta, wx
					1010
	0920	WBBQ	104.3	GA	Augusta, ID
	0924	WYAK	103.1	SC	Surfside Beach, ID, ads
	0927	WLCF	107.1	NC	Southport, ads
					1240
	0933	WCOB	97.9	SC	Columbia, ID
					1075
	0936	WSTN	106.3	SC	Florence, wx
					1150
	0949	WQSM	98.1	NC	Payetteville, ad "q98"
					1230
	0955	WRAL	101.5	NC	Raleigh, ad
					1230
	0959	WET	107.9	NC	Charlotte, EL, pol. ad
	1001	WVID	106.7	GA	Gainesville, ID, wx
					920
	1010	WEGG	104.9	GA	Metter, "q105"
					995
	1015	WFMX	105.7	NC	Statesville, ID
					1110
	1016	WLOS	99.9	NC	Asheville, pol. ad
					1010
	1026	WRDX	106.5	NC	Salisbury, ID
					1130
					1040 all f/out
	1427	WSIP	98.9	KY	Paintsville, ad
					1065
	1429	WKIL	95.1	WV	Fardersburg, ID
					1180
					1453 f/outs
	1755-1830			unIDs	88-89
tr 1832	KGAF	94.5	TX	Gainesville, ID	300
Es 1845	WFFW	89.3	DI	Washington, \$ pleas	
	1914	WFPS	93.3	VA	Fredericksburg, ID
					1340
	1942	WFVR	94.9	VA	Roanoke, EL, ID
					1195
	1943	MUF	106.7		soon out
	2140	unid	38.5		north (test tone)
12 May					
tr 0725	KEBC	94.7	OK	Oklahoma City, ID	420
	0731	KTEN	93.3	OK	Ada, wx, ID, MoR
					385
	0743	KOFM	104.1	OK	OKC, ID
					420
	0748	KPMN	107.9	TX	Abilene, ad
					220
Es 0754	WFRL	98.5	IL	Freeport, ID	1000
	0757	WJML	98.9	MI	Petoskey, nx
					1320
					f/out soon
tr 0759	KOOV	103.1	TX	Copperas Cove, ads, ID	
	0822	KGAF	94.5	TX	Gainesville, ID
					300
Es 0902	WCAL	89.3	MN	Northfield, ID	1080
	0905	KRIT	96.9	IA	Clarion, nx, ID
					955
	0913	KQWB	98.7	MN	Moorhead, ad
					1205
	0919	KSRD	96.9	NE	Seward, ad
					795
	0920	KEEZ	99.1	MN	Mankato, ID
					1045
	0924	KTWN	107.9	MN	Anoka, ID
					1125
	0925	KDUZ	107.1	MN	Hutchinson, ads
					1090
	0932	KHAT	106.3	NE	Lincoln, ID, k
					790
	0934	KOLD	104.7	MN	St. Cloud, area ads
	0942	KYSN	103.5	MN	Mankato, ads
					1045
	0950-1005			with VOR's	KLIN 107.3 NB
	1009	KNDY	103.1	KS	Marysville, ID
					725
	1012	KCHE	102.3	IA	Sherokee, psa, ID
					935
	1016	KTWA	105.5	IA	Sheldon, town ID
	1018	KOAD	100.9	MN	Luverne, area ads
					990
	1027	KBRF	103.3	MN	Pergus Falls, ID
					1125
	1032	KGOR	99.9	NE	Omaha, ID
					830
	1038	KKWS	105.9	MN	Wadena, ad
					1190
	1049	KMRS	95.7	MN	Morris, ID
					1125
	1054	WQPM	106.3	MN	Princeton, ID
					1150
	1101	KSEZ	97.9	IA	Sioux City, ID
					910
					12
	Es 1103	KQKQ	98.5	IA	Council Bluffs "KQ-98"
		KDWB	101.3	MN	Richfield, ID
					1105
	1105	KAYL	101.7	IA	Storm Lake, ID
					930
		KSWI	106.3	IA	Clarinda, area ads
					805
	1107	KNZL	103.9	KS	Hawthorn, ID
					740
	1109	WAKX	98.9	MN	Duluth, ID
					1250
	1113	KTIS	98.5	MN	St. Paul, wx
					1110
	1117	WGGP	105.1	MN	Duluth, ID
					1250
	1122	KLYX	93.5	SD	Sioux Falls, state ID
		WEVR	106.3	WI	River Falls, town ID
					1110
	1124	KABQ	105.5	MN	Cambridge, psa, ID
					1150
	1126	KBMO	93.5	MN	Benson, area ad
					1180
	1127	WJJO	98.1	MN	St. Cloud, ID, k
					1140
	1129	WALK	100.9	MN	Cloquet, town ID
					1235
	1132	KAUS	99.9	MN	Austin, local ad
					1035
	1137	KLGR	97.7	MN	Redwood Falls, town ID
					1060
	1148	KWKX	96.7	MN	Rochester, wx ads
					1060
	1154	KFMA	104.1	MN	St. Louis Park, ad
					1100
	1215	KHBT	97.7	IA	Humboldt, local ad
					945
	1227	KTOR	97.1	MN	St. Paul, town ID
					1100
	1230	KRFQ	104.9	MN	Owatonna, wx
					1050
	1242	KCPJ	95.3	MN	Albert Lea, town ID
					1150
	1300	WFPD	88.5	NC	Winston-Salem, ID
					1150
					1305 f/outs
					1405-1415 re-logs of KQWB, KKWS, KBMO...
	1420	KFNV	97.9	ND	Fargo, ad
					1200
	1428	KVLR	95.3	MN	Detroit Lakes, wx, ID
	1430	KNCW	96.5	SD	Sioux Falls, ID
					975
	1436	KKWB	104.9	MN	Breckenridge, ID
					1165
	1449	KDLO	96.9	SD	Garden City, pol. ads
	1459	KEYA	88.5	ND	Belcourt, ID
					1335
					1515 f/outs
	1829	KILat	95.5	NV	Henderson, REL
					1040
					18
	tr 2358	KIEL	95.1	TX	Beaumont, nx
					275
	E21 0945	WScIt	88.3	SC	Charleston, cx
					1120
	Es 1001	WMPR	98.1	SC	Sumter, ID
					1110
					1004 99.1 MUF
	1005	WDDZ	93.5	NC	Shalotte, nx, ID
					1220
	1013	WQSM	98.1	NC	Payetteville, ID
					1200
	1025	WYSUt	88.5	OH	Youngstown, cs
					1275
	1055	WEKU	88.9	KY	Richmond, ID
					995
	1059	WMTT	88.3	OH	Marietta, ID
					1180
					1120 f/outs
					22
	Es 0555	WMCut	89.7	FL	Miami, REL
					1150
					1030 to 1057 13 t's from Los Angeles area
					f/out at 1100
	1159	KECR	93.3	CA	El Cajon, REL
					1100
	1203	KFSD	94.1	CA	San Diego, ad
					1120
	1210	KIFM	98.1	CA	S. D.
	1211	KGB	101.5	CA	S. D., other S. D.'s-t
	1223	KWST	105.9	CA	Los Angeles, ads
					1190
	1224	KHAY	100.7	CA	Ventura, ad
					1250
	1237	KNYR	93.7	SD	Winnier, ID
					960
	1243	KIGS	93.5	NE	Gastings, ID
					770
	tr 1252	KBAT	93.3	TX	Midland, ID
					280
	Es 1253	KXTZ	94.1	NV	Henderson, wx
					1040
					1310 f/outs
					23
	Es 0559	WJCT	89.9	FL	Jacksonville, ID
					1015
	0610	WRGI	93.5	FL	Naples, ID
					1050
	0614	WVFM	94.1	FL	Lakeland, ad
					1010
					0615 f/outs
	0834	KNYX	96.5	CA	Cathedral City, ID
					1080
	0838	KVIN	93.7	CA	Coachella, Sp, ad
					1070
		KWST	105.9	CA	Los Angeles, ID

23 May
Es 0930 KYYX 96.5 CA San Diego, ad, EL 1120
 0931 KHQS 98.9 BCN Tijuana, town ID 1100
 0935 KHQS 95.7 BCN Tijuana, ad
 0945 KLRO 94.9 CA San Diego, ad 1120
 KGB 101.5 CA " " "
 0958 KIPM 98.1
 1002 KPRI 106.5, 1020 f/out
 1110 unids thru 98, San Diego area again
 1120 KJOK 93.1 AZ Yuma, ID 970
 1125 XHVGT 103.3 BCN Mexicali 1010
 1152 KALJ 95.1 AZ Yuma, wx 970
 1239 KCSN 88.5 CA Northridge, ID 1210
 1259 KWPE 107.9 CA San Clemente, ID 1150
 1355 KPOL 93.9 CA Los Angeles, ads, ID
 7 others t from Southern CA
 2025 KXTZt 94.1 NV Henderson, EL 1040
 KENot 92.3 NV Las Vegas 1050

26
Es 2000-2020 Mexico City, Cuernavaca in
 all t (9), 2020 f/out 690,735

28
Es 0927 KHNP 89.3 Pue Puebla, "Esterio Mundo"
 0940-0950 Mexico City, Cuernavaca, t's (8)
 0955 f/out
 1138 WDCIt 89.3 SC Charleston, cx 1120
 1157 WLXN 94.1 NX Lexington, ad 1150
 1159 WFDD 88.5 NC Winston-Salem, ID "
 1207 WOFM 94.9 TN Greenville, ads 1020
 MUF 99.1, 1220 f/out
 1410 KEZO 92.3 NE Omaha, ID 830
 1422 WCIIt 94.3 IL Chillicothe 940
 1445 f/out, spotty after 1430
 2015-2105 unids to 94.5
 2058 WMEV 93.9 VA Marion, town ID 100
 2300-2315 unids to 94.1

30 **Es** 0915-0920 unids to 92.1, 1010-1035 unids
 to 89.3, 1014 WKKU 88.9 KY Richmond 995

1 June
 1748-1805 88.8 Guatemala City, 1120
 ("Radio Fabulosa" ID)

4
Es 1020 KWHOt 93.3 UT Salt Lake City 1080
 KOPIt 98.7 UT " "
 1022 KKTZ 94.1 NV Henderson, psa 1040
 1025 KBYU 88.9 UT Provo, ID 1045
 1108 KENO 92.3 NV Las Vegas, psa 1050
 1127 KGEp 88.1 NV Las Vegas, ID, rk, sol

5
Es 1850-1945 unids to 94.1, spotty from 1915
 05 WIAL 94.1 WI Eau Claire, NBC, ID
 359 WRFG 89.3 GA Atlanta, psa 880
 612 WRAY 98.1 IN Princeton, ID 870
 630 f/out

7
 0830-0930 unids to 97's (little after 0910)
 0856 unid 93.5 MO (MO net nx
 KKEZ 94.5 IA Ft. Dodge, ID (0856) 935
 KHBT 97.7 IA Humboldt, ID (0856) 945

10
Es 1640-45 unid 92.5
 1715 KMET 94.7 CA Los Angeles, ID 1190
 others from CA (t)
 1910 KILA 95.5 NV Henderson, ID 1040
 KKTZt 94.1 NV Henderson, EL

12
Es 0750-0815 unids to 89.7, very spotty
 0906-0915 unids 88-89
 0917 WSAI 94.7 IL Chicago, wx 1045
 0918 WYCA 92.3 IN Hammond, REL 1040
 0923 WRSW 93.3 IL Peoria, "KZ93", wx
 0929 WBEZ 91.5 IL Chicago, ID 1045
 0939 WTTnt 94.1 WI Watertown, ads 1090
 0950 f/out
 1028 WWZ 93.5 SC Summerville, nx 1110

12 June
Es 1029 WPXI 95.1 SC Charleston, ID 1120
 1049 KCKN 94.1 MO Kansas City, ID 700
 1052 WMAZ 99.1 GA Macon, ad 905
 1059 WSB 98.5 GA Atlanta, Id 880
 WBFM 98.1 SC Seneca, ID 980
 WCRS 96.7 SC Greenwood, ID 1010
 1100 MUF 107.9
 1121 WDEF 92.3 TN Chattanooga 865
 1129 WEDW 89.9 TN Chattanooga, wx
 1147 WKQQ 98.1 KY Lexington, Cincy bb ad
 1150 WEEF 94.3 TN Germantown, ad 640
 1151 WAKW 93.3 OH Cincinnati, ad 1035
 1152 WGGG 95.1 KY Glasgow, wx, ID 890
 1159 WJAP 94.5 KY Lexington, ID 995
 1200 WSLM 98.9 IN Salem, wx, ID 945
 1203 WFQQ 94.7 IN Indianapolis, ID 1035
 1205 WBKR 92.5 KY Owensboro, ads 865
 1230 WEMUT 89.1 MI Ypsilanti, MI sp. nx
 1253-1317 13 t's from Southern CA
 1320-1340 lull
 1345 KFSD 94.1 CA San Diego 1120
 others from S. D. (t) (6)
 1420 f/out

13
Es 0954 XEBSt 89.7 DF Mexico City 690
 XHQKt 91.3 DF " "
 0957 XHMT 88.9 DF
 1521 KXTZ 94.1 NV Henderson, ad 1040
 1527 KRQA 93.7 AZ Tucson, ID, rk 750
 1528 KKESt 96.1 AZ Tucson
 1529 KAIR 94.9 AZ Tucson, ad 750
 1536 KALJ 95.1 AZ Yuma, ID 970
 1538 KXTC 92.3 AZ Glendale, ad 840
 1543 KUAT 90.5 AZ Tucson, local disc. 750
 1550 KRPM 95.9 AZ Lake Havasu City,
 wx, ex call of 95.5, Phoenix 980
 1551 KKBK 98.7 AZ Phoenix, ID 835
 1555 KDKB 93.3 AZ Mesa, ID 820
 1556 KOOL 94.5 AZ Phoenix, nx 835
 1559 KQTT 95.5 AZ Phoenix, nx
 1605 KWAO 106.3 AZ Sun City, wx 850
 1608 KRHS 102.3 AZ Bullhead City, nx, wx
 1612 KMDX 99.3 AZ Parker, ads, ID 835
 1635 KMGR 91.5 AZ Phoenix, town ID 835
 1700 f/out

14
Es 2255-2320 9 t's from L. A. area
 2255 KLON 88.1 CA Long Beach, ID 1180
 2320 f/out (all had been very unstable)

15
Es 0829 KYYX 96.5 CA San Diego 1120
 KEZR 93.3 CA El Cajon, "Fam. Ra" 1100
 0830 XHFMt 92.5 BCN Tijuana 1100
 0833 KNOB 97.9 CA Long Beach 1180
 0839 KWST 105.9 CA Los Angeles, ID 1190
 0841 KLOS 95.5 CA " " , nx
 KMET 94.7 CA " " , ID
 KFSD 94.1 CA " " , ID
 0843 KROQt 106.7 CA Pasadena, rk 1185
 0845 KBBY 95.1 CA Ventura, ads, ID
 "K Baby"
 0847 KVIMt 93.7 CA Coachella, SS 1070
 0848 KWVE 107.9 CA San Clemente, ads, ID

0849 KOTe 106.3 CA Lancaster, psa, ID
 0851 KBCA 105.1 CA Los Angeles, ad 1190
 0854 KPRI 106.5 CA San Diego, town ID
 KFMB 100.7 CA San Diego, "B100" 1120
 0856 KGB 100.5 CA " " , ID
 0858 KDES 104.7 CA Palm Springs, ID 1090
 ---t104.1 CA Calexico, cx, ? 1020
 0902 KXK 93.1 CA Los Angeles, nx 1190
 0905 KPRA 92.5 CA Paso Robles, wx, town
 0906 KUSC 91.5 CA Los Angeles, nx 1190
 0912 KJOI 98.7 CA L. A. , ID

12 June
Es 0922 KPOL 93.9 CA Los Angeles, ID 1190
0923 KGAB 95.9 CA Camarillo, ad 1240
0937 KLDt 94.1 CA Bakersfield, K 1250
0945 f/out
1130-1135
XEBst 89.7 DF Mexico City 690
1500-1511 San Diego in, soon f/out

16
Es 1932 unid 89.1 brief

17
Es 1032 KILAT 95.5 NV Henderson, REL 1040
XHRmt 92.5 BCN Tijuana 1100
KFSdt 94.1 CA San Diego, cx 1120
1037 f/out

Mike Dalton, 1840 Drew St., Clearwater, FL 33515 April 13-May 24, 1978

13 April
tr 1201 WICF 92.7 FL Stuart
1215 WFYN 92.5 FL Key West, EZ
1219 unid 107.1 soft rock

23
tr 2040 WYVS 90.9 GA Valdosta, cw
5 May
tr 2145 KUHF 88.7 TX Houston
KPFT 90.1 TX Houston
2150 KRLY 93.7 TX Houston, ID, ads
2151 KLEF 94.5 TX Houston, cl
KLEL 95.1 TX Beaumont, spots, wx, rk

Several logged from AL, north FL
2220 KMCV 106.9 TX Houston, REL, ID
2232 KUFO 106.5 TX Galveston, cw, ID
2234 WJUD 106.3 MS Pascagoula, ID
2235 KIOC 106.1 TX Orange, "K106", ads
Stations from AL, LA, N. FL, MS-103-105
2300 KAJN 102.9 LA Crowley, REL, ID
2307 KMQJ 102.1 TX Houston, ads, "magic 102"
2309 WML 101.9 LA New Orleans, JZ-EZ
2320 WJAG 100.9 FL Marianna, "Q101"
2321 KILT 100.3 TX Houston
2321 WKRG 99.9 AL Mobile, "G-100", rk
2323 KODA 99.1 TX Houston, EZ
2325 WQMV? 98.7 MA Vicksburg, strong, rk

Fr. 0003 ESMB 94.5 LA Lafayette, "K94", rk
all the standard fare down to 88.7
1420 WNO 89.9 LA New Orleans
1427 WFDZ 93.3 GA Manchester
1427 WIZM 93.3 WI LaCrosse, "Z93", rk
1450 WKYQ 93.3 KY Paducah, ID, rk

12
Es WMBE 90.1 IL Chicago, REL, ID
1113 KUMR 88.5 MO Rolla, cl
1136 KEFR 88.9 TX Commerce
1143 KCMW 90.9 MO Warrensburg, MO wx
1147 ESMT 107.7 KS Topeka, "K-sweet"
1153 KAAM 107.1 AR Berryville, Am. nx
1150 KTPK 106.9 KS Topeka
1155 KFLA 106.5 MO Liberty, NBC, rk, nx
1215 KCAC 106.3 AR Walnut Ridge, ID
unid 106.3, Holy Roller Gospel
(sounds like KLOW, Hot Springs, AR, db)
1218 KLOQ 106.1 KS Lyons, wx, ID, rk
1222 KLWN 105.9 KS Lawrence, "106 Best Mx"
1226 KZNN 105.3 MO Rolla, Swap Shop
1230 KSPF 105.1 MO St. Joseph, rk, wx, ID
KTOF 104.5 IO Cedar Rapids, ads
1245 KVGB 104.3 MO Great Bend, ID, ads
(this one is from KS, not MO, Mike, db)
KBEQ 104.3 KS Kansas City, rk
1255 KLFM 104.1 IA Ames, "FM104"
1258 KJAN 103.7 IO Atlantic, ID, ads
1305 KMLL 102.9 MO Marshall, wx, nx
1310 KYSD 102.3 MO Waynesville, ad, wx, ID
Ms 1315 KEEY 103.1 MN Minneapolis-St. Paul
KY102 rk, ad

17
Es 1945 KEYU 88.9 UT Provo, ID 1045
2025 KUHO 93.3 UT Salt Lake City, r, wx, ID
2032 KSUB 92.5 UT Cedar City, wx, ID 1005
KALL 94.1 UT Salt Lake City, psa
2036 KNHSt 94.7 NV Carson City, REL 1370
2040-2105 lull
2105-2150 7 t's from LA and area, soon f/o

18
Es 0950 XHMT 88.9 DF Mexico City 690
1014 XEBst 89.7 DF Mexico City
1020 f/out
1145 WJLD 94.5 FL Daytona Beach, ID, EL
1147 WTLN 95.3 FL Apopka, REL 1040
*Pat's report cont. on last page of column....

12
Es 1330 KNHS 101.9 IO Waterloo, "FM102", REL
1345 KTR 101.7 IO Creston, rk, ID
1359 KAOL 101.1 MO Carrollton, UPI, rk, ID
1400 KLYF 100.3 IO Des Moines, EZ
1420 EGOR 99.9 NE Omaha, rk, TV ads
tr 1420 WKRG 99.9 AL Mobile
1420 KMRB 99.7 MO Kansas City, ID ads,
1427 KMQJ 98.7 MO Springfield, "Rock99"
1430 KXLO 98.3 AR Mountain Home, ads
1432 unid anybody heard of IBC rootbeer:
1434 KUDL 98.1 MO Kansas City, "FM98"
1441 KNCY 97.7 NB Nebraska City, cw, ads, wx
1454 WJWB 97.3 KS Topeka, rk, "Rock 97"
1456 KMRJ 96.9 KS Pittsburg, rk, wx, ID
1500 KATR 96.5 MO Kansas City
KRGJ 96.5 NE Grand Island
tr 1512 WJPR 96.1 AL Mobile

15
tr 0948 KUHF 88.7 TX Houston
KIEL 95.1 TX Beaumont, Tx nx
1000 KQKI 95.3 LA Bayou Vista, nx, ID
1004 KLIC 96.7 LA Morgan City, rk AP nx
1008 KCIL 107.1 LA Houma Swap Shop
1015 KROF 104.9 LA Abbeville, "FM96", ads
1020 KAJN 102.9 LA Crowley, REL
1045 KWIC 107.7 TX Beaumont, soul, ID
1024 KJEE 92.7 LA Jennings, "Cajun Ctry-KJEE"
1038 KILT 100.3 TX Houston, rk, "FM100"
1040 KMCV 106.9 TX Houston, REL, UPI nx
WFAM 102.3 MS Gulfport
1052 KMJQ 102.1 TX Clearlake-Houston
"Magic 102", rk
1101 KYND 92.5 TX Pasadena-Houston, EZ
WKEZ 105.3 LA Slidell, "K105"
1130 KUFO 106.5 TX Galveston
Fade out to more locals and long range
ground wave--fringe area TV (short range).

23
Es 1800 WRSU 88.7 NJ New Brunswick City, nx
1805 WWPt 90.3 CN West Port, nx, ID
1815 WUSB 90.3 NY Stony Brook, NY nx, JZ
1821 WJMT 88.9 CN Hartford
WJHU 88.7 CN West Haven, rk
1831 WPCR 88.5 MA Amherst
1825 WESU 88.1 CT Middletown
1829 WENP 88.1 NY Brookville, ID
1835 WYFZ 92.5 CN Waterbury-Hartford, rk
18-- WPAP 92.5 FL Panama City, cw, ID
18-- WKGC 90.7 FL Panama City, ID, cl
1846 WHRs 90.7 FL Boynton Beach (band dead
20 min. of activity 1907-1927 to TX

24
1021 WMPR 88.1 SC Sumter
WESU 90.1 AL Troy
1052 unid Rock Skyline Rest. 855-6761
1100 WMPR 107.5 SC St. George, rk, wx
1120 WDEn 105.3 GA Macon, ID
1126 WERY 107.9 GA Macon, EZ

The first part of the year has been abysmal. Overall results extremely disappointing for this time of year. No good tr across Gulf. We are eager for some long range DX over the summer; according to my predictions, this is the summer for California to get back across continent. We have been trying to capture stations in Oregon or Washington but so far no success; it's difficult considering all the stations in the midwest that we have to look through—some time it will happen! Hope all the DXers get their share and that we have a decent summer and fall. So far, it doesn't look encouraging. (I would feel lucky to have your "disappointing" conditions where I live. db)

Danny Buntin, 1020 S. Duncan, Stillwater OK, 6-12to7-10, 78 CDT 7A074

Equip: Pioneer TX-9100 tuner, Antennacraft 10 el. ant. 34 ft. up with rotor.

