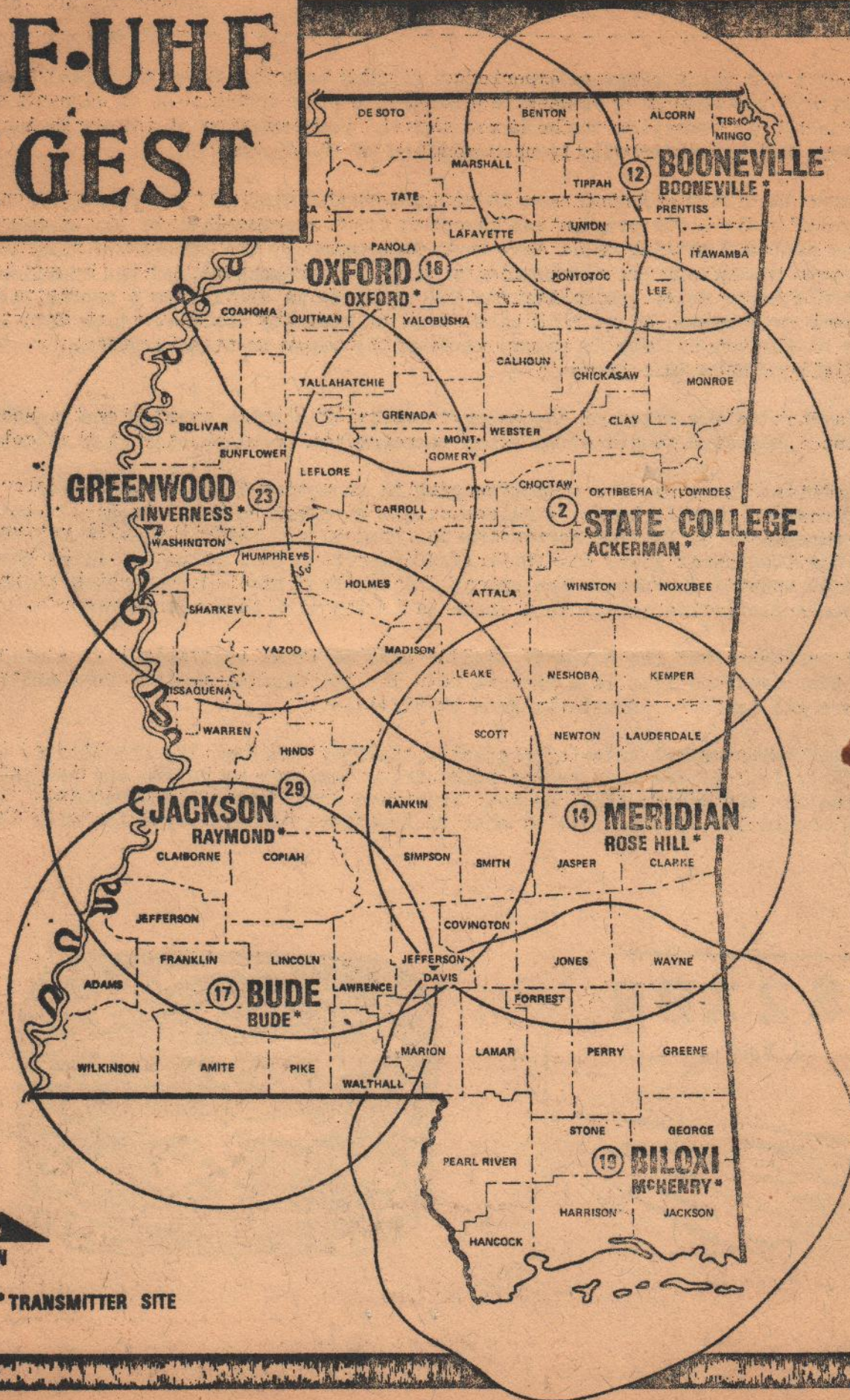


VHF-UHF DIGEST



* TRANSMITTER SITE

PUBLISHERS NOTES

WTFDA HQ
Post Office Box 163
Deerfield, IL 60015

If you just had the strange experience of getting both the March and April issues of the VUD within the span of a week, don't blame the post office. As we mentioned last month, delays in repairing the mimeo slowed the completion of the March issue. The April issue was begun directly upon completion of the March VUD.

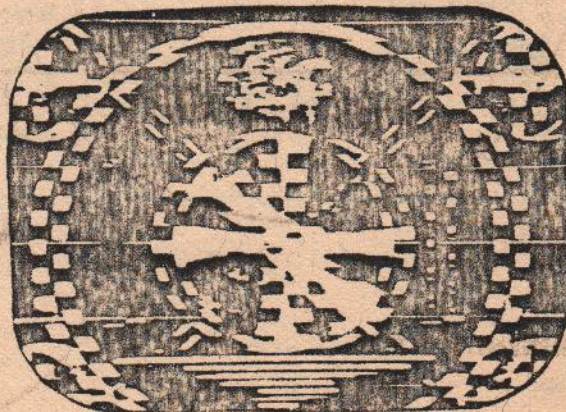
As we move to offset printing next month, you should find the VUD coming on time, and on a regular basis. Our printer has promised quick reproduction of our camera ready copy. In the past our mailing dates have been determined by the publishers time available to complete mimeographing, the condition of the mimeo machine and the supplies on hand. As Ferdie knows well, publishing the VUD by mimeo is not always a smooth operation. Problems even creep out of thin air! Lack of humidity (believe it or not) can cause static electricity buildup in paper, causing the paper to stick together. This was especially a problem this month.

Bob's Teck Notes was typed on the wrong stencils this month causing the heading to be clipped. This also caused a few other reproduction problems with that column.

VHF editor Pat Dyer, reports some surprising F2 reception this month. Solar activity increased! Details in Pat's column... The European Scene is back... this month, with reports of TV DX from across the big pond... DX Mailbag will return next month... Ferdie Dombrowski gives his first ANARC report in this issue... Glenn Hauser has prepared an updated feature on Mexican TV and FM, from his own first hand information. Glenn's Statistics column this month is loaded with many new records.

Another reminder that the WTFDA TV STATION LIST is still available. At a price of \$2, this DXer designed list is a real value! The US, Canada, Mexico, Cuba and Costa Rico are all included. Available from HQ directly.

The Zenith experimental television station, KS2XBR, (channel 38, Chicago) is up for renewal shortly. If the past record holds true, they may be on the air reading their application and making other tests. Video and audio are often scrambled. The photos below should give you an idea of what to look for. (KS2XBR operates with 1KW, at 50' AAT.)



VHF RADIO DX

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

APRIL 1972

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 uses a variety of receivers at his Fair Haven, MD DX cottage. (1) Regency DR-200, 14-tube, for low-and hi-band with 8' wire and 19' vertical antennae, respectively; (2) Regency AR-136D, 9-tube, 108-136 MHz with Blonder-Tounge FM Booster and Finco single-bay FM 10-el Yagi, CDR rotor; and (3) for the pagers, SP-600 with 100' long-wire directed northeast. Only QSLed DX is listed, GMT used.

<u>2-12:</u>	1818, KME 438	35.22	Orange, CA (pager, c.w. ID, 250 w)
<u>10-9:</u>	2342, N8709U	123.6	vic. of Washington, DC (Airplane Services, Inc.; Cessna single-engine)
<u>10-30:</u>	1633, N520S	128.6	s. Norfolk, VA (Texas Gulf Sulphur Co.; Saberline Jet; 24,000 ft)
<u>11-14:</u>	0152, D-ABOX	128.6	over JFK Apt., NY (Lufthansa Flight 493; Boeing 707; 25 w)
<u>19:</u>	1607, -	128.9	nr Dulles Apt., DC (Braniff Flight 10; Boeing 727; 25 w)
<u>20:</u>	1452, N791FT	128.3	35 naut. mi. s.e. Harrisburg, PA (Flying Tiger Line; Tiger 341; DC-8-63 cargo; 25w)
	1503, N5467P	128.	vic. Dover AFB, DE (Mr. Charles R. Miller; Piper Comanche sing-eng; 3500'; 13w)
<u>26:</u>	2047, N5608S	122.5	7 n.m. ene Baltimore, MD (Warner Moore & Co.; Beech Bonanza sing-eng V35; 3500')
	2114, N7629J	122.8	ovr Easton, MD (Chesapeake Aircraft Sales, Inc.; Piper Cherokee sing-eng; 10 w)
<u>27:</u>	1724, N471SP	128.9	20 mi nw of Kenton, DE (Scott Paper Co.; Fairchild F-27F twin-engine)
	1906, N9006S	128.9	ovr Kenton, DE (Mr. N.J. Kanney; Beech D95A single-engine)
	2015, G-AVPB	128.3	ovr Coyle, NJ (BOAC Speed Bird 5007; Boeing 707-336C freighter; 31,000'; 25 w)
<u>28:</u>	0228, G-ASGB	131.1	ovr Millville, NJ (BOAC Speed Bird 522; BAC-110; 25 w)
	1341, N193H	119.7	s of Chesapeake Bay Bridge (Mr. Charles R. Wulton; Beech Bonanza S35 sing-eng)
<u>12-3:</u>	0144, N2600	128.3	ovr Coyle, NJ (Mobile Oil Corporation; Grumman 1159 twin-engine)
<u>11:</u>	1911, N6876Y	119.7	nr Baltimore, MD (Fawn Plastics Co., Inc.; Piper Aztec D twin-engine turbo)
	1911, N4764J	119.7	ovr Chesapeake Bay Bridge, MD (Barbara Feader; Beech Musketeer sing-eng; 10 w)
	2144, N600KC	128.6	30 mi wnw Baltimore, Md (Kimberly Clark Corp.; Dassault/Sud FanJet Falcon, 2-e; 25w)
<u>17:</u>	2316, N9214R	124.0	ovr Swan Point, MD (Martin Marietta Corp.; Lockheed 1329 4-engine)
<u>18:</u>	1800, -	128.3	NYC area (Air Canada Flight 080; DC-9; charter; 25 w)
<u>24:</u>	0233, N111MS	128.7	20 mi n Salisbury, MD (Delaware R. Land Co.; Swearingen AS26AT-2eng prop-jet; 17K')
	1452, N1727T	128.3	vic. Dover, DE (Trans-International Airlines; 19,000'; 250 w)
<u>26:</u>	2202, -	128.3	060° at 130 n.m. from NYC (Air France flight 070; Boeing 707; 28 w)

26: 2203, CF-TOC	128.3	apx 100 mi s Montreal, Que., Canada (Air Canada Flight 601; Boeing 747; 25 w)
2250, CF-CPK	128.3	55 n.m. s Gordonsville, VA (Canadian Pacific Airlines-Empress Ft 882-Boeing 727; 33K')
2348, CF-TIQ	128.3	NYC area (Air Canada Flight 655; DC-8; 25 w)
27: 0243, N2995X	119.4	Baltimore, MD (TSS Flying Club, Inc.; Cessna 177 single-engine, 4-place; 10 w)
1457, N49MJ	128.15	6 mi s.w. Salisbury, MD (N.L. Joseph Const. Co.; Swearingen Merlin IIB prop-jet; 24K'-30w)
1534, N7806M	128.3	ovr Hanover, PA (Mohawk Airlines FH-227)
1655, HK-724	132.5	vic. Washington, DC (Avianca - Aerovias Nacionales de Colombia; Boeing 720B)
1-15: 1906, N6150N	119.7	10 mi n Baltimore, MD (Ames B. Jones; Beech H23 single-engine)
2109, N665T	119.7	ovr Chesapeake Bay Bridge, MD (Travel Air, Beech 95 twin-engine, 5 seat; 9 w)

Terry Colgan, 119 Andrews St., Apt. 14, San Antonio, TX 78209 with a sample "cross section" of his many loggings lately. GMT used.

from College Station, TX:

10-28: 2215, KCD 473	33.70	Wolcott, CT (fire, 100 w)
11-22: 2327, -	35.26	Bellingham, WA (mobilephone)
12-7: 2248, KKI 445	35.58	Houston, TX (pager)
14: 0110, KEO 371	42.50	La Salle, IL (state police)
0153, KKM 248	35.58	Oklahoma City, OK (pager, 500 w)

from San Antonio, TX:

2-18: 0439, KMD 344	35.58	Los Angeles, CA (pager, 493 w)
0453, -	35.46	San Diego, CA (mobilephone)
20: 1709, KGC 223	35.22	Philadelphia, PA (pager)
21: 0200, KSA 936	39.50	Springfield, IL (sheriff)
0214, KSB 235	42.56	Maryville, IL (state police)
0256, -	35.46	Los Angeles, CA (mobilephone)
1644, KCC 482	35.22	Concord, NH (pager)
3-6: 0131, KAB 979	39.90	Falls City, NE (police)
0136, KAA 204	42.06	St. Joseph, MO (state police)
0150, KAA 936	39.46	Dodge City, KS (police)
0211, KAB 309	42.46	Omaha, NE (state police)

Now, my loggings. 30-50 MHz Allied A-2586 with 30-ft indoor random-wire antenna; 50-MHz, Swan 250 with 3-el Cushcraft horizontal Yagi at 20 ft; hi-band, Wards 62-1 with 2-ft whip. Unless noted otherwise, all are F2 propagation modes; bs-backscatter. Spanish daily peak noted if 40-MHz or more. CST used. 50-MHz Es deleted. New underlined.

1-21: 1231, KGC 223	23: 2240, KHB 41 (tr)	2: 1420, Oakland
1236, KCC 482	24: 0105, KHB 40 (tr)	3: 1248, KLR 503
1252, KCC 266	25: 1105, KCC 482	1258, KCA 633
1255, KCE 457	1120, KEE 720	15: 0050, KHB 33 (tr)
1259, KCA 695	1138, KCG 651	17: 1400, KCA 695
22: 0215, KHB 41 (tr)	1155, KCD 555	KCC 482
1414, KOA 796	29: 1903, KQD 313 (Es)	1435, KOP 303
1433, KOK 418	1928, KSJ 815 (Es)	1445, KOA 796
1456, Eugene	2-2: 1327, Portland	1450, KOK 418
1501, KOG 634	1328, KOA 796	1457, KCB 897
1507, KOA 748	1334, KOK 418	1501, KOG 634

- | | | |
|------------------------|-----------------------|-------------------------|
| 17: 1502, KCD 473 | 28: 1316, KOH 894 | 7: 1140, KIN 645 (Es) |
| 1515, KCE 518 | 1325, KCD 395 | 1211, KCC 482 |
| 18: 1044, KQD 313 (Es) | 1330, KCC 825 | 1218, KOA 796 |
| 1052, KfJ 891 (Es) | KDA 383 | 1222, KCB 897 |
| 1125, KCC 482 | 1348, KCA 695 | 1228, Eugene |
| 1137, KSC 645 (Es) | 1405, 43-Spanish | 1257, KOP 303 |
| 1159, KCC 748 | 1407, KCC 482 | 1410, XELPY (bs) |
| 1200, KCA 378 | 1430, KCG 651 | 1445, WB5AEH (bs) |
| 1216, KCB 897 | 1530, KCD 498 | 1540, KOK 418 |
| 1240, KCD 753 | 1600, KOA 748 | 1550, KOG 634 |
| 1244, KCE 518 | 1601, KCC 907 | 1640, KIY 757 (Es) |
| 1300, KCA 695 | 3-2: 1340, KOP 303 | 1650, KIG 300 (Es) |
| 1320, KCE 584 | 1342, KOA 796 | 1700, KKQ 846 (Es) |
| 1326, KCE 579 | 1346, Portland | 1735, LU6-- |
| 1328, KCD 244 | 1415, 46-Spanish | 8: 1031, KQD 609 (Es) |
| 1910, KMA 829 (Es) | 1700, Eugene | 1056, KSJ 815 (Es) |
| 2030, KQT 263 (Es) | 1701, KOG 634 | 1305, KCC 482 |
| 2040, KFL 936 (Es) | 3: 1223, Eugene | 1333, KCB 897 |
| 2218, L Beach (Es) | 1236, KOK 418 | 1350, KCD 244 |
| 19: 1058, L Beach (Es) | 1243, Roseburg | 1357, L Beach (Es) |
| 1114, KFL 936 (Es) | 1353, 45-Spanish | 1400, KCA 695 |
| 20: 1941, KSJ 815 (Es) | 2036, KQD 607 (Es) | 1415, KMA 829 (Es) |
| 1946, KSD 326 (Es) | 2052, KSC 645 (Es) | 1446, KOA 796 |
| KSC 645 (Es) | 2056, KSJ 815 (Es) | KOK 418 |
| 2053, OK City (Es) | KQD 609 (Es) | 1449, Salem |
| 2147, L Beach (Es) | 4: 1326, KCC 482 | 1459, Eugene |
| 21: 1040, KCC 482 | 1330, KCE 518 | 1500, KOG 634 |
| 42-Spanish | 1400, KCA 695 | 1536, KIN 645 (Es) |
| 1059, KOH 954 | 1458, KOP 303 | 1635, 45-Spanish |
| 1100, KCD 582 | 1520, 46.5-Spanish | 1640, KIY 508 (Es) |
| 1220, KCF 308 | 1525, KOA 796 | 1810, KIY 757 (Es) |
| 22: 1415, KCC 482 | 1538, Eugene | 1828, KIG 300 (Es) |
| 26: 1206, KCA 693 | 1539, KOK 418 | 9: 0005, KSC 645 (Es) |
| 1225, KCF 313 | 5: 1442, HK3OK | 0145, KfJ 891 (Es) |
| 1230, KOG 634 | 1538, L Beach (Es) | 1130, KIG 300 (Es) |
| 1323, KOA 796 | 1544, KME 438 (Es) | 1520, 42-Spanish |
| 1325, 43-Spanish | 1850, KIY 508 (Es) | 2026, L Beach (Es) |
| 1329, KOP 303 | 1950, OK City (Es) | 10: 1305, KIY 508 (Es) |
| 1340, Portland | 2002, KAI 927 (Es) | 12: 1613, KFL 936 (bs) |
| 27: 1210, KCC 482 | 6: 1346, KAI 927 (Es) | 1630, 44-Spanish |
| 1215, KCB 217 | 1445, 48.8-Spanish | 1635, KKV 690 (bs) |
| 1216, KCF 569 | 7: 1028, KIY 508 (Es) | (add: 3-7: 1259, KCA695 |
| 1219, KCE 518 | 1045, WA5HMK (bs) | 9: 1047, KSD326 |
| 1700, KGL 710 | 1120, Scranton | (Es)) |
| 28: 1300, KOG 634 | 1123, KGC 223 | |

HK3OK	50.1	Bogota, Colombia	KCD 395	33.90	Brooklyn, CT-f
KAI 927	35.34	Denver, CO	KCD 498	33.70	Sandwich, MA-f
KCA 378	33 /	New Haven, CT-f	KCD 555	33.90	Lyme, CT-f
KCA 633	33.90	Middleboro, MA-f	KCD 582	33.70	Harvard, MA-f
KCA 693	33.90	W Wareham, MA-f	KCD 753	33.90	Putnam, CT-f
KCA 695	33.78	Manchester, NH-f	KCE 457	33 /	Newton, CT-f
KCB 217	33.90	East Lyme, CT-f	KCE 518	33.86	Shelton, CT-f
KCB 897	35.66	Portland, ME	KCE 579	33.78	Westmoreland, NH-f
KCC 266	35.58	Springfield, MA	KCE 584	33.90	Poquonock Br, CT-f
KCC 748	33.94	Windsor, CT-f	KCF 308	33.66	N Reading, MA-f
KCC 825	33.70	Kennebunk, ME-f	KCF 313	33.66	Andover, MA-f
KCC 907	33.70	Blue Hill, ME-f	KCF 569	33 /	Tolland, CT-f
KCD 244	33.70	Falmouth, MA-f	KCG 651	33.70	Derby, CT-f

KCH 954	33.70	N Branford, CT-f	KOH 894	33.70	Winslow, WA-cf
KDA 383	33.90	Milford, NH-f	KOK 418	35 /	WA or OR
KEE 720	33.78	Millburn, NJ-f	KOP 303	35.46	Langley, WA-mp
KFJ 891	35 /	Columbus, OH	KQD 313	35.50	Dayton, OH
KGL 710	31.02	New York, NY-t	KQD 607	35.50	Grand Rapids, MI
KHB 33	162.55	Brownsville, TX-w	KQD 609	35.22	Lansing, MI
KHB 40	162.55	Galveston, TX-w	KQT 263	35 /	Las Vegas, NV-ho
KHB 41	162.55	C. Christi, TX-w	KSC 645	35.58	Chicago, IL
KIG 300	43.58	Atlanta, GA	KSD 326	35.58	Indianapolis, IN
KIN 645	35.22	Miami, FL	KSJ 815	35.22	Fort Wayne, IN
KIY 508	35.22	Orlando, FL	LU6--	50.11	Buenos Aires, Arg.
KIY 757	35.22	Montgomery, AL	WB5AEH	50.1	Metairie, LA
KKQ 846	33.94	Marrero, LA-f	WASHNK	50.1	Rosharon, TX
KKV 690	35.62	Houston, TX	XELPY	50.1	nr Mexico City
KLR 503	33.022	Boston, MA-h	-	35.26	Eugene, OR-mp
KMA 829	35 /	San Diego, CA	-	35.46	Oakland, CA-mp
KME 438	35.22	Orange, CA	-	35.26	Portland, OR-mp
KOA 748	33.90	Seattle, WA-f	-	35.26	Roseburg, OR-mp
KOA 796	35.58	Portland, OR	-	35.26	Salem, OR-mp
KOG 634	33.82	Kent, WA-f	-	35.58	Scranton, PA

f-fire, c-county; mp-mobile phone; h-hospital; ho-hotel; t-transit; w-weather; rest 35 and 43 are pagers; 50-MHz are amateur stations.

