

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

JULY 1977

INSIDE:

- *Convention Schedule*
- *FM-SCA Installation*
- *Oprisko Makes History*
- *2-Hop, High-Band Es!*



Pre-Convention Issue

From The Staff:

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

OUR COVER... This month's edition of the Digest precedes two important conventions: WTFDA's own gathering in Portland on August 5, 6 and 7 (you'll find complete details on page 6 and a registration form in the center of this issue), plus the ANARC Convention in Schaumburg IL on July 15, 16 and 17, where your editor has been nominated (by the WTFDA HQ crew) for "DXer of the Year"! By the time you read this, ANARC's 1977 get-together will be history. Don't wait until WTFDA's first West Coast convention is part of our glorious past, too! Send in your registration form today!

TEST PATTERN GUIDE... This project has been shelved for the time being due to insufficient material to publish the book and a complete lack of response over the past few months. Even if all photos needed had been obtained, club costs in having all pictures "screened" before printing would have been too great. All TP photos submitted will be retained temporarily for use in solving UNIDs, and will eventually be returned. If you wish your pictures back immediately, please contact Clarke Ingram (address on back cover).

NEW PUBLICATION... If you'd like to exchange views on the programming of FM and TV stations outside North America, you might be interested in Review of International Broadcasting, published by WTFDAer Glenn Hauser (WUOT, U. of Tennessee, 232 C&E Building, Knoxville TN 37916). Samples of this new magazine are 50¢ or 5 IRCs. For more info, contact Glenn.



In our May note on club publicity, we accidentally credited "A Primer on TV DXing" as a new "book." In truth, it was an article by Thomas R. Sundstrom in Ham Radio Horizons (June issue). We also forgot to mention that "Window on the World" is published by the Woodfield International DX Club, ANARC convention hosts. Sorry!

NOTES OF NOTE... Due to favorable comments received here from many WTFDAers, Dave Janowiak's series on polarization will resume shortly...Our non-commercial STATION BREAK ads have already resumed; see page 15 for details.

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

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MAILBOX

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

New Members:

Thomas Adams
Donald Birch
Philip Boersma
John Boyle
Edward Cotton
Don Davis
Eric Fader
Jerry Franklin
Jim Gill
Robert Gonter
Robert Goodman
Warren Greenberg
William Higgs
Leonard Jozwiak
Paul Kalisz
George Kesteven
David Nelson
Cary Simpson
Mahlon Stilwell
John Walters
William Welch
David Williams
Jeff Wolf

Box 1165
4420 N. Newland Blvd.
15570 Cleveland St.
586 Parkway
4106 2nd St.
107 Oakdale
23-35 Bell Blvd.
Box 523
516 65th Ave. W.
Box 555
2030 Hering Ave.
145 Cottage Road
1715 Hollinwood Drive
5999 Yorkshire Ave.
2321 Powell Ave.
3524 Benton Drive N.W.
1507 Lamont Court
601 5th St.
646 Ridgely Ave.
RD 3, Acorn Drive
1532 Valley Road
Box 615, Hwy. 101
1131 University Blvd.
W., Apt. 701

Midland, MI 48640
Tucson, AZ 85705
Spring Lake, MI 49453
S. San Francisco, CA 94080
Chesapeake, VA 23324
Warner Robins, GA 31093
Bayside, NY 11360
Fremont, NE 68025
Bradenton, FL 33507
North Amherst, MA 01059
Bronx, NY 40461
Roxbury, MA 02132
Alexandria, VA 22307
Detroit, MI 48224
Bronx, NY 10462
Calgary, AB P2L 1W8
Chapel Hill, NC 27514
Tyrone, PA 16686
Annapolis, MD 21401
Vincentown, NJ 08088
Tallahassee, FL 32301
Astoria, OR 97103
Silver Spring, MD 20902

Renewals:

Richard Allen, Andy Bolin, Randall Clark, John Combs, David Cox, Bob Curole, William Eckberg, Les Goins, Harry Hayes, Rolland Lindblade, Andrew Mahoney, Joe Markewicz, Fred McCormack, Lowell McCown, John Phillips, Royal Randall, Allen Rockford, Mark Saran, Ken Simon, Ralph Strobel, Martin Theil, Mel Wilson.

Rejoin:

Sheldon J. Swartz-625 Wilmot, #4-West Palm Beach, FL 33405

Address Changes:

John Combs-2485 Ivan Ct.-Orlando, FL 32807
David Cox-2704C Briarberry Circle-Birmingham, AL 35226
Mark Saran-3826 N.E. 45th-Seattle, WA 98105
Dr. Richard Wood-Dept. of English-University of Puerto Rico-Rio Piedras, PR 00931
Mike Worst-5604 224th St. S.W.-Mountlake Terrace, WA 98043

Renewals Due in August:

Alex Berman, Ludo Bertsch, Charles Boehnke, Robert Colyard, Roosevelt Crawford, Leo Duffy, John Dyer, Al Ellis, Richard C. Evans, Doug Everitt, Paul Gaines, Arthur Hamlyn, Harry Hann, Jack Hathaway, J. Mallinson, Tony Martin, Gil Morgan, John Parillo, M. Pawlukiewicz, Robert Pegg, Paul Petosky, Mike Piesko, Don Ruland, Cyril Schauer, John Seay, R.W. Strong, Roy Tucker, Don Voegelé, Paul Wardell, Jim White, Bruce Winkelman, Steven Wiseblood.