The first 13 days of June were completely dxless here at SFM headquarters which is almost something unheard of. Many other reporters fared little better during that period. I felt pretty shortchanged myself. However in the 2nd half of June things really picked up here. The 20th produced some very intense skip that stretched from Nebraska to Northern Oregon. Stations from Idaho and for a time the Salt Lake City area came in like locals and remarkably free almost. Getting Nebraska was the shortest skip I ever had. I know of only two other instances of closer E skip, one which can be found elsewhere in this column.

The tr on the 27th was real good. It was typical of a duct in which your fringe stations show little or no improvement. It's almost mid-July and no dx since the first, so it looks like this season is really having its ups and downs.

13 June	mi.	20 June	Es
tr 2158 KPLI 106.5 MO Liberty, talk show	255	0123 KUZZ 96.9 ID Nampa	
2206 KOIL 99.3 KS Iola, s/off	155	0124 KSKI 93.5 ID Sun Valley, ID, "Ski 93"	"
2232 KKBL 95.9 MO Monett, s/off	180	0131 KBOI 97.9 ID Boise, ID, EZ	1130
	other MO & KS also in	0133 KMFE 101.7 ID Emmet, nx	1160
15		0140 KIQO 96.1 OR Ontario, nx, ad	
Es 1029 WAFG 90.3 FL Ft. Lauderdale		0145 KADQ 94.3 ID Rexburg, ID	
Later that afternoon MI City was in.		0148 KDAB 101.1 UT Ogden	
18		0150 KRBU 104.9 ID Pocatello, ad, ID	950
Es 2110 KJOK 93.1 AZ Yuma, ID	965	0155 KICE 100.7 OR Bend, ad	1380
2115 KUAT 90.5 AZ Tucson	850	0207 KBLW 92.9 UT Ogden	910
2122 KNIX 102.5 AZ Phoenix, ID	895	also KODY 94.5 ND Bismark, "Cutty 94"	770
2124 KIOG 104.7 AZ Mesa, "FM 104"		at 1107 and KCIV 104.5 OR The Dalles,	1410
2128 KOOL 94.5 AZ Phoenix, "\$ Cool FM"		ID at 0200	
2137 KRBC 98.7 AZ Phoenix		2104 WAER 88.3 NY Syracuse, ID	1200
KRFM 95.5 AZ Phoenix		2145 CKO 99.1 ON Toronto, "all the nx	
2152 KRGO 93.7 AZ Tucson, rk		all the time"	
2216 KEZI 95.7 ID Twin Falls, "EZ 95", nx		other reregged freq. noticed but no	
2223 KMTW 96.5 ID Twin Falls, "K 96"		IDs before f/out	
2224 KSAX 98.3 ID Burley, ID			
20		23	
Es 1055 KDXY 93.3 MT Missoula	1150	tr 1900 KJLC 88.5 MO Kansas City, ID	
1107 KYSS 94.9 MT Missoula, nx, MT		tr 2256 KKLQ 98.1 MO St. Louis	410
employment report		2310 WKDD 99.5 KN Henderson, ID	
1114 KAKR 93.7 WA Spokane, ad, double X		2316 WUBE 105.1 OH Cincinnati, ID	740
radio time...	1310	2320 WITZ 104.7 IN Jasper, ID, rk	590
*115 KUFM 89.1 MT Missoula	1150	2325 WYER 94.9 IL Mt. Karmel, ID	535
27 KBLI 97.7 ID Blackfoot	960	2328 WJJC 89.1 IL Mt. Karmel, ID	
29 KBK? 92.3 ID Boise, all I could get		2335 WRXX 95.3 IL Centralia, ID, wx	470
out of this one "FM Magic 92", rk		0002 KKLF 105.1 AR Conway, s/off	275
141 KRBU 104.9 ID Pocatello, ID, ad 955		0009 WHKC 103.1 KY Henderson, ad	540
1149 KDAB 101.1 UT Ogden, rk	910	0023 EJMO 100.1 MO Jefferson City, ID	320
1154 KMTW 96.5 ID Twin Falls	1030	0026 KPMP 102.9 MO Cape Girardeau	425
1155 KISH 97.1 UT Salt Lake City, EZ		0100 WAHD 107.9 KN Ft. Gamble	325
"Kissing", EZ "	905	0105 WDDD 107.3 IL Marion, ID, wx	465
1158 KSL 100.3 UT	, nx	0119 WSLY 97.9 TN Nashville, wx	615
1201 KRSP 103.5 UT		0122 WSTO 96.1 KY Owensboro, wx, ID	560
1202 KCPX 98.7 UT		0124 WMIY 94.1 IL Mt. Vernon	455
KUER 90.1 UT		0128 WKOB 105.9 TN Nashville, nx	615
1205 KSID 95.3 NB Sidney, NU consumer pg.		0135 WIVK 107.7 TN Knoxville, wx, ID	
unusually short for skip	470	0150 WAKZ 101.1 KY Russellville	550
1220 KEMA? 102.9 ID Jerome, "your mx		"Rocking Stereo KQ101"	
connection", ad		0206 WERO 99.9 IL Harrisburg, ID, rk	
1222 KFAK 93.5 WY Riverton, mentioned		0210 WVHI 105.3 IN Evansville, wx	550
power outage and being back on air			
(state#43)		20	
1229 KONI 106.3 UT Spanish Fork		Es 1014 WGYL 93.5 FL Vero Beach	
KVMT 104.7 CO Vail, ad, (state#44)		1015 WGVU 94.5 FL Naples-Ft. Myers, ad, ID	
1238 KUPI 99.1 ID Idaho Falls		1028 WAFG 90.3 FL Ft. Lauderdale	
1247 KSJH 94.9 ID Pocatello, ad	950	1040 WATX 96.3 FL Miami, ad, "96X"	1230
1250 KVEL 92.7 UT Vernal	750	1046 WEAT 104.5 FL West Palm Beach, ID	
0100 KSAX 98.3 ID Burley	1000	1050 WATA 97.3 FL Miami, "A One Way", wx	
0106 KBUN 107.1 UT Brigham-City, nx	910	1059 WTLN 95.3 FL Apopka, ID, REL	
0112 KOPD 101.9 UT Ogden		1100 WINZ 94.9 FL Miami Beach, ID, ad	

30 June

Es 1103	WHLY	106.7	FL	Leesburg, ad	"Y 106"
1104	WYRL	102.3	FL	Melbourne, ID	cw
1107	WORS	107.7	FL	Mt. Dora-Orlando	
1110	WCHH	101.7	FL	Quincy, ad	
1111	WOKS	101.1	FL	Cocoa Beach	
1113	WQLY	98.7	FL	Pierce, ad	
1115	WFOY	97.7	FL	St. Augustine, ad	
1120	WPXE	106.3	FL	Starke, nx	
1126	WPMG	99.5	GA	Douglas, ad	
1128	WJIZ	96.3	GA	Albany, ad	
1130	WLGA	95.9	GA	Vadosta, ID, EZ	
1143	WXTG	96.9	SC	Charleston	
1156	WLOW	95.9	SC	Aiken	
1217	WKRX	96.7	NC	Roxboro, ID, cw	
1219	WQDN	97.7	NC	Kinston, ID	
1232	WGOR	97.5	VA	Norfolk, vx, "FM99"	
1234	WFXI	95.1	NC	Charleston:	

30

Es 1236	WRVQ	94.5	VA	Richmond vx, "Q 94"	
1237	WPVR	94.9	VA	Roanoke	
1241	WOPD	100.7	VA	Harrisonburg, ID	
1243	WVVR	98.1	VA	Richmond, ID, EZ	
1245	WTFX	107.1	VA	Appomattox, ad	
1248	WOLC	102.5	MD	Princess Ann, REL	
1250	WKWJ	101.7	VA	Kilmarnock, ID	
1253	WVVA	94.1	VA	Yorktown	
1257	WEGR	106.7	VA	Manassas-Fairfax, ID	
0100	WEXM	107.5	VA	Exmore	
	WRFK	106.5	VA	Richmond, ID	
0101	WJBR	99.5	DE	Wilmington, nx	
0102	WASH	97.1	DC	Washington, nx	
0106	WQMS	103.5	DC	" "	
0108	WMCQ	98.7	" "	" "	ID, cw
0115	WVNY	100.3	NJ	Newark, ID	
0124	WQXR	96.3	NY	New York, ID, ad, vx	
(Es) 1 1916	WAFG	90.3	FL	Pt. Lauderdale, ID	

Pat Dyer's report cont.:

18 June

Es 1159	WDBO	92.3	FL	Orlando, town ID	1035
1202	WELBt	105.9	FL	De Land	1040
1210	WQIK	99.1	FL	Jacksonville, ad	1015
1212	WAIV	96.9	FL	Jacksonville, ID	
1220	WFOYT	97.7	FL	St. Augustine, IL	1035
1230	WJNJ	104.9	FL	Atlantic Beach, ads, ID	
1232	MUF	107.3			
1235	WGLFt	104.1	FL	Tallahassee, ABC nx	
1240	WFTWt	99.3	FL	Fort Walton Beach	715
1252	WBGMT	98.9	FL	Tallahassee, EL	855
1340	WMPrt	88.1	SC	Sumter	1110
1345	WSCIt	89.3	SC	Charleston	1120
1350	f/out				
1812	KTAK	93.5	WY	Riverton, ads, vx, ID	
1815	EBVlt	94.7	CO	Boulder	820
1822	KIMN	98.5	CO	Denver, ID	810
				four others from Denver (t)	
1822	KVMnt	98.9	CO	Pueblo, EL	700
1828	KPIkt	93.9	CO	Colorado Springs, k	
1829	KRDO	95.1	CO	Colorado Springs	735
1837	KRAI	93.7	CO	Craig, area ads	910
1840	KVAH	92.1	CO	Salida, nx	750
1843	KTCL	93.3	CO	Fort Collins, ad	850

18

Es 1857	KGNU	88.5	CO	Boulder, jz, ID	8
1912	KREX	92.3	CO	Grand Junction, ID	8
1922	KSIH	94.9	ID	Postallo, ad	1
1924	KQJY	93.1	CO	Grand Junction, ads, ID, "Q-FM"	870
1926	KBYUt	88.9	UT	Provo, cx	1045
1933	KRSP	103.5	UT	Salt Lake City, ID	1080
1939	KLUBt	97.1	UT	" "	EL
	KURRt	90.1	UT	" "	
1945	KALL	94.1	UT	" "	Ad
2001	KGLS	92.7	CO	Glenwood Springs, EL	
2015	KSOP	104.3	UT	Salt Lake City, ID, k	
2022	KDAB	101.1	UT	Ogden, ID, "B-101"	
2034	KW288AD	105.5	UT	Hyton, recast KALL (other tent-translators on 105.5, 106.5, 106.5, 1080 miles)	
				2040-2050, with VOR's	
2053	KWHO	93.3	UT	Salt Lake City, ID	1080
2055	KMTWt	96.5	ID	Twin Falls	1265
2058	KRZJ	95.7	ID	Twin Falls, EL, ID	
2111	KCFX	98.7	UT	Salt Lake City, ad	1080
2115-2210				unids, mostly 88-94 range (not all of Pat's tents were included, db)	

Well, that's as far as I can get this time with the tapes. The June 18th opening, among other things, provided me with my 1000th FM station logged via Ex. It also produced some faint translator stations for the first time. A very long opening into the Utah area (reports of 144 MHz MUF in that direction) that night just stagnated there. The Es season a bit slow in getting started with only a couple of "super" days in May. Afternoon-evening of June 23 local KQKT, 101.9, was having serious transmitter problems. They had an intermittent spurious signal (with full modulation) at about 84.16 MHz. As the Ch. 6 video carrier is 83.25 you can imagine what that was doing to signals there on the TV. Later that night they ran a bunch of on/off tests and seem to have cured it. Hope the next report might be a little more current. 73, Pat WA51YX

CLOSING NOTE: Everybody, don't forget that August is a major month for meteor skip, db.
 + + + + +

STATION BREAK

Albert Lobel request DXers to send airchecks of their local FM stations (5 to 10 minutes) on either reel or cassette. Albert is trading them with the KZRWZ radio club in West Germany. Tapes of AM stations and TV audio are also welcome. Send the tapes to Albert at PO BOX 26762, San Diego CA 92126.

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

August 1978

Deadline: 5th

May E-skip dates:	2	4	10	12	13	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
# of reporters	1	1	2	6	1	5	1	3	5	3	1	5	10	2	1	2	4	8	7	8	5
reported MUF:	ch 2	4	4	FM	6	5	2	4	FM	3	4	3	FM	2	2	4	5	6	6	6	5

It has been a generally poor E-skip season for many DXers, especially those in northern locations. June skip activity was far below what most DXers were expecting, and certainly nothing like last year. The above Es chart for May shows that the early part of the season wasn't bad after all. In fact, the amount of reported activity looks pretty much like that of a "good" May. Although June was a general letdown, that month was not without its highlights, and perhaps not all of North America had below normal skip conditions.

There have been no reports of highband Es so far, but during a super opening on June 20th, the 2 meter amateur band (144-148 MHz) opened from Tennessee to New England. Activity was quite widespread and very intense that evening, so perhaps ch 7 Es was possible. Early indications are that June 30-July 1 was also a super period, with Es activity from the 30th lasting well into the early morning hours of July 1st.

Trope has been fair to excellent depending upon location. Super long haul conditions were observed especially around July 5th, 6th and 7th. Just as this is being prepared, DXers Peter Sawatzky, Bob Seybold, and Robert Goodman have informed this editor of the extent of the outstanding conditions. Long haul UHF and FM catches from southern Ontario and western New York to Illinois and Iowa have already taken place. We should see some interesting reports of "late summer" type conditions in early July in upcoming VUDs.

Thomas J. Fingling, Jr. 221 Pinewood Road Baltimore, Maryland 21222 (EST/EDT)

January 1978	12 Tr	2315	WTWG-68 NJ	31 Es	2030	KXJZ-4 ND
5 Tr 2100 WPHL-17* PA			Newark			Valley City
2130 WDCG-20* DC		2320	WJLU-47 NJ		2035	WCCO-4 MN
2140 WBOS-16* MD			WXTV-41 NJ		2100	KSTP-5 MN
2200 WLEE-15* PA		2330	WTKK-66 VA		2130	CKSO-5 OH? T
2210 W14AA-14* VA	May				2200	CBWCT-5 OH
2300 WKKR-16* PA	12 Es	1800	WEAR-3 FL			Ft Frances
1700 WERO-15* VA		1900	KATC-3 LA	June		
2000 WCCB-18* NC		1910	KTBS-3 LA	1 Es	2230	unID-3
"not a thing on TV"	19	1800	KATC-3 LA	6	1900	WRDX-3 FL
2130 WJHL-19* PA		1830	WLBT-3 MS		2020	KFDR-3 TX
2330 WSYR-18* NY		1900	WDBO-6 FL	20	1700	KTVO-3 IA
Kimira			WJXT-4 FL			KLNB-3 NE
			GMKJ-3 CUBA			to KMTV-3 NE
			WBDU-3 FL			WCWT-6 NE
			WISC-3 WI			WDAY-6 ND
			Madison		2300	KTIV-4 IA

April
6 Tr 1700 WTKK-66 VA 20 2000 WBDU-3 FL
Manassas 31 2000 WISC-3 WI
1 2000 WPMZ-69 PA Madison 2300 KTIV-4 IA

"I got some Es at last! One bad note is that my AC-4990 amp got filled with water in a week rain spell we had, and now I've got to get it fixed. I've got a under-tongue CMA-Ub on order; if they only get the power supply I can DX UHF again with some amp...I got some unusual DX on the UHF TV sound channels with my CYD-1430 antenna and Winegard AC-4990 amp plugged into my Bearcat-210 scanner...thanks a lot to Steve West for phone call about WTKK-66." Stations with an * were received audio only on the Bearcat 210 scanner.

Paul L. Gaines 15920 Puritan Street Detroit, Michigan 48227 (EST)	19 Tr	2344	WPBO-42 OH	25	24 Es	1019	WBUD-3 FL	1000
10 MS 0335 WCBS-2 NY 490	20 Es	1310	KATC-3 LA? T			1029	WEAR-3 FL? T	
11 Tr 0810 WICD-15 IL 305	23	1332	WEAR-3 FL? T			1031	WRBL-3 GA? T	
19 2314 W69AO-69 OH		1336	ICR6-5 CUBA			1041	WUFT-5 FL	905
Millersburg(WOUG)140		1337	WPTV-5 FL 1110			1100	WCTV-6 FL(GA)	
2318 W47AB-47 OH		1340	unID-6 NBC				Thomasville	805
Mansfield(WOSU)115		1343	WCIX-6 FL? T			1200	ICR6-5 CUBA? T	
2326 W65AB-65 OH		1345	unID-5 "Ind."				"TV CUBANA slide"	
Loudonville(WOUC)130		1357	unID-3 3/4 CH				1211 TVNational3 CUBA	

"I hope you people are doing better than we are here! Damn! This has been the worst DXing period I have seen, starting with last Fall--what is going on? Weather is something else...I have been lucky in getting some new ones...I can get to Erie most of the time but can't get to Buffalo, Rochester, or farther? Have seen Pittsburgh, Buffalo, Dayton, Cincinnati, Indianapolis, Chicago, etc., on VHF a few times--weak? Erie is best pick-up now. Cleveland strong as usual. Es hard to get IDed--so far most of them drift in & out!"

Bob Zent 1835 Fruit Street Huntington, Indiana 46750 (EST)

May 28 Tr 0735 CIOO28-28 ON 300 24 Es 1130 unID-4 NBC
 11 Tr 1730 WKMR-38 KY 215 0745 Erie U's 290 1140 KMOL-4 TX 1125
 22 0605 unID-68 TP N.R. Youngstown U's 1200 KACB-3 TX 1080
 CIOO28-18 ON 260 June 30 1600 WGBH-2 MA 740
 28 0735 CBLFTI-76 ON 300 24 Es 1100 WPBT-2 FL 1100 1729 WMAR-2 MD? T
 Chatham U's 200 WEDU-3 FL? T 1730 KYW-3 PA
 London U's 260 1130 KMID-2 TX 1150 Philadelphia 540

"Had to leave at 1750 (6-30). Arrived back about 2300, strong Es to ch 5.
 Have had very little time to DX during the past few weeks and thus have probably missed some nice openings. Hope the rest of you are doing better."

Robert Goodman 5129 W. Roosevelt Road Apt. B7 Cicero, Illinois 60650 (CLT)

"A couple of exciting DX experiences highlighted an otherwise dull May and June. May 25 was hot and smazey, but tropo was only slight. I once thought fog a sure indicator of tropo, but it's not so simple. Easterly and Milwaukee tropo became more common with the calendar's advance, but June 16 marked my first westerly tropo log of '78; now Rockford and Freeport are becoming commonplace. That night, the central Illinois weather radar picture was very cluttered, due to spurious ground returns of Barthward bent rays, I guess. That's how tropo causes some radar UFO targets. The low power of celebrated ma-and-pa station KYUS was able to override the signal from KDLO on 6/20 because the latter's very sharp-bent short hop probably attenuated the signal much more. While in phone contact with me, Dave Chamberlain blanked KYUS's picture briefly for me twice at 2055 for positive ID! He said they were due for a test. Can you imagine if a station in a major market winked for a DXer? And in this major market, meanwhile, WBBM-2 reported viewer complaints of CCI by what was said to be IDed as St Louis. That being super short for Es, I figured local viewers actually saw KTVQ-2 Billings MT, and mistook the call sign for KWTI, assuming a close source for the QRM. I hear I missed about 18 hours of great DX before my 6/30 tune-in. But were it not for Morrie Goldman's advice, I might have given up after the early eve Es fade, and missed the later skip and coincident tropo between two weather fronts."

May 16 Tr to WIFR-23 IL 30 Es 1630 unIDs 2, 3
 11 LS 1011 WBD-31 IL 120 Freeport 110 1730 WCIV-4 SC
 23 Es 1730 WEDU-3 FL 1000 2200 WREX-13 IL 80 Charleston 750
 unID-4 20 Es 2000 KDLO-3 SD 1828 unID-5
 31 2136 unIDs to ch 5 Watertown 550 Tr 2230 WMTV-15 WI 120
 2208 WFSB-3 CT unID-4 WRAU-19 IL
 Hartford 750 2030 KYUS-3 MT Peoria 120
 KYW-3 PA Miles City 950 WBD-31 IL 120
 Philadelphia 700 unID-3 WFFT-55 IL
 24 1230 unIDs 3, 4 Ft Wayne 140
 June 12 ?? 1030 unID 2, 3, 4 25 Tr p.m. WREX-13 IL Es 2230 WBR-3 FL
 15 ?? 1830 unIDs on 4 WFTV-17 IL Pensacola 800
 16 Tr 2110 WFTV-17 IL 26 p.m. WREX-13 IL 2359 KFDX-3 TX
 Rockford 80 WFTV-17 IL Wichita Falls 800

cero log totals to date: 9 locals, 1 semilocal, 3 LS, 31 Tr, 18 Es, 59 total
 tions, 15 states+province."

evin Shults R.R.#1 Toulon, Illinois 61483 (GDT)

June 18 Tr 0916 KBWA-41 MO 30 Tr 0828 WIKY-32 KY
 11 Es 1659 CJCH-5 MS Es 1229 CKCW-2 NB Es 1229 WESH-2 FL
 CBHD-3 MS 20 Tr 0620 WSAU-7 WI 1244 WTHS-2 FL
 1700 CBPT-2 QB? T 0625 WIKY-32 KY 1245 WBDU-3 FL
 1729 WGBH-2 MA Es 1226 KOAI-2 AZ 1259 WUFT-5 FL
 1730 WCBS-2 KY? T 1229 KENW-3 NM 1429 WUND-2 NC
 1731 WLBZ-2 ME 2059 CKCK-2 SK 1459 WCBZ-2 SC
 1759 CJER-3 QB 2129 XEPR-2 NL WCBS-5 SC
 1800 WCBS-2 NY 21 1030 KUTV-2 UT 1700 WCBS-2 NY
 1819 WCAX-3 VT 24 Tr 0612 KTVV-4 IA WUND-2 NC
 1900 WESV-3 VA Sioux City 1710 WFSB-3 CT
 Harrisonburg 27 0542 WTVW-7 IN 1730 WSYR or KYW-3?
 12 1759 WPTA-2 FL 0545 WIKY-32 KY
 16 Tr 1200 KMTG-27 MO Es? 0559 KIII-3 TX 1 Es 0030 WESH-2 FL
 1205 KOLR-10 MO 29 Tr 0229 KOLN-10 NE Tr 0930 WHAS-11 KY
 1230 KYTV-3 MO 30 0825 WFIE-14 IN Es 0959 KPRC-2 TX

"The logging of KIII-3 Corpus Christi was either the longest MS burst that I have ever recorded or the shortest Es opening that I have ever received. There seemed to be no other Es activity at the time. I was leisurely going for my camera when it dropped out--thought it was Es at the time. Qué sera sera."