A2 tone ID's used by: KAI 927, KCB 897, KFJ 891, KFL 936, KIN 645, KKV 690, KMA 829, KME 438, KOK 418, KOP 303, KQD 313, KQD 607, KQD 609, KSC 645, KSD 326, and KSJ 815

 A very strong increase in solar activity the last month or so has provided an unexpectedly high amount of F2 MUF levels up to 50 MHz. If previously active regions return later in March-April we may be treated with similar happenings. Also, Es levels in the first part of March got to extremely high levels -- once with a theoretical MUF in the 120-MHz range.

 Again, for the benefit of any new members unfamiliar with the mode of propagation known as backscatter (bs), a brief discussion follows.

To get backscatter the F2 or Es MUF must be high enough to provide a direct path to some distant point. Once the signal has reached that point the majority of it continues in a forward direction. However, some of the signal is scattered in other directions by the ground (or ocean) and a very tiny fraction is able to return back in the general direction it came from via the ionosphere. Thus on 50-MHz in TX it is possible to get CA and FL from the south. Total path lengths may come to as high as 8 or 9,000 miles or more. Signals always exhibit a hollow or fluttery sound due to the multiple paths involved. Strengths may be 30 or 40 db below what a direct F2 path might provide.

Backscatter does occur with Es but due to the lower layer heights, the range of distances is limited. Also due to the higher density of neutral atoms in the E-region, the more frequent electron collisions result in greater absorption and therefore weaker signals than with F2. With Es there has been noted direct backscatter from the ionization proper and not involving a ground reflection at a more distant point.

TV QSL

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

Phone: 614-236-0026 (6 p.m.-10 p.m.)
E. S. T.

ARKANSAS: KARK, Little Rock, channel 4, sent a card in 6 days. Signer was Dean Howard, Chief Engineer. (Pat Dyer)

ARKANSAS: KATV, Little Rock, channel 7, returned my letter with a confirming notation signed by Eric Nelson, Operations Manager. Total time: 17 days. (Ronald LeBlanc) Welcome, Ron.

ARKANSAS: KTHV, Little Rock, channel 11, sent a letter in 5 days signed by Cecil L. Suitt, Chief Engineer. (LeBlanc)

COLORADO: KWGN, Denver, channel 2, sent a letter of confirmation in 10 days. Signer was Donald E. Raydon, Chief Engineer (Dave Brown) A friendly station for DXers - a short reply, but they are speedy and reliable. Ed.

FLORIDA: WEAR, Pensacola, channel 3, sent a card with power/antenna information along with a coverage contour map in 14 days. Signer was H.L. Singletary, Engineering Department (Dyer) Sent QSL card and coverage map. Same verie signer...25 days (David Egan)

GEORGIA: WRBL, Columbus, channel 3, sent a letter signed by Joe A. Gamble, Chief Engineer. Time: 8 days. (Dyer)

ILLINOIS: WSIL, Harrisburg, channel 3, sent an "interesting" letter in just under 30 days. Signer was C. R. Gilliam, Chief Engineer. (Egan)

ILLINOIS: WHBF, Rock Island, channel 4, sent a drawn station picture on QSL with a personal message on the reverse. Signer was Robert Sinnett, Engineering. Time: 12 days. (Egan)

ILLINOIS: WGEM, Quincy, channel 10, sent a letter with information about the station and two coverage maps. Signer: Jim Martens, Chief Engineer, who replied in 3 days. (Ron Hade)

INDIANA: WFBM, Indianapolis, channel 6, sends a card in 10 days with power indicated. (Harry Hein)

INDIANA: WISH, Indianapolis, channel 8, sent a QSL card in 6 days with rate card, program schedule, visual power, antenna height, and sales area. (Hein)

INDIANA: WFYI, Indianapolis, channel 20, sent a letter in 8 days with sign-on date, transmitter type, location, peak powers, antenna height, and ERP. Signed by James N. Sheetz, Chief Engineer. (Hein) Excellent, Harry!

INDIANA: WTVW, Evansville, channel 7, sent a mimeographed letter in 46 days with little information. Signer was John Schuta, Chief Engineer. (Hein)

IOWA: WMT, Cedar Rapids, channel 2, sent a letter of acknowledgement in 3 days. Signer was Ross Wilson, Chief Engineer. Info in letter gave ERP, date of first broadcast, stated that WMT was the first station to use 100 KW in the United States, antenna height, transmitter location (Urbanda, Iowa), network affiliation, hours of operation, and last but not least, an invitation to visit the station. (Brown) Dave, why didn't they simply send you a ticket to fly there?? Ha! Certainly sounds like a station which is interested in DXers and we should remember NOT to take advantage of their kindness. (Ed) Same type reply received, also with an invitation to visit them. Total time: 4 days. (Hade)

KENTUCKY: WKYT, Lexington, channel 27, sends a beautiful, large, color QSL in 6 days. Power and tower height are given. Signed by Harold Schumacher, K4ASB, Director of Engineering. (Hein) Interesting, Harry, I thought this station had a reputation as being a non-verifier. (Ed)

KENTUCKY: WKLE, Lexington, channel 46, sent a letter from Donald A. Littleton, Assistant Director of Engineering. The report was sent to Lexington to the address heard on all Kentucky ETV Network stations at sign on and sign off. Total number of reports sent: 5 Mr. Littleton confirmed my reception of the following: WKLE (46) Lexington; WKZT (23) Elizabethtown; WKMR (38) Moorehead; WKON (52) Owenton; and WKSO (29) Somerset. (Rosenberg)

KENTUCKY: WMLG, Lexington, channel 62, sent a letter in 9 days with coverage map, transmitter and antenna types, audio/visual ERPs, AAT, and airdate-June 1968. Signed by Bill Bratton, Chief Engineer. (Hein)

KENTUCKY: WHAS, Louisville, channel 11, sent a letter with information about the station. Signer was William Hunter, Chief Engineer. Time: 34 days. (Hade) A letter in 29 days with ERP, transmitter location, antenna type, antenna height, and some station history. Signed by William J. Hunter, Director of Engineering. My 100th verified. (Hein) Congrats on QSL number 100, Harry!

LOUISIANA: WRBT, Baton Rouge, channel 33, sent a letter and pocket card in 30 days signed by Robert E. Leach, Director of Engineering. (LeBlanc)

LOUISIANA: KNOE, Monroe, channel 8, sent a letter signed by Ray Boyd, Director of Engineering in 5 days. (Dyer)

LOUISIANA: WVUE, New Orleans, channel 8, letter in 14 days signed by Allen L. Gunderson, Chief Engineer. (Dyer)

MAINE: WMTW, Poland Springs, channel 8, sends a brief letter and colorful booklet about their transmitter. Parker H. Vincent, Chief Engineer, posted the reply in 4 days. (Egan)

MAINE: WCSH, Portland, channel 6, sent a letter signed by Thomas A. Leavitt, Chief Engineer. Total time: 9 days. (Egan)

MARYLAND: WMPB, Baltimore, channel 67, sent a letter of confirmation, signed by R.S. Duncan, Director of Engineering. --- from the "Maryland Center for Public Broadcasting", which also operates WCPB, channel 28. (Rosenberg)

MARYLAND: WMAR, Baltimore, channel 2, letter of verification sent in 6 days from G. W. Wooden, Assistant Chief Engineer. The letter gave visual and aural power, antenna height, and antenna height ASL. (Brown)

MICHIGAN: WOOD, Grand Rapids, channel 8, sent a large card with information about the TV, AM, and FM outlets. Signer was Charles Robison, Chief Engineer. Time: 7 days. (Hade)

NEBRASKA: KDUH, Hay Springs, verified in 13 days in response to a report containing program information and a tape of the audio. A letter was signed by Marvin W. Olson, Chief Engineer, who taped a verification statement and information about the antenna and microwave link on the tape before returning it. (Brown)

NORTH DAKOTA: WDAY, Fargo, channel 6, sent a very very brief letter (the letterhead was three times as large!) signed by J. M. Hetland, Technical Director. Time: 6 days. (Egan) Dave, the important item is that Mr. Hetland did reply to your letter-I'd settle for a sentence or two for confirmation....we should be pleased he even responds, as North Dakota is a most desirable TV DX Catch.

CANADIAN

QSLs

MANITOBA: Per Dave Egan, a verification was received 4 YEARS ago from CBWFT in Winnipeg (ch 3) from a Louis Theriault, Le Service des Relations avec l'Auditoire. A most desirable QSL, so we have presented this information in the hope that it will enable some of our members to obtain a verification from CBWFT.

NOVA SCOTIA: CJCB, Sydney, channel 4, sends a confirmation letter in 5 days. (Brown)

Thanks to this month's contributors, J.J. Rosenberg, Dave Brown, David Egan, Ronald LeBlanc, Harry Hein, Pat Dyer, and Ron Hade. Thank you, gentlemen!

Many other contributions and contributors are on hand - please bear with me if yours does not appear immediately - I really am trying to get a good cross-representation. Say, don't you West Coast members DX? How soon will a California DXer let us here of his/her loggings of all those Far West stations? See you next month...

By:

Glenn Hauser

Von Ormy TX

MEXICAN FM-TV

A February journey to Mexico City proved to be both enlightening and confusing, with regard to the development of FM and TV in Mexico.

I visited all three commercial television facilities. Telesistema Mexicano (TSM), the home of XEW-2, XHTV-4, XHGC-5 (and repeaters XEX-7, XEQ-9, XEZ-3 were also represented by plaques on the building at Av. Chapultepec 18), provided an extensive guided tour of their complex, formerly a radio studio. Hundreds of autographs dating back to 1943 adorn the floors in the main hallway.

Jesús Luis Bas, the sales manager for the W2 network, provided me with a book of coverage maps for each of the 50 stations. Unfortunately, close inspection of the book reveals a large number of inconsistencies and self-contradictions. At first glance the maps appear to show coverage contours, but extremely complicated patterns develop in some cases where stations actually overlap, but the maps only show the dominant area of each station. As I had suspected, most of the new stations mentioned in the October '71 VUD are actually low-power translators, well under 100 watts.

There are two separate XHAH-TVs, both on ch. 8--one the high power Las Lajas Ver mountaintop relay somewhere southwest of Jalapa, and the other a 1700-watt unit in the city of Córdoba. Apparently the problem of co-channel interference is reduced by intervening mountains, or ignored. A similar case exists in Guanajuato, where there is a 27-watt unit on channel 3 in an area already served by XEZ-3, El Zamorano Qro (and by XHL-10).

Altzomoni and Paso de Cortés Mex appear to be the same place, on the higher slopes of the Ixtaccíhuatl volcano between Mexico City and Puebla; XEX-7 and XEQ-9 cover a big area surrounding the DF, primarily regions blocked by mountains from picking up the TSM transmitters in downtown Mexico City. (Taxco Gro, for example.)

Ch 2, 4, and 5 each has its own self-supporting tower next to the studios. Ch 8's tower is a few blocks away, but XHTM studios are quite a distance away on the west side.

In contrast to Telesistema, the studios of Televisión Independiente de México (ch 8) were heavily guarded by pinkertons and fences. After persisting an hour, I was finally invited in for a tour of the place, guided by a muy guapa secretary. She was justifiably proud of TIM's rapid growth in competition with TSM--and of TIM's superior production and equipment. TIM also has much more room than TSM, having taken over a former movie studio, complete with back-lots and a soccer field. I saw the outdoor set of "Hermanos Coraje," a top-rated series also syndicated into Guatemala. Buxom actresses were all over.

Channel 13 has studios in the basement of the Latin American Tower, tallest building in the city, and transmitter atop it, where I was bombarded with kilowatts of RF while on the observation deck. The manager acknowledged that ch. 12 in Monterrey is an affiliate, but denied any plans for building up another national network.

In a dingy building across the street from TSM is Cablevisión, which originates a channel of its own with discarded TSM equipment, and brings in KGBT-4 and KRGV-5 on another channel. Only one of them can be watched at any one time, and news is censored.

Host during my stay was the Canadian diplomat, DXer and editor-extraordinaire of NASWA's QSL section, Gregg A. Calkin. He has graciously consented to provide a copy of "Tele-Guía" (a weekly similar to TV Guide) as a DXing aid to anyone who sends him 44¢ in mint US airmail stamps (or Canadian equivalent), not attached to a 9x5" self-addressed envelope. Tho called the "Edición Nacional", it gives full details only for Mexico City stations; however, programs fed into the networks of ch 2, 4, and 8 are indicated. Gregg's address is: Río Balsas 35-702, Colonia Cuauhtemoc, México 5, DF.

On a visit to XEDA-90.5 a few blocks away we met José Lozano, who signed our verie six years ago and happens to be the brother of a prominent San Antonio broadcaster. In same building are XELA-98.5 and three MW stations. Sr. Lozano also showed us the Stereo Rey headquarters, (XHV-102.5) and the new XHBST-104.9, "StereoBest", English with NBC affiliation, recently purchased from XEVIP. At the university we also saw XEUN-96.1, which is on the air, but with only 1 kw is inaudible across town.

Through Gregg we learned of a Mexican equivalent to "Broadcasting Yearbook". From it we gleaned most of the information on the next page. Biggest surprise was a group of 35 "Estaciones Oficiales" established by a 1969 presidential decree. One of them may explain Bob Cooper's mysterious catch, XEHR-3, if the call letters were reversed. So far we've not been able to discover any further details on these previously unknown stations.

"OFFICIAL" TV STATIONS

(Further information is lacking; these may not even be on the air yet. They may be low power, or even mobile, as most are keyed to states rather than cities. However, many of the state names could also be taken to refer to a city. Be on the lookout for them!)

2	XHEI	Oaxaca	6	XHEV	San Luis Potosí
	XHEK	Chiapas		XHEY	Sinaloa
	XHEM	Campeche		XHFG	Sinaloa, Sonora
	XHEU	Hidalgo, Querétaro, San Luis Potosí	7	XHER	Yucatán
3	XHER	Jalisco, Colima, Michoacán		XHET	Guajuato, Michoacán, Querétaro
	XHEZ	Durango, Zacatecas	8	XHEC	Michoacán, Guerrero
	XHFP	Tabasco, Chiapas, Campeche		XHEX	Nayarit, Jalisco
4	XHEO	Oaxaca, Veracruz, Puebla		XHFN	Monterrey (NL)
	XHEE	Guerrero, Michoacán		XHFQ	La Paz (BCS)
	XHEH	Oaxaca		XHFR	Hermosillo (Son) (conflict w/XEUS)
	XHEQ	Quintana Roo, Yucatán	9	XHEP	Quintana Roo
5	XHEF	Guerrero, Oaxaca	10	XHEW	Zacatecas, Aguascalientes, SLP
	XHFB	Sinaloa	11	XHFM	Ciudad Juárez (Chih)
	XHFF	Cananea (Son)		XHFJ	Chihuahua
6	XHEA	Hidalgo, Toluca (Méx)	12	XHEB	Puebla, Morelos, Guerrero, México
	XHEG	Oaxaca		XHES	Jalisco, Michoacán
	XHEJ	Veracruz, Tabasco, Chiapas	13	XHFS	Torreón (Coah)
	XHEL	Guerrero, Michoacán			

Highlights of new TV information (a full revised list will follow in a few months):

2	XHW	Guadalajara Jal (ex-XEW0; mis-print or change?)	9	XHGA	Guadalajara Jal (TIM, 75 kw; note call)
3	XHMA	Parral Chih (call stands for José María Acosta, owner)	9	XHFN	Tampico Tamps (TIM, note call)
5	XHHH	Tehuantepec Oax (new, 25 kw)	10	XHKG	Compostela Nay (new, 20 kw)
			12	XHAK	Hermosillo Son (note call)

TV stations "próximas a operar": kw

3	XHBO	Oaxaca Oax	5.	12	XHND	Durango Dgo	3.8
4	XHAF	Tepic Nay		13	XHPB	Piedras Negras Coah	5.289
6	XHTL	Puebla Pue (seen by Cooper)		13	XHUT	Ciudad Victoria Tamps	0.335
7	XHTN	Nogales Son		14	XHEM	Mexicali BCN	41.526
				45	XHBJ	Tijuana BCN	171.479

FM stations "próximas a operar":

89.1	XHRZ	Nogales Son	0.94	99.3	XHNC	Nuevo Laredo Tamps	1.
89.3	XHNP	Puebla Pue	3.276		XHNQ	Acapulco Gro	
91.5	XHJC	Mexicali BCN	1.		XHTL	San Luis Potosí SLP	3.731
91.9	XHRLM	Ciudad Mante Tamps	3.69	99.7	XHOA	Toluca Méx	1.405
	XHPC	Córdoba Ver	4.	100.1	XHVA	Tampico Tamps	3.85
93.5	XHNY	Irapuato Gto	0.25		XHPM	San Luis Potosí SLP	3.64
93.9	XHQT	Nogales Son	4	100.5	XHRJ	Toluca Méx	1.
94.1	XHOH	Veracruz Ver	3.4	101.3	XHZA	Toluca Méx	0.922
94.5	XHTY	Tijuana BCN	3.3	102.5	XHEC	Sabinas Coah	1.
95.1	XHNH	Irapuato Gto	3.73				
95.3	XHOX	Tampico Tamps	3.844				
96.1	XHQS	Tijuana BCN	0.95				
	XHOB	San Luis Potosí SLP	4.				
8	XHON	Tampico Tamps	0.972				
96.5	XHTA	Piedras Negras Coah	1.				
	XHOP	Villahermosa Tab	4.				
96.9	XHUZ	Ciudad Acuña Coah	3.69				
	XHNG	Tampico Tamps	3.844				
97.7	XHQF	Tijuana BCN	3.625				
	XHNC	Tepic Nay	0.9				
98.5	XHRD	Tijuana BC	0.999				
	XHQK	San Luis Potosí SLP	4.				
99.3	XHRN	Tampico Tamps	3.69				

Miscellaneous changes to October list:

90.3	XHIS	Tijuana BCN (per Dennis Smith)
91.3	XETRA	Tijuana BCN (new)
93.2	XHQQ	Monterrey NL (ex-XEH)
93.7	XEJP	México DF (new; R. Variedades?)
97.3	XHRE	Piedras Negras Coah (new)
97.7	XERC	México DF (new, 1 kw)
100.1	XHERS	Tijuana BCN (ex-XHOK, per Smith)
103.3	XERP	México DF (not 103.1; 0.25 kw)
104.1	XEDF	México DF (new, 10 kw)
104.9	XHBS	México DF (ex-XHVIP; see text)
105.8	XEOD	Veracruz Ver (link list 165.8...)
107.3	XEQR	México DF (new, 1 kw)

Best of luck in DXing Mexico! 73 de Glenn.

CCI un-ids

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

APRIL 1972

Plans are being made for the reestablishment of a central file of TV Guides, to be used by this editor as a basic reference for resolving the identity of unknown stations. It is expected that I will have the 60 editions, covering the US and Canada, by the time your late spring unIDs begin pouring in, and a significant increase in the number of IDs should result. And now, more unIDs from Summer 1971:

Stu Grade, 110 S. 35th St, Apt. 19, Council Bluffs, Iowa 51501

Sat May 22 Es ch. 2 1115 MDT - French prgrm, like "Amer. Bandstand"
PTA: W. Canada (no "F" stations there)
Wed May 26 Es ch. 2 1029 MDT - "Good Morning Show" PTA: W. US & Canada
Fri May 28 Es ch. 3 1759 MDT - Caption of city area: "Valley View,"
Start of "Maverick" PTA: Idaho
Sun May 30 Es ch. 2 1410 EDT - Movie For A Sunday Afternoon: "Rains
of Ranchipur" This may be the same stn.
as unID in Mar CCI: Prus - May 23-1725
Mon May 31 Es ch. 2 0858 PDT - "Romper Room" w/ Sally Spinko PTA: W. US
" " " " ch. 2 0900 PDT - Ad: Levitz Furniture (THIS IS KATU - Ore)
" " " " ch. 2 1720 MDT - Ad: Oak Forest Bank, SW US (KPRC definite

Emile Courcy, 15 Garfield St., Taunton, Mass. 02780

Aug -- Tr ch. 6 0300 EDT - ID slide (photoed) with call "6ix" and
fishing boats tied up in harbor. WCIX-6
said it was not theirs - Are they wrong,
or is that type used by another station?