From the southwest comes 37 year old new member DONALD BIRCH, who's a communications engineer. Don's present DX interests include SWL and ham. He's also a member of NASWA and ARRL.

It's with great personal pleasure that I introduce an old BCB friend, PHILIP BOERSMA. According to Phil: "I am not very knowledgeable about FM/TV DX, but I hope I can learn. Currently, I am mainly involved in AM DX, and am a member of IRCA and NRC." I've had the chance to visit Phil in Spring Lake, and I can attest that it's a great DX area.

Also joining us from the BCB ranks this month (as are many others) is JOHN BOYLE. He's a member of IRCA and NRC, and his DX gear includes a Zenith Trans-Oceanic and two Realistic products, the DX-160 communications receiver and the AM TRF (a super receiver for only \$30).

New member EDWARD COTTON heard about WTFDA in Communications World. Edward DXs with an RCA 19" TV, a Panasonic portable, and a Stromburg-Carlson console. He's also a member of NRC.

Fadz, also known by his proper name of ERIC FADER, is an 18 year old college student. He's primarily interested in BCB and FM, is a member of NRC, and uses a Concord CR-260 receiver with an indoor antenna.

Cornhusker JERRY FRANKLIN is a 30 year old mechanic. Jerry tells us that NRC is his other DX club affiliation.

Popular Electronics helped us bring JIM GILL into the club. Jim's DX shack features a Sony Trinitron 19" TV, a Bearcat 101 scanner, a Claricon quad stereo, and a Chromestar CH-8100 antenna with a 25db preamp on a 50' tower. He's primarily interested in TV, FM, and PSB DX.

ROBERT GONTER says that his present DX interest is propagation at 11.8 MHz. He's also a member of NRC and NASWA.

Looks like new member WARREN GREENBERG is into V/U radio DX, as he's the proud owner of a Bearcat IV and a Fannon Hi/Lo receiver. He also uses a Lafayette HA-600A receiver and several portable units. In addition to WTFDA, Warren claims membership in NRC, IRCA, and ANDEX.

WTFDA distribution manager Mike Hogan will be glad to hear that we have another psychologist in the club. He's 39 year old WILLIAM HIGGS, who also belongs to NRC and IRCA. DX gear at William's place includes a Sony STR 7065, a Collins R390A, a Hammarlund HQ180A, and a Nordmende Globe-traveler. Mike, incidentally, is working on a master's degree in psych.

PAUL KALISZ works for the organization everyone loves to hate, the U.S. Post Office. He's a member of NRC and DXs on a Grundig TR 2000.

BCB and SW are among the DX interests of GEORGE KESTEVEN. He's a 19 year old student who also belongs to IRCA. George, by the way, is related to former IRCA president Percy Kesteven.

Tarheel state member DAVID NELSON is doing what I'd love to do- live in a college town. David pursues FM DX with a Marantz 2010. He's also a member of the International Radio Club of America.

Interested in a career in broadcasting? CARY SIMPSON can tell you what it's all about, 'cause he's a radio station operator. Cary owns a Hammarlund HQ150 receiver, as well as receivers by Zenith, Heath, and Hallicrafters. He claims membership in both BCB DX clubs.

Maryland's capital sends us MAHLON STILWELL, a consultant and retired math professor. He's a BCB and SW DXer who also belongs to NNRC and NRC.

What's the largest city in New Jersey (area wise)? Vineland! What does that have to do with new member JOHN WALTERS? Not much, except for the fact that he's from NJ. He's 33 years old and interested in utility, long-wave, and amateur radio. John's DX equipment includes a Galaxy R-1530 rx and a Realistic PRO-3 scanner (love to see people with Radio Shack gear.... of course, I work for RS, hi). John belongs to SPEEDX, NASWA, ASWLC, NRC, and LWCA.

WILLIAM WELCH is a computer systems analyst whose DX interests cover BCB and SW, as well as FM/TV. He uses a Zenith portable and belongs to IRCA, ASWLC, and NASWA.

Need a job? See DAVID WILLIAMS, 'cause he's an employment interviewer. 4 other clubs claim David as a member- NASWA, NNRC, IRCA, and NRC.

Our last, but certainly not least, new member is JEFF WOLF. He found out about this top-notch club in Communications Handbook.

Tidbits.....