William J. Draeb		Ellis St. R.R.#2		Kewaunee, Wisconsin		54216 (GDT)								
<u>April</u>														
4	Tr	2125	KIDL-30 MO 432	22	Tr	2237	WMUL-33 WV 498	6	Es	1740	KPRC-2 TX 1118			
			KMTC-27 MO 588	23		0715	Youngstown U's				WEAR-3 FL 986			
7		2000	KIDL-30 MO 432				WKYT-27 KY 473			1800	WKRQ-5 AL? T			
		2009	KHIN-36 IA 457				WJET-24 PA 405			1910	WEDU-3 FL 1192			
8		2010	WKYT-27 KY 473	25		2200	WKLB-46 KY 473				WTHS-2 FL? T			
			WXIX-19 OH 400				WKYT-27 KY 473				WTVJ-4 FL? T			
			WPBO-42 OH 461				WTVQ-62 KY 473			1300	KIII-3 TX 1295			
			WPTO-14 OH 365	26		2200	WPTO-14 OH 365			1322	KMOL-4 TX? T			
			Dayton U's 368				WKYT-27 KY 473			2105	KWAB-4 TX 1135			
			WKCF-22 O/WBSB	27	MS	2301	WCBD-2 SC 916			2120	WNL-4 LA 1028			
		2043	WMUL-33 WV 498				"under WBAY"			2125	WERZ-2 LA 1002			
			WCET-48 OH 400	28	Es	1910	WEDU-3 FL 1192			2138	KATC-3 LA 1026			
		2119	KIDL-30 MO 432			2050	KRTV-3 MT? T				"now on 1800" tower"			
		2256	WPMJ-21 OH 420				CERN-3 AT 1320	7		1105	KMID-2 TX 1176			
			WKBN-27 OH 420			2108	CFCN-4 AT 1310				KMOL-4 TX 1213			
12		1946	KIDL-30 MO 432			2120	CBXT or KPBB-5		Tr	0236	CKSO-5 ON 350			
13		2106	KIDL-30 MO 432				KXLF-4 MT 1219			11	Es	1731	CBHT-3 NS 11	
16		1914	KIDL-30 MO 432			2124	KID-3 ID 1214						CKOW-2 NB? T	
			WKYT-27 KY 473			2135	KTVM-6 MT? T						CJCH-5 NS 1	
22		0730	WFTU-30 IL 376	29		0842	WCBD-2 SC 916						CJCB-4 NS 1	
			"snow free"			0845	WCIV-4 SC 916						CBIT-5 NS 1	
			WLKY-32 KY 437			0847	WWAY-3 NC 882			1744	CHAU-5 QB? T			
			WDRB-41 KY 437			0901	WJXT-4 FL 1039			1752	WGBH-2 MA 830			
23	Es	0847	WCBD-2 SC 916				WFTV-2 FL 1368			1755	WCAX-3 VT 703			
			WCIV-4 SC 916				WRBL-3 GA 853			1840	CKBL-6 QB? T			
24	Tr	2013	KIDL-30 MO 432			0915	WESH-2 FL 1130			1900	WBZ-4 MA 830			
27		0630	WBHT-25 IN 420			0930	WERT-2 LA 1002							
		0733	WVUT-22 IN 405			1031	WEDU-3 FL 1192			1930	WCBS-2 NY 740			
						1150	WDIQ-2 AL? T				WNBC-4 NY 740			
<u>May</u>						1650	WTVJ-4 AL 934				WNEW-5 NY 740			
10	Es	1230	KID-3 ID 1214				WSB-2 GA 768				KYW-3 PA 705			
			KXLF-4 MT 1219				WEDU-3 FL 1192				WHSV-3 VA? T			
12		1230	KACB-3 TX 1143	30		0840	WTVJ-4 FL 1368				WFSB-3 CT? T			
		1237	KOBT-3 OK? T			1230	WTVJ-4 FL 1368				1941	WPVI-6 PA 705		
		1250	KPDX-3 TX 945				WTHS-2 FL 1368				1945	WTAR-3 VA? T		
		1300	KENW-3 NM 1105			1235	WTVJ-4 AL 934			1948	WTVJ-4 FL 1368			
			KMID-2 TX 1176			1242	WRBL-3 GA 853				WTHS-2 FL 1368			
		1330	KBTX-3 TX 1079				WDIQ-2 AL 925			1953	WPTV-5 FL 1305			
		1400	KMOL-4 TX 1213				WPTV-5 FL 1305				WDBO-6 FL 1164			
			KENS-5 TX? T				WUFT-5 FL 1071				2015	WJXT-4 FL 1039		
			KATC-3 LA 1026				WESH-2 FL 1130				2110	KTWO-2 WY? T		
16		2055	WEDU-3 FL 1192			1315	WCBD-2 SC 916				2130	KOBT-3 OK		
17	Tr	0814	KIDL-30 MO 432			1322	WJXT-4 FL 1039			12	1030	BuFaula	786	
21		2000	KIDL-30 MO 432			1328	WSAV-3 GA 933					KOTV-6 OK? T		
			WKYT-27 KY 473			1423	WRBL-3 GA 853					KTEW-2 OK 725		
			WKSO-29 KY 538			2145	WCBS-2 NY 740				1100	KPDX-3 TX 945		
		2014	WMUL-33 WV 498				WNBC-4 NY 740				1730	WESH-2 FL 1130		
			WOSU-34 OH 395				WNEW-5 NY 740					WCBD-2 SC 916		
			WPBO-42 OH 461				WFSB-3 CT? T					WCIV-4 SC 916		
			WKLB-46 KY 473				WBZ-4 MA? T					WCSC-5 SC 916		
			WLKY-32 KY 437				WGBH-2 MA? T					WEDU-3 FL 1192		
		2036	WFTU-30 IL 376				WCVB-5 MA? T					1750	CJCB-4 NS? T	
			WDRB-41 KY 437			2202	WMAR-2 MD 665					1815	KATC-3 LA 1026	
			Youngstown U's				WTAR-3 VA 785					1830	WRBL-3 GA 853	
			WKCF-15 KY 437				KYW-3 PA? T					1900	WTHS-2 FL 1368	
		2110	WKZT-23 KY 437			2208	WRC-4 DC 650					0910	WTHS-2 FL? T	
		2119	WCBT-48 OH 400			2225	WHSV-3 VA? T			16			KETS-2 AR? T	
		2145	KHIN-36 IA 457										WCBD-2 SC 916	
		2227	WPWO-2 IN 348										2020	KMID-2 TX? T
			WBAK-38 IN 348											
		2330	WPGH-53 PA 480			2136	CJCB-4 NS? T			17		0105	CKBI-3-4 SK	
			WTVQ-62 KY 473			5	1950	WRBL-3 GA? T					CKBI-5 SK	
		2347	WAKR-23 OH 380				WEDU-3 FL 1192						CBWFT-3 MB? T	
			WJET-24 PA 405			2000	KPDX-3 TX 945						CBWFT-1-6 MB? T	
22		0613	CBLETT9-68 ON				KMID-2 TX 1176					0120	CBXAT-2 AT? T	
			Sarnia 292			2010	KACB-3 TX 1143						CKSA-2 AT 1175	
		2039	WKYT-27 KY 473	6		1730	KMID-2 TX 1176						CITL-4 AT 1175	
			WTVQ-62 KY 473				KACB-3 TX 1143			0125			CFQC-2-6 SK? T	
			WKSO-29 KY 538				KWAB-4 TX 1135						CFQC-1-3 SK? T	

John F. Combs (continued)

May	24 Tr	...	in all day...	30 Tr	0924	WDHN-18 AL	301
25 Tr	1628	WCBD-2 SC	306		Es	0930	CKCC-2 ON 1133
	1628	WITV-7 SC	309			1014	CKVR-3 ON? T
Es	1824	WFSE-3 CP?	T			1015+	"assorted U.S. unIDs"
	"plus many unIDs--- had to leave @ 1833"						
Tr	2110	WEBA-14 SC	320	25		1030-1130	"I'm away"
		WLTX-19 SC	392			1130	KFTV-4 IA? T
		"ex-WNOX"					
	2113	WATU-26 SC	337			1136	KQTV-2 MO? T
		WCBS-20 GA	329			1140	WCIA-3 IL 951
	2129	WRLE-35 SC	385			1149	KTVO-3 MO 1139
	2130	WRDW-12 SC	337			1150	KFTV-3 MO? T
	2138	WIS-10 SC	387			1151	WBBF-4 IL 1019
		WJBF-6 SC				1201	WOI-5 IA 1145
		Augusta GA	337	26		1220-1255	"I'm away"
	2205	WOLO-25 SC	380			1255	WWJ-4 MI 968
	2234	WRJA-27 SC	373				WMLJ-4 WI? T
	2240	WCCB-18 NC	465	28		1257	WCCO-4 MN
	2242	WRBT-36 NC	465				Minneapolis 1350
	2300	"to bed..."					
24	0632	WLTX-19 SC	392	Es	1559	WBZ-4 MA	1100
		WOLO-25 SC	380			1600+	"Canada unIDs"
		WCCB-18 NC	465			1820	WKYC-3 OH? T
		WRBT-36 NC	465			2325	"Es still in, went to bed; little time to watch..."
0656		WCIV-4 SC	309			1543	KTVO-3 MO 1039
		WBTW-13 SC	408				KDFW-4 TX? T
0700		WITV-7 SC	309	29			"*many unIDs; no time to watch..."
		SC ETW 14, 27, 29, 33					
	0900	"had to leave"					
		WRDU-28 NC	523	30 Tr	0653	WITV-7 SC	309
		WNSC-30 SC	433			WCIV-4 SC	309
	"Charleston 2, 4, 7						

"Charleston SC signals in continuously from 1628 on 5-23 to about 1200 on 5-25-- almost 2 days of continuous reception--WCIV-4 often had a watchable, strong signal in mid-afternoon on the 24th--quite an inversion!!"

Jim Alexander 4 Brook Court Parsippany, New Jersey 07054 (EDT)

June	12 Es	1730	WBIQ-2 AL	14 Es	1800	GJON-4 NF	
11 Es	2000	KARD-3 KS				Grand Falls	
Tr	2000	WMEG-26 ME	270			"HUF 6"	
	2320	WCVW-57 VA	275	14	1730	GJAP-3 NF	
		Richmond			24	1030	WFBT-2 FL
							WPTV-5 FL

12 Es 1725 WRDU-3 FL
"The ch 3 from Newfoundland with the ch 5 ID slide was in at 1800 on 6/14; WTFDA station guide lists CBYT-3 Port Aux Basques, which is .47 kw ERP!! Have been logging those low-power CBC relays from Newfoundland tentatively for years now, but never got anything as definite as this pointing to the lower power one of the two!!"

Mark L. Lewis 701-345 Waverley Street Ottawa, Ontario K2P 0W4

"As far as DXing goes, I seldom have the opportunity. I am still only equipped for FM and UHF. The 5' dish is atop a 20' tower which in turn is atop this 7 storey building. The Blonder-Tongue CMA-Ub works well especially on translators. A while ago, I suspected that WZLZ-22 Burlington VT could be received via xlters, so I wrote to the station. I had been getting occasional reception from W60AF at Malone NY. It is about 1 kw at about 80 miles. The translator often received and rebroadcast CKGN-22 Uxbridge. They have changed the feed antenna since my letter. The Chief Engineer alerted me to 100 watt W66## on Lion Mt. which is about 110 air miles from here. WCFE-57 also shares that site. W66## has terrific audio, with fair video all of the time. There is overload when CIVO-30 is on the air however. The colour fidelity on W66## isn't too great, but 100 watts at 110 miles isn't bad. I just wish I had more tower space so I could erect VHF antennas. This building has a modest MATV system which I use for WNNY-7. CATV microwaves the Rochester V's from a pick-up point near Deseronto on the CJOH-6 tower; I use CATV for pleasure viewing. It appears that we're in for some tropo...WNNY has improved to "studio quality"...Toronto chs 19, 22, 25 are out of snow. CITY-79 is snowy and in colour despite the fact that the CMA-Ub is not designed for ch 79. I am also getting ch 6 audio from CBMT Montreal right through CKGN-6 here in Ottawa...now that's tropo!"

Doug Long 5062 Drummond Road Niagara Falls, Ontario L2E 6B4 (EDF)

"The following is my log for the last few months. Loggings on a Panasonic 150 10" and RCA 26"...ChannelMaster antenna:"

Month	Time	Call	Power	Frequency	Notes		
May	23 Tr 0800	WFMJ-21 OH	150	0802	WNPE-16 NY 170		
		Youngstown		0802	WUTR-20 NY 180		
	0809	WKBN-27 OH	150	0803	WAKR-23 OH 185		
		Youngstown		0820	WYFI-25 MI		
	Es 1610	unID-3		0821	Saginaw unID-27		
		"Mexican TP"			"WNED xltr?"		
24 Tr 2100	WPSX-3 PA 150	28 Es 1500	KBPX-3 TX 1370		Rivière-au-Tonnerre		
	WKYC-3 OH 165	1530	KFDX-3 TX 1220	12	1840	WBAR-3 FL 980	
25 0800	WVIZ-25 OH 165	2150	KGLO-3 IA		0935	WVAY-3 NC 600	
0802	WCKT-24 NY		Mason City 760		1130	KLNB-3 NE 1070	
0810	WUTR-20 NY	2200	KLNB-3 NE 1075	14	1030	KTVS-3 CO 1250	
	Utica	180 30	WEDU-3 FL 1065		1059	KLNB-3 NE 1070	
0820	WJKW-8 OH 160	31	2200	WVAY-3 NC	1100	CSFWPT-3 MB 1000	
	CKWS-11 OH		Wilmington 600	16	1230	KFDX-3 TX 1220	
	Kingston	145	2300	KMTV-3 NE 875	1300	KOBT-3 OK	
	"finally"		2320	KARD-3 KS 1030		Sufaula 1100	
0822	WBNY-36 NY 130		2330	KUSD-2 SD? T	18 Tr 2300	WXYZ-7 MI? T	
2100	WAKR-23 OH	June 6 Tr	0812	WBGU-57 OH 260	19	0105	CBOT-4 ON 240
	Akron	185	0810	WVIZ-25 OH 165		0109	WWJ-4 MI 205
	2130	W72A-72 PA 150	7	0820	WUAB-43 OH 185		
	2330	WUAB-43 OH 185					

"Overall a very interesting month. The skip season is well established and Atlantic skip was seen on the 11th. There has been a distinct lack of long distance tropo. I'm hoping to log a few stations in the 600 mile range by the end of the summer. By the way, CJER Rimouski has changed call to CJBRF."

William R. Hepburn 5659 Highland Avenue Niagara Falls, Ontario L2G 4X2

Month	Time	Call	Power	Frequency	Notes	
January 1978 (BST)	23 Tr 0725	WBJA-34 NY? T	30 Tr 0752	WNBO-45 OH 175		
2 Au 2000	unID-6	0827	WUTR-20 NY 185	Es 1252	WUB-43 OH 185	
15 Es?	"weak, ch 2"		WNPE-16 NY 175		Atlanta 710	
21 Au	unID-5,6; hash 2-6	Es 1545	unID 2,3 MUF:5		WRHL-3 GA 820	
29	unID-5,6; hash 2-6	1900	WBRZ-2 LA 1125		MUF: 5	
February			WRAR-3 FL 1010			
5 Au	unIDs to ch 6	24 Tr 0743	unID-27	June 9 Es 1837	WBRZ-2 LA 1125	
16 Au?	unIDs 5,6 GCI	0747	CBOT-4 ON 230		MUF: 4	
24 Es	"evening--unIDs 2,3"	Es 1200	"weak ch 2"	Tr 2108	WUAB-43 OH 185	
March		25 Tr 0730	WVIZ-25 OH 175	10 Es "weak ch 2"		
3 Es	2000 "weak ch 2"	0740	WAKR-23 OH 180	11	1056	unIDs 2-5
4	1200 "weak ch 2"	0800	WNPR-16 NY 175		1735	CBHT-3 NS 770
9 Tr	0800 WYFI-25 MI 230		WUTR-20 NY 185		1735	WRAR-3 FL 1010
all		2002	WVIZ-25 OH 175		1831	"Quebec-3"
Es	1435 unIDs 2, 3	26 0834	WAKR-23 OH 180		1856	WVAY-3 NC
Y (EDF rest of report)		1804	unID-10 S.W.			Wilmington 630
Es	2010 "weak ch 2"	Es 1846	"weak ch 2"		1932	WRHL-3 GA? T
J	1922 unIDs 3,4; MUF:6	Tr 2040	WUAB-43 OH 185		1950	WSB-2 GA 710
Tr	2030 WUAB-43 OH 185	2312	WAKR-23 OH 180		1955	KTVS-3 LA
	WGPR-62 MI 200		WVIZ-25 OH 175			Sireveport1100
22 0730	WUTR-20 NY 185	27 0710	CBOT-4 ON 230	13	1942	"weak ch 2,3"
	Youngstown U's	0801	WFMJ-21 OH 155	14	1007	KLNB-3 NE 1080
	WVIZ-25 OH 175		WKBW-27 OH 155			MUF: 6
0740	WAKR-23 OH 180	0842	CBOT-9 ON 200		1029	KTVS-3 CO 1250
	CRCCV-42 ON 150		WGPR-62 MI 200			KCKT-2 KS 950
0816	WNPE-16 NY 175	0913	WUTR-20 NY 185		1459	WEDU-3 FL 1090
	unID-53 ABC E.	Es 1223	unID 2-5 S.W.		1852	unID-2 "CKCW?"
	"translator?"	Tr 2127	WUAB-43 OH 185	15		"weak chs 2-4"
	unID-62 E.	28 Es 1429	MUF to ch 6	16	1210	unIDs 2-4 N.E.
0824	unIDs 25,26 E.		1608	KFDX-3 TX 1230	17	"weak ch 2"
Es 1812	"weak ch 2,3"	29	1240	MUF ch 6	18	"weak ch 2"
23 Tr 0725	WFMJ-21 OH 155	30 Tr 0719	CBOT-4 ON 230	19		"weak ch 2, 3"
	WKBN-27 OH? T					

Equipment includes Delhi combination 32-element VHF/30 element UHF antenna, Superior SAR-820 rotor. "The 1978 E-skip season sure doesn't look like it'll be as good as 1977...only notable feature has been that the skip has come in from several directions at a time. A good example was June 14th...I'm all ready for the 1978 tropo season and hope that it will be better than 1977. More of the 1976 tropo is needed."



MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 10th

New Members:

Arthur Amorin	1975A Kalawi Drive	Wailuku, HI 96793
Peter Baskind	603 Enger Drive	Pascagoula, MS 39567
Tim Cronin	7500 W. 111th St.	Worth, IL 60482
Robert Dally, Jr.	6225 Diana Drive	Poland, OH 44514
Marc Ditz	1603 W. Springfield	Champaign, IL 61820
Jack Faulkner	233 E. Division	Rockford, MI 49341
Lawrence Glass	Hidden Valley Ranch P.O. Box 62	Mad River, CA 95552
George Jensen	4604 Anntana Ave.	Baltimore, MD 21206
Carl McCallum	918 Rosewood Ave.	Wasco, CA 93280
Takahito Miki	Japan BCL Federation, SF UNI Roppongi Bldg., 7-15-17 Roppongi-Minato- ku	Tokyo 106, JAPAN

David Olday	Dept. of Sociology, Moorhead State Univ.	Moorhead, MN 56560
Scott Spalding	1360 Apple Way	Ashland, OR 97520
Tex Stout	9224 Pagoda	Louisville, KY 40229

Renewals:

Richard Clark, Don Davis, John Ebeling, Ron Ginardi, Chris Landon, Michael Lapinski, Nick Lombardi, Mark Lucas, Fred McCormack, Jr., Lowell McCown, K. Noffsinger, John Pilger, Peter Skinner, Ralph Strobel, Robert Williams, Mel Wilson, Ron Wing.

Rejoins:

John Basehore-603 Shepherdstown Road-Mechanicsburg, PA 17055
James Brann-135 Windsor Circle-Chapel Hill, NC 27514
Ron Schatz-5651 S.W. 2 Ct. (106)-Margate, FL 33068

Address Changes:

Michael Lapinski-RD #2, Palm Road Ext.-Jamestown, NY 14701
Joseph Markewicz-1394 Elgin Ave. W.-Winnipeg, MB R3E 1B6
George Matyaszek-3233 W. LeMoyne St.-Chicago, IL 60651
David Nordmann-1110 Ralph Tr.-St. Louis, MO 63117
Peter Skinner-Box 17-Newton Upper Falls, MA 02164
James J. Wallace-3786 Quince Drive, Apt. E-Columbus, OH 43228

Renewals Due in September:

John Anderson, Mark Bailey, Albert J. Bernard, Mike Bugaj, Felix Collier, Bill Dulmage, James Filler, Robert Fischer, James Gould, George Greene, John Guiney, Glenn Hauser, Adam Horniak, Ed Kowalski, Dan Krause, Paul Krueger, Bill Mitchell, Wayne Murphy, Kurt Nelson, W. Ryan, Peter Sawatzky, Mike Scheel, Randy Schnepf, Richard Segalas, Edward Sirovy, Andrew Smith, John Walters, Larry Weil, Michael Wimer.

From the 50th state comes accountant ARTHUR AMORIN. His interests include FM and TV, and he DXs with a Panasonic RF-1700. Arthur learned of the club through ANARC.

The membership of PETER BASKIND is a birthday present from his brother Chris. His DX gear includes a Sears 19" B&W TV, a Realistic scanner, and a bowtie for UHF and rabbit ears for VHF. Peter is also a member of the Dixieland DX Club.

TIM CRONIN says he's known about the club for years and finally got around to joining...and we're glad he did! Tim is a 21 year old sportswriter for the Daily Southtown Economist in the Chicago suburbs. Tim's equipment is a Sony Trinitron color TV, with rabbit ears. He's into BCB, SW, and TV DX, and is a member of IRCA.

Joining us from the ranks of NRC and IRCA is JACK FAULKNER. His DX shack features a Sony TFM-9200W, Sony and Zenith TVs, and a Channel Master #6255 portable (sic).

New member GEORGE JENSEN is the former election committee chairman for IRCA. He's a 37 year old teacher who also belongs to NRC.

Wasco, California, native CARL MCCALLUM learned about WTFDA in a magazine ad. He has a Regency touch scanner, a Sherwood S-7310, and a Sylvania TV. He's a fire fighter who's interested in PSB, TV, and FM.