Les Prus, 1615 Pierre, Manhattan, Kansas 66502

Thu May 27 Es ch. 2 0800 PDT - local news "Second Cup of Coffee" with
the "o" in coffee shaped like a cup.
Western Canada sports. PTA: BC, ALTA, SAS

Dave Brown (Farmville VA) saw an ID slide similar to that seen by Dick Saeta on Dec 14th, (FEB CCI, p. 3) but the map was of Texas rather than the United States. It is very possible that both DXers logged XEFB-3 that evening - can anyone confirm XEFB's use of that style of ID slide?

The "KIR-91" slide (FEB CCI, p. 4) has also been seen by Jerry Pulice of New York by MS. It seems to be located in the southeast area of the US. Does anyone have access to a list of calls for studio-to-transmitter links? Suspected stations, channel 3, are: WAVE WREC WRCB WBTW WWAY KTBS KATC WLBT WEAR WRBL WSAV.

Jerry Pulice, 143 Gibson Ave, Staten Island, New York 10308

Mon Feb 21 MS ch. 6 0610 CST - 3/4 CB with call in ellipse at top right
PTA: Central US

Many thanks to Bill Heusmann, who IDed Jerry's Oct 1-0540 logging (FEB CCI) unID-9, four bar pattern as CFTO in Toronto. Contributors to CCI: I would like to be informed of which unIDs in previous months have been IDed by other members. Please include this info, if any, in your regular reports to CCI. (I do not want to waste time on loggings already IDed)

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227

Tue Dec 14 Es 88.5 ??? 1900 CST - Ad for "Budget Rent-a-Car at Tecumseh Road & Walker. Phone 256-2393 and 258-4555. Since non-educational station, an image or cross-modulation is suspected, rather than TV ch. 6 audio. PTA on this and next three loggings: MN, WI, MI, IL, and IA.

" " " " 98.1 1900-30 CST - ID "sounded like KQOO."

94.5?? " " " - Ads for "Specialized Sound Systems" at 409 State and "Mother Tucker's" stores"

94.5?? " " " - Ad for "Night Owl Food Marts - 59 x

Dave Brown, Route 1, Box 514, Jackson Heights, Farmville, Virginia 23901

16 Jul 71 Es ch 2 1400 CDT - Ad for "Kozak? State Bank." (This was for Cozad Bank, Cozad NE - KNOP-2 for sure!

Fri Mar 3 Es ch 2 1835 CST - "Mayberry RFD" (Definitely KQTV-2)

" " " " 2 " " - "Beat the Clock" (maybe KNOP-2 ??)

" " " " ch 5 2200 CST - End CBS prgrm, start "Eyewitness News" (This one is KCMO-5 Kansas City.)

Richard E. Wood, Dept. of Foreign Languages, L.S.U., Baton Rouge, LA 70803

Tue Mar 7 Es 93.7 1856 CST - Mexican: "Radio Variedades" with CST time check & request music. XHPA? (FBIS list shows no slogan of that type - it could be a new station or old one with new slogan.

" " " Es 101.9 1826-2000 EST - Mexican or Central American Stereo station with tropical, romantic vocals: "Estereotropico" was the slogan ID. (Possibilities include XHVE "Stereo Rey" Veracruz on 102.1 and "R. Centro Stereo" in the Dominican Republic 102.0

If anyone sending in an unidentified station report is in a hurry (perhaps to get a QSL, etc) and wants an immediate reply from me rather than waiting the six to eight weeks for the VHF-UHF DIGEST to arrive, enclose a self-addressed stamped postcard or envelope with your report and I will mail back the information to you as soon as it is determined.

Although I normally do not go scrounging around in the various DX columns for unIDs, the remainder of this page must be filled. So, from the pages of Western DX, Feb 72 we have the following:

Frank Aden - Dec 5 - your CBS movie station cannot be WKY-4, as they are NBC and carry Disney's World of Color. Much more likely are WHBF, KMOX, and KDFW. You can probably determine which one through Es plotting or local ads, etc.

Bob Cooper - Dec 14- WLWC-4 does signon at 0455 CST. As for the other MS unIDs, a good percentage of these might yet be identified through Dave Brown's Signon/Signoff file. Send details to CCI and we'll work on them.

If you really want your unID loggings identified, CCI is the place to send them. They will not be noticed in the DX columns, and the TV DX editors will phase out the practice of including them now that CCI is a regular operation. So, get the most out of each DX opening by having your unknown stations IDed by CCI. For best results, include as much info about the ID as possible, including the direction and stations IDing at about the same time.

Until next month, 73. Les

Bob's TECK NOTES...

BOB'S TECK NOTES
April 1972 - Page One

Bob Cooper, Jr.
2609 Chaucer Drive
Oklahoma City, Okla. 73120

WHAT HAPPENS (almost) EVERY APRIL ...

Warm(er weather) returns. Cold goes away.

THE DX SEASON STARTS ALL OVER AGAIN!

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

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

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

Es

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

April Es seems to have little form to it. It can occur in most any direction, and with suddenness. And it can (and often does) shut down very quickly. IF there is any auroral activity during April, the chances for Es activity is markedly increased during the 73 hour period immediately following the onslaught of the auroral activity. If you live far enough north to be attuned to the presence of auroral activity, it will help to alert you to the possibility of auroral-induced Es soon thereafter.

Anytime after April 25th, Es to the south or southeast chances a link up with Caribbean area Es and can bring in reception from one or more of the island stations in Puerto Rico, and points south and east, or, Venezuela. The subject has been covered extensively in previous teck notes. The best time of day, based upon experience, for this sort of double or triple hop Es occurrence is after 4 PM and before 7 PM local standard time.

In summary, to keep an eye peeled for Es:

- (1) Turn on the receiver and let it run on your lowest low band (2-6) clear (non-local service) channel. Keep an extra close eye on the receiver between 8-10 AM, 11AM and 1 PM, and 4PM to 7 PM. Your antenna should be pointed into an area that produces Es reception (ie. if you live in the NE, point south or SW, etc.).

TROPO BENDING

Tropo bending (tropospheric inversion) is the most common form of "DX". Stations 100-300 miles distant are considerably stronger than normal (15-30 db) in the early morning hours (6-9 AM most common), and in the mid to late evening (8PM-11 PM most common). This type of "DX" is very common virtually all summer long, and DX'ers with better than average installations usually pay little or no attention to this type of improvement in DX conditions;

simply because it is almost always there. The early morning variety, caused by the sun's heating of the mid and then lower atmosphere, forms a temperature inversion layer in the 500-3,000 foot level of the atmosphere. This inversion level tends to refract VHF and UHF signals beyond their normally horizon-limited coverage areas for distances of up to 300 miles. If your installation is good enough, you probably already receive some type of forward scatter signal over these distances anyhow, on a regular day in and day out basis. With the added help of the morning (or evening cool down) temperature inversion, these signals lose their irregular sharp fading and increase in signal strength by as much as 30 db.

This type of DX is typified by gradually weaker signals as you find stations further and further away (ie. 100 miles, 150 miles, 200 miles, etc. out to 300 miles) coming through. Eventually you reach a distance where the signals are weak enough that your equipment simply will not respond to stations or signals any further away. That is the limit of your equipment sensitivity (and not necessarily the limit of the "opening").

TROPO DUCTING

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

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

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

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

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

With April a transition month for weather, it is also a very good month for the possible formation of ducting.

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

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

TV AND FM RECEIVING ANTENNAS:
FANTASIES, FADS, AND FACTS
PART V

LOG PERIODICS

Most commercial antennas pushed today are the log periodic (LP) type. Quite probably, most DXers -- especially those new to the hobby -- use a LP type.

The huge advantage of a well-designed LP is its very good impedance match (low VSWR) and relatively even gain across wide frequencies. No antenna known today allows better coverage over very wide bandwidths as well as the LP. Unfortunately, it usually offers less gain per element and boomlength than a yagi; accordingly, beamwidth is fairly wide. F/B and F/S ratios can be excellent, and side-lobes should be less than wide broadband yagi types.

The rise of color TV prompted most antenna manufacturers to use the LP type. JFD is credited with exploitation of the LP design. The principles of LP operation, however, existed for many decades. In fact, some companies offered antennas using LP principles well before JFD, but they didn't catch on.

The many strange LP designs we see today are just a smokescreen. That is, since the principle of LP operation is well known, it is easy for a designer to predict expected results from any design. Shortcuts, to save money, are common. The tradeoff, of course, is in performance. Unfortunately, emphasis is often not on design but rather (1) how to create a "tricky" phase harness and (2) how to disguise that basic LP so it doesn't look too much like other LPs. In achieving this individuality, many antenna manufacturers have chosen incredible designs that almost exhaust the imagination.

Recognizing a LP -

To the untrained eye a basic LP antenna looks like a yagi. If you can't recognize a basic "non-concealed" LP, you'll have a heck of a time recognizing those LPs that take many exotic shapes.

The LP uses the mathematical periodic progression principle of the infinite spiral. Translated into antenna hardware, this usually means half-wave long elements (similar to a yagi) and one or more booms. The one item that distinguishes the LP from any other antenna type is the wiring between antenna elements. As shown in Figure 8A, the yagi consists of only one, two, or three driven elements that are interconnected; the directors and reflector are not electrically but rather electromagnetically connected. In 8B, all LP elements are interconnected through a crossed 2-wire harness.

Figure 9 shows several other means of interconnecting elements. (The basic crossed-wire harness of 8B was the first method and is still used today.) In 9A, an insulator between adjacent elements provides a means of routing the two wires at 90° bends so they become transposed by 180°. This is difficult to draw, but the result is the same as crossing two wires (8B). Jerrold Paralogs use this technique to disguise the crossing.

Winegard used a zig-zag affair (Figure 9B) to achieve similar results in their initial venture into an all-channel LP. They used a short boom and close element spacing, advertising that performance was equal to that of longer, larger LPs. They lied.

Many LP designs today use an infinite balun or tapered transmission line (T-line). A JFD LPV shown in 9C consists of two parallel booms that form a T-line. Elements are attached intermittently to each boom. This simple (but heavier) design eliminates corrosion that often occurs at tie points of harnessed LPs caused by cheap hardware. The JFD LPV elements just swing out and look similar to a yagi. In fact, this dual-boom design looks like two 1/2 yagis. JFD still uses the V-ee elements in its TV LPs, but the V-ing does not change the basic LP effect.

Winegard and Channel Master wedges (9D) use two booms to form a balun, a sort of tapered T-line. Called a SC wedge series, these Winegards probably are the most popular antenna today. However,

their modest performance (typical of LPs) compared to high cost and large wind/mast area make their use for serious DXing questionable, even if a single antenna is all you can erect.

All types described use some sort of interconnection between elements. It doesn't matter if elements are V-ee'd or straight, or if one or two booms are used.

How LPs Work -

Basically, a standard LP works by adding individual voltages produced in each element. Using Figure 10, you see how the longest element develops the most voltage at channel 2, the next largest element develops less, etc. Since voltages add in phase, the net result is a summed total of all voltages at the feed point. Unlike yagis, the LP uses voltages produced in each element, whereas the presence of, say, a HB element between two low band yagi elements could impare the phase relationship enough to lower the gain or deteriorate the pattern.

Obviously, as the frequency of received signal increases (ch.6 example), those elements that contribute the most to total antenna gain are those located toward the front (small element) end of the antenna. But the principle is identical to that given for channel 2: the element closest to $1/2$ wavelength contributes the most, and others add a lesser value.

However, in sophisticated LPs seen today elements longer than $1/2$ wavelength at a given frequency might develop more voltage than the $1/2$ wavelength long element. This is especially true of elements that are an exact multiple of 0.5 wavelengths long (i.e., 1 wavelength, 1.5 wavelengths, etc.). To enhance this effect, some companies "force" an element to work better on several frequencies. The "cap-dipoles" used in LPs designed by JFD fall into this class. The effect is not unlike a trap short wave antenna, where a single long wire is made to work on several short wave bands.

The early Channel Masters LP series (Crossfire) used V-ee'd folded dipoles at key points along the LP element. This increased HB gain and directivity because these elements act like two half-waves in phase. In fact, many LPs have 3 to 6 db more gain on HB than on LB, but expect 6 db average on LB and 9 DB on HB for most 15-20 element LPs.

Pure Logs vs Hybrids -

Typically, each major manufacturer offers a family of LP antennas. Element length, boom length, and cost increase as you go through the family from "suburban" to "deep fringe".

However, since LP antennas have lower gains than yagi types, manufacturers add yagi-type director elements in front of (or in between) LP elements in the larger, more expensive versions. A typical family might look like that shown in Table 3.

<u>Total Elements</u>	<u>LP Type Elements</u>	<u>Yagi Type Director Elements</u>
5	5	0
6	6	0
8	8	0
10	8	2
13	8	5
16	10	6
19	10	9

The first three types are called "pure" LPs because they consist of LP type elements only. The best overall performer of these is probably the 8 element type, because all of its elements are LP type. Expect gains of about 3 to 4 db on LB and 5 to 6 db on HB, F/B ratio of 15 db, F/S ratios of 20 db, and very low VSWR (1.5:1 typical throughout).

As directors are added, gain increases on most channels. But, impedance match may become worse, and F/B and F/S ratios probably suffer. So it's the same old "element game", where a 16-element LP may have poorer overall performance than a pure 8-element LP in the same series. In fact, a JFD 19-element LP that I tested had F/B ratio of 1:1 on one channel; the 16-element version showed 2:1 on the same channel! That performance is nothing to write home about, but this JFD antenna series was otherwise fairly decent.

Some manufacturers use a LP that includes yagi elements between LP elements. They might use this scheme from small to large version. The effectiveness of this design is difficult to

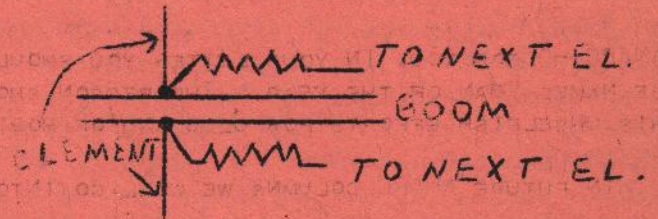
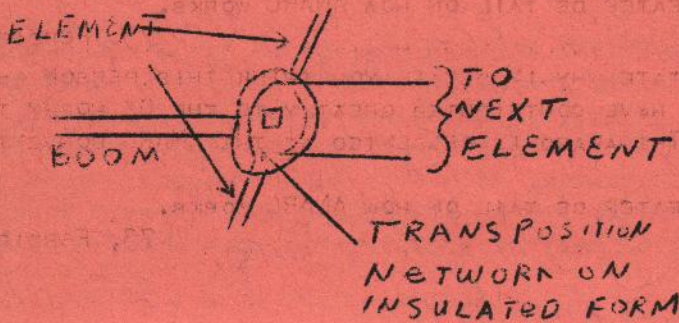
evaluate, but quite likely this design shows characteristics similar to a LP with several directors stuck on the front.

NOTE: The February, 1972, Consumer Reports reviewed suburban VHF, suburban VHF/UHF, and fringe VHF antennas. Although only one model within a family is tested, the article has some merit. Unfortunately, the largest in the family was not tested.

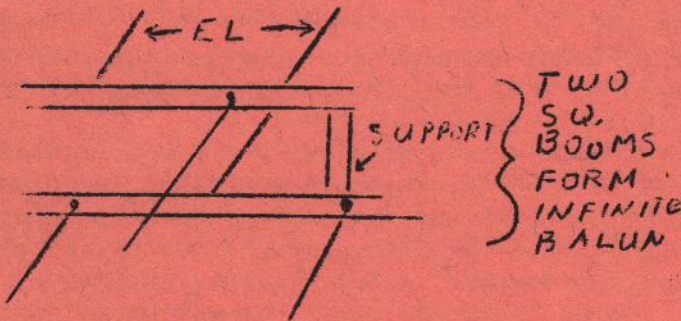


8a) Yagi; only driven elements are interconnected.

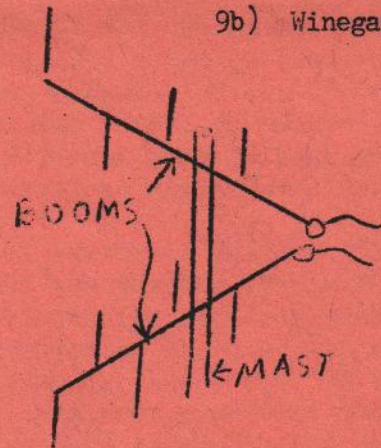
8b) Log; all elements are interconnected



9a) Jerrold Method



9b) Winegard Method



9c) JFD Method

9d) Wedge



at ch. 2 =	1.0V	.9	.8	.7	.6	.5	.4	.3	.2	.1	= 5.5V
at ch. 6 =	.1	.3	.5	.7	1.0	.9	.8	.7	.6	.5	= 6.1V

Figure 10. Analogy shows voltage addition effect of LP for channels.

ANARC.....

THIS IS MY FIRST WRITING OF ANY KIND SINCE THE TRANSFER OF HQ TO THE CHICAGO AREA, AND SOME OF YOU MAY HAVE WONDERED ABOUT IT. I HAVE BEEN RECEIVING MOST OF THE MAIL UNTIL RECENT DAYS; I HAVE ALSO BEEN AUDITTING THE BOOKS FOR 1971. THE TRANSFER WAS NOT AN OVERNIGHT THING AND IS STILL GOING ON. WHEN ALL THIS IS COMPLETED, I WANT TO WORK ON TV MAPS AND AN UPDATED EXPANDED TEST PATTERN GUIDE AS WELL. SO I HAVE BEEN BUSY, AND WILL CONTINUE TO BE BUSY INDEFINITELY.

I WISH TO THANK ALL THOSE WHO SENT CHRISTMAS CARDS. I DIDN'T SEND OUT ANY AT ALL THIS YEAR BECAUSE OF CLUB TRANSFER ACTIVITIES, THE HIGH COST OF MAILING CARDS, ETC. THE INCREASED WORK LOAD OF ANSWERING HUNDREDS OF INQUIRIES, PUBLISHING AND MAILING HUNDREDS OF BASIC COURSE/NEW MEMBER PACKAGES THE LAST MONTHS OF 1971 WAS DEVASTATING, AND I'M CERTAINLY GLAD IT IS DOWN TO A VIRTUAL STANDSTILL NOW. NOW ITS ALL SOMEONE ELSE'S PROBLEM, AND THEY CERTAINLY WANTED IT.

THERE WILL BE A PERIODIC ANARC COLUMN IN THE VUD, TYPED BY ME, BUT IT WILL NOT BE MONTHLY. MOST OF ANARC'S ACTIVITIES ARE CONCERNED WITH MEDIUM AND SHORTWAVES AND THE CLUBS DEVOTED TO THOSE BANDS. BUT SOME INFORMATION IN THE MONTHLY ANARC NEWSLETTER IS OF GENERAL INTEREST & THIS COLUMN WILL TELL YOU ABOUT IT; I WILL ALSO ADD OTHER INFORMATION AT MY DISCRETION TO THE COLUMN AS I SEE FIT FROM TIME TO TIME. BUT FIRST I SHOULD EXPLAIN SOMETHING ABOUT ANARC.

ANARC STANDS FOR THE ASSOCIATION OF NORTH AMERICAN RADIO CLUBS. IT IS NOT A SUPER-CLUB BUT RATHER A UNION OF ALL MAJOR CLUBS OF NORTH AMERICA, SIMILAR TO ARRL'S ROLE AS A UNION OF AMATEUR RADIO OPERATORS BUT NOT QUITE THE SAME. INDIVIDUAL DXERS MAY NOT BELONG TO ANARC, ALTHO THEY MAY SUBSCRIBE TO THE ANARC NEWSLETTER FOR \$2 PER YEAR TO GET ALL THE ANARC NEWS DIRECTLY. ANARC EXECUTIVE SECRETARY IS CURRENTLY WENDEL CRAIGHEAD, 2110 WEST 74TH TERRACE, PRAIRIE VILLAGE, KANSAS 66208. YOU MAY WRITE HIM IF YOU WISH INFORMATION ON OTHER DX CLUBS, OR WANT TO SUBSCRIBE TO THE NEWSLETTER. ANY PROPOSALS FOR ANARC ACTION MUST BE SUBMITTED TO YOUR ANARC CLUB REPRESENTATIVES, HOWEVER. WE ARE:

FERDINAND S. DOMBRÓWSKI, Box 5001, MILWAUKEE, WISCONSIN 53204.

AMBROSE MAXIM, 23 LAMBERT STREET, WINTHROP, MAINE 04364.

AMBROSE IS THE SENIOR REP FOR WTFDA, AND WAS OF GREAT ASSISTANCE IN THE EARLY YEARS WHEN I OFTEN ASKED HIS ADVICE ON VARIOUS PROBLEMS CONNECTED WITH THE RUNNING OF A CLUB, AN ENTIRELY NEW EXPERIENCE FOR ME. I DIDN'T ALWAYS FOLLOW HIS ADVICE BUT IT WAS COMFORTING TO KNOW I HAD AN EXPERIENCED CLUB-MEMBER TO ASK. I WAS AN EXPERIENCED DXER BUT NOT A JOINER SINCE THE AIPA DAYS.