College prof DAVID OLDAY writes: "I recently became aware of the existence of WTFDA as the result of flipping through the "FM Atlas and Station Directory" compiled by Bruce Elving (5th ed.). As I'm very much interested in long distance FM reception and certain reception problems associated with commercial FM outdoor antennas, I'd like to join the association." Glad you're with us, David!

Editor Frank Aden helped get SCOTT SPALDING into the club. Scott is an 18 year old student who's into FM and BCB DX. He's also a member of IRCA. Scott's DX gear includes a Marantz 2220-8 and a 54" aluminum dipole antenna. More from Scott in Tidbits.

From convention city comes TEX STOUT. He's also a SW and BCB DXer, and has been working TV DX for two years. Tex also belongs to the NRC, which is headquartered in Louisville.

Tidbits.....

As promised, these words from Scott Spalding: "I am a radio enthusiast. I have been for 6 years or so now. My interest started as a love for music, then an interest in hi-fi stereo, then radio, then AM DX, now on to bigger and better things - FM DX. Since there are so many FM stations to DX, I really have no plans to start DX on TV until maybe later on in life. I'll try to keep everything going with IRCA and AM DX because it'll always be great, but I find FM DX to be much more of a challenge and much more exciting/fun to do. I'm already into FM DX fully once again, and this year seems different than last year in 2 respects: 1) E-skips aren't as frequent, and 2) the skips seem to be in the morning more than at night. So far, I've logged 5 stations this year. As I improve equipment slowly, I should be able to log more stations. But I sure enjoy DXing, mainly so I can hear and study different stations and different FM markets."

We also have a few comments from new member Tex Stout: "I am already a TV DXer. I have logged 57 stations so far and have verified Colorado, Florida, and Montana. I have photographed a few." Tex also says that 6/24/78 was a good skip day for him.

Mark Lucas agrees with our FCC FM editor: "I wholeheartedly back Bruce Elving's SCA fight. Must be a lot of nervous broadcasters whose only concern is that they maintain good ratings and sales dollars and pooh-pooh the public! I've enjoyed SCA listening for five years and don't like the idea that it could come to an end!! Maybe American SCA should become like Canada's and have more "formats" that cater to the general public and not just music."

The following are the views of Ted Fleischaker, and do not necessarily reflect those of WTFDA's board of directors: "I rarely take exception to what I read in the DX magazines, but in the June edition of this magazine an article so caught my attention that I read it about as fast as I could turn the page--and I disagreed with about every line. The article I refer to is Mike Dalton's 'Why DXers Should Use Digital Readout FM Tuning System'. Mike and I agree on just two points--the digital readouts are nice and the synthesized units do have a small drawback because you can't tune off center channel. As a recent buyer of the Heathkit AJ-1510 (I bought one factory assembled, lest anyone get any ideas about my ability to build such sets!), I can say that the rest of Mike's observations are so much baloney! The AJ-1510 is a synthesized set and it is operated with a keyboard, as opposed to the front-end tuning capacitor. One merely punches the frequency of the station desired, much as punching the monthly checking account total into a calculator, and the frequency is displayed at the same time the station is there. As opposed to the old fashioned way, the keyboard has no flywheels and no time to turn a knob--you know what you want and it appears. Also, this particular model has a scan feature with adjustable squelch and muting (one for noise limit and one for AGC). This allows a DXer to merely hit the scanning function and the set will begin at 107.9 and scan down, stopping at each frequency the DXer selects with a signal of the strength the DXer chooses. I emphasize this last point because were it not possible to adjust the set to the strength minimum, many stations would be passed, but with this adjustment the DXer is at the controls and not the tuner! This also allows the DXer when not DXing to raise the acceptable noise gate and receive good, listenable stations with ease. The AJ-1510 also has a stereo only switch, which is a good thing. The button tells the set to pass by frequencies with mono stations if the DXer so chooses. Start scanning with stereo "in" and have the set adjusted and you can tell if that 101.5 station is a new one if it's in stereo and the set usually passes the mono semi-local there! There are some drawbacks to this digital marvel, such as it won't tune the even frequencies, but unless you happen to be one of the DXers near the Gulf, you probably will never have need for that feature anyway, so why sweat it? The set also is unable to tune to the TV frequency for channel 6 audio, which is sometimes a help, but these facts are more than offset by the advantages mentioned for a synthesized real digital unit.

In addition, the AJ-1510 also has a switchable meter, which will read either signal or multipath, which is a real asset when you have 2 close-by stations which seem to override some signals and not others from afar. These facts, plus the reliable FM tuners Heathkit is known for, make this set a bargain--they also make this the obvious choice over a standard front-end tuning model, especially if you not only want to see a readout, but be sure your tuner is on the frequency that it is reading!" (Ted's address, by the way, is 3023 Tremont Drive, Louisville, KY 40205-jz)

Here's a few comments from Jim Wallace (new address on page 3): "Any reception reports to WSYX (London, OH) should be addressed to me personally, because if anyone else at the station should open one, it would probably get tossed into the can. Reports sent to my home address would be fine also. Some other news about WSYX: It is being sold, pending FCC approval, to King's Garden Inc., which operates KCDN (AM) and KBIQ (FM) in Edmonds, Washington. They are hoping to take over by September. The format will probably be the same as KBIQ. The signal should be better, because they plan to fix up and/or replace some of the equipment. I'm hoping to stay on as news director."

Phil Bytheway (9722 Mary Ave. NW, Seattle, WA 98117) wants to know if anyone is willing to part with their old copies of the VUD, or will photocopy them for him. If interested, drop him a line.

Member Roosevelt Crawford has moved to Germany. His new address is HHB, 2d Bn 59th ADA-APO New York, NY 09142. He writes: "I am now stationed in Schwabach, FRG W. Germany, which is about 23 km SE of Nuernberg. I will have to be here for at least 32 more months. I received AFN-FM Stuttgart and only one other weak unID AFN-FM repeater my first month here. Since then I have heard NO English spoken at all on FM. I don't speak German, so I'm stuck with AM (yuck) or nothing."

Now some welcome info from John Pilger: "I am currently a program associate with the American Heart Association in Washington, D.C., and as such am in charge of the emergency cardiac care programs. I am a certified paramedic, and spend much of my listening time on the paramedic frequencies (UHF). Before moving to Washington, I was on the news staff of KTAN-AM-FM, Sierra Vista, Arizona (which has since been sold with a pending/actual call sign change) and also served as a newsman with cable TV channel 7, also in Sierra Vista. My monitoring gear is aimed at the PSB: Regency ACT-W10 with two DFS5K synthesizers, a six channel Regency TML and a six channel Regency TMH, a Radio Shack four channel mobile high/low VHF unit, a Bearcat 101, a couple of tube-type tuneable VHF units which are quite old, and finally, a Bearcat 250 - on order but not yet delivered. While I have a few various antennae on my car for the monitors, at home I rely primarily on an Antenna Specialists ground plane cut for 155.00 MHz and one for 466.00 MHz. All of this is mounted on a 20' (soon to be 40') mast, and run in via RG8. I am most interested in monitoring medical frequencies, but living where I do (mid-point between Washington and Baltimore) I have been caught up in DXing federal agencies. I have accumulated an extensive personal file on all types of frequencies (including federal agencies) and would be happy to correspond with others to exchange this information. (I have already met with Don Blevins on this.) I am interested in getting specific frequency use data on medical, fire, and federal agencies from around the country. If anyone is planning a trip to the DC area, I have a one page information sheet of local frequencies I will be happy to send out, providing the WTFDA member sends me a SASE. The list is not complete by any means, but it does list some of the more interesting things to be picked up on a scanner. (I would appreciate it if, when requesting the information sheet, the member send me some local information from his/her area - but that isn't mandatory.) All requests for the frequency sheet should be addressed to John A. Pilger, WTFDA Radio Sheet, P.O. Box 109, Fort Meade, MD 20755."

Good to have Ron Schatz back in the club. Ron is a noted BCB DXer who now belongs to NRC. His DX gear includes a Harmon Kardon 330C for FM. Ron's DX interests include FM, TV, and of course, BCB. He attended the West Palm Beach convention in 1975, which was hosted by Ken Simon.

And finally, this from Winston Smith (4 Rifle Road, Norman Gardens, Kingston 2, Jamaica): "I am sure that you do not hear very often from people outside of continental North America. DXing potentials are so very limited in some regions like mine. Here I occasionally see stations from the Gulf states and Florida. I have not seen any of my Latin neighbours so far this year. I would appreciate a card from anyone who can tell me where I can obtain a CATV Journal and a TVRO planning book; both books were mentioned in Bob Cooper's interesting article in December 1977 VUD. I would also welcome any additional information on TVRO satellite terminals. My philosophy is that the best way to learn is from the experienced (hi)." (try writing to Bob Cooper at Route 5, Box 782, Guthrie, OK 73044-jz).

See y'all next month.....73.....jz

Contributions welcomed, but cannot always be acknowledged. Tapes, pictures and articles can be sent but will not be returned without return postage.

New Stations Granted

AK Anchorage *103.1 3000 h.v.; -260' Aurora Community radio
CA Nevada City KWMR *89.5 Victor. Museum
CA Ridgecrest 104.9 750 h.v.; 1'; m
CA Santa Rosa *91.9 250 h.v.; 1060'; g **KCLB**
CA Stockton 100.1 3000 h.v.; 240'; cock
CO Pueblo 107.1 3000 h.v.; 77' Spanish-Latin
ID Salmon 92.7 1800 h.v.; -1235'; s
IL Galesburg 92.7 3000 h.v.; 300'; r
IA Waterloo *86.1 10; Afro-American; s
KS Holsington 100.9 3000 h.v.; 300'; m
KS Liberal KEZS 105.5 3000 (h); 185'
MI Gladwin 3000 h.v.; 150'; m
MN Morris K257AH *99.3 \$ c [KSJR *90.1
Collegeville MN translator] 10 watts; P
MO Marshfield KEMM-FM 104.9 3000 h.v.; 120'
NE Ogalala 92.7 3000 h.v.; 295'; m, l.
NY Houghton (42-25-43; 78-09-07) *90.3; 10
NY Jamestown *91.5 10 watts
OK Bristol 104.9 3000 h.v.; 300'; k
OK Pauls Valley 97.7 2475 h.v.; 303'; m
OR Hood River 105.5 3000 h.v.; -460'
PA Media 100.3 50000 h.v.; 500'; restoring
of previous initial decision (Harrisburg)
PA Middletown *91.1 10 schools (SE of /
RI Coventry (41-41-10; 71-35-37) *91.5 10
TX Fabens 103.1 3000 h.v.; 97'; Spanish, k.
BC Kitimat 105.1 160 w; CBC-French, CRUF
relay; c.
MB Brandon 99.5 21500; french
NF Marystown 90.3 100000 h.v.; 667' CBC-AM
NF Swift Current 104.3 86 watts (h); -150'
SA Zenon Park 93.5 1340; CBC-French

On Air and DX Ready! (Presumed)

CO Boulder KGNU *88.5 1300 h.v.; 215'; P
ID Pocatello KRBU 104.9 3000 h.v.; -580'
MI Grand Rapids WEHB *89.9 202 h.v.; 300'
MN Eveleth WEVE-FM 100.1 710 h.v.; 550'; \$,
km; y; on 5 am to midnight daily (x-WEVE-FM)
MO Cabool KVSC 106.3 3000 h.v.; 192'
NM Zuni KSHI *90.9 10 watts
WA Ocean Shores (Aberdeen) KDOUX-FM* 104.7
51000 h, 21000 v; 360'; \$, U
WA Onak KOMA-FM 92.7 3000 h.v.; -840'

SCA Added or Changed

FL Orlando WDLZ 100.3 (pspl. (not just talk
and music as indicated before)
FL Panama City WAGC *90.7
GA Savannah WTUC-FM 94.1 has distinctive
teletypewriter or teletext noise (not music)
IL Aurora WAHR 107.9 teletypewriter noise (+X)
IL Bloomington WBNQ 101.5 farm news
IL Champaign WDRS-FM 97.5 farm news
IL Effingham WCRC 95.7 farm news
IL Watsota WQFA-FM 94.1 farm news
IN Elkhart WXAX 104.7 music
MN Morris KMRS-FM 95.7 teletypewriter noise
MN St. Cloud WNUJ 96.1 teletypewriter noise
NE Scottsbluff KNOR 92.9
NC Greensboro WRQR 90.7 music
NC North Wilkesboro WKBC-FM 97.3 music
OH Cambridge WILE-FM 96.7 music
PA Philadelphia WNGR 102.9

SC Cayce WZLD 96.7 music
SC Suster WDMO 101.3 music
WI Janesville WJVL 95.9 farm and X, not
just X.
PR Arecibo WCMN-FM 107.3

No SCA or Inaudible Telemetry

FL Clearwater WQXN 97.9 1 GA Savannah
FL Mount Dora WDRJ 107.7 WXLN 97.3
FL Tampa WYJW 100.7 WTR Cincinnati
GA Americus WIFE 94.3 WAKM *93.3
KY Corbin WCTT-FM 107.1 WDR Fairfield
MI Grand Rapids WMLN 101.3 WLVV 94.9
NC Chapel Hill WUNC *91.5 WJH Wileington
NC Greensboro WQMS 97.1 WDKH 102.3
NC High Point WHPE 95.5 WVA Roanoke
NC Raleigh WYDZ 96.1 WSLQ 99.1
NC Winston-Salem WTQR 104.1 WVB Beckley
SC Charleston WKTW 102.5 WWPB *91.7
WEZL 103.5, WVB Parkers-
burg WKXL 95.1
SC Honea Path WRUX 103.1 WJW 95.1
WV Saint Albans WKLC-FM 105.7

Call Letters

AZ Lake Havasu City 95.9 KRFM (was KBAS)
AZ Scottsdale 100.7 KOFA-FM (KDOT)
AZ Tempe 97.9 KUPD-FM* (KUPD-FM)
CA Lake Arrowhead 103.9 KBON (KDIG)
CA Lompoc 100.9 KRQK
CA Ontario 93.5 KNFF (KSON-FM)
CA Redondo Beach 93.5 KFOG (KROP)
CO Cortez 97.9 KISZ MN Minneapolis *89.7
CT Berlin *89.9 WERB (KNOJ (not WNOJ))
CT Derby *90.1 WLNK
FL Cocoa 99.3 WEZY (WEZY-FM)
FL Holiday 106.3 WHBS
FL Jensen Beach 107.1 WHLG
FL Miami 107.5 WJOK (WJGL); said to be
k (from nr) and temporarily simulcast-
ing WNOK (AM). MS Columbia *95.7
FL Vero Beach 105.5 WAWW (WFFF-FM (WFFF)
GA Atlanta 96.1 WKLS-FM (WKLS) Mutual
HI Honolulu 93.9 KIKI-FM (KHUI)
ID Pocatello 93.7 KSNM-FM* (KSNM-FM)
IL Chicago 99.5 WICW (WCFM)
IA Clinton 97.7 KLNQ-FM* (KCLN-FM); now
"90-Q"; but stereo rock retained
KS Liberal 99.3 KSL5 ND Balfour *89.9
LA Alexandria 93.1 KQID (KJMC (from KLMA)
LA Farmerville 92.7 KWJW MO Eldon 92.7
LA New Orleans *89.1 WBSN-FM* (KLDN)
LA Oak Grove 96.7 KWCL-FM (KODI)
LA Sulphur 100.9 KTQG (KLOQ); E affil.
MO Gardner 104.3 WABK-FM (WRMC)
MO Grasonville 103.1 WAGA
MA Boston 100.7 WHUE-FM* (WTK)
MA Cambridge 95.3 WHRB (WHRB-FM*)
MN Brainerd 106.7 WJZY
MO Salem 95.9 KSMO-FM (KETU)
MT Hardin 95.9 KHDN-FM (KRW5)
NV Las Vegas 98.5 KLUC (KLUC-FM); no
network (was A)
NM Alamogordo 105.5 KINN-FM
NM Portales 95.3 KNIT (KLEW-FM)
NY Plattsburgh *91.1 WFLT
NC Franklin 96.7 WRFR (WFSC-FM)

NC Gastonia 101.9 WZK1, *92-102* (WGNF-FM);
distorted \$, m (from r); said to have a
poor signal (no vertical).
NC Kingston 97.7 W6AM (WODW)
NC Shelby 96.1 WXIK (WQHS-FM); \$, r (not m);
music SCA added
ND Devils Lake 96.7 KDVL (KDLR-FM)
OH Hamilton 103.5 WOKV (WYCH)
OH Mansfield *90.7 WVMC
OH Xenia 103.9 WDXK (WHEM)
OR Hermiston 99.3 KOHU-FM, Mutual
PA Butler 97.7 WLEP-FM* (WBOU-FM)
SC Chester 95.3 W0ZK (WCMU)
SC Greenwood 96.7 WSC2 (WCRS-FM)
TN Gallatin *88.3 WYCP [(100,000 h.v.)
TX Amarillo 96.7 KYTX (KZIP-FM); 470' /
TX Corpus Christi 93.9 KEXX-FM* (KSIX-FM)
TX Dallas 101.1 WRR (WRR-FM)
TX Prairie View *86.3 KPVV
TX Terrell Hills 106.3 KTUF
UT St. George 93.5 KZEE (KDXU-FM); also
Hurricane UT 101.7 translator has KZLZ,
not KDXU-FM.
VA Ashland 100.1 WIVE (WIVE-FM); also
affecting WIVE translators
VA Hanford 101.3 WWRB-FM (WVHR)
VA Norfolk *91.1 WNSG
VA Radford 101.7 WRIC (WRAD-FM)
VA Yorktown 94.1 WYVA (WYVA-FM*)

Facilities' Changes

AL Mobile WBLX 92.9 63000 h.v.; 460'
AR Little Rock KXXX 95.7 92000 h.v.; 940'
FL Boynton Beach WRMB *89.3 (from *88.7,
100000 h.v.; 455'
GA Atlanta WZGC 92.9 900' (100000 h.v.)
IL Lake Forest WMMX *88.9 still 10 watts,
but has application for 300 w, DA, 109'.
IL Macomb WJUM *91.3 7000 h.v. (280')
IL Peoria WNC2 105.7 addc vertical
IN Bloomington W9WB 96.7 1450 h.v.; 440'
IA Sioux City WMIT *90.3 910' (100000 h.v.)
KY Morehead WPCR-FM 92.1 3000 h.v.; 300'
MI Detroit WCAR-FM 92.3 21400 h.v. (460')
NE Omaha KEZO 97.3 is directional
NY Cortland WNO2 99.9 20000 h.v.; 730'; Y
NC Statesville W000 96.9 9000 (h) (340')
OH Hamilton WLSW 96.5 14500 h.v.; 820'
RI Kingston WRJU *90.3 3700 h.v.; 270'
VA Luray WLCC 116.3 240 h.v.; 1080'
OH Brockville CRBF-7 102.1 2500 h.v.; new
antenna height, but CRIC did not announce
what the new height is; I've protested!
ON Sudbury CBCS 99.9 (not 94.0) 50000 h.v.;
367' (and before that from 97.1).

NonIDs

IL Lawrenceville WAKO-FM 103.1 Way-Ko
Country. KY Erlanger-Cincinnati OH WHKK
100.9 K-101. MI Alpena WHSO 107.7 no non-
ID. Heard saying "HSB, not "Whisbee," so
I'd be inclined not to consider WHSB as a
nonID or a slogan user; r (from ka).
PA Pittsborough WPEZ 94.5 94-FM
TN Gallatin WHIN 104.5 104
WV Bluefield WBAJ 104.5 Stereo 104

FCC-FM

WV Charleston WBES 96.1 Stereo-96
 WV Parkersburg W1BZ 99.3 Z-99
 WV Two Rivers WQTC-FM 102.3 Q-102

More-Than-One-City-IDs

IN Elkhart-South Bend WYEZ 100.7, uses "100-FM" frequently, but not a nonID.
 NC Winston-Salem WKZL 107.5 adds Greensboro and High Point NC, no SCA.
 SC Laurens WGLL 100.5 adds Greenville SC

Stereo Added

FL Green Cove Springs WKUE 92.7 Q-92.
 GA Valdosta WLGA 95.9, m
 IN Bloomington WF1U "103.7, cJ
 IN Muncie WWSB "90.5, heard testing, rm.
 MA Lynn WLYN 101.7, ABC Entertainment.
 NH Concord WKXL-FM 102.3
 NH Plymouth WPHM-FM 100.1
 NC Boiling Springs W6WG "86.3
 SC Eastly WCLP-FM 103.9
 VA Bristol WFHG-FM 96.9, k

Format Changes

GA Rome WQIU 102.3 r (not nr); Y; no SCA
 GA Seynra WQXI-FM 94.1 "94-G," rp
 IL Aurora WKKD 95.9 m (never was r)
 IN Huntingtonburg WKOD 100.9 "BDC-101," k; U
 IN Terre Haute WPCR 102.7 r (not rg)
 IN Cherokee WKBE-FM 98.3 km, "Natural 98."
 IA Boone KCHE-FM 102.3 nr
 IA Sioux City KMSC "88.3 monaural pc; some mjr. Off air Aug. 10 to Sept. 4, after which they'll be on 7 am to midnight, but off the air holidays.
 KY Corbin WYGO-FM 99.3 r (from k); mono.
 MI Grand Rapids WJEM 93.7 r (from m)
 MI Mount Pleasant WCEN-FM 94.5 k; "94-FM"
 MN Anoka KTNM-FM 107.9 mj + lots of sports
 MN Waseca WKQE 92.1 r (from k); "Q-92."
 MN Clovis KKQQ 99.1 rp (from k)
 OH Oxford WOXY 97.7 ra; "Y-97."
 OK Tulsa KWEN 95.5 r (from mr); Queen \$ 95
 KRAY 96.5 r (not rp); FM-96
 KMDD 97.5 rp, "The Rainbow"
 KCFO 98.5 g (not gc)

SC Orangeburg WJPS 106.7 g (from sr) [SCA
 SC West Columbia WSCQ 100.1 nr (not r); no
 SD Sioux Falls KLEO-FM 92.5 m, (not nr)
 SD Watertown KDLO-FM 96.9 m (not nr); i.d. now as "Watertown," not "Garden City."
 TN Oak Ridge WUUU 94.3 m (not nr)
 TN Red Bank W5IM 94.3 rp, "94-FM."
 TN Soddy-Daisy WZDQ 102.3 rp, "Q-102."
 VA Marion WMEV-FM 93.9 r, monophonic

Network Affiliation Changes

Most of these culled from an extensive listing supplied by ABC, which gave not only the affiliates of all four ABC radio networks, but affiliations for CBS, NBC and Mutual. Abbreviations given at end of this listing.

AL Athens WJOF 104.3 Y
 AL Dothan WQOF-FM 99.7 m (not CM)
 AL Greenville WKXN 95.9 E
 AL Monroeville WNFQ-FM 99.3 Y (from I)
 AL Phenix City WEIZ 100.1 E
 AZ Phoenix KBBC 98.7 A (not Y)
 AR Conway KKLK 105.1 A
 AR Fort Smith KMAG 99.1 no network (was Y)
 AR Little Rock KLAZ-FM 98.5 no " " A)
 AR Mountain Home KTLO-FM 98.3 I

CA Arcata KXGO 93.5 E
 CA Bakersfield KKKX 107.9 A
 CA Camarillo KGAB 95.9 A
 CA Fresno KFYE 93.7 no network (was Y)
 KFRY 101.9 " " " C
 CA Mammoth Lakes KMNT 106.3 A
 CA Mariposa KUBB 96.3 N
 CA Modesto KFIV-FM 102.3 A
 CA Pacific Grove KOCN 104.9 M
 CA Paradise KNVR 96.7 M
 CA Ridgecrest KZ10-FM 92.7 E
 CA San Diego K1TT 105.3 no net. (was I)
 CA Santa Maria KXFM 99.1 A
 CA Truckee KEZC 101.7 M
 CA Tulare KBOS 94.9 Y
 CO Denver K1NN-FM 98.5 A
 KADZ 105.1 no network (was A)
 CO Glenwood Springs KGLS 92.7 E
 CO Sterling KSTC-FM 96.7 I
 CT Hartford WHCN 105.9 A
 FL High Arch WSWF 107.1 A
 FL Miami WATA 97.3 A
 FL Naples WRGI 93.5 I
 FL St. Petersburg WOYK 99.5 no net. (was M)
 GA Atlanta WBEZ 103.3 A
 GA Dublin WQZY 95.9 A
 GA Eastman WJFF-FM 92.1 N
 GA Gordon WHOF-FM 107.1 N
 GA Savannah WJCL-FM 96.5 no net. (was I)
 ID Boise KBKB 92.3 no network (was A)
 IL Chicago WJEZ 104.3 I
 IL Dundee W6VU 103.9 I (not Y)
 IL E. Moline WEMO 101.3 M (not MI)
 IL Harrisburg WBEQ-FM 99.9 no net. (was N)
 IL Joliet WLLI 96.7 A
 IL Pana WKXX 100.9 E
 IN Batesville WRBI 103.9 M
 IN Columbia City WFDT 106.3 M
 IN Indianapolis WFBO, "Q-95," 94.7 A
 WFSM 95.5 N
 IN South Bend W9HE 103.1 no net. (was A)
 IN Vevey WAVV 95.9 E
 IN Vincennes WADV-FM 96.7 apparently C
 IA Fairfield KBCT 95.9 Y
 IA Storm Lake KAYL-FM 101.5
 IA Twin Lakes KTLB 105.5 U
 KS Chanute KQSM 105.5 I
 KS Ottawa KOFO-FM 95.7 E
 KS Wichita KF01-FM 101.3 M (not A)
 KY Columbia WAIN-FM 93.5 Y
 KY Hodgenville WKMO 106.3 E (from M)
 KY Lexington WKDQ 98.1 no network (was D)
 KY Liberty WKDO-FM 105.5 E
 KY Louisville WAMZ 97.5 M
 KY Mayfield WXID 94.7 M
 LA Alexandria KRRV 100.3 E (from Y)
 LA Bostrop KTRY-FM 94.3 no net. (was A)
 LA Baton Rouge WYNK-FM 101.5 I (from E)
 LA Lafayette KSMB 94.5 no net. (was Y)
 NE Bath W1GY 105.9 A
 NE Brunswick WKXA-FM 98.9 I
 NE Houlton WHOU-FM 100.1 Y (from C)
 NE Lincoln WLNK-FM 99.3 E (not I)
 NE Portland WDCS 97.9 no net. (was E)
 NE Rumford WRUM-FM 96.3 Y
 NE Scarborough WJBO-FM 106.3 Y
 MD Annapolis WNAV-FM 99.1 M
 MD Hagerstown WNCOS 106.9 M (from C)
 MA Lawrence WCGY 93.7 M
 MI Coldwater WNNW 98.5 E (from I)
 MI Grand Rapids WLAU-FM 96.9 A (from E)
 WMLW 101.3 no net. (was A)

MS Natchez WQNZ 95.1 no network (was A)
 MO Sedalia KDSB 92.1 no network (was Y)
 MT Anaconda KMLN 97.7 M
 MT Billings KBMS 96.5 A
 MT Dillon KDEM-FM 98.5 I
 MT Hamilton KLYQ-FM 95.9 E
 MT Helena KCAP-FM 103.1 and translators A (from C) (k)
 NE Omaha KDO-FM 104.5 C (from M); rm (was/)
 NV Las Vegas KENO-FM 92.3 A (not I)
 NJ Vineland WDLV-FM 92.1 A
 NM Roswell KBIM-FM 94.9 I
 NM Tucuman KTNM-FM 92.7 M (from A)
 NY Buffalo WBUF 92.9 A
 WGRQ 96.9 no net. (was A)
 NY Dundee WFLR-FM 95.9 M
 NY Ellenville WELV-FM 99.3 E
 NY Jamestown WRUG 101.7 A (from N)
 NY Oneonta WIEZ 103.1 no network (was I)
 WSRK 103.9 " " " Y
 NY Rochester WHEM 98.3 no network (was A)
 WDFR 100.5 A (from M)
 NY Utica WTLB-FM 107.3 E (from A)
 NC Black Mountain WMT 106.9 no net. (was A)
 NC Wilmington WHSL 97.3 A (from Y)
 OH Cincinnati WLGA 98.5 M
 OH Cleveland WGLD 98.5 A
 OH Upper Sandusky WYAN 95.9 M
 OK Tulsa KTFX 103.3 r (from sj); " (from Z), "Super Fox."
 OR Coquille WKRO-FM 102.3 presumed C
 OR Eugene KPWF-FM 99.1 no network (was A)
 OR La Grande KLBK-FM 98.3 E
 OR Medford KMTT 93.7 and translators, I
 OR Ontario WXGO 96.1 M
 PA Du Bois WCEB-FM 102.1 C
 PA Mercer W1WZ 103.9 M
 PA Scranton WEEZ 107.1 A
 TN Etowah WNCX 103.1 M
 TN Kingsport WKPT-FM 98.5 N (from A)
 TN Knoxville WBR-FM 103.5 IC
 TN Lexington WDLZ-FM 99.3 I
 TN Memphis WHRK 97.1 A
 TN Oak Ridge WKXI-FM 100.3 M; dual T.D.: "Oak Ridge-Knoxville," slogan "stereo100"
 TX Abilene KCRG 100.7 M
 TX Amarillo KQ1Z-FM 93.1 M, - (was k)
 KBUY 94.1 no network (was A)
 TX Big Spring KFNE 95.3 M
 TX Brownwood KQKE 101.5
 TX Corsicana KXCL 107.9 M
 TX Dallas KAFM 92.5 no network (was A)
 KNUS 96.9 A
 TX El Paso KPAS 93.9 no network (was A)
 KLOZ 102.1 E (from C)
 TX Fort Worth KCSG 96.3 N
 TX Fredericksburg KNAF-FM 101.1
 TX Houston KAUM 96.5 Y (from A)
 TX Kerrville KPFM 94.3 M
 TX Lamesa KCOI 104.7 M
 TX McKinney KMKK 95.3 M
 TX Nacogdoches KTBC 92.1 M
 TX Odessa KKKK 99.1 M
 TX Palestine KLIS 94.3 M
 TX Paris KACR 99.3 M
 TX Plainview KATX 97.3 M
 TX Sherman K1KM-FM 96.7 M
 TX Spearman KBMF 98.3 E
 TX Sweetwater KXDX-FM 96.7 M
 TX Vernon KVMC-FM 102.3 M (from U)

FCC-FM

VA Woodbridge WXRA 105.9 EM
 WA Clarkston KCLK-FM 94.1 M
 WA Longview KLYX 105.5 A (from M)
 WA Mosco Lake KWIQ-FM 100.3 M
 WA Seattle KSEA 100.7 + translators
 M (from C) [(was A)]
 WA Seattle KZON-FM 102.5 no network /
 WA Toppenish KENE-FM 92.7 M
 WV Beckley WCIR-FM 103.7 no network
 (was M)

WV Martinsburg WESM 97.5 M
 WV New Martinsville WKGL 103.9 A
 WV Parkersburg WQAN 103.1 E (from I)
 WI La Crosse WSPR 95.9 A (from S)
 WI Menomonie WMMF 92.1 M (from U)
 WI Middleton WMDM-FM 106.3 Y (from I)
 WI Milwaukee WBCS-FM 102.9 EM
 WY Laramie KIOZ 102.9 M (from N)

Abbreviations Used in this Column

C classical music, e ethnic, g gospel, j
 jazz, k country, L Latin (S is Spanish), n

is middle of the road music, p progressive
 rock (p is so-called album-oriented rock),
 r rock oldies, top hits and "easy" rock,
 s soul. Networks: A ABC-FM, B National Black
 network, C CBS, E ABC Entertainment, I ABC
 Information, M Mutual, N NBC, P National
 Public Radio, S Associated Press Audio, Y
 ABC Contemporary, Z Mutual Black Network.
 SCA symbols, following +: F farm news, M is
 music, I talk, TB talking book for the blind,
 X facsimile, audible teletype or telemetry
 chirps.

Sweeping Educational Rules
 Changes Announced by the U. S. F. C. C.

The FCC has taken the first steps in what promises to be the most dramatic restructuring of noncommercial radio in the past 30 years. It has imposed a freeze on applications for new 10-watt school stations. Educational radio stations will be required to broadcast at least 36 hours per week, and those not on 12 hours a day may have their unused time claimed by another group. It appears, however, that stations will still be able to get away with being silent for summers and academic vacations. Much about the new rules is in the form of incomplete information, but I especially thank Bill Grant for sending the Federal Registers of June 15 and 26, which provide the best summaries to date of the FCC actions. Another excellent source is the June "NFCB Newsletter," which goes out to KPFA-type stations.

Ten watt stations will be required to change channels. First they must, beginning in 1980, search for a channel in the commercial part of the band (92 to 108 MHz), and if none is available, consider the new Channel 200, 87.9 MHz. If they are in an area near a Channel 6 TV station they must consider the 88-92 MHz part of the FM band reserved for education (where they are now) as a last resort. All ten-watters would be "bunplable" by higher-powered stations. However, apparently ten-watters have a temporary option to increase their powers to 100 watts before Jan. 1, 1980, but this information is from a secondary source. This source said it expects the 10-watt freeze to last at least five years. Now the FCC is asking comments on a proposed channel allocations' table submitted by the Corporation for Public Broadcasting. I've looked it over somewhat, but find the table quite unimaginative, leaving out many allocations opportunities.

Not a word issued about my idea of placing 10-watters on even (or split) frequencies. I feel the proposal to move educational ten-watters to the commercial part of the band is most unfortunate, and will preclude commercial stations from establishing FM translators in many locations where 10-watt educational stations are established. I am trying to influence the NRBA (National Radio Broadcasters Association) to oppose the FCC's plan—if it is not too late to do so. The FCC is also looking at how the eligibility to be a ten-watt or higher-power educational licensee should be considered—if change is needed, and whether or not multiple ownership rules should be imposed on educational licensees as is the case with commercial licensees. It appears very likely that the FCC will outlaw common ownership of two FM or two TV stations in the same city by the same educational concern. Watch for the divestiture of such commonly-owned, same city TV outlets as WWSW-WMVT Milwaukee, KTCA-KTCL Minneapolis; or in FM, possibly such situations as WSWW-WLYX Memphis. I think this change would be beneficial to the public in the long run.

Readers' Reports and Comments

Greg Monti sent a tape from the studio monitor of WGBB (AM) Freeport NY, illustrating how high quality their equipment is. Claimed to be from an on-air monitor, and the sound was good; however, there is a considerable difference between hearing a station in its own studio and over a receiver at home. Still it was cause for comparison with several FM stations. The only FM sound I heard that could compare was little monaural WERL-FM 94.3 Eagle River WI playing a tape by Bill Pearce that was recorded by WMBI-FM Chicago. In the future I plan to devote more attention to FM stations that broadcast to the medium's potential in carrying crisp, high fidelity sounds with a minimum of gain-riding distortion. Readers are invited to report on FM stations that defy current trends and send out a truly fine signal. Bear in mind the contest in the FM Atlas; very few responses have come in to date, so it would be interesting to see what stations are nominated and for what reasons.

In Iowa KCHE-FM Cherokee has the new Commodity News Service network, and a reader wonders if I will be listing this as a network in the future. It is just in the midwest, but plans to go nationwide eventually. (I thought it was just an SCA creature, but perhaps uses SCA mainly for "program relay.")

Bill Coleman says that an illegal FM on 90.1 was closed down in Kernersville NC; was playing r 9 hours a day. WCPE 89.7 Raleigh heard testing with tone. WDBS 107.1 Durham being sold, and listeners are concerned that the p sound will disappear; however the idea may take hold on 90.3 with WAFR offering p in addition to its g format. A May 29 classified ad in Broadcasting got the attention of the Minneapolis Tribune, because the new owner of WLOL-FM (and WBUF Buffalo) mentioned a format shift to rp (from m) for the station, and looking for announcers. This is an unusual procedure because the sale has not even been approved by the FCC, and WLOL-FM stays m, but with low ratings, compared to WAYL-FM and KEEY-FM.

Not nonDers, claims Rick Samford: WOAI-FM 97.3 San Antonio and KODA-FM 99.1 Houston, both of which use slogans, but always (or usually) with their call letters. He also heard by tropo two stations he thought were strict nonDers giving their calls at other times: WQNZ 95.1 Natchez MS and KLAZ-FM 98.5 Little Rock. "I may stop giving station slogans altogether; I also heard WFMF 102.5 Baton Rouge giving their legal call letters. During May they were using WFM (as reported over a month ago), so this means your July column will be obsolete before it reaches print. . . It gets quite confusing!"

Ron Wing was in Wray CO and noticed K237AK also relaying KFNF 101.1 at about 96.1, as well

as some intermodulation between KXXK-FM and KFNF being relayed at about 94.5. "When the new Yuma station at 100.9 goes on the air, the translator will really go bananas." An all-band translator? Ron also says: "FM DX isn't fun since KDSA *91.1 came on the air. The antenna is less than a mile from here, and overloads my receiver even with a Radio Shack FM trap on it," (Ron, maybe a receiver with better overload suppression abilities or a directional antenna aimed away from KDSA would help. By the way, tell us about your pest, KDSA Wichita—stereo, operating hours, music format, network?) Both Ron and Greg Monti offer explanations of the 67 kHz signal, and whether it is above, above and below the main carrier, or what. Greg says: "The 67 kHz sub-carrier is neither above nor below the real FM frequency. It is mixed in with the audio of the main channel, much as the mike and record are mixed together as a disc jockey talks over a record. In effect, it is a 67 kHz audio tone, just like the pilot is simply a 19 kHz audio tone. The only reason you don't hear either one is that human hearing (and most receivers) just don't go up that high." Ron offers a more classical explanation, mentioning SCA deviation of plus and minus about 7.5 kHz at a "rate of 67 kHz... In a mono station, the main channel programming is responsible for 90% of the deviation, or +67 1/2 kHz. In a stereo station, the 19 kHz stereo pilot takes another 10% away from the main channel deviation." I am not sure if these two explanations are congruent or divergent, but will let the readers try to decide for themselves! Greg says WTIC-FM 96.5 Hartford is nonIDing as "96-ticks," WBCI 96.5 Williamsburg VA as "FM-96," and rumor has it WVBF 105.7 Framingham MA uses "F-105."

On air in Indiana: WIPU *89.1 Fort Wayne, presently on limited hours 5 pm to 10 pm local time. They play classical music; 4 kw, but with a low antenna that gets their signal into Huntington IN less often than that of the 3,000-watt commercial stations in Fort Wayne, says Bob Zent. A group in Fort Wayne is forming to try to get the new buyers of WCMX-FM to return to soul music, from rp.

WRNN-AM-FM (95.3) Clare MI continue to be off the air, says Bob LaFore. He also noted that WQON 100.1 Grayling MI was off the air and wonders why. A trade source said KOZN 103.7 San Diego is no longer k; anybody in the area who can hear the station and tell us what they now have?

Ontario's David Leibold says that CKO-3 London is repeating CKO-1 Toronto on evenings and weekends, "probably because of lack of staff and/or financial reasons. The only difference in programming is in the local sections which take up 6 minutes beginning the second and 32nd minutes of each hour... Another interesting fact of the CKO stations is that although they have a sign-off ceremony at midnight, the Toronto-London link still broadcasts the national network afterwards. When it's midnight here, it's only 2100 in Vancouver... I've heard this as late as 0230, but I don't know whether the national network is 24 hours or not. When they expand to the Atlantic region, I imagine that will take place because to meet an on-air time of 0600 in St. John's NF would nearly coincide with Vancouver's off air time, as it would be 0130 there." Ralph Strobel, supplier of much midwestern news in the fine-print part of this column, said: "Don't quit your column!..."

More new station grants (this may be a carryover from last month, because last month's VUD is not here before typing this issue): IN Sullivan 95.3 3000 (h); 300', WKQV. NH Rochester 96.7 2100; 350'; no vertical mentioned. A reader sent an interesting clipping about KFAT 94.5 Gilroy CA, with its k music, weird announcements (including fake commercials), blue grass music, goofball contests, fake news items, happenings (an on-air arrest)—all share the airtime on KFAT, "the station for KFAT-heads." Bill Thompson, who also wants me to stick around, says WNED-FM *94.5 Buffalo does carry NPR programs, but only when it fits into their c format. For instance, on Sundays, they'll carry NPR Recital Hall. Andy Smith says: "I do not know how you ever got the report on WSBA-FM 108.3 York PA being p. It was and is m. There is an organization set up to save WGTB 90.1, or at least retain its format with another licensee, is the Committee to Save Alternative Radio, Box 409, Falls Church VA 22046. "University of D. C. seems most likely to take over license. Their application is supported by Georgetown (present licensee). The U of D. C. wants to join NPR and has indicated that they may be interested in continuing some of the programs and staff..."

Contributors, July VUD (Continued): David Searis, Durham NC; Ken Simon, West Palm Beach FL; R. J. Steinberger, Hudson MA; Ralph Strobel, Muncie IN; Bill Thompson, Buffalo NY; John Tinn, Milwaukee WI; Roger Winsor, Hobart IN; Neil G. Zank, Lincoln NE; R. Zent, Huntington IN. Also: Greg Leo, Lincolnshire IL; Joe Markewicz, Hornell Heights, Ont. (August).

Contributors, this issue: Don Allison, Clinton IA; Bill Coleman, Jr., Rocky Mount NC; Tom Cornell, Greentown IN; John Ebeling, Bloomington IN; Bill Grant, Worcester MA; Dave Grim, Akron OH; Stephen C. Hall, Tulsa OK; Joel Harmann, Storm Lake IA; Guy Kroger, Sioux City IA, who sent a letter from Charley Orbison, KMSC *88.3, Sioux City; Bob LaFore, Princeton FL; Lew Latta, owner WEVE-FM Eveleth MN; David Leibold, Blyth, Ont.; Greg Monti, Bayville NY; Gary Olson, who sent several issues on a trial subscription to the "AM-FM Addenda" to Television Digest from Panasonic's Elk Grove Village IL address; Rick Samford, Burnet TX; Andy Smith, Jr., Hystville MO; Ralph Strobel, Muncie IN; Bill Thompson, Buffalo NY; Ron Wing, Wichita KS; Robert H. Wright, Concord NH; Bob Zent, Huntington IN. Also contributing: Thaddeus P. Floryan, Jr., Los Altos CA.

Now, some final comments from Greg Monti, who has just himself ordered an SCA adapter: "Yes, perhaps SCA was once the only 'golden egg' broadcasters on FM had. But not today. Perhaps it's still true in small markets, but no commercial FM broadcaster in a major city would complain that he's losing revenue because of SCA ripoff. He should be making a clear profit from his main channel!" [I am still offering SCA adapters, either kit or wired, and watch soon for announcement of a unit that's designed to play off the earphone jacks of some 70% of portable FM radios so equipped.]