AMBROSE BELONGS TO MANY CLUBS, SUBSCRIBES TO A NUMBER OF ELECTRONICS/HOBBY MAGAZINES AND OFTEN POINTS OUT INFORMATION OF INTEREST THAT I MAY NOT SEE, EVEN IN PUBLICATIONS WE BOTH RECEIVE.

THE ANARC EXECUTIVE SECRETARY IS ELECTED BY THE CLUB REPRESENTATIVES FOR A TWO YEAR TERM. IF YOU WISH TO NOMINATE SOMEONE FOR THAT POSITION TO HEAD ANARC, WRITE YOUR REP(S). THE CURRENT EXECUTIVE SECRETARY DOES NOT WISH TO RUN AGAIN AND HIS TERM EXPIRES IN FALL OF THIS YEAR. NOMINATIONS ARE NOW IN ORDER SO ELECTION SLATES WILL BE READY BY SUMMER. ALL NOMINEES ARE CONTACTED FIRST TO ASK IF THEY ACCEPT A NOMINATION, IN CASE THE NOMINEE IS NOT WILLING. AMBROSE ASKED IF I WOULD ACCEPT THE NOMINATION BUT I DECLINED. I WILL TO BE TOO BUSY FOR MONTHS TO COME AND DON'T WISH TO COMMIT MYSELF TO SOMETHING ELSE.

ANARC CLUB REPRESENTATIVES ARE APPOINTED BY CLUB HQ ON THE BASIS OF WHO IS WILLING AND WHO IS BEST QUALIFIED. AMBROSE WAS APPOINTED BY ME TO CONTINUE IN HIS POSITION WHEN WTFDA CHANGED FROM THE WMRC IN LATE 1967. I APPOINTED MYSELF THE SECOND ANARC REP A YEAR OR TWO AGO WHEN WE BECAME LARGE ENOUGH TO ADD A SECOND REP. NO ONE ELSE WANTED TO BE A REP SO I WAS "ELECTED;" TWO PEOPLE HAD BEEN CONTACTED BUT DECLINED: MORRIE GOLDMAN AND GLENN HAUSER.

THE 1972 ANARC CONVENTION WILL BE HELD IN BOSTON. FURTHER INFORMATION ABOUT DATES, EXACT LOCATION, AND OTHER INFORMATION HAD NOT BEEN WORKED OUT YET AT PRESS TIME.

ANARC ALSO HAS A "MAN OF THE YEAR" PROGRAM ANNUALLY. IF YOU WISH TO NOMINATE SOMEONE, SEND 4 COPIES OF YOUR LETTER TO EITHER ANARC REP WHO WILL FORWARD THE INFORMATION WITH AN SASE TO ANARC HQ FOR YOU. IN YOUR LETTER YOU SHOULD STATE WHY IN DETAIL YOU THINK THIS PERSON SHOULD BE NAMED "MAN OF THE YEAR." THE PERSON SHOULD HAVE CONTRIBUTED GREATLY TO THE DX HOBBY THROUGH HIS UNSELFISH EFFORTS FOR CLUB AND/OR HOBBY. THE AWARD IS PRESENTED AT THE ANARC CONVENTION.

IN FUTURE ANARC COLUMNS WE WILL GO INTO GREATER DETAIL ON HOW ANARC WORKS.

EUROPEAN DX

ROGER BUNNEY
58 TICONDEROGA GARDENS
WESTON, SOUTHAMPTON,
SO2 9HD, ENGLAND....

ITS BEEN A QUIET FOUR WEEKS FROM MID-JANUARY TO MID-FEBRUARY. THERE HAS BEEN THE USUAL MS OVER THE EARLY MORNING PERIODS BUT THE INCREASED SPORADIC E NOTED DURING DECEMBER/EARLY JANUARY HAS DISAPPEARED TO LEAVE THE RECEPTION MAINLY CONFINED TO THE CHARACTERISTIC MS AT THIS TIME OF THE YEAR. MY LOG FOR THE PERIOD IS AS FOLLOWS:

12 JAN. NRK (NORWAY) E3, Ms	25 JAN. UNKNOWN Es, CHAN. R1 TEST PATTERN.
13 " DFF (EAST GERMANY) E4, Ms.	26 " SR E2 AND 3, Ms.
15 " DFF E4, Ms; NOS (HOLLAND) E4; BRT (BELGIUM) E2, BOTH TROPS.	29 " DFF E4, Ms; SR E2, Ms.
16 " BRT E2 AND NOS E4, TROPS.	31 " W. GERMANY E2, Ms.
17 " DFF E4, Ms.	1 FEB. DFF E4 AND SR E2, BOTH Ms.
20 " NRK E2, BY Ms; SR (-SWEDEN) E2 Ms.	2 " W. GERMANY E2, Ms.
21 " NRK E3; W. GERMANY E4; TVP (POLAND) R1, ALL BY Ms.	3 " ORF E2A, Ms.
22 " NOS E4, TROPS.	5 " NRK E2, Ms.
23 " NOS E4, AND BRT E2, BOTH TROPS.	7 " UNKNOWN Es PROGRAMAT 0735.
24 " SR E3, AND ORF (AUSTRIA) E2A, Ms.	8 " SR E3, NRK E3 AND CZECH R1, ALL Ms.
	11 " W. GERMANY E4, Ms.
	13 " RAI (ITALY) IB, Ms.

DUE TO RUNNING LENGTHS OF COAXIAL CABLE IN THE WALL CAVITIES INTO VARIOUS ROOMS, TO EASE MONITORING, AN S/C ON ONE SUCH CABLE REMOVED DX ACTIVITIES OVER 9/10 FEB. PREPARATIONS FOR THE NEW AERIAL SYSTEM ARE STILL CARRYING ON, SOMEWHAT DELAYED BY LATE ARRIVAL OF SOME COMPONENTS. IT IS HOPED TO HAVE THE NEW MAST UP BY NEXT COLUMN.

THERE HAVE BEEN CONSIDERABLE PROBLEMS OVER IN THE UK DUE TO A LACK OF ELECTRIC POWER CAUSED BY INDUSTRIAL DISPUTES. YESTERDAY TWO CUT-OFFS IN POWER OF 3 HOURS EACH WERE NOTED (12 FEB), AND THE FIRST ONE TODAY IS CURRENTLY IN OPERATION. THE CUTS ARE ON A ROTATION SYSTEM SO THAT ON CERTAIN DAYS MORE CUTS WILL OCCUR THAN ON OTHER DAYS. THERE ARE NOT LIKELY TO BE MORE THAN 4 CUTS OF 3 HOURS MAXIMUM EACH. IT SEEMS THAT THE LOCAL BBC MEDIUM WAVE TRANSMITTER IS ON THE SAME ROTATION BASIS; AS IT LEAVES THE AIR, SOME 2 MINUTES LATER POWER HERE WILL LEAVE OR APPEAR. UNFORTUNATELY THE POWER IS OFTEN CUT AS EARLY AS 0600 WHICH TENDS TO REDUCE MY RESULTS VIA MS DXING.

THERE HAVE BEEN EXPERIMENTAL TRANSMISSIONS ON CERTAIN STATIONS HERE OF A NEW TEST CARD. THE NEW TYPE IS AN ELECTRONIC PHILIPS #PM5544 OR PM5540. CRYSTAL PALACE (LONDON) HAS RADIATED THIS FOR SOME 3 WEEKS--FIRST BY BBC1, THEN BY BBC2 AND ITV. SINCE TEST TRANSMISSIONS HAVE NOW CEASED FOR AN INDEFINITE PERIOD ON UHF; DUE TO THE POWER PROBLEMS THESE TESTS WILL BE POSTPONED. SWITZERLAND HAS ALSO DROPPED THEIR CHARACTERISTIC, WELL-KNOWN CRAD AND SWITCH TO SOME ELECTRONIC CARD. AT PRESENT WE DON'T KNOW WHAT IT WILL BE BUT WE EXPECT IT WILL BE THE PHILIPS PM5544.

A LETTER ARRIVED FROM A PERSON IN EAST GERMANY. THE CONTENTS ARE RATHER DETAILED, UNUSUALLY SO BECAUSE INFORMATION IN LETTERS FROM THE EAST BLOCK NEVER SEEM TO ARRIVE. IT SEEMS THAT MARLOW CHANNEL E24 IS OPERATING WITH VERTICAL POLARIZATION, WHICH PREVENTS RECEPTION OF HANNOVER, ALSO ON E24. HANNOVER, IN WEST GERMANY, IS HORIZONTALLY POLARIZED AS ARE ALL WEST GERMAN STATIONS (MAIN STATIONS). THE USE OF VERTICAL POLARIZATION IN EAST GERMANY PREVENTS RECEPTION OF WEST IN EAST, AND THE REVERSE IS ALSO TRUE WHERE SEPARATE ANTENNAS ARE NOT EMPLOYED. IN THE WEST THIS IS NO PROBLEM, BUT IN THE EAST MANY PEOPLE HAVE BEEN KNOWN TO USE ATTIC ANTENNAS FOR THE WEST STATIONS TO AVOID SUSPICION. A NUMBER OF KNOWN DX ENTHUSIASTS IN THE EAST ARE KNOWN TO OPERATE SOLELY WITH INDOOR ARRAYS!

MORE ABOUT MY NEW ANTENNA PLANS AT MY NEW LOCATION: I WAS GOING TO PUT UP A 30' LATTICE MAST BUT HAVE DECIDED TO USE INSTEAD 2" SCAFFOLDING. IT WILL BE AT THE SAME HGT BUT WITH A LOT OF MONEY SAVED. I HAVE JUST PURCHASED AN AR22 (CDE ROTOR) AND PLAN TO GET A LOG PERIODIC UHF ANTENNA RATHER THAN SEPARATE ANTENNAS FOR BANDS 4 AND 5.

THIS SEEMS TO BE A BETTER LOCATION THAN ROMSEY; CRYSTAL PALACE IS IN BETTER ON THE TEMPORARY ARRAY HERE THAN IT WAS WITH THE LARGE ARRAY AT HOME IN ROMSEY. CERTAINLY I'VE BEEN VERY ACTIVE MOST MORNINGS WITH MS, AND HAVE STUDIED THE SURROUNDING COUNTRYSIDE. THE GROUND IS LEVEL IN THE WANTED DIRECTIONS FOR SEVERAL MILES. THE ROMSEY AREA WAS QUITE HILLY WHICH NO DOUBT AFFECTED MY TROPS RECEPTION ADVERSELY.

Good DX,
ROGER

STATISTICS

Deadlines: Glenn Hauser, editor
 12 April PSC Box 42309
 12 May Kelly AFB TX 78241
 April 1972

TV SCOREBOARD

DXer.	Location	Stns	UHF	Es	States	Prov	Lands	YB	As of:
	Robert Seybold, Dunkirk NY	546	175						10 Feb
	Bill Draeb, Kewaunee WI	469	158	138	41+DC	6	3	53	20 Dec
	Robert Cooper, Oklahoma City OK	435	159		40	5	7	69	6 Jan
	Ferdinand Dombrowski, Wisconsin	372	91	147	44+DC	6	10	50	22 Nov
*	Dave Janowiak, Milwaukee WI	366	103		45+DC		3		1 Nov
	Glen Neal, Sayre OK	357	80	166	40+DC	4	3	66	4 Mar
	Roger Brown, East Lansing MI	329	141	82	40	5	4	57	12 Jan
	John Parillo, Girard OH	310	69		34+DC	5	3	51	4 Dec
	Gary Olson, Deerfield area IL	305	94				5		31 Jan
*	Mark Lewis, Downsview Ont	265							27 Oct
*	Bill Heusmann, Steger IL	259	79	79	37	6	5	64	10 Oct
	Morrie Goldman, Chicago IL	247					4	64	15 Feb
	Ron Le Blanc, Marrero LA	234	55	55	30	2	6	67	20 Feb
	Frank Wheeler, Erie PA	232	36	105	32+DC	9	3	55	7 Mar
	Jerry Pulice, Staten Island NY	215	72	63	34+DC	3	3	62	4 Jan
	Glenn Hauser, San Antonio area TX	206	29	66	34	1	5	71	12 Mar
	Les Prus, Manhattan KS	178	10	84	34+DC	5	3	69	1 Mar
	Don Ruland, Kenosha WI	162	54	7	24	1	2	71	11 Jan
	Pat Dyer, San Antonio TX	151	8	75	34	2	5	59	9 Mar
*	J. Joel Rosenberg, Downsview Ont	149	61	37	28	4	2	69	30 Sep
	Dennis Smith, Wasco CA	145	26	86	25	3	3	54	8 Feb
*	Larry Vogt, Springfield VA	142	61	44	30+DC	2	3	62	7 Nov
	Dave Egan, Valleyfield PQ	137	3	41	31+DC	4	2	67	22 Jan
	Harry Hein, Chicago IL	134	64	15	18	2	2	70	19 Feb
	Fred Nordquist, North Syracuse NY	110	21	28	20	2	2	69	4 Jan
*	Jim Pizzi, Orcutt CA	107							7 Nov
	Roy Horsley, Steele AL	106	19	44	19	4	5	57	5 Jan
*	David L. Brown, Farmville VA	91	4	53	23+DC	5	4	70	1 Nov
	Joe Kureth, Maryland	66	25	14	16+DC	0	2		18 Nov
	Dennis Smith, Santa Barbara CA	35	12	8	4	0	2	51	8 Feb
	Dave Swanson, Margarita CZ	22	0	11	2	0	7	71	12 Dec
*	Peter Sawatzky, Waterloo Ont	18	0	0	4	1	2		Oct
	Dave Egan, Valleyfield PQ (vfd)	120			31+DC	3	2	67	22 Jan
	Harry Hein, Chicago IL (vfd)	102	47	6	16	0	1	70	19 Feb

*Update due by 12 May. Don't forget to include Canada and USA in your "Lands" total! Tnx

95 MHZ FM DX RECORDS

MHz	Prop	Call	Location	Miles	DXer, Location
95.1	Es	KRDO-	Colorado Springs CO	1470	Larry Vogt, Springfield VA
	Tr	WQNZ	Natchez MS	780	Russ Brown, Saint Joseph MI
	MS	WTMA-	Charleston SC	1130	Glenn Hauser, Von Ormy TX
95.3	Au	WPTH	Fort Wayne IN	485	John Ebeling, Bloomington MN
	Es	WTLN-	Apopka FL	1290	John Ebeling, Bloomington MN
	Tr	WELR-	Roanoke AL	825	Glenn Hauser, Von Ormy TX
95.5	Es	WTVY-	Dothan AL	1445	Fred McCormack, Des Lacs ND
	Tr	WTVY-	Dothan AL	800	Glenn Hauser, Von Ormy TX
	MS	KOKE-	Austin TX	tie	Waldo Bishop, Tallahassee FL
95.7	Es	KRFM	Phoenix AZ	820	Glenn Hauser, Enid OK
	Tr	WBMI	Meriden CT	1380	Robert Cooper, Oklahoma City OK
	MS	WBWU	New Orleans LA	865	Russ Brown, Saint Joseph MI
95.9	Es	WHDL-	Olean NY	1105	Glenn Hauser, Enid OK
	Tr	KRSL-	Russell KS	1300	Joe Fela, Newark NJ
	MS	KDHL-	Faribault MN	640	Robert Cooper, Oklahoma City OK
	Au	CJFM	Montréal PQ	845	Andy Bolin, Charleston IL
		KDHL-	Faribault MN	480	Fred McCormack, Des Lacs ND

Contributors of 95 MHz record candidates are: Bishop, Bolin, Brown, Cooper, Dorner, Dyer, Ebeling, Elving, Fela, Hauser, Hobday, Howington, Le Blanc, Markewicz, McCormack, Merrill, Morgan, Sawatzky, Seybold (95.1 only), Smith, Vogt, Wood.

Oops! We all make mistakes (including your editor) from time to time, but fortunately other alert DXers spot some of them. When a record is involved, a retraction in this column is necessary. Bob Seybold says that his claim of WSLA-8 was in error, as he mistook WSIX-8 carrying an Alabama news item. Unaware that WSLA had left the air, Bob IDed it circumstantially by matching the news with an ID that started WS--. This should be a lesson to all of us to be extremely careful when making circumstantial IDs! Another retraction comes from Jerry Pulice who now thinks his reception of WRTV-58 may have been an image. May I urge both DXers and editors to be sure to specify "tentative" with any reception not certain beyond a reasonable doubt. There is no reason for embarrassment in these cases or others--so long as the mistake was honest, and a subsequent retraction is made. Other comments: "UHF or nothing." --Frantz. Pulice suggests we include a scoreboard tabulation of the number of UHF and VHF locals under 30 miles a DXer is handicapped by. What say? "I don't think that the stations I sent to you broke any distance records." --Markewicz. "I'd like to make a belated entry into the statistics column. I don't expect that I'll make any records but it's fun to participate anyway!" --Luoma. "Welcome, and don't underestimate your accomplishments!" --ed. "I am a little pressed for time." --Olson. "Your new schedule for alternate deadlines for TV and FM keeps me off base..." --Cooper. "You're not the only one." For instance, TV Scoreboard information need not be sent before the first week of May, but some will send it a month earlier. Even I erred last month in saying FM Scoreboard deadline was 13 March instead of 12 April. But to make the best use of our space, this system is necessary." --ed.

CHANNEL 13 TROPO TVDX RECORDS

Call	Location	Miles	DXer, Location	Comments
WAPI-	Birmingham AL	755	Glenn Hauser, Von Ormy TX	
KOLD-	Tucson AZ	870	Ron Pugh, Fort Bragg CA	
KCOP	Los Angeles CA	200	Robert Cooper, Fresno CA	was KIAC
KOVR	Stockton CA	270	Eddie Albright & Charles Wood, Mount Ashland OR	
KBLU-	Yuma AZ (CA)	30	Bill Fulton, Yuma AZ	
KRDO-	Colorado Springs CO	500	Carl Dabelstein, Omaha NE	
WTVT	Tampa FL	1105	Ken Neal, Hamlin TX	
WMAZ-	Macon GA	785	Henry Marbach, White Plains NY	
WREX-	Rockford IL	645	Robert Cooper, Oklahoma City OK	
WLWI	Indianapolis IN	685	Robert Cooper, Oklahoma City OK	
WHO-	Des Moines IA	820	Ed Bourgeois, Norco LA	
KUPK-	Garden City KS	225	Robert Cooper, Oklahoma City OK	
WIBW-	Topeka KS	895	Robert Seybold, Dunkirk NY	
WLTV	Bowling Green KY	620	Glenn Hauser, Enid OK	now WBKO
KLSE	Monroe LA	200	Ed Bourgeois, Norco LA	now off
WVUE	New Orleans LA	575	B. J. Bingham, Festus MO	now ch 8
WGAN-	Portland ME	460	Robert Seybold, Dunkirk NY	
WAAM-	Baltimore MD	620	Denny Cline, Eastport ME	now WJZ
WWTV	Cadillac MI	490	B. J. Bingham, Festus MO	now ch 9
WZZM-	Grand Rapids MI	615	Les Prus, Manhattan KS	
WIRT	Hibbing MN	410	Fred McCormack, Des Lacs ND	
WLOX-	Biloxi MS	685	Glen Neal, Sayre OK	
KRCG-	Jefferson City MO	525	Frank Hill, Gallipolis OH	
KTNE-	Alliance NE	330	Marv Garber, Lincoln NE	
KHOL-	Kearney NE	580	Bill Heusmann, Steger IL	
WATV	Newark NJ	755	Tommy Larkings, Clarksville TN	now WNET (NY)
KGGM-	Albuquerque NM	740	Carl Dabelstein, Omaha NE	
WCKR	Rochester NY	345	Roger Brown, East Lansing MI	now WAAE
WAST	Troy NY	420	Carlton Howington, Uniontown OH	
WKTV	Utica NY	1135	Bedford Brown, Hot Springs AR	now ch 2
WLOS-	Asheville NC	665	Bill Draeb, Kewaunee WI	
KFME	Fargo ND	240	Fred McCormack, Des Lacs ND	