INTERNATIONAL NOTES from

KEN SIMON

EUROPEAN TV CHANNELS BELOW 50 MHz

F 2	52.40 V	41.25 A	am
B 1	45.00	41.50	am
I A	44.75	51.75	fm
B 2	51.75	48.25	am
E 2	48.25	53.75	fm
E 2*	49.75	55.25	fm
R 1	49.75	56.25	fm

Based on EBU's "List of
Television Stations--
European Broadcast Area"
(No.22 1 SEPT 77)

TROYES, France	F2	TF1	250 kw	
LIMOGES	F2	TF1	200	
CAEN	F2	TF1	50	
BASTIA	F2	TF1	10	
(+ 11 French stations with less than 1 kw)				
CRYSTAL PALACE, UK	B1	BBC1	200	
ASHKIRK	B1	BBC1	18	
DIVIS	B1	BBC1	12	
REDRUTH	B1	BBC1	10	
THRUMSTER	B1	BBC1	7	
LLANDDONA	B1	BBC1	5	
LLANDRINDOD WELLS	B1	BBC1	1	
(+ 17 UK stations with less than 1 kw)				
MONTE CAMMARATA, Italy	IA	RAI1	35	
MONTE CACCIA	IA	RAI1	34	
MONTE NERONE	IA	RAI1	34	
(+ 35 Italian stations with less than 1 kw)				
HOLME MOSS, UK	B2	BBC1	100	
ROSEMARKIE	B2	BBC1	20	
N. HESSARY TOR	B2	BBC1	14	
SWINGATE	B2	BBC1	1.4	**=PAL color
LONDONDERRY	B2	BBC1	1	
(+ 11 UK stations with less than 1 kw)				
BIEDENKOPF, WG	E2	HR	100	
GOETTELBORNER HOEHE	E2	SR	100	
GRUENTEN	E2	BR	100	
STEINKIMMEN	E2	NDR	50	
AALTER, Belgium	E2	BRT*	100	(+ 1 other Belgian station less than 1 kw)
MADRID/NAVACERRADA, Sp	E2	TVE1	250	
SANTIAGO	E2	TVE2	40	
VEJER DE LA FRONTERA	E2	TVE1	14	
TAIVALKOSKI, Finland	E2	YLE1*	15	
TAMPERE	E2	YLE2*	10	
FIH, Lebanon	E2	CLT1+	1.1	+ = SECAM
JOUNIE H	E2	GET2+	1	
MELHUS, Norway	E2	NR*	100	
GREIPSTAD	E2	NR*	60	
STEIGEN	E2	NR*	60	
GULEN	E2	NR*	30	
VARANGER	E2	NR*	30	
(+ 2 Norwegian station with less than 1 kw)				
MURO, Portugal	E2	RPT1	40	
HOERBY, Sweden	E2	SR1*	100	
CEREBRO	E2	SR1*	60	
VAENNAES	E2	SR1*	60	
UDDEVALLA	E2	SR1*	5	
(+ 7 Swedish station with less than 1 kw)				
BANTIGER, Switzerland	E2	SRG*	100	
(+ 2 Swiss station with less than 1 kw)				
SANKT POELTEN/JAUERLING, Austria	E2*	ORF1*	60	
BUDAPEST, Hungary	R1	PTT1±	120	
NAGYKANIŹSA	R1	PTT1+	60	
PRAMA, Czech.	R1	CT1	150	
OSTRAVA	R1	CT1	100	

Continued on page 12

FCCTV NEWS

John F. Combs
2485 Ivan Ct.
Orlando FL 32807
AUGUST 1978

NEW STATIONS ON-AIR

WTKK-66+ Manassas VA, religious, 1380, 590

STATIONS OFF-AIR

WRLP-32 Greenfield MA

KFTY-50 Santa Rosa CA

CONSTRUCTION PERMITS GRANTED

Juneau AK, Ch. 3 ETV, 2.45, -1020

San Jose CA, Ch. 48-, 450, 2614

Norfolk VA, Ch. 33, 1135, 910

APPLICATIONS FOR NEW STATIONS

North Pole AK, Ch. 4-, 18.66, 1620 (by KJNP)

Santa Ana CA, Ch. 40, 2637, 2980

(Mutually exclusive w/KTBN)

Santa Rosa CA, Ch. 50-, 989, 2980

Los Angeles CA, Ch. 68-, 2265, 2284

Vallejo CA, Ch. 66, 669, 1592

Boulder CO, Ch. 14, 900, 484

Clearwater FL, Ch. 22, 4581, 1435

Miami FL, Ch. 39, 2858, 649

West Chicago IL, Ch. 60, 2690, 1460

Richmond IN, Ch. 43+, 1349, 994

Louisville KY, Ch. 21-, 1400, 1002

Grand Rapids MI, Ch. 17, 240, 542

Hardin MT, Ch. 4+, 91.45, 1062

New York NY, Ch. 31-, 2300, 1382

(Mutually exclusive w/WNYC)

Bismarck ND, Ch. 3 ETV, 100, 1393

Minot ND, Ch. 6+ ETV, 100, 1111

(Above two prop. satellites of KFME-13)

Newark OH, Ch. 52, 21.5, 395

Tulsa OK, Ch. 23, 2838, 1480

Tulsa OK, Ch. 23, 2190, 1380

Tulsa OK, Ch. 47, 344, 638

Portland OR, Ch. 24+, 4887, 1739

Portland OR, Ch. 24+, 2178, 1753

Portland OR, Ch. 24+, 1000, 1741

San Juan PR, Ch. 18, 1200, 1150

Abilene TX, Ch. 32+, 2051.3, 910

San Antonio TX, Ch. 29+, 1242, 894

San Antonio TX, Ch. 29+, 2084, 1474

CHANGES GRANTED

WIVY-4 Dothan AL to 1880 AAT (1225), xmtr to

2.1 mi. S. of Miller Crossroads FL (now

10 mi. NW of Chipley FL)

KFSN-30 Fresno CA to 1910, 2040 (1660, 2080)

KAIL-53 Fresno CA to 708 kw (16.1)

KTEH-54 San Jose CA to 661, 1920 (305.5, -30)

WTTV-4 Bloomington-Indy IN to 55, 1200 (56.2,

1190)

KATC-3 Lafayette LA to 1740 AAT (1200),

xmtr to about 1/3 mi. S. of present site

WILX-10 Lansing MI to 316, 980 (309, 470)

WFMY-2 Greensboro NC to 1924 AAT (720),

xmtr S. to New Market NC (now in Greens-

boro)

WRAL-5 Raleigh NC to 95.5, 1990 (100, 1180)

WITN-7 Washington NC to 1950 AAT (1470)

WBNS-10 Columbus OH to 229, 890 (316, 710)

WNEP-16 Scranton PA to 1150 kw (1268)

WGGG-16 Greenville SC to 1150 kw (229.6)

WSVI-8 Christiansted VI (now off) to 7.76,

1120 (58.5, 750), change xmtr site

KSTW-11 Tacoma-Seattle WA to 316, 900,

change xmtr site

KIMA-29 Yakima WA to 479 kw (155)

CALL LETTERS ASSIGNED

Juneau AK, Ch. 3 ETV, KTOO-TV

San Jose CA, Ch. 48-, KQWT

Owensboro KY, Ch. 31- ETV, WKOH

Dickinson ND, Ch. 7, KQCD-TV

Cincinnati OH, Ch. 64-, WBTV

Cheyenne OK, Ch. 12+ ETV, KWET

CHANGE IN CALL LETTERS

KRIV-26 Houston TX (ex-KDOG)

WLTX-19 Columbia SC (ex-WNOK)

PAY-TV REQUESTS

KMUV-31 Sacramento CA

New 22 Clearwater FL

New 24 Portland OR

New 24 Portland OR

NETWORK CHANGES

(A recent TV GUIDE article claimed that 21 former NBC or CBS stations have switched to ABC. This editor knows of only 6 of these, obtained mostly through comparing the 1977 & 1978 TV FACTBOOKS. If anyone knows of any more changes not listed, please drop me a card --jfc)

City	Station	Former	Net	New Net
San Diego CA	KGTV-10	NBC		ABC
	KCST-39	ABC		NBC
Baton Rouge LA	WBKZ-2	NBC		ABC
	WRBT-33	ABC		NBC
Albany NY	WAST-13	ABC		CBS
	WTEN-10	CBS		ABC
(also satellite WCDC-19)				
Charlotte NC	WSOC-9	NBC		ABC
	WCCB-18	ABC		None
Providence RI	WRET-36	None		NBC
	WTEV-6	ABC		CBS
Milwaukee WI	WFRI-12	CBS		ABC
	WITI-6	ABC		CBS
	WISN-12	CBS		ABC

CHANGES IN ALLOCATION TABLE

City	Add Ch.	Delete Ch.
Opelika AL	66	--
Savannah GA	28	--
Marion IL	27	--
Glendive MT	13	9
Dickinson ND	9	4
Williston ND	4	---

TRANSLATOR CPs GRANTED

K64AW Chloride AZ	KTVK-3	10
K61AZ Alamosa, etc. CO	KRDO-13	100
K58AR Malach & area ID	KID-3	
K60AZ " " " "	KIFI-8	
K38AB Ft. Madison IA	KIIN-12	1000
K54AF Keosauqua IA	KIIN-12	100
K25AA Rock Rapids IA	KSIN-27	1000
K33AB Sibley IA	KSIN-27	1000

(Above 4 should make good DX!!)

K67BM Red Lake MN	KNMT-22	100
K69BT " " "	KTHI-11	100
K13PB Bassett NE	KPRY-4	10
K13PC Tuscarora NV	KTVN-2	10
K65BD Carrizoza, etc. NM	KGGM-13	10
K61BA Ft. Wingate NM	KNME-5	100

TRANSLATOR CHANGES

K1IMY Homer/Seldovia AK to Ch. 4 (K04JH)

K65AR Twenty-Nine Palms CA to 100 watts

STATE OF THE INDUSTRY--as of 5-31-78

Commercial TV on-air:	VHF: 516	
	UHF: 210	726
Total		
Educational TV on-air:	VHF: 102	
	UHF: 158	260
Total		986
TOTAL TV ON-AIR:		
Translators on-Air:	VHF: 2408	
	UHF: 1113	
TOTAL TRANSLATORS:		3521

A FEW WORDS about the set-up... Offsets given on all applications, CPs, and new on-air (also when given calls). Figures after allocations, CPs, and changes are ERP in kw, then antenna height AAT. Figures in parentheses are former stats for changes. Powers of translators given in watts.

NOTE: Not included under xltr changes are a multitude of Western VHF xlters going to 10 w.

I certainly hope that this takes care of most of the news since the last column. My major sources of information are (1) Television Digest's weekly updates, (2) "For the Record" in Broadcasting, and (3) YOU, the reader. The former two basically duplicate each other, although one may occasionally find information in one that was omitted in the other. The translator information is at best sketchy; it is impossible for me to know when a translator actually comes on the air. This is where the WTFDA member comes in. You can supply info to fill the "gaps", as well as getting a jump on information concerning your locals that even the FCC may not be aware of. Please don't keep any news to yourself that could be of even remote use to a fellow DXer.

Also, if there are any categories of information that anyone thinks should be included in this column, please advise me of this. I have tried to include information that is of the most use and interest to the average DXer. I see no sense in being so thoroughly complete that half of the information is of little practical use. Here's wishing the best of DX to you all! 73.....JOHN.

SEVERNI MORAVA	R1	CT1	10	Continued from page 10
(+ 7 Csech stations with less than 1 kw)				
LENINGRAD, USSR	R1	GKR	240	
MOSCOW	R1	GKR	240	
MINSK	R1	GKR	150	
NOVOSOKOLNIKI	R1	GKR	90	
KULDIGA	R1	GKR	50	
SIMFEROPOL UKR	R1	GKR	50	
OVRUTCH UKR	R1	GKR	50	
KRIVOI ROG UKR	R1	GKR	35	
LVOV	R1	GKR	35	
ROSTOV	R1	GKR	35	
SOTCHI	R1	GKR	35	
TCHEREPOVETS	R1	GKR	35	
UNETSHA	R1	GKR	35	
VORONEG	R1	GKR	35	
KUZEMA	R1	GKR	10	
LOVOZERO	R1	GKR	10	
SUKKOZERO	R1	GKR	10	

Notes: Spelling of cities is per EBU list and may vary slightly with what you're used to. Rand McNally's "Road Atlas of Europe" is an ideal companion for finding locations. Some of these stations should be receivable with a 30-50 MHz rx or a scanner to pick up audios. A slightly more complex system using converters will be discussed latter. I'm still working on a British piece of equipment that converts 40-240 MHz up to UHF range where you can slide tune! I would appreciate hearing from ALL club members who have logged TAs or TP recently or during the last sunspot cycle. I would also like to hear from people that have a little more electronics background than I...According to old bulletins, BBC1 on B1 (Crystal Palace, no doubt) was received in Washington...the state not DC!! I would also like to keep a distance record and standing for TA, TPs and TEs...Keith Hamer's test pattern (test card) book would be an ideal reference. No attempt will be made to get into PAL or SECAM color, unless some technically minded member has some ideas. Also, we need some antenna suggestions...REMEMBER, PROJECT EUROPA is only as good as the HELP I get...YOURS, KEN SIMON/528 Pilgrim Rd./WEST PALM BEACH/FLA 33405 USA. (305-585-7415 after 5 pm EDT)



STATISTICS

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
Deadline: the 5th

Dxer Location	Rank	TOTAL	88-92	Es	MS	Au	USA	CN	MX	FO	TPU	YB	Date
Pat Dyer, San Antonio TX	1	1237	142	1006	19	0	41+	2	6	3	53	70	6/18/78
John Ebeling, Bloomington MN	2	1095	159	570	23	72	46+	4	3	0	54	52	11/1/77
Michael Dalton, Clearwater FL	3	1078	215	571	6	0	41+	2	11	12	67	--	6/15/78
Fred Nordquist, Clay NY	4	980	133	433	20	37	39+	4	0	2	46	69	7/14/78
Peter Sawatzky, Guelph ON	5	952	114	466	108	5	38+	7	0	1	47	71	6/25/78
Fred McCormack, Des Lacs ND	6	906	115	681	21	69	43+	6	3	0	53	65	8/8/77
Danny Buntin, Stillwater OK	7	903	105	518	0	0	44+	4	8	0	57	74	7/1/78
Ron LeBlanc, Marrero LA	8	843	129	452	2	0	39+	3	5	6	54	71	11/19/77
Mike Bugaj, Enfield CT	9	813	104	386	2	10	37+	3	0	1	42	74	9/15/77
Bob Seybold, Dunkirk NY	10	812	97	320	0	0	42	5	6	0	53	60	7/31/77
Joe Fala, So. Plainfield NJ	11	736	144	314	2	9	37+	2	0	2	42	68	7/1/77
Ralph Strobel, Muncie IN	12	707	172	47	4	5	24+	3	0	0	28	73	6/16/78
Hank Holbrook, Chevy Chase MD	13	704*	-	-	-	-	35+	4	0	3	43	--	7/20/77
Roger Winsor, Hobart IN	14	653	-	-	-	-	-	-	-	-	--	--	6/14/77
Larry Vogt, Springfield VA	15	591	135	216	19	6	37+	5	1	3	47	68	6/1/77
R.E. Lyons, Belleair Bluffs FL	16	578	174	165	1	0	38+	2	8	11	60	73	4/22/77
Doug Everitt, Enid OK	17	511	80	299	15	0	32+	4	6	0	43	74	8/7/77
Joseph Smith, Johnson City NY	18	447	59	71	0	0	24+	1	1	0	27	71	7/20/77
Ted Fleischaker, Louisville KY	19	349	46	57	0	0	29	4	1	0	34	74	8/6/77
John Jefferson, Concord CA	20	266	52	51	46	0	18	2	2	0	22	57	6/2/77
Michael L. Hogan, Highland IN	21	227	44	16	0	0	17	1	0	0	18	76	6/5/78
Michael Scheel, Walcott IA	22	222	22	10	0	0	17	1	0	0	18	71	6/19/78
Eric Fader, Bayside NY	23	197	42	0	0	0	10+	0	0	0	11	74	6/16/78
Ken Simon, West Palm Beach CA	24	191	71	126	0	0	20+	1	1	4	27	--	7/17/77
David Nelson, Chapel Hill NC	25	164	24	42	0	0	18	1	0	0	19	76	8/3/77
Eric Fader, Bayside NY	26	152	36	0	0	0	10+	0	0	0	11	74	7/28/77
Frank Wheeler, Erie PA	27	136	16	0	0	0	5	1	0	0	6	64	6/19/78

* Verified.

Thanks for your updates. Congratulations to Pat Dyer for being the first to reach the 1000 level in the Es category! Others need to send in their revised totals. Refer to the June 1978 VUD (page 23) for column definitions. There hasn't been very good response to the statistics survey that was included in the April 1977 VUD (page 17). Thanks to J. Jefferson, S. West, L. Vogt, D. Buntin, M. Bugaj, P. Sawatzky, and R. Strobel for their inputs to the survey. Unless there is more interest expressed in this survey, it will be dropped. On the subject of FM distance records --- please be very sure of the propagation mode by which you receive DX. I've had to disallow certain candidate records such as tropo reception claimed by one reporter while an Es opening (reported by another DXer) was occurring at precisely the same time along the same path. If you are not sure by which propagation mode you received the station, check it out with other experienced DXers. You are requested to give the date and time of all your submitted candidate distance records. 73, Fred.

Wind power transmits Seattle radio offerings

By LEONARD BACON
of The Oregonian staff

VANCOUVER, Wash. — Those call letters of a Seattle-based radio station being heard loud and clear in the Portland-Vancouver area are no accident. It has taken a group of Vancouver residents nearly five years to put them on the air.

And they are coming in locally as free as the wind because an experimental wind generator is being used to supply the power to transmit them.

The station, technically identified as K-280-AC, is a "repeater" of Seattle-based KUOW, the public broadcasting station of the University of Washington.

KUOW, with Washington state news, classical music and public discussion programming, is being received locally at 103.9 megahertz on the FM band via a two-channel stereo translator in Northwest Portland near the St. Johns Bridge.

Simultaneously with the stereo programming, the station is rebroadcasting the Washington Radio Service for the Blind on a third channel. This programming is obtained only on special receivers supplied free by the state.

The new station, which began broadcasting last week, is the result of an effort first launched in 1972. The organization behind it is known as South-west Washington Broadcasting Council, and Bob Moser of Vancouver is president.

"It took five years, rather than the six months we thought it would take," Moser said.

Moser, director of public relations for Clark College, credited Vancouver resident Martin Palmer with providing the engineering expertise for the new station.

The station uses a translator at the transmitter site to pick up KUOW on one frequency and rebroadcast it locally on another.

Palmer, who is becoming increasingly well-known for his research into alternative sources of energy, proposed both the translator concept and the wind generator to power it.

He arranged for the donation of much of the equipment needed and did the engineering work, Moser said, adding that more than \$100,000 in services and equipment was donated to put the station on the air.

A major contributor, said Moser, was the 215th Electronic Installation Squadron of the U.S. Air Force, based at Pease Field near Seattle.

From July 10, 1978
OREGONIAN

QSL CORNER

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

FM-QSL

AL	WFOF	99.7	Dothan, P. O. Box 1427, 36301. Form letter signed by Oscar Lanman, ce in one month. Lowery
DC	WKYS	93.9	Washington, 4001 Nebraska Ave NW, 20016. Varification card received in 8 days. Sowinski
DE	WXDR	91.3	Newark, 307 Student Center, 19711. Letter from Marie M. Caron, Public Relations Director, qsl for a 10 water! Mullis
	WLRB	92.7	Rehoboth Beach, Box 254, 19971. Signed my own report letter by G. L. Eloff, CE ? hard to read name, also send coverage-map. Mullis
	WAFB	97.7	Milford, Box 324, 19963. Letter & map from Mike Brooks, Technician, reply in 2 weeks. Blevins
FL	WRYO	98.5	Crystal River, P. O. Box 292, 32629. Nice "Christian" letter in 6 days from Fred C. Jacob, Manager. Swartz
	WXEM	102.3	Milton, P. O. Box 588, 32570. Letter from H. Byrd Mapoles, Owner/Manager in 2 weeks "...that WXEM was received at such a distance is both interesting & gratifying." Sawatzky
GA	WBQQ	104.3	Augusta, Box 2066, 30903. Letter (lengthy) from George G. Weiss, Pres. "In the 17 years we have been on the air this is the most distant report received." Sawatzky
NC	WNCT	107.7	Greenville, P. O. Box 898, 27834. Nice letter from Heber R. Adams, CE "Thanks so much for the nice reception report from Baltimore." Mullis
	WTNC	98.3	Thomasville, 27360. Send FM coverage map signed in 12 days. Sowinski
NY	WFUV	90.7	New York, Fordham University, Bronx, 10458. Nice letter from Frank A. Seitz, General Manager Mullis
	WALK	97.5	Patchogue, P. O. Box 230. Send back my report form, no signer, but qsl note from WALK-FM Engineering Dept. Mullis
	WEVD	97.9	New York, 1700 Broadway, 10016. QSL Card from D. W. Winter, CE. Mullis
	WAAL	99.1	Binghamton, Box 997, 13902. Send back my report form with QSL note from R. L. Funk, CE with note "Thanks very much, just keep these report coming our way." also send a handfull of bumper-stickers. Mullis
	WPLX	101.9	New York, 220 E. 42nd St, 10017. Form letter & map from Robert Gross, Engineering Dept. reply in 3 1/2 weeks. Mullis
NJ	WPST	97.5	Trenton, Box 9750, 08607. QSL Card & map, no signer. Blevins
	WFPG	96.9	Atlantic City, Steel Pier, 08401. QSL Card, no signer. Blevins
	WHVB	97.3	Vineland, P. O. Box 1440, 08360. Letter & bumper-sticker from Thomas Verba, CE. "Thanks for listening to us" Blevins
	WSNJ	107.7	Bridgeton, Box 69, 08302. Letter & qsl card from Edward L. Bold, CE reply in 12 days. Blevins
OK	KMOD	97.5	Tulsa, 3002 University Club Tower Bldg, 74119. Letter & sticker from Travis Reeves, General Manager reply in 3 weeks Sawatzky
	KAKC	92.9	Tulsa, P. O. Box 970, 74101. Letter from Joyce Miller, Duty Operator Reply received in 2 weeks. Mullis
PA	WCTX	92.1	Palmyra, P. O. Box 231, Send letter from Gary L. Gruver, Asst. Eng in 2 weeks. "I must say it is unusual that we receive letters for QSL of FM DX'ing. I personally feel it is a lost art & am pleased to see that there is at least someone interested in the hobby." Mullis
	WQMU	103.1	Indiana, Box 669, 15701. Send card with advertising rates, report signed by J. Miller & was received in 6 days. Sowinski
	WFLN	95.7	Philadelphia, 8200 Ridge Ave, 19128. Received a QSL Card & map from Thomas D. Moyer, CE. Blevins
	WUCB	96.1	Red Lion, Box 88. Letter from Fred W. Wise in 15 days. Blevins
	WVDB	96.5	Philadelphia, 3930-40 Conshocken Ave, 19131. Letter from Robert B. Hoy, Contract Chief Engineer, reply in 3 days. Blevins
	WUSL	98.9	Philadelphia, 440 Domino Lane, 19128. Letter & map from J. Alan Handley, Chief Engineer, reply in 27 days. Blevins

Reporters this month are: Greg Lowery, Cadwell, GA; Robert Sowinski of St. Clairsville, Oh; Gary Mullis, Baltimore, MD; Shel Swartz of West Palm Beach, FL; Peter Sawatzky of Waterloo, Ont.; Donald Blevins of Baltimore, MD. This was an all FM QSL month with 2 new reporters from Maryland with FM's reported. I hope this issue is easier to read then the last 2. I got a new ribbon. I also hope that more reporters send in some reports to me. I would like most of all new reporters who have not reported ever at all. Maybe with the skip season here I will get some new reporters or some new stations reported. 73's

THE RECEPTION REPORT FORM

Dear Sir: I am pleased to report the reception of your station _____
 on _____ from _____ until _____ on a fre-
 quency of _____
 date time time
 megahertz

If you can check this out with your logs, or tapes of dispatches during the above times and it checks out, could you please send the enclosed card to me, filled in. I certify that I am not in violation of any Federal Law and that I will not use this information to my benefit. I wish you to certify only the reception of your stations signals. Details are on the back.

There are several groups of people that listen to police and fire frequencies. Number one is police and fire officials who listen for information on what is going on while not on duty. Number two is volunteer fireman and auxiliary police officers who listen for information on how to assist on duty fire and police personnel, and to know when to report for regular assignment.

The next group of people are those who listen ~~solely~~ for entertainment. Thier motive is simple... ~~what better way to be entertained than to listen in on what is going on right in your own back yard.~~

The last group of people is the newest group, the SWL's or short wave listeners. Thier motive is simple. They seek pleasure in seeking out distant weak signals from faraway places. This practice is often refered to as DX'ing in amatuer radio lingo.

My purpose in this report is to seek confirmation of my reception, who's details are outlined in data contained on the back of this report.

Also enclosed is a self-addressed, self-stamped envelop for the return of your reply, on which any comments or suggestions are welcome.

Thank you,

Many questions have been asked in regard to reports, so will attempt to answer those questions as best I know how. 1) How do adress my report? Simply adress your report to the agency; for example Baltimore City Police Baltimore Police Baltimore, Maryland..... 2) where do I get information on call signs, frequencies, ect.? Many sources are available: Police Call Magazine, Handler Enterprizes, Communications research Bureau.....

TAXI RADIO SERVICE FREQUENCY

BASE	MOBILE	BASE	BASE
152.27	157.53	452.05	457.05
152.30	157.56	452.10	457.10
152.33	157.59	452.15	457.15
152.36	157.62	452.20	457.20
152.39	157.65	452.25	457.25
152.42	157.68	452.30	457.30
152.45	157.71	452.35	457.35
		452.40	457.40
		452.45	457.45
		452.50	457.50





VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 5th of month

AUGUST 1978

Recent 50-MHz news - Japan to US West Coast multi-hop Es at least 3 days in June. ZB2VHF (Gibraltar) beacon on 50.003 (not .103) heard in east Canada June 25. June 4, G4BPY (England) heard the Cyprus beacon, 5B4CY, 50.500 (this was the same day that ZB2 heard on east coast). Also, 2-m Es from England to Morocco.

Neil Dickerson, 426 State St., Sharptown, MD 21861 Realistic PRO-1

5-19:				5-23:			
1800	KAA472	42.06	Savannah, MO-sp	1945	KIP708	46.06	Sarasota, FL-f
	KAA958	"	Rolla, "		KIX767	"	"
1806	KAB675	"	Sikeston, "		KSZ775	"	Venice, "
1815	KBI877	39.50	Morgantown, KY-p		KDE709	"	Sarasota, "
	KIA564	"	Glasgow, "	1946	KIB487	45.06	Tampa, " - sp
1816	KID447	"	Central City, "	1947	KIB484	"	Melbourne, "
1817	KIE937	"	Russellville, "	1948	KIB486	"	Lake City, "
1820	KII569	"	Madisonville, "		KBV732	"	Jacksonville, "
1821	KXD611	"	Franklin, "	1949	KGJ762	45.10	Pensacola, "
	KVA418	"	Hopkinsville, "	1950	KQL713	37.12	Miami, " -p
1825	KQW434	44.62	Louisville, " -sp	1953	KQL710	"	"
1826	KIA481	"	Elizabethtown, "	1954	KJK582	39.10	Jupiter, "
	KIB280	"	Mayfield, "	1955	KJK580	"	Jacksonville, "
1828	KIB854	"	Madisonville, "		KBY740	39.82	Mascot, "
1830	KJY734	"	Covington, "	2000	KIB853	"	Tavares, "
	KIB819	"	Frankfort, "		KIC511	"	Mt Dora, "
	KSE807	42.42	Indianapolis, IN-sp	5-27:			
	KSC804	"	Evansville, "	1335	KAC310	39.90	Kearney, NE-h
1831	KSC813	"	Pt Wayne, "	1336	KVF580	"	Fremont, "
5-21:				1338	KRT946	"	Plattsburgh, "
1215	KCI726	39.18	Sierra Vista, AZ-p	1340	KTC920	"	Omaha, " -f
	KOA258	"	Tucson, "	1345	KAA202	42.06	Lees Summit, MO-sp
1217	KOB565	"	Bisbee, "	1346	KAA203	"	Kirkwood, "
1316	KKL890	47.--	Morgan City, LA-lg	1350	KVF805	39.82	Scottsbluff, NE-lg
1330	KSN238	45.06	East Point, FL-sp	1351	KAD769	42.38	Williston, ND-sp
5-22:				1352	KAD802	"	Dickinson, " "
1300	KGJ614	47.58	Albemarle, NC-lg	1353	KBL764	"	Linton, " "
1305	KVD510	47.66	"		KAF530	"	Bottineau, " "
1311	KTT820	43.36	Mocksville, "	1357	KAB472	39.90	Beatrice, NE-lg
1313	KID474	47.62	Washington, "	1359	KAG797	"	West Point, " -h
1315	KIK455	37.10	Hendersonville, " -p	1400	KLO265	46.06	Pessenden, ND-f
1327	KUZ684	45.16	Charlotte, " -lg	1415	KBG636	33.78	Red Oak, IA-f
1330	KIB482	45.06	W Palm Beach, FL-sp		KDG848	"	Shenandoah, " "
1355	KTE413	"	Coral Gables, "		KDG374	"	Malvern, " "
1400	KIC367	42.85	Culpepper, VA-sp		KDK762	"	Indianola, " "
	KIC366	"	Richmond, "	1416	KAB511	39.10	Parker, SD-sp
	KEV475	39.50	Charlottesville, " -p	1417	KAB517	"	Custer, " "
1401	KID403	"	Buena Vista, " "		KAB513	"	Huron, " "
1404	KIG768	"	Orange, " "	1418	KAB519	"	Pierre, " "
1406	KIF911	"	Woodstock, " "	1419	KLE723	"	White River, " -p
1407	KVR938	"	Hot Springs, " "	1421	KRW453	"	Aberdeen, " "
1410	KTU281	"	Tazewell, " "	1423	WBL220	"	Towaco, CO-p
1413	KRI607	"	Farmville, " "	1425	KVRT90	37.10	Sunshine, " "
1415	KUU524	"	Harribsburg, " "	1430	KVR772	"	Boulder, " "
1418	KSO650	"	Manassas, " "		KVR780	"	Jamestown, "
1420	KII403	"	Christiansburg, " "		KVR777	"	Pt Collins, " "
1421	KII843	"	Richlands, " "	1440	KVG746	39.82	DeFuniak Spgs, FL-lg
1423	KUY206	"	Tappahannock, " "	1540	KJK559	42.56	Jackson, TN-sp
1425	KQN900	"	Leesburg, " "		KIX281	"	Memphis, " "
5-23:				1541	KIE946	"	Signal Mtn, " "
1945	KIH664	46.06	Hampton, VA-f	1542	KTH622	"	Cunningham, " "
	KIP536	"	Sarasota, FL-"				

(Dickerson cont.)

5-27:			5-28:			
1542	KKL735	42.02	Jackson,MS-sp	1912	KKA720 39.50	BossierCity,LA-p
1544	KKC475	"	Brookhaven,"	1913	KBR222	Port Allen, " "
1545	KKB238	"	Meridian, " "	1916	KJB817	Bastrop, " "
1546	KKQ362	42.12	Vicksburg,"	1917	KKA687	Opelousas, " "
1549	KKQ857	"	Greenville,"		KKD305	Greenville,TX-p
1555	KAJ820	42.06	Joplin,MO-sp	1919	KUZ649	BatonRouge,LA-p
1558	CAA201	"	Macon, " "	1920	KSO926	BelleRiver, " "
1559	CAA350	39.24	Eldorado,KS-p		KUP252	Iowa, " "
1600	CAA242	39.48	Lawrence, " "	1930	KXX446	PortSulphur, " "
1601	KSB988	33.98	Salina, " "		KWV571	Donaldsonville, " "
1810	KSA930	39.50	Morrison,IL-p		KKO975	Port Allen, " "
1811	KSB986	"	Carmi, " "	1933	KWE519	39.30 Albany, " "
	KSC277	39.46	RichlandCtr,"	1935	KKAB68	University, " "
1812	KSA930	"	Morrison, " "	1941	KRF333	39.10 Raceland, " "
	KSA907	"	Pontiac, " "	1943	KKA502	Jena, " "
	KSA924	"	Centralia, " "	2230	KDET00	44.74 Springdale,AR-p
1813	KSC430	"	Galesburg,"		KZO352	W Memphis, " "
1815	KSD241	"	Darlington,"	2231	KKC231	Warren, " "
	KSD711	"	Albion, " "	2233	KKM827	37.24 ForestCity, " "
1818	KSB228	42.60	Metamora,"-sp	2234	KKC583	Jonesboro, " "
	KSB986	"	Carmi, " "	2236	KKC220	Marion, " "
	KSC457	"	Metropolis,"	2237	KZE557	Camden, " "
1819	KQO221	42.04	Superior,WI-sp	2240	KKM812	Star City, " "
1820	KQO227	"	Portage, " "	2241	KQY776	Dumas, " "
1821	KSP392	"	Madison, " "	2243	KSC238	Texarkana, " "
2130	KRO638	42.82	Minneapolis,MN-p	2244	KKD232	Harrison, " "
5-28:				2245	KJL558	Prescott, " "
1520	KKR329	47.62	Pawnee,OK-sp		KKO394	Russellville,"
1530	KLB481	45.06	Ft Myers,FL-sp	2247	KKY932	Mtn View, " "
1539	KKB469	44.70	Guyton,OK-sp	2248	KKC213	W Memphis, " "
1540	KKT808	"	Vinita, " "	2251	KKA778	Pine Bluff, " "
1542	KKC883	"	OK City, " "	2300	KKC867	37.26 OK City,OK-p
1545	KTP826	"	" " " "		KXL831	Mustang, " "
	KUP598	"	Muskogee, " "		KTV670	Edmond, " "
1600	KIT964	45.98	Spartansburg,SC-lg	2302	KUE625	39.10 Horatio, " "
	KFN960	45.06	Everglades,FL-sp	2306	KKC500	39.40 Rayville, " "
1601	KIM939	"	PinellasPark" "	2307	KKC223	39.38 Crowley,LA-p
1900	KKD615	39.50	Opelousas,LA-p	2310	KRF337	39.42 Tioga, " "
	KKY729	"	Covington, " "	2313	KRX376	Alexandria, " "
1902	KLD765	"	CottonValley,"	2315	KKD621	39.82 Amite, " "
1911	KKA575	"	Oberlin, " "	2320	KVP771	WaterValley,MS-p

(h-hospital; lg-local government; p-police; sp-state police)

<u>Ron Wing, 705 N. Emporia - Apt. 2, Wichita, KS 67214</u>	Bearcat 101/210 GMT
5-28: 0035 35.58 Johnstown,PA(vx ID pgr)	24: 1536 35.42 Youngstown,OH-mp
6-12: ---- 35.22 Charlotte,NC(KIM905 tp)	1600 " Pittsburgh,PA-
	1800 35.38 S Diego,CA-
14: ---- 43.22 Rochester,NY(KEK269 vip)	1850 35.46 L.A.,CA-
24: 1536 35.42 Columbus,OH-mp	2005 35.38 " "
Ron has figured out the problem with the Bearcat freqs. e.g., set for 33.93 the local oscillator is -10.8 (i.e., 23.13). The 2nd harmonic of that (46.26) can beat with 35.46 to ride in on the 10.8-i.f.as well. ---	
Now my loggings. So much Es on TV/FM not much time on 30-50. GMT	
6-2: 2125 36's (P2)	7-2: 2255 35.58 (P2 bs)
19: 0240 "VEL" 108.2 Vernal,UT(VOR)(Es)	2302 KLF527 35.22 Honolulu,HI
22: 2000 mid-36 (P2)	(tone pager) (P2)
30: 0402 KL7IFD 50.15 Anchorage,AK(3Es)	4: 1820 30.30 (P2)

Solar flux levels continue to give Cycle 21 a good rise rate. P2 this fall should be the best since 1968-70.

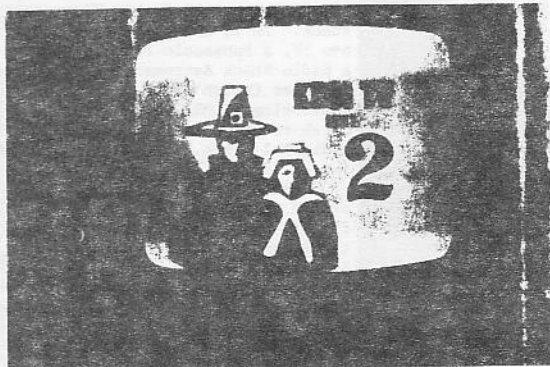
Memorabilia

August 1978

Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 5th of month

"MORE GEM STATE DX MEMORIES"

For August, MEMORABILIA has some more good old IDs from Idaho's TV past, submitted by Frank E. Aden, Jr. of Bend, OR. Thank you very much, Frank!



KBOI-2
(now KBCI-2)

Boise, Idaho

KCIX-6
(now KIVI 6)

Nampa, Idaho



KITC 6
(now KIVI 6)

Nampa, Idaho



That's it for this month, guys. /3s, best of DX to all,

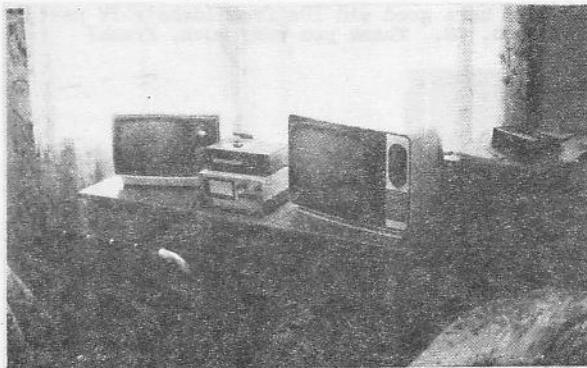
Bob

PHOTO NEWS

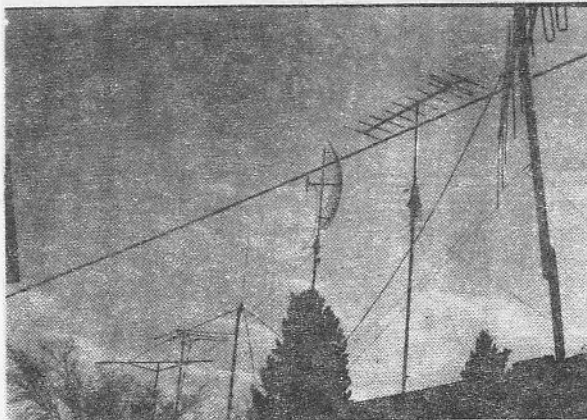
Jim Alexander
4 Brook Court
Parsippany, NJ 07054

August, 1978

Feature: A visit to Duluth, MN



This month, PHOTO-NEWS features Buck Battin's setup in Duluth, Minnesota. The first photo shows Buck's DX shack. In it are a K-Mart 9" b+w TV, a Panasonic 12" b+w TV, a Radio Shack Astronaut-6 receiver (which Buck uses for monitoring 35 MHz for E-skip), three rotor control units, and a digital clock.



Below the shack photo is a shot of Buck's "antenna farm." Going from left to right, we see first a Winegard 10-element lowband yagi, connected to RG-59U foam coax, and turned by an Archer rotor. Next is an Archer V-60 (used for program watching, and not connected to the shack). To the right of the V-60 is an Archer hi-lo groundplane antenna for the Astronaut-6 radio. Next is a Finco 7' dish, with a Blonder-Tongue CMA-Ub UHF preamp. This sends the signals down RG-11U foam coax, and is turned by a CDE rotor. To the right of the dish is a Jerrold 10-element highband yagi, which uses RG-59U foam coax and is turned by a CDE rotor. Finally, at the extreme right is shown a vertically mounted Jerrold 10-element lowband yagi. This antenna, used strictly for E-skip, is not rotated, and sends the signals down RG-59U coax.


In the space below, we have a couple of photos from this year's E-skip season. My thanks to the contributor of each, and special thanks to Buck Battin for this month's feature. KEEP THOSE SHACK/SYSTEM PHOTOS COMING!!

73 and good DX,

Jim

Announcements
PUBLIC SERVICE
WPTV ch. 5
John B. 786 33480
5
Announcements
Announcements

WPTV- 5 Palm Beach, FL
1,110 mile E-skip, 6/23/78
(Paul Gaines, Detroit MI)

NEWS  **BUFFALO**
A new, brighter look at your news.

WVIB- 4 Buffalo, NY
985 mile E-skip, 6/19/78
(John F. Combs, Orlando FL) **20**

WESTERN TV-DX

Bill Block
9307 S.E. Clay St.
Portland, OR 97216
(503) 256-2354
Deadline: 5th

AUGUST 1978

The Es season has been very slow here with only one or two openings per week in June and so far July is no better. June will have to go down as the worst June for Es in the 3 years that I have been DXing.

Buck Battin, 4305 Pitt, Duluth, Minnesota 55804

I don't know what it's been like down south, but up here in the Northland, the Es season this year has been a bust. Despite that, what few openings there have been resulted in several new loggings. My entry for XEPM-2, Ciudad Juarez, marks the first time I have ever seen a Mexican station identify itself. No doubt I have had the station several times before without knowing what it was. My Duluth log now stands at 189.

June 1978

06 Es 1210 WBRZ 2 LA 1145	20 Es 2159 WSB 2 GA 1010	30 Es 0200 WESH 2 FL 1410
1229 KPRC 2 TX 1200	21 Es 1255 WSB 2 GA 1010	0205 WAGA 5 GA 1010
10 Tr 0043 WISC 3 WI 295	24 Es 1255 XEPM 2 1315	1259 WCBI 4 MS 945
15 Es 2136 KMID 2 TX 1170	30 Es 0115 WEAR 3 FL 1190	1435 WCIV 4 SC 1180
18 Es 1229 WGBH 2 MA 1085	0124 WWL 4 LA 1170	1644 WCSC 5 SC 1180
20 Es 2000 WFBC 4 NC 990	0137 WTVI 4 AL 1160	1650 WRAL 5 NC 1050
2101 KCKT 2 KS 685	0141 WCIX 6 FL 1620	2057 WJXT 4 FL 1295
2158 WESH 2 FL 1410	0151 WBER 6 AL 975	

Bradford E. Wall, 7876 Del Rosa Ave., San Bernardino, California 92410 PDT

June 1978

04 Es 0951 KFDX 3 TX	13 Es 1730 KATG 2 OR	18 Tr 2215 XEWT 12 Mexico
1000 KOET 3 OK	1746 KOIN 6 OR	21 Es 2320 KOTA 3 SD
05 Tr 2350 XHBC 3 Mexico	1800 KVDO 3 OR	24 Es 1457 KCKT 2 KS
13 Es 1440 KFDX 3 TX	1833 KIEM 3 CA	
1500 KENW 3 NM	18 Tr 2205 XHBC 3 Mexico	

John Ebeling, 9209 Vincent Ave. S., Bloomington, Minnesota 55431

Normally I do some TV DX when at the cabin in Prossit, Minnesota 30 miles NW of Duluth, but do not report as interest is in FM DX. However when a Mexican station is received up here in the northland and a good ID is seen, I feel I should report. XEPM-2 was seen at 1345 with sports lead-in to world soccer playoffs. Other stations on 2 were WBRZ and KTCA. Receivers were an old 1956 Satchell Carlson B/W and new Panasonic TR 759 12" Xstr B/W TV. Antenna was 5-element attic mounted and aimed south. By the way, the old set is as good at DX as the new Panasonic.

Richard Noel Allen, R.F.D., Billings, Oklahoma 74630 CST

April 1978

30 Es 1940 WEDU 3 FL 1720 Km	28 Es 1246 XEZ 3 QRO1720 Km	18 Es 1200 XEPE 3 NL
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May 1978

06 Tr 0826 KOET 3 OK 235 Km	1254 MUF: 89.7	1811 XEW 2 DF
13 Es 1920 XHI 2 Son1540 Km	1320 XEPE 3 NL 1200 Km	1813 KVOA 4 AZ
21 Es 0958 WPBT 2 FL 2150 Km	<u>June 1978</u>	1814 XHD 4 TAMS
1000 WEDU 3 FL 1720 Km	09 Es 1718 ?? 2 ??	1815 XEZ 3 QRO
1055 WSAV 3 GA 1610 Km	UnID of CEMFT-3	1900 KDIX 2 ND
WRBL 3 GA 1250 Km	12 Es 1700 WPMY 2 NC 1620 Km	2000 KID 3 ID
28 Es 1117 WEDU 3 FL 1720 Km	WUND 2 NC 1940 Km	2030 KPHO 5 AZ
1125 WTVJ 4 FL 2150 Km	1800 WTAR 3 VA 1930 Km	2115 XEZ 3 QRO
1159 WEAR 3 FL 1200 Km	WCBD 2 SC 1675 Km	XEW 2 DF
1226 WSAV 3 GA	18 Es 1029 XEZ 3 QRA	21 MS 0446 WBRZ 2 LA
	1100 XEW 2 DF 1850 Km	24 Es 1245 KUTV 2 UT

June 1978

24 Es 1306 KCPX 4 UT 1345 Km 28 Es 1700 KRTV 3 MT 1700 Km 01 Es 0830 KDKA 2 PA
 1430 KORK 3 NV 1610 Km KTVQ 2 MT 1400 Km 0856 WBTB 3 NC
 1502 KDAI 2 AZ 1285 Km 1758 CHAT 6 AT 1870 Km 0859 WWAY 3 NC
 1613 KNXT 2 CA 1890 Km 2118 WMAR 2 MD 1890 Km 04 Tr 0745 KHIN 36 IA
 25 Es 1408 XEW 2 DF July 1978 0759 KRIN 32 IA

27 Tr 0540 WEBQ13 TN 690 Km 01 Es 0830 WPSX 3 PA 1750 Km

Sony KV 1212, Winegard 11 Element VHF Log and Archer 44 Element UHF Log. Total stations
 logged: 325 (Es: 140, MS: 30, UHF: 86 and UHF translators: 27.) The worst "Es" season
 I have ever experienced.

Jim Pizzi 300 Park, Orcutt, California 93454 PDTMay 1978

22 Es 1219 KTXI 5 TX 09 Es 2135 KVOA 4 AZ 19 Es 1200 KOTA 3 SD
 1221 KAUZ 6 TX 2141 KDFW 4 TX KIVV 5 SD
 1233 KOCO 5 OK 10 Es 1046 KATU 2 OR 1300 KXLF 4 MT
 2125 KCKT 2 KS 1052 KTVI 4 OK CFCN 4 AT
 16 Tr 1050 KSEW 8 CA 1100 KNOP 2 NE 1557 CKCK 2 SK
 KFTV 11 CA ECKT 2 KS 1559 KTWO 2 WY
 KGSC 36 CA KSNB 4 NE 1700 CHBC 2 BC
 1054 KCST 39 CA KLNE 3 NE KTVQ 2 MT
 1055 KPBS 15 CA 12 Es 2359 KTVQ 2 MT 1829 CPOM-TV-1 2 AT
 2150 KEMO 20 CA 13 Es 0001 KTWO 2 WY 0930 KTVQ 2 MT
 KTSP 26 CA 0009 KRTV 3 MT 1000 KTWO 2 WY
 KVOP 38 CA 0011 KYUS 3 MT KDIX 2 ND
 K29AB 29 CA 1152 KATU 2 OR KPRY 4 SD
 2210 KTEH 54 CA 1209 KVDO 3 OR 1006 KFYR 5 ND
 2213 KQED 9 CA 1706 KBCI 2 OR 1233 KRTV 3 MT
 KABC 7 CA 1709 KREM 2 WA 1610 KWGN 2 CO
 2214 KMST 46 CA 14 Es 1058 KTVQ 2 MT 1620 KNOP 2 NE
 KTVU 2 CA 1101 KFDX 3 TX 1639 KVCU 5 WY
 2216 KDTV 60 CA 1103 KOTA 3 SD 1656 KDUH 4 NE
 1121 KXLF 4 MT 1657 XEPH 2 Chih.
 1122 KRTV 3 MT 1720 EMID 2 TX
 1143 KATU 2 OR 21 Es 1304 XEPH 2 Chih.
 1146 KOMO 4 WA 1329 EMID 2 TX
 KING 5 WA 2210 KHAS 5 NE
 1205 CHBC 2 BC 2212 KMTV 3 NE
 1827 CKSA 2 AT 2221 KWGN 2 CO
 1958 EMID 2 TX 1228 KTVS 3 CO
 15 Es 1144 KUTV 2 UT 1229 KOTA 3 SD
 1200 KWAB 4 TX 2302 KTVQ 2 MT
 KTVQ 2 MT ECKT 2 KS
 KMID 2 TX 2303 KPRY 4 SD
 16 Es 1056 KMID 2 TX 2305 KRTV 3 MT
 17 Es 1916 KNOP 2 NE 22 Es 0034 KOMO 4 WA
 2000 KDIX 2 ND 0034 KING 5 WA
 2012 KHAS 5 NE 0040 CHBC 2 BC
 2013 KDFW 4 TX 0040 CBUT 2 BC
 2058 KTVQ 2 MT 0050 KATU 2 OR
 2118 KWGN 2 CO

June 1978

04 Es 1119 EMID 2 TX
 1139 KACB 3 TX
 06 Es 1908 KNOP 2 NE
 1918 KTVS 3 CO
 1933 KTVI 4 OK
 2001 KAMR 4 TX
 2002 KWGN 2 CO
 2023 EMID 2 TX
 2025 KENW 3 NM
 2055 KLAS 5 TX
 2101 KDFW 4 TX
 2215 KATU 2 OR
 2215 KVDO 3 OR
 08 MS 1608 KAMR 4 TX
 Es 2115 KENW 3 NM
 2130 KAMR 4 TX
 09 Es 1150 KNOP 2 NE
 KDUH 4 NE
 1159 KLNE 3 NE
 2001 KMID 2 TX
 2002 KENW 3 NM
 2007 KWAB 4 TX
 2022 KACB 3 TX
 XEJ 5
 2023 XEPH 2
 2024 KDBC 4 TX

18 Es 1222 KMID 2 TX
 2103 KXJB 4 ND
 2108 KDIX 2 ND
 19 Es 1122 KDUH 4 NE
 1130 KDIX 2 ND
 KPRY 4 SD
 1148 KPLO 6 SD
 1200 KTWO 2 WY

Total log now stands
 at 192. Underlined
 are new stations.