KXMC-	Minot ND	265	Joe Markewicz, Camp Morton Man	was KCJB
WHIO-	Dayton OH	345	F. J. Glaub, East Moline IL	now ch 7
WSPD-	Toledo OH	525	Dave Egan, Valleyfield PQ	
KETA	Oklahoma City OK	560	Ed Bourgeois, Norco LA	
KVAL	Eugene OR	140	Pat Martin, Seaside OR	
		tie	Doris Johnson, Longview WA	
		tie	Eddie Albright & Charles Wood, Mount Ashland OR	
KTVR	Lagrange OR	35	Matthew Wall, Baker OR	
WJAC-	Johnstown PA	350	G. W. Lowther, Alexandria IN	now ch 6
WQED	Pittsburgh PA	650	Jerry Easter/Dee, Waterloo IA	
WBTW	Florence SC	720	Gene DeLorenzo, Hyannis MA	was ch 8
KSOO-	Sioux Falls SD	510	Fred Nordquist, Tulsa OK	
WHBQ-	Memphis TN	645	John Parillo, Girard OH	
KERA-	Dallas TX	1150	Robert Seybold, Dunkirk NY	
KELP-	El Paso TX	35	Fred Nordquist, White Sands Missile Range NM	
KTRK-	Houston TX	990	Carlton Howington, Homestead FL	
KLBK-	Lubbock TX	730	Ron Le Blanc, Marrero LA	was KDUB
		tie	Clarence Rareshide, New Orleans LA	
WVEC-	Hampton VA	470	Dave Siddall, Hyannis MA	was ch 15
WLVA-	Lynchburg VA	460	John Cody, Middletown CT	
KTVW	Tacoma WA	115	Ed Hepp, Portland OR	
		tie	Ray O'Rear, Zillah WA	
WHTN-	Huntington WV	855	Dick Clark, Fort Lauderdale FL	
WEAU-	Eau Claire WI	720	Robert Cooper, Oklahoma City OK	
CHBC-1	Penticton BC	230	Doris Johnson, Longview WA	
CKCO-	Kitchener Ont	395	Gary Olson, Barrington IL	
CJOH-	Ottawa Ont (PQ)	325	Roger Gravelle, Saint Thomas Ont	
"CBFST1"	Sudbury Ont	105	Morris Sorensen, Emsdale Ont	
CKTM-	Trois Rivières PQ	150	Ghislain Girard, Arvida PQ	
CMG-	Matanzas Cuba	725	Clarence Rareshide, New Orleans LA	
(CMAB-)	Victoria de las Tunas Cuba	1075	Ed Bourgeois, Norco LA	

UHF TROPO TVDX RECORDS

<u>34</u>	KMEX-	Los Angeles CA	95	Dennis Smith, La Cumbre Mountain CA	
			tie	Mort Meehan, North Palm Springs CA	
	WSBT-	South Bend IN	210	Ross Brown, Tupperville Ont	now ch 22
	WBJA-	Binghamton NY	1230	Robert Cooper, Oklahoma City OK	
	WOSU-	Columbus OH	405	Bill Draeb, Kewaunee WI	
	WILK-	Wilkes Barre PA	190	King Schafer, Kenmore NY	now off
			tie	Richard Nieman, Buffalo NY	
	KKBC-	Lubbock TX	365	Robert Grace, Franklin TX 77856	now KMXN
	KFTZ-	Fond du Lac WI	750	Robert Cooper, Oklahoma City OK	
<u>35</u>	WEEQ-	La Salle IL	600	Robert Cooper, Oklahoma City OK	
	WKHA	Hazard KY	545	Bill Draeb, Kewaunee WI	
	WKMA	Madisonville KY	690	Glen Neal, Sayre OK	
	WTRI-	Albany NY	260	Richard Nieman, Buffalo NY	now off
	WIMA-	Lima OH	315	Mark Lewis, Downsview Ont	
	WSEE-	Erie PA	425	Ferdinand Dombrowski, Okauchee WI	
	WUHY-	Philadelphia PA	275	Robert Seybold, Dunkirk NY	
	WRLK-	Columbia SC	605	Ron Le Blanc, Marrero LA	
	WJPB-	Fairmont WV	115	John Parillo, Girard OH	now WDTV-5
<u>36</u>	WFIQ	Florence AL	745	Glenn Hauser, Von Ormy TX	
	KGTO-	Fayetteville AR	315	Glen Neal, Sayre OK	
	KGSC-	San José CA	190	Jim Pizzi, Orcutt CA	
	KTVU	Stockton CA	205	Dennis Smith, Wasco CA	now off
	WJHP-	Jacksonville FL	520	Ed Bourgeois, Norco LA	now off
	WATL-	Atlanta GA	755	Robert Cooper, Oklahoma City OK	now off
	KSTM	Saint Louis MO	MS? 830	R. J. Walker, Daytona Beach FL	now off
	KTVI	Saint Louis MO	95	Carl Lupton, Shelbyville IL	now ch 2

(more)

36	WENY-	Elmira NY	555	Bill Draeb, Kewaunee WI
	WRET-	Charlotte NC	625	Dick Clark, Fort Lauderdale FL
	WSBE-	Providence RI	405	Robert Seybold, Dunkirk NY
	WMVT	Milwaukee WI	425	Mark Lewis, Downsview Ont
38	KUDO	San Francisco CA	235	Dennis Smith, Sequoia Crest CA
	WSUN-	Saint Petersburg FL	490	Ed Bourgeois, Norco LA
	KS2XBR	Chicago IL	20	Gary Olson, Deerfield IL
			tie	Bill Pagel, Glen Ellyn IL
	WYEA-	Columbus GA	840	Glenn Hauser, Von Ormy TX
	WKMR	Morehead KY	435	J. Joel Rosenberg, Downsview Ont
			tie	Mark Lewis, Downsview Ont
	WSEK-	Boston MA	1475	Robert Cooper, Oklahoma City OK
39	KCST	San Diego CA	245	Jim Pizzi, Orcutt CA
	WTVO	Rockford IL	515	King Schafer, Kenmore NY
			tie	Art Collins, Buffalo NY
			tie	Richard Nieman, Buffalo NY
	WUNJ-	Wilmington NC	555	Robert Seybold, Dunkirk NY
	WLVT	Bethlehem PA	485	Roger Brown, East Lansing MI
	KDTV	Dallas TX	450	Ron Le Blanc, Marrero LA
	KHTV	Houston TX	490	Glenn Hauser, Enid OK
40	WHMA-	Anniston AL	810	Glenn Hauser, Von Ormy TX
	KFPW-	Fort Smith AR	485	Glenn Hauser, Von Ormy TX
	KLXA-	Fontana CA	175	Stan Wigh, Kingsburg CA
	KCCC-	Sacramento CA	235	Dennis Smith, Wasco CA
	KTXL	Sacramento CA	240	Dennis Smith, Wasco CA
	WXLT-	Sarasota FL	495	Ron Le Blanc, Marrero LA
	WURD	Indianapolis IN	420	Mark Lewis, Downsview Ont
	WHYN-	Springfield MA	355	Mark Lewis, Downsview Ont
	WCMC-	Wildwood NJ	400	Mark Lewis, Downsview Ont
	WINR-	Binghamton NY	600	Bill Heusmann, Steger IL
	WAIM-	Anderson SC	840	Robert Cooper, Oklahoma City OK
	KDUB-	Dubuque IA (WI)	655	Fred McCormack, Des Lacs ND

UHF RECORD
was KAAR
now ch 17

now off

NEW TVDX RECORDS

		<u>Prop</u>			<u>Old Record</u>
2	W02AJ	Pass Christian MS	Tr 55	Ron Le Blanc, Marrero LA	new
	WMAB	State College MS	Es 1145	Jeffrey Warren, Framingham MA	Luchter 985
3	WSYR-	Syracuse NY	Tr 345	Rod Luoma, Detroit MI	Rawlings 210
4	KAID-	Boise ID	Tr 115	Robert J. Williams, Twin Falls ID	new
	KRLD-	Dallas TX	MS 1010	Rod Luoma, Detroit MI	H. Cooper 995
5	KDSJ-	Lead SD	Es 1245	Jeff Hodge, Williamsville NY	Tilbrook 1235
	KFBC-	Cheyenne WY	MS 1115	Rod Luoma, Detroit MI	Foote 615
6	WTEV	Providence RI	Tr 485	Dave Brown, Farmville VA	Smith 425
	KFDM-	Beaumont TX	Es 1385	Mike Collins, Stratford CT	McCormack 1385
7	KOSA-	Odessa TX	Tr 750	Ron Le Blanc, Marrero LA	B. Brown 575
	"CBFST"	Sturgeon Falls Ont	70	Morris Sorensen, Emsdale Ont	new
8	W5LA-	Selma AL	---	Robert Seybold, Dunkirk NY	DELETE: NO RECORD
9	KMOM-	Monahans TX	765	Ron Le Blanc, Marrero LA	Ruland 460
11	KTWU	Topeka KS	335	Glen Neal, Sayre OK	Grade 245
12	WCTI-	New Bern NC	825	Ron Le Blanc, Marrero LA	H. Cooper 600
17	KCBJ-	Columbia MO	460	Glen Neal, Sayre OK	Cooper 355
28	WRDU-	Durham NC	750	Ron Le Blanc, Marrero LA	Clark 670
41	WIIQ	Demopolis AL	595	Robert Cooper, Oklahoma City OK	Le Blanc 215
51	WKID	Fort Lauderdale FL	10	Bob Frantz, Fort Lauderdale FL	new
58	WRTV	Newark NJ	--	Jerry Pulice, Staten Island NY	DELETE: NO RECORD
70	W70AO	Fond du Lac WI	145	Harry Hein, Chicago IL	Olson 110
75	W75AJ	Fond du Lac WI	145	Harry Hein, Chicago IL	Draeb 65

Next month: Highband skip records; after that we begin again lowband tropo records, some surprisingly short. Why not send in a list of your lowband tropo catches? 73 de Glenn

CENTRAL TV-DX

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

April 1972

Next Deadline: April 15

For TV-DXers in Wi, Il, In, Mi, Oh, Pa and all Eastern Canadian provinces. Support your club!

Hey all you southern fried DXers, we yankees are still here...but just barely. This winter has been MIGHTY slow...no reported MS sightings in a couple of months...no "January-thaw" tropo (no tropo whatever, in fact)...nothing until...Es? In March? I'm afraid many of the midwest "group" missed the unusual March Es because...who turns on the gear in March? We're too busy scheming for the summer. That'll teach us.

Apparently Es occurred across the Northern states on March 3rd and 8th. The latter opening was stronger. (I may be wrong about the dates...Bill Draeb reports Es the 7th...I'm assuming he means the 8th, until I'm corrected.) The MUF apparently reached channel 2 and above between 1900 and 2000 EST on the 8th...and was as high as channel 5 by 2100. I know Bob Cooper heard Es on FM too...so we probably had that too, though not necessarily.

Bill Draeb, Ellis St., R.R. #2, Kewaunee, Wi. 54216 CST

12-14 Es 1735	KVGN-2 Denver, Co.	3-8 Es 1835	WEDU-3 Pensacola, Fl.
	KTVS-3 Sterling, Co. (832)		1846 WCIV-4 Charleston, S.C.
	KOA-4 Denver, Co.		KATC-3 Lafayette, La.
	KRMA-6 Denver, Co.		1854 KTBS-3 Shreveport, La.
1802	KLNE-3 Lexington, Neb. (697)		1907 KPRC-2 Houston, Tx.
1828	KATC-3 Lafayette, La.		plus 8 unids.
	KJAC-4 Port Arthur, Tx.		

3-3 Es 1902 all tentative (no positive IDs) It's been a pretty slow winter. Things should start happening again soon. I hope. (you bet, Bill.)
WESH-2, WEAR-3, WKRG-5, WJXT-4,
WBAP-5, WSAV-3

Dave Janowiak, 3661 South 46th Street, Greenfield, Wi. 53220 CST

3-3 Es 1930 to 1930 WDIQ-2 Dozier, Al. (5533R) with less than average Es fade. Stumbled on it while aligning an amp for Gary Olson! Only weak CCI on ch 3. Didn't have time to DX...that might have been my only March Es ever...had some weaker stuff years ago linked to Auroral opening...but this was not Aurora. Equipment this summer includes 4 hi-band yagis in a "box" array, one lo band yagi, and a 7 foot dish. (LOOK OUT WORLD! RB)

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

3-8 Es at 2000 tune in...to channel 4 then	3-8 Es 2115 Weakening...unid ETV on 2
to ch 5 at 2015 (can't see through	2135 KPRC-2 Houston, Tx.
local on ch 6)	2220 KVGN-2, KOA-4 Denver
2030 WBAP-5 Fort Worth, Tx.	
2100 WCIV-4 Charleston, S.C. (850 mi)	First Es ever in March...should be lots more
WKY-4 Okla City, Ok.	elsewhere in the <u>Digest</u> .

Had a hand-wringing winter here. Three windstorms just about did in transmission lines, my own inexperience caused antennas to be stacked wrong last year, etc. On March 11, I repaired everything, put the stacked hi-band yagis up properly, raised my dish to 50 foot plus, put in new T-line and coax, added an FM4G for FM at 50 feet (in place of an FM5G at 40 feet) and generally busted my tail and ended my wife's patience. On March 13...the worst ice storm in years. Everything is still in place...but I've about had it with Michigan winters! 73s, Rog.

FM FCC NEWS

Bruce F. Elving, Editor
3000 North Oakland Avenue
Milwaukee WI 53211

This column welcomes editorial contributions from its readers--especially news about new stereo stations, major program format changes, etc. A few of the FM ATLAS readers asked that I list the coverage equivalent in addition to ERP (effective radiated power in watts, both horizontal and vertical) and HAAT (height above average terrain). This is quite easy to do, by means of a chart with a sliding scale, but does take extra time. However, if more people want coverages given (I use the 250 microvolt/meter contour rather than the FCC-defined primary [1,000 microvolt/meter] or "secondary" [50 microvolts], I will be glad to oblige. (This system is tried experimentally in the third column, below. A plus indicates bonus coverage for auto, portable sets using vertical aeri-als.)

New Construction Permits

Talladega AL	92.7	3000 h,v;	300'
Salinas CA	*90.9	10	
Albany GA	101.7	3000 h,v;	190'
Atlanta GA	*91.9	10	
Crown Point IN	103.9	3000 h,v;	300'
Lowell IN	107.1	3000 h,v;	300'
Hutchinson KS	*90.1	83	57'
Manhattan KS	101.7	1600 h,v;	395'
Brunswick ME	*91.9	10	
Williamsport MD	95.9	3000 h,v;	300'
Great Falls MT	94.5	39000 h,v;	360'
Las Vegas NV	93.1	41500	1190'
Peterborough NH	92.1	140 h,v;	1120'
Tulsa OK	98.5	100000 h,v;	583'
Klamath Falls OR	98.5	19500 h,v;	360'
Lubbock TX	*91.1	10	
Ladysmith WI	92.9	100000 h,v;	680' \$
[requests WWIB - gospel programming]			

On the Air -- Ready for DXing!

Canon City CO	K292AA (106.3)	10 w	[KRDO-FM] \$
Tucson AZ	KAYN	94.9	49896 h,v; 88'
Seaford DE	WSUX-FM	98.3	3000 h,v; 200'
Rockmart GA	WZOT	107.1	3000 -9'
Lafayette IN	WJJE	*91.9	250 91'
El Dorado KS	KOYY-FM	99.3	3000 h,v; 135'
New Orleans LA	WWNO	*89.9	11500 \$ 600'
[Not too good a signal in Baton Rouge, considering its power, reports R. Wood. Milwaukee black jazz music host Mannie Mauldin, Jr. (heard also on WUWM) hosts a show on WWNO 10:30 to 11:30 p.m. Fridays and Mondays.]			
Thibodaux LA	KVFG	*91.5	10 w [Thanks to R. Wood and the FCC for clearing this mystery]
Farmington ME	WUMF	*91.9	10 w
Houghton MI	WGGL	*91.1	100000, 860' \$
[On the air with new power; coverage extends to N. WI and Thunder Bay, Ontario--thanks to John Robertson for the news-wire story on WGGL.]			

On the Air (Cont'd)

Plymouth MI	WSDP	*89.3	10 w
Parkville MO	KGSP	*90.3	10 w
N. Syracuse NY	WSOQ-FM	100.9,	to 165' (3000 h,v)
Streetsboro OH	WSTB	*91.5	332; 85'
Muskogee OK	KMMM	106.9	\$
124', 96,600 w (40 miles)			
Wilkes-Barre PA	WCLB	*90.7,	175 h,v; 1020' (27 miles +)
Portsmouth RI	WJHD	*90.7	10 (4mi)
Laredo TX	KOYE	92.7	\$ 155', 3000 h,v; (20 miles +) Glenn Hauser reports KOYE is fulltime, mostly automated.
La Crosse WI	WSPL	\$ 95.9	235 h,v; 900' (27 miles +). Station reports they are on 24 hours; MOR, "easy listening."
Sheboygan WI	WHBL-FM	97.7	3000 h,v; 241' (23 miles +), Stereo. Erratic schedule. MOR.

Call Letter Assignments and Changes

Little Rock AR	KARN-FM	103.7 (KARK-FM)
Decatur GA	WPCH (W-Peach)	94.9, to 894' (100 kw h,v) - Thanks to Richard Wood for some of this information. (WAVO-FM)
Chicago IL	WLAK (W-Lake)	93.9 (WVWL)
Salem IL	WJBD-FM	100.1
Wichita KS	KICT	95.1 to 430' (100 kw)
Richmond KY	WCBR-FM	101.7
Hammond LA	WFPR-FM	101.7 or 107.1 - conflicting reports. 107.1 is assigned to Hammond, but this does not necessarily mean WFPR-FM is to be there.
Biddeford ME	WBSF	*91.7
Willmar MN	KQIC	102.5 (was KWLM-FM; John Ebeling reports KWIC now has rock in stereo).
Manchester NH	WGIR-FM	101.1 (was WNHS)
Mount Washington NH	WWMT-FM	94.9 (WMTW-FM)
New Brunswick NJ	WQMR	98.3 (WCTC-FM)
Pleasantville NJ	WGRF	99.3
Albany NY	WGNA	107.7
Jamestown NY	WHUG	101.7 (WKSJ-FM), power to 2900 h, v; 300'.
Rensselaer NY	WQBK-FM	103.9
Syosset NY	WKWZ	*88.5
Fairfield OH	WFOL	94.9 (WCNV-FM)
Central City PA	WCCS	101.7
Bristol VA	WKYE-FM	96.9 (WOP1-FM), 10 kw h,v
Arlington TX	KAMC	94.9 (KFAD)
Williamsburg VA	WBC1	96.5 (WMBG or WBC1-FM)
Spokane WA	KPBX	*91.1
Clarksburg WV	WRGT-FM	106.5
Wheeling WV	WTRF	107.5 (WTRF-FM)

Facilities Changes

Merced CA	KAMB	101.5 adds V (vertical polarization)
Porterville CA	K100	99.7 to 15,000 h,v; 140'
San Diego CA	KPBS	*89.5 adds v
Ft. Lauderdale FL	WMJR	100.7 to 100,000; 900' - h & v.
Chicago IL	WMB1-FM	*90.1 to 100,000 h,v; 440' (plans to add stereo)
Chicago	WSDM	97.9 to 6000 h,v; 1170'
Cadiz KY	WKDZ-FM	106.3 to 215' (3000 h,v)
St. Matthews KY	WSTM	103.1 135' (3000)
Skowhegan ME	WGMM-FM	from 107.1 to 105.1, power upped to 25,000 h,v; 2420'.
Plymouth MA	WPLM-FM	99.1 adds v
St. Louis Park MN	KRS1-FM	104.1 to 52360 h,v; 190'
Trenton NJ	WB1H	101.5 to 20,000 h,v; 120'
Peekskill NY	WHUD	100.7 adds v
Charlotte NC	WYFM	104.7 to 100,000 h,v; 1230'.
Wallace NC	WLSE-FM	94.3 300' (3000 h,v)
Portsmouth OH	WPAY-FM	104.1 adds v
Oklahoma City OK	KKNG	92.5 100,000 h,v; 235'
Philadelphia PA	WYSP	94.1 39,000 h,v; 550'
Sunbury PA	WKOK-FM	94.1 12,500 h,v; 875'
Tamaqua PA	WZTA	105.5 to 3000 (-11')
Warren PA	WRRN	92.3 to 26,000 h,v; 410'

Changes (Continued)

Wilkes-Barre PA	WRKC	*88.5 to 440 w, -470' (up from 10 w)
Amarillo TX	KGNC-FM	moves from 93.1 to 97.9, power increases to 45,500 watts (h), 1285'
College Station TX	WTAW-FM	92.1 to 3000 h,v; 275'

Dual-City IDs Granted

KWAV	Monterey CA	96.9 to Monterey-Salinas CA
WQRC	Barnstable MA	99.9 to Barnstable-Hyannis MA
WKVO-FM	Havelock NC	104.9 to Havelock-Cherry Point NC
KFWD	Fort Worth TX	102.1 to Fort Worth-Dallas (to 1423', 100 kw h,v)

New Stereo Stations (\$)

WRWC	103.1	Rockton IL	24 hrs MOR.
WKAK	99.9	Kankakee IL	
WPRS-FM	98.3	Paris IL	
WSHY-FM	104.9	Shelbyville IL	
WCTW-FM	102.5	New Castle IN	
WKDQ	99.5	Henderson KY	
WHOP-FM	98.7	Hopkinsville KY	

John Ebeling and Richard/asked about FM translators. Their call letters consist of a K or W, indicating direction E or W of the Mississippi River, three digits for the channel, and two letters assigned in the order in which the station is authorized. Thus K221AA Richfield UT, is west of the Mississippi (hence "K") is on channel 221 (92.1), and the first assignment on ch. 221 (AA). Translators west of the Mississippi have 10 watts transmitter power; those east of the river 1 watt, although a petition is being filed by WRVB to make that limitation also 10 watts. FM booster stations are also allowed for on-channel use in certain cases. Commercial translators will operate on class A frequencies (those on which stations have 3 kw maximum power), while educational translators can use any channel from 88.1 to 91.9. As I see it, almost anybody can be a translator licensee. There probably isn't much money in it, but if you as a DXer derive satisfaction in bringing in a long-distance signal to your own receiver, why not consider retransmitting some long-distance "regular" so that your neighbors can enjoy local-like reception of this station? I do not have precise cost figures, but expect that a complete installation (receiving antenna, tower, transmitting antenna(s), transmitter-receiver) would come to about \$1500. You would have to select a frequency that would be relatively interference-free, rebroadcast only the one station you choose for each translator you have, and be willing to forego DX for yourself on the translator frequency you select. You probably do not even have to obtain permission of the station you intend to rebroadcast! Translator equipment is available from the firm of Robert E. Jones, La Grange IL 60525. Detailed information on FM translators is available from the FCC. Ask for "Report and Order, Docket No. 17159," adopted Sept. 23, 1970. Some Iowa DXers have been trying to pick up W292AA Viroqua WI, according to WR'9. WTFDA members? And translators can have Stereo!