Equipment: 1976 model 9-inch Penncrest E&W; Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

June 1978

01 Es	1328	KTVQ	2	MT	1245	07 Es	2059	WJBK	2	MI	1225	14 Es	1029	KTWO	2	WY	1015
	1710	YSU-t	4	El	Sal		2100	WTWO	2	IN	935		1129	KGFE	2	ND	1240
	1733	YSR	2	El	Sal	08 MS	0049-0052	UnIDs	2-8				2029	KORK	3	NV	1050
	1750	MUF	88.8			Es	1100	KNXTt	2	CA	1190		2032	KOAI	2	AZ	855
	2150	KWGN	2	CO	810	09 Es	1010	KETTt	3	CA	1270		2059	KNXT	2	CA	1190
	2200	KTWO	2	WY	1015			KNBct	4	CA	1190			KNBct	4	CA	1190
	2223	KID	3	ID	1215		1015	KTLAt	5	CA	1190			ETLAt	5	CA	1190
	2240	KUTVt	2	UT	1080		1029	KNXT	2	CA	1190			KSBy	6	CA	1335
02 Es	0830	KNXTt	2	CA	1190		1129	CKPR	2	OH	1400	15 Es	1129	WBAY	2	WI	1190
	0910	KVOAt	4	AZ	750		1155	CBWFTt3	Man	1410			WISC	3	WI	1065	
	0947	KTVK	3	AZ	835	10 Es	1129	KORK	3	NV	1050		1130	MUF	89.7		
	1738	WVAY	3	NC	1250		1144	KOAI	2	AZ	855		1425	KNBct	4	CA	1190
	1757	KPHOt	5	AZ	835		1325	WHTV	3	NC	1105		1436	KETT	3	CA	1270
	1759	KTVK	3	AZ	835		1345	WSJK	2	TN	1010		1455	XHBC	3	BCN	1010
	1802	KNXT	2	CA	1190		1530	XEWHt	6	Sen	700		1458	XHAQt	5	BCN	1010
	2025	KOAI	2	AZ	855		1640	XETV	6	BCN	1010		1500	XEWHt	6	Sen	700
03 Es	0920	WCIVt	4	SC	1120			XHAQt	5	BCN	1010		1504	XETV	6	BCN	1100
	0928	WCBD	2	SC	1120		1648	XHBC	3	BCN	1010		1520	ETLAt	5	CA	1190
	0929	WRBL	3	GA	830		1658	KNXT	2	CA	1190		1940	WCCOt	4	MN	1110
	0959	WESH	2	FL	1055			KNBct	4	CA	1190		1959	KDIX	2	ND	1225
	1010	WPBTt	2	FL	1150			KTLAt	5	CA	1190		2112	KTWO	2	WY	1015
		WTVJt	4	FL	1150		1729	KEYT	3	CA	1270		2200	KID	3	ID	1215
	2015	WCBD	2	SC	1120		1830	KOAI	2	AZ	855	16 Es	1100	WBEM	2	IL	1045
04 Es	0959	KUTV	2	UT	1080			KORK	3	NV	1050		1118	WBAY	2	WI	1190
	1015	MUF	98.7			11 Es	1700	WBAY	2	WI	1190		1215	CKPR	2	OH	1400
	1025	KNBct	4	CA	1190	12 Es	0759	WAVE	3	KY	945	17 Es	0855	KNBct	4	CA	1190
		KTLAt	5	CA	1190		1310	KTLAt	5	CA	1190		0929	KNXT	2	CA	1190
	1059	KORK	3	NV	1050			KNBct	4	CA	1190		1015	KVVUt	5	NV	1040
		KNXT	2	CA	1190		1320	KNXT	2	CA	1190		1026	KORK	3	NV	1050
	1102	KVVUt	5	NV	1040		1328	XETV	6	BCN	1100		1720	WCIVt	4	SC	1120
	1215	KID-t	3	ID	1215		1333	XHBC	3	BCN	1010		1725	WCBD	2	SC	1120
05 Es	1812	CFAC	2	AT	1690		1443	KDIX	2	ND	1225		1759	WUND	2	NC	1360
	1820	WCBD	2	SC	1120		1529	KDTA	3	SD	1040		1820	WSAVt	3	GA	1050
		WCIVt	2	SC	1120		1545	KDKA	2	PA	1280		1832	WVAY	3	NC	1250
	1829	KTCA	2	MN	1110		1625	WTARt	4	PA	1280		1835	WECTt	6	NC	1250
	1832	WCCOt	4	MN	1110		1759	WUND	2	NC	1360		1859	WRBL	3	GA	830
	1905	MUF	94.1				1840	WJXTt	4	FL	1015		1913	KORK	3	NV	1050
	2000	KDLO	3	SD	1070		1932	WESH	2	FL	1055		1917	KVVUt	5	NV	1040
06 Es	0650	WESH	2	FL	1055	13 Es	0043	KID	3	ID	1215		1919	KTWO	2	WY	1015
	1017	KDKA	2	PA	1280		0120	KUTV	2	UT	1080		2013	KVOAt	4	AZ	750
	1128	WBEM	2	IL	1045		0427	KNXT	2	CA	1190		2057	XHBCt	3	BCN	1010
	1459	WFMY	2	NC	1175		1102	KDIX	2	ND	1225			KNBct	4	CA	1190
	1523	WSB	2	GA	880		1159	KID	3	ND	1215			KTLAt	5	CA	1190
	1550	WVAY	3	NC	1250			KTWO	2	WY	1015		2059	KOAI	2	AZ	855
	1555	WECT	6	NC	1250		1229	KUTV	2	UT	1080	18 Es	0900	WMT	2	IA	945
	1612	MUF	98.1				1240	KTVxt	4	UT	1080		0947	WESH	2	FL	1055
	1702	WESH	2	FL	1055		1358	XHBC	3	BCN	1010		1059	WCBD	2	SC	1120
07 Es	0759	WNGE	2	TN	820		1430	KTVK	3	AZ	835		1100	WCIVt	4	SC	1120
		WBTV	3	NC	1105		1450	KVOAt	4	AZ	750		1558	KDIX	2	ND	1225
	0828	KQTV	2	MO	750			XHAQt	5	BCN	1010		1759	KDUH	4	NE	940
		WDAFt	4	MO	700		1459	KOAI	2	AZ	855		2302	KID	3	ID	1215
	0840	KFYRt	5	ND	1200		1524	KUAT	6	AZ	750	19 Es	2100	WTWO	2	IN	935
	0929	WISC	3	WI	1065		1720	KNBct	4	CA	1190			WBEM	2	IL	1045
	0959	KDIX	2	ND	1225		1730	KTLAt	5	CA	1190		2102	WSAZ	3	WV	1100
	1015	KLNET	3	NE	785	14 Es	0759	KTCA	2	MN	1110		2111	WISC	3	WI	1065
	1029	KNOP	2	NE	815		0927	KTVQ	2	MT	1245		2116	WMT	2	IA	945
	1059	KOTA	3	SD	1040		0959	RBCI	2	ID	1370		2127	KGLO	3	IA	985

June 1978

19 Es	2129	KTCA	2 MN	1110	24 Es	1827	YNTC	2 Nicar	29 Es	1116	MUF	106.7		
	2133	WCCot	4 MN	1110		1940	KNXT	2 CA	1150	1359	KTCA	2 MN	1110	
20 Es	1559	WMT	2 IA	945		2002	KORK	3 NV	1050	1729	WPBT	2 FL	1150	
	1602	CKPR	2 ON	1400		2005	KPHot	5 AZ	835		WTVJt	4 FL	1150	
	1625	MUF	94.5			2059	KDAI	2 AZ	855		1730	WPTVt	5 FL	1150
	1707	KBJR	6 MN	1250			XHBCt	3 BCN	1010		1743	WJXTt	4 FL	1015
	1717	KDLO	3 SD	1070	25 Es	0928	WMT	2 IA	945			WEDU	3 FL	985
		WCCot	4 MN	1110		1015	WOIt	5 IA	880		1757	MUF	98.7	
	1729	KTCA	2 MN	1110		1025	WCCot	4 MN	1110		1759	WEAR	3 FL	685
	1930	KPIRt	5 ND	1200		1029	KTCA	2 MN	1110			WESH	2 FL	1055
	2024	MUF	107.1			1130	KTWO	2 WY	1015		1800	WDBot	6 FL	1035
	1959	KGFE	2 ND	1240		1324	MUF	98.6			2128	MUF	96.5	
20 Es	1615	WDTN	2 ON	1075		1330	WPBTt	2 FL	1150		2128	KID	3 ID	1215
	1628	WAVE	3 KY	945		1359	WEDU	3 FL	985		2205	KUTV	2 UT	1080
	1832	WFMY	2 NC	1175		1414	WESH	2 FL	1055	30 Es	0015	WSAZ	3 WV	1100
	1855	MUF	89.7		Tr	2359	KTRF	9 TX	265		0016	WRC	4 DC	1385
	2200	KUTV	2 UT	1080	26 Tr	0002	KPLC	7 LA	325		0029	WEAR	3 FL	685
	2225	KTVXt	4 UT	1080		1029	KETS	2 AR	515		0035	WDTN	2 OH	1075
Tr	2304	KMOM	9 TX	295	Es	1758	WESH	2 FL	1055		0042	WTAB	4 PA	1280
22 Es	1425	Cuba	2				WEDU	3 FL	985		0045	MUF	88.5	
	1655	TGV	3 Guat.			1802	WCBDt	2 SC	1120		0106	WBAY	2 WI	1190
23 Es	0929	WJAR	2 MD	1410		1815	WFMYt	2 NC	1175		0115	WTPGt	5 DC	1385
	1015	WTABt	4 PA	1280		1845	WCIVt	4 SC	1120		0155	WDTN	2	
	1018	KDKA	2 PA	1280	27 MS	0341	WSB	2 GA	880		0336	WSB?	2 GA	880
	1029	WSAZ	3 WV	1100		0403	WESH	2 FL	1055		0955	MUF	107.9	
	1122	WAVE	3 KY	945	Es	1729	YSR	2 El Sal.			0759	WBEM	2 IL	1045
	1129	WDTN	2 OH	1075		1735	WPBTt	2 FL	1150		1300	MUF	88.9	
	1230	MUF	105.5			1820	TGVt	3 Guat.			1610	WBAY	2 WI	1190
	1329	WBEM	2 IL	1045		1910	YSU-t	4 El Sal.			1615	KTVI	2 MO	790
	1359	WFMY	2 NC	1175	28 MS	0332	WSB	2 GA	880		1625	WKZO	3 MI	1175
	1430	WISC	3 WI	1065	Es	0955	WCBDt	2 SC	1120		1653	KDKA	2 PA	1280
	1458	WSJK	2 TN	1010		1007	WESH	2 FL	1055		1830	WUND	2 NC	1360
	1459	WMT	2 IA	945		1029	KTCA	2 MN	1110		1840	WVAIt	3 NC	1250
	1759	WCIA	3 IL	935		1059	WTWO	2 IN	935		1840	WVAIt	3 NC	1250
		KPIRt	5 NB	1200		1115	WMT	2 IA	945		1843	WCIVt	4 SC	1120
	1829	WTWO	2 IN	935		1120	WOIt	5 IA	880		1845	WCBDt	2 SC	1120
Tr	2115	KDSA	7 TX	280		1135	MUF	105.5			1849	MUF	89.3	
	2121	KSWS	8 NH	440		1202	KTVO	3 MO	835		1855	WCSCt	5 SC	1120
		KCBD	11 TX	340		1520	Cuba	2				WSAVt	3 GA	1050
	2124	KBIM	10 NH	440		1533	WESH	2 FL	1055		1925	WTVJt	4 FL	1150
		KMID	2 TX	275		1559	WPBT	2 FL	1150			WPBTt	2 FL	1150
24 Es	0859	WJBK	2 MI	1225			WTVJt	4 FL	1150		1958	WDBot	6 FL	1035
	1010	MUF	92.3			1715	KLNBt	3 NE	785		1959	WESH	2 FL	1055
	1029	KTCA	2 MN	1110			KDIX	2 ND	1225		2050	WJXTt	4 FL	1015
		KDAL	3 MN	1250		1732	KOTA	3 SD	1040					
	1059	WMT	2 IA	945		1759	KPLO	6 SD	995					
	1127	WWJ	4 MI	1225		1924	MUF	106.9						
	1128	WKYC	3 OH	1250	29 Es	0950	KVOAt	4 AZ	750					
	1148	MUF	92.3				KUAT	6 AZ	750					
	1359	KTWO	2 WY	1015		0959	KDAI	2 AZ	855					
		KOTA	3 SD	1040		1000	KPHot	5 AZ	835					
	1459	KID	3 ID	1215		1059	KNBCt	4 CA	1190					
	1702	KUTV	2 UT	1080		1100	KNXT	2 CA	1190					
		KTVXt	4 UT	1080										

6-el FM, SAX-1 preamp. So much trop on day pf June 30 not sure if some Es might have crept in as CCI on Ch 7 (Austin) or not. 2Es to Alberta on the 5th almost buried in the others. Its about the only way I can get any more new Ch 2's here.

drift-free center tuning, total harmonic distortion is always kept to a minimum.

Moreover, the ST-A7B displays the frequency of the received signal on a front-panel LED digital readout and on a linearly calibrated tuning dial with an LED pointer.

IF Bandwidth

Under normal signal conditions, the ST-A7B's switchable IF bandwidth will be used in the NORMAL mode, providing a maximum of stereo separation and typical distortion levels of 0.04 percent in mono and 0.08 percent in stereo. However, in "crowded-dial" situations where many strong signals are closely spaced in frequency, it may be desirable to sacrifice widest separation and lowest distortion for the increase in adjacent-channel selectivity afforded by the NARROW mode (70 as opposed to 20dB). This will prevent interfering stations from intruding upon the desired signal.

Other Features

To permit the best compromise between effective interstation-noise muting and reception of weak FM signals, the ST-A7B's muting threshold is user-adjustable. In most cases, the level will be set high enough to completely eliminate all interstation noise, but when an exceptionally weak signal is sought, the muting threshold can be reduced to facilitate its reception. The ST-A7B's output level is also adjustable, for level matching with associated

The Tuning System

Low distortion in an FM tuner is critically dependent on how accurately it has been tuned to the exact center of the channel being received. With most tuners, the user must rely on a center-channel tuning meter (which can be prone to calibration vagaries) to achieve this accuracy, and on AFC (or similar control circuits) to maintain it after the initial tuning. The ST-A7B's Quartz-lock system is a vast improvement over such conventional approaches. Once the user has tuned to

the correct point on the dial an LED will light to show that the station is "locked in." And because the ST-A7B uses quartz-crystal frequency synthesis, with its local oscillator frequency locked to the quartz-crystal reference frequency, stations are always exactly center-tuned. And with precise, program sources.

An external Dolby FM adapter can be used with the ST-A7B via rear-panel jacks.

Suggested list price is \$900.00.

SPECIFICATIONS

Information submitted by
Vern Eaton

<u>GENERAL</u>	<u>Power Requirements</u>	220v ac 50/60 Hz (AEP model) 240v ac 50/60 Hz (UK model) 120v ac 60 Hz (US, Canadian model)
	<u>Power Consumption</u>	45 W (AEP, UK model) 40 W (US Canadian model)
	<u>Dimensions</u>	Appx. 430 w x 170 h x 420 d mm 17 w x 6 7/8 h x 16 d inches (AEP, UK model) Appx. 460 w x 170 h x 420 d mm 18 1/8 w x 6 3/4 x 16 5/8 d inches (US, Canadian model)
	<u>Weight</u>	including projecting parts and controls Appx. 14.1 kg 31 lb 2 oz (net) Appx. 17.3 kg 38 lb 2 oz (with shipping carton) (AEP, UK model) Appx. 15.5 kg 34 lb oz (net) Appx. 18.6 kg 41 lb (with shipping carton) (US, Canadian model)

<u>TUNER SECTION</u>	<u>Tuning Range</u>	87.5-108 Mhz	<u>Sensitivity at 50 db quieting</u>
	<u>Antenna Terminals</u>	300 ohm balanced 75 ohm unbalanced	2.8 uV (MONO) new IHF 14.2 dB 30 uV (STEREO) new IHF 34.6 dB
	<u>Intermediate Frequency</u>	10.7 Mhz	
	<u>Usable sensitivity IHF</u>	1.5 uV new IHF 8.8 dB +0.2 dB	<u>S/N Ratio</u> 80dB (MONO) 75dB (STEREO)
	<u>Frequency Response</u>	20 Hz -15kHz -1.0 dB +0.2 dB 40 Hz -12.5kHz -0.5 dB	

Religious FM station broadcasting

SEASIDE — Northern Oregon Coast radio listeners now have access to a Christian FM station, due to the work of two Seaside men.

Inventor Bill Millikan Sr. has perfected a windmill which provides the transmitter station with all of its power while withstanding mountain winds, which destroyed three previous windmills.

Located 2,000 feet above sea level on a mountain peak 15 miles east of Seaside, the station's facility resembles many bright, oddly shaped kites, atop a tiny square building. But it uses programming — borrowed from KPQQ-FM, Portland — to areas as far away as Cannon Beach and Hoquiam, Wash., while using only 10 watts of power.

From July 22, 1978
OREGONIAN



GOLDEN HOURS RADIO NETWORK and RADIO READING SERVICE

(KOAP-FM Sub-Carrier Channel)

Note: These programs can be heard only on special (SCC) receivers supplied the visually-handicapped and elderly. These receivers are purchased with funds contributed by friends and are placed with our listeners, free of charge, for as long as they want. Golden Hours is an All-Volunteer Project.

MONDAY through FRIDAY JULY 1978

AM

- 6:00 Simulcast of KOAP-FM News, Music, Talkabout and The Radio Reader. (3 Hours)
- 9:00 The Newspapers: Volunteers read The Oregonian, Oregon Journal, Vancouver Columbian, Salem Statesman and other papers. (1½ Hours)
- 10:30 Comedy: Charley McCarthy or Fibber McGee (Mon.), Mel Blanc or Gildersleeve (Tues.), Eddie Cantor or Life With Luigi (Wed.), Al Pearce or Life of Riley (Thurs.), Jimmy Durante or Henry Aldrich (Fri.).
- 11:00 Jess Mason
- 11:05 Lum and Abner
- 11:26 Pacific Powerland
- 11:25 Heartbeat
- 11:30 Great Westerns Gene Autry (Mon.), Western Theatre (Tues.), Roy Rogers (Wed.), Judy Canova (Thurs.), Lone Ranger (Fri.).

PM

- 12:00 Great Music Shows Kraft Music Hall (Mon.), Hour of Charm (Tues.), Railroad Hour (Wed.), Bing Crosby Western Theatre Gunsmoke (Mon.), Have Gun, Will Travel (Tues.), Hop-along Cassidy (Wed.), Cisco Kid (Thurs.), Bell Telephone Hour (Fri.).
- 1:00 Comedy Hour Jack Benny & Phil Harris (Mon.), Red Skelton & My Friend Irma (Tues.), Bob Hope & Duffy's Tavern (Wed.), Fred Allen & Our Miss Brooks (Thurs.), Stan Freberg & My Favorite Husband (Fri.).
- 2:00 Make-Believe Ballroom Dances of the 30's.
- 3:00 The Search with Robert Young
- 3:15 Melody Roundup
- 3:30 Radio Theatre Academy Award Theatre (Mon.), Hallmark Playhouse (Tues.), Halls of Ivy (Wed.), My Little Margie (Thurs.), Reminiscing in Old Time Radio (Fri.).
- 4:00 Spotlight Theatre

- 4:30 Command Performance Armed Forces Radio Service programs of the 40's.
- 5:00 All Things Considered News from National Public Radio (1½ Hours)
- 6:30 TV Talk
- 7:00 Shopper's Guide
- 7:30 Speak Easy
- 8:00 It's Time
- 8:30 Magazine Rack (1 Hour)
- 9:30 Cover to Cover (1 Hour)
- 10:30 Concert Hall (KOAP-FM program joined in progress)
- 12:00 News, Sports, Weather.

SATURDAYS

AM

- 6:00 KOAP-FM Simulcast (4 Hours).
- 10:00 The Newspapers (1½ Hours)
- 11:30 Grand Ol' Opry

PM

- 12:00 Fred Waring
- 12:30 Six Shooter with James Stewart
- 1:00 People Are Funny
- 1:30 The Bickersons
- 2:00 Make-Believe Ballroom (1 Hour)
- 3:00 Dr. Christian
- 3:30 Wayne King
- 4:00 Talking Books: Janet Baumhover concludes reading "Lost Men of American History" by Stewart Holbrook; Gretchen Corbett reads "The Crock of Gold." (1 Hour)
- 5:00 All Things Considered (1 Hour)
- 6:00 Community Calendar & TV Talk
- 6:30 Mixed Media (1 Hour)
- 7:30 Sound Ideas
- 8:00 It's Time
- 8:30 Mixed Media—Part 2 (1 Hour)
- 9:30 These Changing Times
- 10:00 The Electric Disco (KOAP-FM Simulcast).

Note: Schedule is subject to change without notice. KOAP-FM programs are carried all hours on Sunday; consult the radio schedule on the next several pages.



Post Office Box 202 - Whiting, Indiana 46394
WORLDWIDE TV-FM DX ASSOCIATION

**TOUGH
TO BEAT!**

Established 1967

SERVING THE
VHF-UHF DX
ENTHUSIAST



DUES: USA and CANADA, \$11 (via first class); overseas, \$18 (via air mail)
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The VHF-UHF DIGEST is the official publication of the Worldwide TV-FM DX Association. WTFDA is a non-profit organization and a member in the Association of North American Radio Clubs (ANARC).

Persons contributing their efforts for the Worldwide TV-FM DX Association do so without any monetary compensation. Dues and all other revenue cover printing, postage and all other related expenses.

The WTFDA is governed by a five-man board of directors, composed of Frank Aden, Jr., Morrie Goldman, Pete Oprisko, Mike Hogan and John Zondlo. ANARC representatives are Morrie Goldman, Pete Oprisko and John Zondlo.

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