Glenn Hauser reports that KBUC-FM Terrell Hills is still on 106.3, but holds a construction permit in San Antonio on 107.5 with 100 kw h,v; 285'. The Terrell Hills allocation is being dropped by the FCC, so that channel will be vacant after KBUC-FM moves. The FCC reports that long-silent KFXM 99.1 Santa Maria CA clings to life; it has not been deleted. Bill Grant, Worcester, MA, reports the following stations have stereo: WDRC-FM Hartford, WIHS Middletown, WQRC Barnstable MA, WBZ-FM Boston, WSSH Lowell MA, WICN Worcester, WDPH Dover NH, WKNE-FM Keene NH, and WWON-FM Woonsocket RI. Delete stereo from WLVH Hartford, WGCY New Bedford, and WLYN-FM Lynn MA.

On March 1, 1972, WCAL-FM 89.3 Northfield MN (100,000 h,v; 400' 55 miles + \$) stopped signing off for the afternoon and now operates fulltime from 6 a. m. to midnight. (1 a. m. Th-F-Sat.), with Sunday sign on at 9 a. m. WPLN *90.3 Nashville is now 100,000 watts, stereo, 295'; claims a 100-mile range, which is exceedingly generous. Bill Coleman, Raleigh NC, reports WFMC-FM 102.3 Goldsboro NC (3000 h,v; 275') has soul music; signs off 12 midnight. He also reports WDBS Durham 107.1 is now using its new call, rather than WSRC-FM. In an article sent by Dr. Richard Wood, WWNO *89.9 New Orleans expects a 50-mile radius and will program from 11 a. m. to 11 p. m. daily, except Saturday.

Shelby Remington sends along articles concerning educational FM troubles in Connecticut. The University of New Haven and St. Thomas Seminary, Bloomfield CT, have applied for the "last FM frequency" available in CT [Shelby thinks it is 88.9], and they are considering a share-time or low-power, directional antenna arrangement so both can broadcast. And the town board of Guilford CT (7 miles east of New Haven) decided to deny funds to build WGCT *90.5 (1000 w, 320'), but the would-be station is fighting back, and will circulate a petition to restore the \$20,000 needed to build the proposed facility at the high school. Shelby also wonders if anybody knows if WYFI 99.7 Norfolk VA is on the air or not. He also doubts that WCCM-FM 93.7 Lawrence MA has ever operated (it holds a permit for 50,000, 400'; formerly listed as 1.35 kw, even in the '72 Broadcasting Yearbook), and doubts that this station was picked up by meteor scatter as reported in another column by a prominent midwest DXer. Shelby also wonders about WIBQ-FM 94.9 Utica NY. As far as I know, this station has never operated, and the channel is being changed to 98.7 in that city, so presumably WIBQ-FM, when it does come on the air, will operate on 98.7. Shelby is a WBAI (New York 99.5) supporter, whose manager has been jailed for contempt [a common Pacifica problem, it seems], and he thinks the Sherwood FM list is "horrible."

Waldo Bishop, Box 1678, Tallahassee FL 32302 needs help concerning Mexican FM. Skip heard March 7, 1972; he received: "XAH - Radio Actualidades (Now Radio), 1420 Kc Monterey," and in the next breath, "IXHQ FM 93, Monterey." "My interpreter says it definitely is IXHQ. Frequency was 93.1 or .2. This station does not appear on any FM list of Mexico." [XEH-FM, whose AM affiliate is on 1420 according to Vane Jones, is listed on 93.2 with 3 kw; perhaps they have changed call letters.] He also managed to pull in the 10' w WVVS *89.9 Valdosta GA; both times it had rock music (progressive rock), while the new WAFT 101.1 Valdosta (30,000 w h; 310') is 100% religious. John Ebeling sent along a clipping that mentions two 1375-foot towers may replace the one candleabra-type that collapsed. These towers would contain the antennae for WCCO-FM, KSTP-FM, KSJN and assorted television stations—all in the Minneapolis MN area (suburban Shoreview).

In Wisconsin, WROE 99.3 Neenah is on the air in stereo with MOR, 24 hours a day (replaces the former WNRR with rock). WIBA-FM 101.5 Madison now has stereo. Commercials for the FM ATLAS AND STATION DIRECTORY are currently on the following stations: WFMR 96.5 Milwaukee (which is shortly to file an application to sell to Bartell Media, operators of WOKY [AM] here; a citizens group plans to protest the transfer), WRVB 102.5 Madison, WHBL-FM 97.7 Sheboygan, WROE 99.3 Neenah & WRWC Rockton IL.

A peek at the program guide of KOSU *91.7 Stillwater OK (100,000 w h, 440') shows that they are stereo and operate six days a week from 6 a. m. to midnight, with Sunday sign on at 11 a. m. An article I ran across some time ago about Mexican FM stereo reported that Mexican FM stations are allowed to carry two commercial spots to every three musical selections. Presumably, this applies to stations when not simulcasting an AM station. It reported that XHPB Veracruz, Stereo, operates 7 a. m. to 1 a. m.

In Missouri, KADI St. Louis, which formerly operated on 96.5, has moved or will be moving to 96.3. It will have 100,000 h,v; 200'. Anybody know if KADI is now on 96.3? This move creates a new St. Louis channel: 97.1, which already has applications. WBOE *90.3 Cleveland and WBEZ *91.5 Chicago will soon begin operating at night and on weekends, thanks to CPB grants.

FM-DX: SOUTH

Dr. Richard E. Wood
820 Arlington Avenue
Baton Rouge LA 70806
Tel. (504) 343-7771

Introductory Column.

First Deadline, April 12.

FEATURING FM FEATS FROM FLORIDA TO FRISCO

A New WTFDA Column ... and its Editor.

"Many hands make light work..." "...but too many cooks spoil the broth." We had to choose our motto, and chose the former, not the latter.

So, beginning with the May Digest, there's a new column, taking half the FM reporting load off Roger Winsor's shoulders. It's FM DX SOUTH AND SOUTHWEST. To divide the REW zone from the RWW segment, extend the Mason-Dixon Line West to the CA/OR border. Thus, such states as CA, AZ, CO and OK are included. Likewise, HI and Latin America. (Los reportajes latinoamericanos serán siempre bienvenidos).

Your editor is a comparative newcomer to FM DX and to WTFDA, but with the fanaticism of a convert and a true believer, he has been seduced away from the bands on which he spent 14 very active years of DX-ing: SW and MW. Now, he spends 75% of his DX time on FM, using a Heathkit AJ-15, Channel Master rotor, and quad antenna array consisting of four Channel Master Stereo Probe 9-elements mounted on a 10ft. square frame atop of 50ft. Rohn tower. Since beginning my FM log on October 6, 1971, I have heard 282 stations from 23 states. I am a keen verification collector and have 138 written verifications so far.

You may know my books SHORTWAVE VOICES OF THE WORLD (also in Finnish translation) or SW BROADCASTS TO NORTH AMERICA, or have seen my sections in PE COMMUNICATIONS HANDBOOK or articles in POPULAR ELECTRONICS, HOW TO LISTEN and elsewhere. FM SOUTH AND SOUTHWEST is my only current club editorship, my last being that of SW Center editor for NASWA. I am on the BoD of IRCA and a member of a dozen DX clubs.

Your reports are welcome in any easily legible style, but my strong preference is for double-spaced typing. There is no length limit, as reports must reflect all current DX activity, but items under 200 miles should be weeded out, except on newly on-the-air stations. In program details, an indication of the format heard is much more useful to other members than particular song titles or spots. Use standard format abbreviations, e.g. EL, MoR, CW, CL, NPR. For every logging please include in this order: frequency/call, location, state in standard two-letter abbreviation, format, time using 24-hr. clock and specifying time standard at beginning of report, and distance in (parentheses). Endless lists of call and frequency alone are boring and useless to most members. In principle, each station should be listed only once per report. Stations verified (by time of reporting to the column) can be handily indicated by underlining call, more specific details should go to Dennis Moe. Please keep your reports up-to-date; I reserve the right to edit out aged items and non-DX, but no worthwhile DX will ever be edited out merely because of the length of the individual's report. Try to indicate propagation mode where known, otherwise it will be assumed to be tropo.

By the way, an issue of POPULAR ELECTRONICS on the newsstands about now contains an article by me on FM DX. It's hard to do it justice in 2 pages, but the club address is featured and I trust it will attract new members who can explore the subject deeper. If you like it, why not write PE? 73, REW.

FMDX:NORTH

Editor: Roger W. Winsor
718 N. Fremont Road
Valparaiso, Indiana
46383

Deadline 10th of month

Glenn Hauser Von Ormy TX (PSC Box 42309, Kelly AFB, TX 78241) CST

First to clear up some points in my February WUD report. No, I was not putting you on reporting KMAG 99.1 as Mount Magazine AR; tho licensed to Fort Smith, the station transmits from that highest point in Arkansas, as its call implies. LSB stands for lower side band; for some reason, I could pull KWHI through KBUC, nominally both on 106.3 by tuning slightly to the low side. Tnx to Andy Bolin for revealing that IL has 2 AFM affiliates on 94.9, so my 12/14 Es reception of WGIL must be demoted to tentative. Oh, for an accurate complete FM network listing! February was totally unproductive of FMDX, but then I was gone for 13 days, visiting XEDA 90.5; and others in Mexico City. March got off to a good start with a small Gulf tropo opening, following the usual pattern: fog layer and high pressure area a few hours ahead of an approaching cold front. This was on the morning of 4 March, and the following were logged: 0728 WPCS 89.3 Robertsdale AL (660) my tropo indicator, still good at 0818, gone an hour later, but back at 0938 check, gone at 1002, weak ID at 1029, in again at 1752 w/Lifeline and at 1829 for an ID. At 0737 WAFB 98.1 Baton Rouge (455) w/usual syndie mx; still at 0920. 0739 WBYU 95.7 New Orleans LA (tentative) soft mx o/KIKK. 0744 WLPR 96.1 Mobile AL (640) w/"stereo 96" TC in CST, bank ad, Columbia House, wx, jingle, MS QRM; again at 0947 w/local ads, ID "Stereo Island" (a la KITY 92.9). 0750 KJET 107.7 Beaumont TX noted in SS stead soul w/record requests, 0800 R. Alegria ID, "puro mexicano". 0753 WSJC 107.5 Magee MS (560) ad for ch. 16 antenna at Howell's TV in Mize. 0755 WMAI 107.9 Panama City FL (780) soft dance mx; 0759 ID amid CCI. 0806 WJIZ 96.3 Albany GA (875) soul, 0812 EST TC, ID w/promo for House of Music. 0818 WCKW 92.3 LaPlace LA (495), parish wx. 0908 WYNK 101.5 Baton Rouge LA (455) World of Sports, 0909 ID then remote cw show. Next day, 5 March brought Es on TV, and a tentative spurt up to 92.3 at 2007 w/classical mx from NW. 73.

Pat Dyer 327 Solar Drive San Antonio, Texas 78227

What I thought would be a very meagre report this month got considerably boosted by a rare March Es opening. Wards 62 1 with 2 ft whip antenna. New underlined, CST used. March 4 tropo 0145 WBYU 95.7 New Orleans LA (510). Oddly enough, the only other tropo on the band was the normal stuff from Houston. March 7; around noon MUF up thru ch 6 on TV, but couldn't find any FM Es in: 1700 ch. 6 TV from Mexico, again none on FM. 1900 FM now full of Mexico Es signals. Those in parentheses are not certain IDs, but best guess. 1908 XHRO 95.5 Guadalajara (650) (88.9 XHM Mexico City; 90.5 XEDA same, also XEIA 98.5 same) then fade briefly. 1945 WKES 88.9 Chattanooga TN (870). A few nearby faint unIDs as well in this very brief stateside part of the opening. 1950 rapid fade in of Mexico again with the same as before plus XEBS FM 89.7 Mexico City (690); (91.3 XHJL Guadalajara; 94.1 XHJE Puebla; and possibly XHLC 98.7 Guadalajara QRM to KTXN). Fadeout to 2010 with some occasional 88 MHz in/out to 2030. This was a superb Es opening into Mexico with signal strengths on my simple antenna rivalling locals. In fact, KSYM 90.3 was getting it bad from 89.5 and 90.5. KNCT on 91.3 was buried as were KOKE and KZFM Austin and Corpus Christi on 95.5. Now, there is something very important in this opening. The skip distance to Mexico City is about 700 miles. If the Secant law holds for Es, then over a 1400 mile path the MUF should have been a huge 123 MHz! That is plenty to ponder about. 73.

Dr. Richard E. Wood Dept of Foreign Languages Louisiana State Univ.
Baton Rouge, Louisiana 70803

1/2 WREK 91.1 Atlanta 2125 to 2200 Ugr rr (457), WQXI Smyrna GA MoR 2305 to 2330 (458). 1/3 WSIX 97.9 Nashville s/off SSB 0000 0007 (467). 1/11 WDEN 105.3 Macon GA cw 2310 to 2325 (471), KWED 105.3 Seguin TX 2305 2306 s/off, no SSB, now clear thanks to KVSL's cessation of ANing and switch to 2300 s/off (a hopeful trend); WXLE 100.1 Phenix City AL oldies 2355 0010 (390). 1/12 WSPA Spartanburg SC 98.9 1025 1100 EL, 1100 remote from State Capitol (605), state #23, WDLT 92.7 Cleveland MS N N 2330 0000 s/off w/SSB. 1/23 KNB T 92.1 New Braunfels TX 2145/2215 all GG mx, delightful GG "Das Abendkonzert", reported in GG (440), KMFM 96.1 San Antonio classical 2215/2230 (460), KLIS 94.3 Palestine TX EL/MoR 2242/2300 (295), KGCC 89.7 Sherman TX mx 2320/2345 (400). 1/24 KTOD 101.3 Corpus Christi TX mx by McMaster (this format now dropped, per verie letter) 0015/0100 (495), KDSX 101.7 Denison TX instrumentals 0020/0040, KHFI 98.3 Austin Ugr. 0100/0140 (450), then the tropo moved north, KTEN 93.3 Ada OK local wx, mx 0700/0715 (475), KSHN 96.7 Sherman 0738/0750 MoR. Then on 2/18 my 3rd Ms logging, 2nd verified WVWK 92.9 Lexington KY 0700 ID, local finance co. spot (649). 2/20 a first day report to new WWNO 89.9 New Orleans NPR station, class. 1500 to 1700, disappointing signal not much better than WTUL's 10w on 91.5. 2/28 another new on the air, another potent 10w, KVFG 91.5 Thibodaux IA, RR current hits, student DJ 1727/1800 (50), WWAG 94.1 Carrollton AL EL 2230/2305 (295), KOTN 92.3 Pine Bluff AR EL/MoR 2315 2335 (275). Then beautiful spring tropo 3/4 WDBO 92.3 Orlando FL Central Florida Showcase, into political talk show 0400/0430 (604)m WPCH 94.9 (note call change ex WAVO, not listed anywhere, I believe) Decatur GA (serving Atlanta) ID as "Peach" EL 0400/0430 (466), WORJ 107.7 Mt. Dora FL RR, soul, hits 0440/0505 (583), WDLF 105.9 DeLand FL mainly cw 0452, mx. 05 00 (598), WWQS Orlando 105.1 mx, religion, semi class. mx., WLJM 103.7 Gadsden AL folksy DJ, MoR 0515/0530, WEZZ 97.7 Clanton AL very folksy, same spots repeated every few minutes, religious cw 0529/0540 (322) Quad array consisting of four Channel Master Stereo Probe 9 elements is now up on top of 50' tower and working beautifully. Have had some physical problems keeping it up, however. Will submit article on it when these are overcome. Is this the only quad array for FM presently in operation anywhere, as I am told? 3/6 WKSJ ex WZAM 94.9 Mobile AL EL 2350/0005 (186). Then on 3/7 my best DX day ever. WTAM 102.3 Gulfport MS soul 0240/0305 (125 newly active); then a beautiful tropo opening to Miami area, my first: WMYQ 96.3 0315/0330 MoR, hits Miami (779) WJNO 97.9 Palm Beach mx 0330, EL (722), WAXY 105.9 Ft. Lauderdale MoR/EL standards 0845/0400 excellent w/WDLF DeLand muller (750), WFTL 106.7 same 0355/0410, WHEW 101.9 Ft. Myers mx 0430, soul (630), WSHE 103.5 Ft. Laud. Ugr 0444/0500. Tropo from many areas was noted throughout day, then in late afternoon it began: my first foreign DX, Es first from Guatemala then swinging up thru Mexico City to northern Mexico; brief checks showed every station in MC not on a local frequency coming in, but positive IDs were obtained from TGRT R. Fabulosa Guatemala City 88.8 (as per WRTH, and so measured, not 88.9) 1730 spots for local shops I remember from my visit, IDs and TC as "La Fabulosa", marimba (1095), TG. Fabuestereo Guatemala 88.1 SS mx, gas spots, also US standards, \$ at times 1740/1800, XEBS 89.7 Mexico City heavy breathing YL ID as "La Chica Musical", romantic EL 1815 to 1830 (922), XHCM 88.5 Cuernavaca Mor. movie theme mx, full ID as R. Concierto FM, Cuernavaca" taped, 1822/1830 fine for lkw (947), XEUN 96.1 R. Universidad omitted by mistake in my article lang. lessons from several European broadcasters 1830/1910, XHOF 105.7 PSA's EL 1830/1900, XEW 96.9 RR, ID as "doble u FM", promos for XEW TV 5 1843/1900, XHRO 95.5 Guadalajara MoR, very complete IDs 1853/2045 (1018), XEMM 100.1 Mexico C. SS mx, ID as R. Maranatha 1908/1930, XEX 101.7 Serenata Tropical 1915/1930, XHMA 101.1 Guadalajara often \$, regional mx 1938/1950. XHJL 91.3 Guad. Estereomundo US mx, requests, \$ 2009/2030, XEJB 96.5 Monterrey NL Nortena mx. 2045 2100 XENV 90.0 omitted in Glenn's list Monterrey local spots. 2056. 73, Richard. (Very interesting to note many similar loggings in Pat Dyers and Glenns reports to Dr. Wood's. Must be nice to have Es already hi hi. RWW)

Ronald La Blanc 2524 Arizona Drive Marrero, Louisiana

I hope I can get this report off in time. Everytime I sit down to start typing the skip starts coming in. Yesterday I taped 17 different SS FM stations. Now for my report: 2/13 0929 KPFT 90.1 TX, 0930 KAYD 97.5 TX, 0945 KJET 107.7 TX, 1000 KNRO 106.9 Conroe TX, 1025 KAUM 96.5 TX, 1033 KQUE 102.9 same city. 2/17 KPFT, KAUM, KVRS (10w) KAYD and @2100 KVPI 93.5 Ville Platte LA. 2/20 1030 WVNO 89.9 new local on the air for the first time. Later in were KQUE, KAYD, KRVS, WQST. 2/21 KRVS KYND, KPFT, KAUM, KAYD, KHCB, KFXL, KRMH, KREB, KBPO, WKSJ, KQUF. 2/23 2040 WFAA 97.9 Dallas, 2100 KREB 106.1 Monroe LA, 2230 KIVY 92.7 TX 2308 KOOI 106.5 TX, 2330 KOAX 105.3 Dallas, plus most Houston stns. 2/24 2100 WBOP 101.5 Pensacola FL, 2105 WCOA 100.7 Pensacola plus most Houston stns. 2/25 2045 KOUL 103.3 Sinton TX, 2100 KUT 90.7 Austin, 2230 KEXL San Antonio, 2235 KVLG LaGrange TX, 2237 KOOI, 2300 KHER 105.7 Longview TX, 2305 KGBC 106.5 TX, 2400 KOAX 105.3, 2406 WFAA 97.9, 2425 KRBE 104.1 Houston. 2/28 0640 WDLF 92.7 Cleveland MS, 2150 WOOR, WSWG, WQST, WJNS, all MS, 2220 WJMI 99.7 in Jackson MS, 2248 KARK 103.7 Little Rock, 2358 KHER, 2440 WJLN 104.7 Birmingham AL. 2/29 2030 WNSL 100.3 Laurel MS. 3/3 a big trop opening occured to the east starting at 2100, WKES 88.9 Chattanooga TN, 2110 WZGC 92.9 Atlanta, 2315 WDLF 105.9 DeLand FL, 2325 WTVY 95.5 AL, 2333 WPAP 92.5 Panama City FL, 2355 WUSF 89.7 FL, 2357 WPEX 94.1 FL, 2400 WLCY 94.9 Tampa, 2401 WLPR 96.1 AL, 2415 WQXM 97.9 Clearwater FL, 0150 WGLF 104.1 Tallahassee FL, 0200 WBRC 106.9 AL, 0205 WDBO 92.3 Orlando, 0207 KOBA 99.1 TX, 0215 WJIZ 96.3 Albany GA, 0250 WENN 107.7 AL, 0255 WLAC 105.9 TN, 0302 WREK 91.1 GA, 0305 WFDR 93.3 Manchester GA, 0310 WDIZ 100.3 Orlando, 0315 WFLA 93.3 Tampa, 0320 WHYD 106.3 Columbus GA, 0330 KROB 99.9 TX, 0334 WMAI 107.9 Panama City FL, 0337 KEEZ 97.3 TX. 3/4 0607 WAPI 94.5 AL, 0614 WEZZ 97.7 Clanton AL, 0616 KITY 92.9 TX, 0633 KADL 94.9 Pine Bluff AR, 0634 WTVY AL, 0645 WRBL 102.9 Columbus GA, 0735 WCRT 96.5 AL, 0750 KPFT, 0751 KUT, 0807 KEXL, 0848 WHFL 97.5 Winter Haven FL, 0907 WIRB 96.9 Enterprise AL, 0957 WHBQ 105.9 TN, 1014 WRFS 106.1 Alexander City AL, 1105 WXLM 97.3 Savannah GA, 1135 WNBX 98.1 Andalusia AL. 3/6 2015 unID Es on 90.5 SS, could be XEDA Mexico City, also 88.5 unID SS, then on 3/7 SS skip was in for 4 hours, first positive ID was XETIA 97.9 Guadalajara. All listings below are on tape. As soon as I can find someone to translate them for me I will have positive IDs. 88.1, 88.5, 89.3 (XEBS??), 90.5, 91.3 (XHJL?), 91.9, 92.9, 88.3, 89.3, 92.7, 88.7, 96.1 (XEUN?), 88.9, 96.9 (XEW) 100.1 (XEMM), 97.9, 100.3, 92.1. 18 Spanish stations. I wonder what my chances are for having positive IDs on tape for all of them. (Very slim Ron. I would suggest you check through the other reports this month. I put in the call letters of ones Dr. Wood submitted on matching frequencies. RWW) 3/8 skip came again, IDed were WGGI 91.1 Houston MI @1930, state # 12. At 1931 WKAR 90.5 East Lansing MI, plus unID 90.7, 88.7 and 88.3. (Ron, if those last three were // you definitely had WHAD, WHA and WHWC in that order, all Wisconsin State Broadcasting Service stations. RWW) Total stations now at 186, not counting the 18 SS unIDs. 73s.

Richard Clark Larco 498 Callac Peru South America

I am now reporting my new location here in Peru which I like very much. On the FM here in Lima is very little. We have only 5 stations and no out of town stations whatsoever. I guess everyone here likes BCB much more since we have 32 BCB stations in Lima! (And I thought I had it bad in Chicago Hi hi RWW) The only hope I have is Es on FM, which should be interesting. Stations here are 94.1 Radio America NSP, 100.0 Radio Cien FM s/off 0800, 101.0 Radio Panamerica stereo s/off 0600, 101.5 Radio Union s/off 0600, 102.0 Radio del Pacafico s/off 0400. (Strange times to be signing off, just as everybody is getting up in the morning. RWW) Well that's it from Peru. Dick.

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

My report is long overdue, which accounts for my starting off w/Christmas DXing. Great trop openings on this date brought in new loggings: WXIE Phenix City AL 100.1 w/MoR in \$ and ABC nx @2214, WSOC 103.7 Charlotte NC w/nx/cw mx @0015. 12/21 for my 19th state, this, a clear solid \$ signal w/only an indoor folded dipole antenna; WDEN Macon GA 105.3 w/stereo cw @0020. Other stations copied, mostly familiar sounds sweeping up from New Orleans NE to NC, @0559 WFDR 93.3 Manchester GA w/cw mx and very faint sound...Christmas AM the trop lasted until noon, w/new loggings KTBC 93.7 Austin MoR \$weakly u/WVMI 93.7 MS...and KARK 103.7 AR HP '71 \$; very strong that nite to 2400 s/off. 12/25/26 had strong opening to Houston, San Antonio/Austin, Fort Worth/Dallas, mostly familiar except for KOAX (coax) 105.3 Dallas MoR \$ 0017; WERH 92.1 Hamilton AL EZ mx in mono, barely audible w/Sears spots @0648; WREC 102.7 Memphis barely audible w/CBS nx @0700; back in were Birmingham; WSPA 98.9 SC, WKES 88.9 TN w/religion. That evening new WESC 92.5 Greenville SC@2318 w/mono cw; WBIR 103.5 Knoxville w/golden oldies spot and HP '71 \$ sound, steady and clear @2331; WCOS 97.9 SC in mono w/Ugr mx...local off several days, so copied WQMG 97.1 Greensboro NC @0015 w/top 40 \$ and WLBG 100.5 Laurens SC mono w/cw and spot for Piedmont Paint Store 0811...All of the above stations were copied on the dipole made of TV lead in, a total of 194 stations, including Es to Bismark ND. On 12/28 I put up my first outdoor antenna into operation, an Archer Twin Drive atop a 23' mast, and was rewarded with KEEL 93.7 IA in/out w,MS 93.7 and KCAW 93.3 Port Arthur TX @0515 w/cw mx,wx..both new loggings. January 1 1972 brought in KJEF 92.7 IA, long sought, w/big band mx @1100, KVPI 93.5 Ville Platte IA w/top 40 @1515, and atmt mixture of rock/cw (get that) at night until 2300. 1/1 great opening to Mo IA/MS, w/many new loggings@KILT 100.3 TX w/rock "solid gold" 1930, KTOC 104.9 Jonesboro nx 1955, WSM 95.5 TN w/MoR \$ 2025 increasing strength, WWTX 95.3 Corinth MS w/EZ mx in mono @2055, WDUN 106.7 Gainesville GA w/EZ in \$, ID and wx @2133, WLOM 106.5 TN w/EZ \$ ID 2130, WLET 106.1 Toccoa GA 2130 PSA for Chamber of Commerce. These 3 were right next to each other, and monitored them in rapid succession, I was able to copy them all IDing around 2130..WOOR 97.5 Oxford MS \$ top 40, 2134/2200 s/off w/nx, WRIL 100.1 Grenada MS \$ cw nx 2145 spot for Granada Hdwe...WABE 90.1 Atlanta clx mx "Sunday concert" 2045 into 2205 ID 2200 "now seven days a week"..WNIA 105.5 Indianola MS w/EZ and ABC Comp. nx 2028 "Delta radio"...WDRU 95.3 Drew MS (Archie Manning's hometown) mono, EZ uninterrupted 2200 to 2230 wx/ID... WDFW 92.3 TN EZ \$ 2200 to 2300, slowly weakening...WDOD 96.5 TN w/lite clx 2300 s/off w/Dixie, WJOF 104.3 Athens AL 2314 local spots, ID"50,000 watts from the Tennessee Valley", cw steady sig, WRSA 96.9 AL MoR 2319 ID "Your 24 hr stn. in the Tenn. Valley". WQXI 94.1 GA w/Ug rock 2338 PSA for CARE, strong. 1/3 was MM, many locals off, so copied: WDOF 99.7 Dothan AL w/MoR 0512 \$. WMC 99.7 TN w/MoR 0525, WACT 105.5 AL barely audible w/cw, WIAL 102.9 in Shelbyville TN poor signal w/cw, WLJM 103.7 AL 0543 MoR wx. 1/4 Ms "on NE Iowa's most powerful" 92.3 probably KOEL, but didn't count it. 1/7 WEAT 104.5 FL @0545 w/EZ MoR, no other FL stn in at this time, save WLCY 94.9. 1/11 short trop opening brought KFRD 104.9 Roesnburg TX w/cw. 1/12 WPLO 103.3 GA atmt rr 0529, WABY 105.3 Gaffney SC 0524 w/BKB scores cw mx, WQSB 105.1 Albertville AL w/cw 0549/0600, 0603 WTPL (or WPPL?) Blue Ridge GA nx w/real country DJ, this stn. new on the air that nite/ KWHI 106.3 TX MoR 2045, KAGH 104.9 AR cw, promo for Razorback BKB 2110; incredibly KYEA 98.3 IA 2147 w/soul mx next to 98.5 local 3 miles away, KYEA only 590w! KMLB 104.1 IA \$MoR, NBC nx @2200, KFMV 107.9 AR \$MoR, noisy sig to 2300 s/off, KRUS 107.1 IA atmt MoR 2300 ID, much better after KSIO s/off. 1/23 Ron LeBlanc woke a cranky me out of bed WTAW 92.1 TX cw @2000, TSN nx \$, KUT 90.7 TX 0800 Ai nx clx mx, KOUL 103.3 TX rel @0830, KNUS 98.7 TX rel 2100 ID, KVEE 105.1 Conway AR 0905 out of "Action News" into rr, teen jock, very weak, KSPL 95.5 Diboli TX 0915 w/rel. mx, // to AM in mono, vly steady, KFAD 94.9 TX mono cw "Voice of Arlington" Cont'd.

Dorner (Cont'd.)

KGAF Gainesville TX 94.5 solid gold "The selectric sound of stereo 94" very strong and steady, KVLG 104.9 LaGrange TX cw mx, mono 1932, accented DJ, KNCT 91.3 2030 Killeen TX mono classical mx to 2200 s/off, KBUY 93.9 Ft. Worth 0523 next morning w/SS programming 0530 "vuestra emisora latinamerica en Fort Worth", KXOL 99.5 same 0533 rock mx "old gold", KPLT 99.3 Parix TX cw mx, spot of Willard Antacid tablets, mono weakly 0549, apparently there were many stations in/out on 95.3 WW pgm 0600 to 0730 (KAWB?) KAWB def. IDed w/EE pgm out of the cacophony 0725 stereo...finally KRVS 88.3 Lafayette IA 1105 1/29 w/rock mx and news 1200 barely audible, after months of trying. Now, I'm fairly up to date. Glad, Roger? (Yes definitely. Double spacing your report in the future would make things much easier when typing this. RWW)

Dave Brown Route 1 Box 514 Jackso n Hts, Farmville VA 23901

After my last good tropo opening on 10/19, things have been very quiet although I haven't been monitoring the band as consistantly as possible. 11/6 0445 WYCS 91.5 Yorktown VA 1100 claims to be the most powerful high school station on FM in the US w/21.4kw. Giant inversion layer that hung over the east coast from N YC to Birmingham the week of 11/15 proved to be a flop w/the band assuming its normal down tropo level and on several occasions Baltimore stns in w/good quality. This period brought me in 2 new stations 11/14 0225 WAFR 90.3 Durham NC 3kw; and 0240 93.5 WJLM Salem VA relig. format,. The former station is a bit interesting...it's run by the "Community Workshop" and it's programming may be best described as "Black Awareness" so if anyone hears Swahili on this freq. during future Es sessions, don't get too excited, hi. That wraps it up except to note that during my Es opening on TV 12/29 MUF was thru ch. 6 into Canada, although notning hrd on FM, probably there weren't any Canadian FMers on the air to be skipped. 73 Dave.

Les Pruse 1615 Pierre Manhattan Kansas 66502 CDT

Although this is my first report to this column, I've been DXing FM sporadically for nearly 2 years. The receiver used for the following loggings is a Sony solid state AM/FM table radio "8F 51W) w/line cord antenna and no provisions for an external one. I've gotten fair results by connecting the set to my TV antenna and preamp via the speaker coil and picking the signal up through induction, If anyone would like to see the schematic and suggest better ways of connecting it, I'd be glad to send them a copy. My vest DX of 1971 took place via tropo on 9/18/19: 1700 KROC 106.9 Rochester MN, 0100 WCAL 89.3 Northfield MN, and at 0115 WKRX 106.9 Louisville KY. 22 new stations were received that night, between TV IDs. In 1972 I caught my first FM Es: on 7/5/71 @0110 WBPZ 92.1 Lock Haven PA, on 7/8 1130 WAMU 88.5 Washington DC was heard, and on 7/30 four more between 1130 and 1230: WGPL 93.1 Winston Salem NC, WBAG 93.9 Burlington NC, WWCW 88.9 Buckhannon WV, and WCOL 92.3 Columbus OH. Then more tropo on 9/6 with WLVE 94.9 Baraboo WI heard around 0300. I expect to do much better this year, having just finished connecting my TV antenna/preamp to a Telefunken Truhe Wein II, a 6 tube communications receiver/record player about 15 years old. With new tubes and restrung dial cord, it's performance is excellent compared to the Sony. Under absolutely dead cx, my maximum range is about 125 to 150 miles. Bruce Elving, watch out!! Log totals now 13 states and DC, 75 stations heard. 73, Les. (Welcome to the column Les, glad to have you and keep reporting monthly. RWW)

Roger W. Winsor 718 N. Fremont Road Valparaiso, Indiana 46383

Nothing new here, antenna troubles keep plaguing me. I have noticed new call letters in WLAK, ex WWEL 93.9, same EZ mx format. WLNR 106.3 Lansing, IL is now in \$ w/chicken ungerground rock from 2000 to 0000 s/off. WMCB 95.9 my local overmodulater Michigan City is also on to 0000 now, from 2100 previous s/off.

EASTERN TV-DX

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

Deadline: April 14

February and March have turned out to be more dull sinter DX months as only four eastern reporters contributed reports for the April VUD. Reporters are getting a little further as this month's report from Richard Clark comes from Peru. Some skip has filtered through the winter duldrums with January 16 and March 3 producing some good distance for more than one DX'er. On January 16, skip was reported from two east coast locations (Staten Island and Farmville, Virginia) with March 3 brought skip results to Louisiana and Virginia. At the end of January, Ron LeBlanc reported that "it's been 18 days now since the band has been dead. I guess that things have slacked off for a while." He did go on to say that after years of trying he finally got KJAC-4 (Port Arthur, Texas) and KFVS-12 (Cape Girardeau, Missouri).

Jerry Pulice, 143 Gibson Avenue, Staten Island, New York 10308 (EST)

10-27	Tr 2200	WJAR-10	WPRI-12	Rhode Island	12-20	Es 1800	KTCA-2	St. Paul, MN
10-29	2100	WEDN-53		Norwich, CT	12-22	1345	KMTV-3	Omaha, NE
	2100	WEDW-49		Bridgeport, CT		1345	KTVO-3	Ottumwa, IA
10-30	0700	WNEF-12		Binghamton, NY		1400	WBBM-2	Chicago, IL
	0700	WTIC-3		Hartford, CT	1-4	2110	UHF's from Central Penna.	
11-18	0535	WTOP-9		Washington, DC	1-12	2050	WFAM-14	Washington, D.C.
	0535	WMAR-2		Baltimore, MD		2050	WDCA-20	Washington, D.C.
	0600	WFBG-10		Altoona, PA		2050	WETA-26	Washington, D.C.
	0617	WRGB-6		Schenectady, NY		2050	WBOC-16	Salisbury, MD
	0617	WHEN-5		Syracuse, NY		2050	WBFF-45	Baltimore, MD
Ms	0620	WLAC-5		Memphis, TN		2050	WMPB-67	Baltimore, MD
Tr	0644	WNEF-12		Binghamton, NY		2145	Rhode Island stations	
Ms	0645	WCIA-3		Champaign, IL		2300	WSBK-38	Boston, MA
Tr	0700	WSYR-3		Syracuse, NY		2300	WKBC-56	Boston, MA
12-14	Es 1645	UNID-3,5					UNID-28	WRDU? Durham, NC
	1700	KTEW-2		Tulsa, OK	1-16	Es 0940	UNID-2,3,6	Cuba?
	1730	KARK-4		Little Rock			"channel 2-3 sync off to the right"	
	1814	WESH-2		Daytona, Beach, FL			"channel 6 Spanish audio"	
	1814	WEDU-3		Tampa, FL	1-30	1315	UNID-3	// to KYW
12-17	2134	UNID-2			3-22	Ms 0630	UNID-3	"KIR-90"

Richard Clark, Larco 498, Callao, Peru

2-25	Tr	Teledos-2	Lima
		Televisora America/Telecuatro-4	Lima
		Panamerica Television-5	Lima
		Televisora Peruana-7	Lima

2-25	Tr	Teleonce-11	Lima
		Televisora Universidad-13	Lima
		-----9	Callao (now inactive)
		Teledos-3	Huancayo
		Televisora Aufrila-6	Ancon

"Channel 11 is Teleonce not Televisora Bega as in WRTU, and there is no UHF here. The rest of the channels are clear. Now wait for my first Es here at my new location." (I'm looking forward to getting your reports from Peru. Dick uses a Panasonic receiver and has now seen a total of 9 stations in Callao. dp)

Ronald J. LeBlanc, 2524 Arizona Drive, Marrero, Louisiana 70072 (CST)

"February was pretty dull, nothing but a lot of reruns except for a few Es on March 3, 6, 7, and 8. Could be that we will have an early skip season this year."

1-17 Tr	1800	WMAU-17	Bude, MS	3335N119	2-16 Tr	KHMA-11	Houma, LA	5555N042	
1-22	2100	KHOU-11	Houston, TX	3335R321	"they have been testing for about a week, due to go on the air March 1"				
	2130	KHTV-39	Houston, TX	3225R321					
	2400	KZTV-10	Corpus Christi	3343R485	2-17 Tr	1830	KHOU-11	Houston, TX	3233R321
	0027	KTRK-13	Houston, TX	3343R321		1900	KTRK-13	Houston, TX	3344R321
#232	0040	KJAC-4	Port Arthur, TX	2343N237		1901	KHTV-39	Houston, TX	3335R321
	0041	KRGV-5	Weslaco, TX	3342R558		1930	KVRL-26	Houston, TX	1031R321
	0055	KPRC-2	Houston, TX	3335R321	"ID of KVRL-26 through local WWOM-26"				
	0100	KIII-3	Corpus Christi	3335R485	2-20	1830	KHOU-11	Houston, TX	2235R321
	0105	KGBT-4	Harlingen, TX	3334R541		1832	KTRK-13	Houston, TX	2234R321
	0113	WOAI-4	San Antonio, TX	3233R510	2-28	1820	KTHV-11	Little Rock	4435R350
	0130	KENS-5	San Antonio, TX	3335R510		2300	KTVE-10	El Dorado	3334R285
	0145	KCEN-6	Temple, TX	2335R441	3-3 Es	1830	CJIC-2	S.S. Marie, Ont	3332R1190
	0237	WFAA-8	Dallas, TX	3335R456		2000	WBAY-2	Green Bay, WI	3332R1006
1-23	0600	KRGV-5	Weslaco, TX	4444R558		2001	UNID-3		
	0605	KHOU-11	Houston, TX	3445R321	Tr	2200	WHNT-19	Huntsville, AL	3333R375
	0615	KTRK-13	Houston, TX	3443R321		2247	WTCG-17	Atlanta, GA	3444R406
	0708	KLTV-7	Tyler, TX	3332R353		2300	WAAY-31	Huntsville, AL	3555R375
	0710	KSLA-12	Shreveport, LA	3343R289		0012	KPRC-2	Houston, TX	3455R321
	0712	KSAT-12	San Antonio	3343R510		0023	WTVM-9	Columbus, GA	2222R337
	0800	KHFI-42	Austin, TX	3345R460		0025	WDEF-12	Chatanooga, TN	3433R460
	0802	KVUE-24	Austin, TX	3455R460		0026	WBMG-42	Birmingham	3344R320
	0803	KHTV-39	Houston, TX	3455R321		0035	KTBC-7	Austin, TX	3355R460
	1800	KNCT-46	Belton, TX	3335R456		0037	KHFI-42	Austin, TX	4555R460
	2130	KTVE-10	El Dorado, AK	4554R285		0040	KVUE-24	Austin, TX	4555R460
	2305	KTHV-11	Little Rock,	4443R350		0104	WHBQ-13	Memphis, TN	3344R366
	0012	XHX-10	Monterrey, NL	3332R700		0105	KHOU-11	Houston, TX	3444R321
	0015	KTVT-11	Dallas, TX	3323R456		0107	KTRK-13	Houston, TX	3344R321
	0023	KZTV-10	Corpus Christi	3333R485		0123	WAPI-13	Birmingham, AL	3343R320
	0027	KNOE-8	Monroe, LA	5554R213		0124	WSB-2	Atlanta, GA	3444R406
	0043	WFAA-8	Dallas, TX	3555R456		0135	KSAT-12	San Antonio	5553R510
	0045	KATV-7	Little Rock	5554R350		0140	WQXI-11	Atlanta, GA	2334R406
	0049	KTBC-7	Austin, TX	3455R460		0142	WBRC-6	Birmingham, AL	5555R320
	0050	KSAT-12	San Antonio	4555R510		0145	WAGA-5	Atlanta, GA	3243R406
	0110	KTBS-3	Shreveport, LA	4554R289		0200	KIII-3	Corpus Christi	5555R485
	0128	WBAP-5	Ft. Worth, TX	3025R485		0300	KBMT-12	Beaumont, TX	4555R244
	0135	WBRC-6	Birmingham, AL	3555R320	3-4	0545	WINK-11	Ft. Myers, FL	3333R564
1-24	0555	KFVS-12	Cape Girardeau	3333N527		0550	WLTN-12	Jacksonville	3333R503
	0600	WHNT-19	Huntsville, AL	3435R375		0600	WTVT-13	Tampa, FL	3443R488
	0605	KGBT-4	Harlingen, TX	4554R541		0615	WSEA-12	Montgomery, AL	3443R289
	0620	WHBQ-13	Memphis, TN	4444R366		0715	WKAB-32	Montgomery, AL	2355R289
	0625	WCOV-20	Montgomery, AL	2335R289		0717	WHNT-19	Huntsville, AL	4555R375
	0640	KLTV-7	Tyler, TX	3333R353		0719	WCOV-20	Montgomery, AL	4555R289
	0645	KSLA-12	Shreveport, LA	3323R289		0720	WBMG-42	Birmingham	4555R320
	0650	KTVE-10	El Dorado, AK	5555R285		0725	WYEA-38	Columbus, GA	3555R337
	0658	KATV-7	Little Rock	5553R350		0745	KVUE-24	Austin, TX	3555R460
	0700	KTHV-11	Little Rock	5554R350		0747	KHFI-42	Austin, TX	3555R460
	0800	WBMG-42	Birmingham	3224R320		0759	KSAT-12	San Antonio	4432R510
	0830	KLRN-9	San Antonio	5543R510		0800	KTBC-7	Austin, TX	3343R460
	0915	KHTV-39	Houston, TX	4544R321		0830	WJSP-28	Columbus, GA	3345R337
	0917	KVUE-24	Austin, TX	5555R460		0831	WJKS-17	Jacksonville	3355R503
	0930	KHFI-42	Austin, TX	4555R460		0930	WDHN-18	Dothan, AL	3345R305
	1000	WCFT-33	Tuscaloosa, AL	2334R263		1128	WGIQ-43	Louisville, AL	3335R287
	1100	KTBC-7	Austin, TX	4332R460		1130	WJCL-22	Savannah, GA	3555R564
2-10	2130	All Mississippi ETV's snow free							
	2131	W7OAU-70	Biloxi, MS	3355R070					

(continued on page 3)

Ronald J. LeBlanc (continued)

3-5	Es 1930 KOAI-2	Flagstaff, AR	2022R1310	3-10 Tr	KHFI-42	Austin, TX	3555R460
	"ID through WBRZ-2"				2201 KTRK-13	Houston, TX	4454R321
3-6	1945 XEW-2	Mexico CityDF	4432R917		2250 KVRL-26	Houston, TX	4431R321
3-7	1915 XEW-2	Mexico CityDF	4432R917		0012 KPRC-2	Houston, TX	4555R321
	1805 XTFB-3	Monterrey, NL	3342R700		0023 KVUE-24	Austin, TX	3555R460
3-8	1915 CJIC-2	S.S. Marie, Ont	3332R1190		2400 KFDM-6	Beaumont, TX	4555R244
3-10	2000 WTOG-44	St. Petersburg	4555R488		0055 KBMT-12	Beaumont, TX	4555R244
	2001 WXLN-40	Sarasota, FL	4555R503		0102 KHOU-11	Houston, TX	3555R321
	2030 W7OAU-70	Biloxi, MS	3555R070		0230 WFAA-8	Dallas, TX	2335R456
	2143 KHTV-39	Houston, TX	3555R321		"total stations now 234"		

(Ron uses 2 Zenith sets with a 7-foot dish for UHF and a Channel Master 3617 for VHF; also among his gear is an Alliance T-45 rotor and a Heathkit AR-1500 receiver for FM)

Dave Brown, Rt. 1, Box 514, Jackson Heights, Farmville, Virginia 23901 (EST)

1-16	Es 1100 WESH-2	Daytona Beach	3333R	2-29 Tr	0550 WITN-7	Washington, NC	3445R
	1110 WTVJ-4	Miami, FL	4234R		0600 WNCT-9	Greenville, NC	4555R
	1115 UNID-3	WFAR?		3-3 Es	1935 UNID-2	KQTV?	3233R
	1120 UNID-4	WJXT?			1937 UNID-2	KTVI?	0432R
	1125 UNID-2	WSB? Billy Graham			1945 KCKT-2	Great Bend, KS	4545R
	1130 UNID-3	Cuba?			1955 WDAF-4	Kansas City, MO	4455R
2-29	Tr 0545 WPVI-6	Philadelphia	3045R		2015 KARD-3	Wichita, KS	2433R

TV Station List

This highly detailed list covers the United States, Canada, Mexico, Cuba, and Costa Rica. Satellite stations are listed and their stations of origin identified. The list is designed for quick use. On VHF, one page to a channel is used. Many UHF offsets are also listed.

Order now, and get yours in time for plenty of DXing pleasure!

\$200

Fred McCormack, Des Lacs ND 58501, is in need of a January, 1972 VUD. This issue is sold out at club HQ, so if anybody can spare their copy and send it to Fred, this would help to complete his collection of VUDs. Contact Fred directly, and we're sure he will be glad to pay the standard back-issue/of 50¢ price for this issue.



WESTERN TV

Dennis Park Smith
1200 W. Sacramento Ave., Apt. 15
Chico, California 95926

April 1972

Deadlines: 12th of each month

February was practically DX-barren. Some DXers went on trips and didn't catch any, and those who stuck to the dials saw next to nothing. Small bits of Es were caught on dates 20 and 22, along with a smattering of tropo in late February. Also, a little tropo was noted around 3-4 March. Already, though, March has roared in like a lion, Es-wise, and up to press time, lots of Es has been reported here on March dates 3, 4, 5, 6, 7, 9, with such as 3 and 7 up into FM. Sometimes, an off-season Es opening occurs on one evening sometime in March for a few hours or less, but this March has found many days with many hours at many different times reported. The biggest opening was on 7th, with Central America and Mexico seen in Texas and Oklahoma. Comments by Pat Dyer best illustrate this unusual situation, in his report.

Jim Pizzi, 300 Park Ave., Orcutt, California 93454 (19 Dec - 26 Feb) (PST)

D31 Es	0928 CBUT	2 Vancouver BC	2032R	(19)(Tr)	0942 KGO - 7	San Francisco	2334R230
	0930 KATU	2 Portland OR	3343R		1837 KPBS-15	San Diego	4435R245
J4 Tr	1740 ?	27 (KNBC-xltr: dead)	NE)2045		1838 KCST 39	San Diego	3325R245
17 Tr	2200 KTVU	2 San Francisco CA	3245R225		1847 KGSC 36	San Jose	4435R190
	KRON-	4 San Francisco	3345R225		1930 KXTV 10	Sacramento	3333R
	KPIX	5 San Francisco	2044R230	F26 Tr	1900 KMST 46	Monterey	3545R135
18 Tr	2330 KPBS-15	San Diego CA	2145R245		KGSC 36	San Jose	3445R190
19 Tr	0940 KTLA	5 Los Angeles	3234R		1924 <u>KEMO?20</u>	San Francisco	4545N225
	(HTP:run@0930 w/s/on@1000 Mon-Fri)				1935 <u>KBHK 44</u>	San Francisco	3445N225
	0941 KPBS-15	San Diego	3345R245		1940 KMST 46	Monterey	5545R135

On Ch. 20, Spanish pgm @ 1900, fade-out 1950; ads included La Favita Market, SF, 1924. Never gave Id. Feb VUD listed it as off air 3/30/71; might now be Spanish outlet. KBHK 44 in at same time; KGSC 36 KMST 46 excellent plus KTVU 2 KRON-4 KPIX 5 KGO-7. Looked for KTEH 54 San Jose but no dice.

Haven't seen any Es since 12/31/71. Short tropo on 2/26 best in a while.

Can't figure where ch 27 repeater of KNBC could be; could have been some kind of harmonic but not caused by family TV so I won't count it as anything until I find out what it was. Total now at 112.

(I'll try to find out more about Ch. 20 SF; it is not listed in newspapers. It changed owners in January. Modesto's KLOC-19 has DJ-style country music during day, Spanish programs at night, which might be possibility, but SF ad seems to rule that out.)
dps

Dave Pomeroy, 8720 W. 80th Street, Overland Park, Kansas 66204 (13 Jan- 6 Mar) (CST)

J13 Es	0700 WKTV	2 Utica NY	3433R	20 Tr	0745 WAND	17 Decatur IL	3455R
	0725 WGBH-	2 Boston MA	2433R		0800 WICS	20 Springfield IL	1325R
	(TP w/ call)				0800 WICD	15 Champaign IL	

Above address is my DXing location. It has been pretty poor, DX-wise. Spring should bring an upswing in activity, though. Best of DX.

George A. ("Artie") Bigley, 2807 Gainesborough, San Antonio, Texas 78230 (Feb-6Mar) (CST?)

F22 Es	XHBC-	3 Mexicali BCN		M4 Es	0055 KLINE-	3 Lexington NE	
23 Tr	0425 KOSA-	7 Odessa TX			0233 ?	- 2 Tulsa OK	
M3 Tr	0625 KATC	3 Lafayette LA				(KVOO-TV? Ad for KVOO radio)	
	0630 WAFB-	9 Baton Rouge LA				(Formerly KVOO-TV, this station is now KTEW, George. dps)	
	0633 WWL	- 4 New Orleans LA			0305 KUSD-	2 Vermillion SD	
	0636 KLFY-	10 Lafayette LA			0315 KOTA-	3 Rapid City SD	
	0700 WDSU-	6 New Orleans LA		6 Es	2335 WEDU	3 Tampa FL	
	0715 KNOE	8 Monroe LA			2345 WTHS	2 Miami FL	
					2355 WESH-	2 Daytona Beach FL	
				7 Es	0015 WCIX	6 Miami FL	
					0225 XEW	- 2 Mexico City DF	

Due to the fact that I'm using the family set, I will not have as many loggings as I should have.

(A very good first report, George (or Artie?). You caught some good DX in these "off-season" openings. There is now quite a group of WTPDAers in San Antonio. dps)

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

- Receiver: 1971 Penncrest 9-inch B&W (* 1968 RCA color model GJ721W)
- Antenna: 6-el hi-low VHF Yagi at 12 ft aimed NE. (* 11-el hi-low VHF Yagi, 15', SE.)
- M4 Tr 0010 WWL - 4 New Orleans LA 510 (7)(Es) (1208) UnIds chs 4, 5, 6
- 0025*WAFB- 9 Baton Rouge LA 450 1630-2100: UnIds chs 2-6 (Spanish)
- 0035*WVUE 8 New Orleans LA 510 2030 XHY - 3 Merida, Yucatan, Mex. 820
- 5 Es 2006 KTWO- 2 Casper WY 1015 9 Es 0959 WSAZ- 3 Huntington WV 1110
- 2130 KOTA- 3 Rapid City SD 1050 1029 WAVE- 3 Louisville KY 960
- 6 Es 1940 XHY - 3 Merida, Yucatan, Mex. 820 1110 WBTW 3 Charlotte NC 1110
- 7 Es 1208 WIHS- 2 Miami FL 1150 1129 WPMY- 2 Greensboro NC 1175
- WEDU 3 Tampa FL 975 UnIds chs 4, 5

One does not expect to be discussing much about Es in the month of March, but what has been happening over nearly the last week changes things. Although I haven't been TV-DXing as many years as several other members, my limited time has shown me that this amount of TV Es in March just shouldn't be. The MUF Mar 7 1900-1930 was at least 98.5 MHz as short as 700 miles, making a 1400-mile MUF of something like 123 MHz or more. This is definitely not the type of Es we expect in the quietest month of the year. Also, the openings have been coming in the morning as well as normal evening. Also, mixed in with all this on 50 MHz was F2--an unexpected but welcomed mode--into Colombia and other South American regions. At this point, the rest of the month might be very interesting if the Es keeps it up and the F2 continues. The past few days could have easily passed as late April or early May conditions for Es. 73, WA5IYX/5.

Glenn Hauser, Von Ormy, Texas (PSC Box 42309, Kelly AFB TX 78241) (6Feb-6Mar) (CST)

If there was any DX in February, it must have been while I was in Mexico City visiting Gregg Calkin for a couple of weeks; KRGV-5 on the cable there exhibited some CCI occasionally, which may have crept in at the Reynosa pickup site. March, however, got off to a nice start, saving this report from being nothing. The tropo was not a major opening. Es started to look like a minor off-season on 5th but developed into a great opening on 7th from Central America, including several FMs from Guatemala, Mexico, El Salvador, Nicaragua and Honduras! Look for a further update on Mexican FM and TV elsewhere in VUD soon.

- M4 Tr 0729 WAFB- 9 Baton Rouge LA (Id) 455 (7)(Es) 1630 YSU - 4 San Salvador ? T (about 15 kHz CCI to WOAI)
- 0819 WRBT 33 Baton Rouge (ABC) 455
- 0823 WYEA 39 Columbus GA (NBC) 840 1635 YS ? 6 San Salvador ? T (Sp.audio from south; 1655 "Immortal" promo 'en su TV6, la imagin del '72'; ad; 1701 Mexican-type novela, 1721 still vy strong novela; MUF reached 98.6MHz)
- 0823 WCWB 41 Macon GA ? T
- 0855 KHMA-11 Houma LA N475
- (RTMA TP; 0900:30 black; 0902 Id slide, then pgm)
- 5 Es 1550 ? 2 (unId NW) 1805 XHY - 3 Merida Yucatan N805 (Fonga la basura en su lugar", Mex Litter PSA, Novedades de Yucatan; 1830 Id; 1906 PRI-sponsored pgm of state talent; 2029 closing "Mision Imposible," Seguro Social PSA in Sp& Indian lang)
- 1642 YSR - 2 SanSalvador ELS.5555 1205 (mode end w/ Japanese titles; Club Tele-Vito slide w/V formed by rabbit wears, YSR/TV2 Id, 1643 Popeye. 1700 gre)
- 1900 WESH- 2- Daytona Beach FL ? T
- 1923 KQTV 2- St. Joseph MO (ABC NE) 750 1813 WEDU 3 Tampa FL ? (Eng. lessons) T
- 1924 WDIQ 2 Dozier AL ? T 1826 WIHS 2 Miami FL ? T (BlackJnl; 1837 super phone 949-8323)
- 1926 KTWO- 2 Casper WY 1020 1927 XHGC 5 Mexico DF ? T (Route 66, 1930 open Disney hour delayed; 2005 Id, 2036 Jimmy Stewart)
- 1942 KMTV 3 Omaha NE ? T 1927 XHTV 4 Mexico DF N685 (CCI to WOAI south; 1957 unmistakable "4" logo rolling across under WOAI)
- 2018 KUSD- 2 Vermillion SD 965 1928 XHP - 3 Puebla Puebla N710 (Ch8 logo from net source XHTM Mexico DF; 1947 novela; 1952 Canal 8; 1955 "Telepremio/Tele 8" set; 1956 slide of same w/TIM logo; 1957 Puebla slide, Id w/3 in same style as 8)
- 7 Es 1630 TGW - 3 Guatemala Guat 1130 1938 XEW - 2 Mexico DF 685 (1700 Radio 560 slide, 1701 "Canal 3" slide, 1704 Flintstones) (Novela; 2001 Id w/'W2's everywhere; 2006 "La Criada Bien Criada" // ch3; 2120 back briefly)
- 1630 YSR - 2 San Salvador El Sal 1205 (1644 gray scale or full-bar CB, mx; 1704 "TV2" in upper left, girl ancr pgmsum, then to TPw/CL, Club Televito slide, cartoon, 1837 quiz) 2006 XEZ - 3 El Zamorano Gro N600 ("Criada" // ch 2)

Until the next, 73 de Glenn.

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662 (February) (CST)
Tropo reached 470 miles this month, with Feb 24-25 & 28-29 best. No Es seen at all.

Feb 8-21: Receiving system inoperative.

Feb 22 Tr 1910 New-on-air KBFI 33 Dallas TX (3535N235), stronger than KDTV 39.

Feb 24 Tr 2152 KUHI-16 Joplin MO (2345R310).

Feb 25 Tr 0618 KSLA-12 Shreveport LA (5544R395), K78AZ K8ØED K83AQ Matador TX (3554R100) KCBF-11 KVII 7 KLBK-13), 0714 KHFI-42 Austin TX (5545R360), KSAT 12 KLRN 9 San Antonio TX (3543R420), 1110 KETS 2 KARK 4 KATV 7 KTHV 11 Little Rock AR (3542NNRR 430), KPFW-40 Fort Smith AR (2035R295).

Feb 29 Tr 0800 K72BD K78AP K82AK Miami TX (2034R60) KGNC-4 KWTW 9 KFDA-10), K78BK K8ØBT K82BB Seiling OK (3433R80) KOCO-5 KWTW 9 WKY-4), KTWU 11 WIBW 13 KTSB 27 Topeka KS (5543NRR 340).

Feb 29 Tr 0540 KUHI-16 Joplin MO (2445R310, 1025 KCBJ 17 Jefferson City MO (4535N470), KMTC 27 Springfield MO (3423R400), KOAM 7 Pittsburg KS (4543R315).

Received many unId translators this month on chs 55-70, and hope new Factbook in March will list some of these. As I understand, new FCC rules have done away with channels 70-83, and translators on these channels must either move to the 55-70 band or go off the air. 5 new stations this month raise log total to 357. Setentaytres.

(I understand that UHF translators may be authorized for any channel, like VHF translators. Proposals have been discussed about turning over upper UHF TV channels to other services, but I have heard no final outcome. Anyone else know for sure? dps)

Bob Cooper, Jr., 2609 Chaucer Drive, Oklahoma City, Oklahoma 73120 (8Feb-7Mar) (CST)

Not your basic interesting month. Two stations added to totals. A couple of interesting (ie, off-season) Es sessions during the period, climbing up into FM.

Feb 12 Tr 1850-1930 signs of tropo ducting to NE on VHF.

Nothing Ided, but those further up the line may have had some luck.

Feb 20 Es 0745 tune-in, to NE. WMAR-2 MD, 0804 WSAZ-3 WV. Es faded by 0925. Signals unusually steady (little CSB) with very stable MUF.

Feb 24 Tr 0845 t/in, possibly a good early-morning session north/south, but I was tied up and noted only that KHNE-29 Hastings NE (345 mi) was in at tune-in. Front moved in and killed it by evening.

Mar 3 Es 1800 t/in, Es to NE with WMAR-2 MD, KYW-3 PA logged by 1830. At 1859 MUF peaked up into FM band and WFVI 6 PA was added. Es slowly faded out around 2035 with WMAR-2 last to go. Very stable signals, less than 6 db fade on KYW-3 for ten minutes at a time.

Mar 5 Es 1815 t/in, XEW-2 Mexico DF, in and out to 1913. Brief SS Es on ch 3 at 1845.

Mar 7 Es 1805, unusual opening (for this time of year) to south when I got home at this time. XEW-2 XEZ-3 quickly Ided. XEW had ch 2 tied up all opening but ch 3 had lots of possibilities. New "Pan American" network (originating Canal 8 Mexico City) now on the air with channel 3 PAN station in all evening, but no Id. Also had TG-VTV ch 3 Guatemala City (EE) briefly around 1900. 1945 until after 2010, ch 3 ETV (USA) from E/SE, probable WEDU FL. Heavy CCI on local ch 5, Ø & 10 kHz at one time. Nothing on 6 here. MUF well up into FM band with ALL Mexico City FM's logged to 106.5. MUF into DF and area from 1905 t/in until 2159; probably best FM opening to Mexico noted here. Es on TV still at it by 2245 when I quit; S/SW ch 2 probable XEWO.

Some new signals noted on air: KBFI 33 Dallas-Fort Worth began regular service 2-9. Format is mostly religion and their signal is slightly better on average than KDTV 39 Dallas. Programming very similar to 46 Atlanta GA and 27 Portsmouth VA. They were due on in early January and did some testing before they discovered 48 gallons(!) of water in the 9-3/8-inch coax! K34AA 100-watt translator now on in Salina KS, as is K32AA 100-watt job in Waterloo IA. 73.

Best of DX to all

Dennis