Hopefully, some of you folks can help out David Nordmann (6612 Villa Ave., St. Louis, MO 63139) and encourage him to join the club. He writes: I live in a large metropolitan area and have trouble with local TV interference. I read in Beyond Shortwave, etc., that there is a way to eliminate this interference. I was wondering if one of your technical advisors could tell me what to do to combat this problem. I do have a rotor, but could you also advise me as to which antenna (VHF specifically) to buy. I have a Winegard model CH-7078 which is OK on local stations and some DX. I know this area is good DX territory because I have a friend in Oakville, Illinois, about 50 miles east of St. Louis, and I watched his TV and picked up a station on every channel. Very frustrating trying to DX and I know that the stations are out there. I have a wave trap and use 75 ohm cable, but I guess those darn locals are really killing me! Also, I have not had any success sharing my DX hobby with anyone nor have I heard of any DX clubs here in St. Louis." How about a little help, especially from you folks near the Gateway City?

PSB DXing is Mark Saran's bag. He writes: "Most of my listening is done on a Bearcat 210. I have one of the most up-to-date frequency lists for the Northwest area, and would be delighted to help anyone looking for a particular frequency." Mark's address is 3626 N.E. 45th, Seattle, WA 98105.

Recent new member Kenneth Van Tassell writes to tell us that he'll be off to college in the fall. He heard about the club from the FM Atlas. Ken is 18 years old and contributes to the Swaps Newsletter. He doesn't list brand names, but says that his DX equipment includes an FM tuner, a preamp, and an antenna and rotor.

Mal Wessot has such a deal for you, and a word of explanation: "Some companies make an RG-6 solid poly core-flooded PE Jacket Cable. It is intended for burial. I use it for antenna to preamp runs. It is flexible but extremely difficult to put connectors on. A word of explanation: some members told me my .412 prices were too high. There was a reason. The .412 I was quoting at 75¢ a foot .412 parameter I flooded with amorphous polyprop-Exheavy Jacket Cable. I use parameter I gas injected dielectric because II breaks down over the years. I quoted \$7.50 an installed .412-F female connector because I was going to use integral mandrel center squeeze connector with GE661 compound and TCS13 waterproof heat shrink sleeves. The flooded RG-6 PE is 15¢ a foot, \$12 a hundred feet, a hundred dollars a thousand feet. Hex crimp heavy wall RG-6 connectors installed on flooded RG-6 PE \$1 each. All material and postage COD by mail or UPS cash only." Mal's address is 51 Austerlitz St., Chatham, NY 12037. Sounds good, whatever he said, hi.

Speaking of deals, here's another one- Italian DXer Dario Monferini is offering a poster featuring a complete listing of all private FM stations in Italy. It's available from Dario for 7 IRCs by writing to him at Via Davanzati 8, 20158 Milano, ITALY. I've seen the list and believe me, it's worth far more than 7 IRCs.

Member Dick Clark has moved way south of the border, all the way to the Dominican Republic. He files this report: "I must say it is sure strange not having ABC, CBS, and NBC stations to watch anymore. Stations here are very local in most of their programs. Right now I am building a house on top of a mountain for good DX. My antennas are only 35' at this house, but when I have my new house it will be up 2,000' higher!!!"

Randall Clark may have discovered a new form of DXing! He writes, "I may be the first person ever to try and attempt QSLing a "remote broadcasting pickup feeder" station! Verification of KW8657/161.67 MHz confirmed on 2/22/77, received 2/16/77, with a copy of the complete letter sent to our QSL column editor. I have attempted to QSL two other "remotes" but with no response yet. By the way, the remotes are on the following frequencies: 161.64, 161.67, 161.70, 161.73, 161.76, and 166.25, with the powers of 36-40 watts. As I've said before, they are "very" interesting!"

This in from DU member Terry Robinson (Lot 92, Russell Ave.-Woodend, Victoria, Australia): "I am now settled into a house at Woodend and as you can see from the address above we now have a mail delivery; however, mail addressed C/O Post Office, Woodend, will still reach me. Conditions for FM and TV DX are not so good here as I originally thought. The fact that there is a large mountain less than half a kilometre away doesn't help. In the April VUD I see on page three a discussion on UHF preamps. Wonder how my \$100 VHF preamp would match up. I got a copy of the latest WRTH and was interested to see the FM listings for Australia. Considering the accuracy of other listings in the book, I doubt if the Australian FM listings are accurate. Regarding the Radio Nederland 'Communications Systems Course', I have now completed this course (thanks to the promptness of Radio Nederland) and I doubt if it is worth much value to the experienced DXer. All the subjects are quite elementary and an experienced DXer would know most of the material contained in these lessons from his own observations."

Recently rejoined member Michael Dunn writes to tell us that FM is his primary DX interest. His DX gear includes an Akai AT580 tuner and a Delhi 10 element yagi @ 75' high on a 70' tower, using 300 ohm twinlead wire. He has been DXing seriously since 1971, hearing four countries (Canada, US, Bermuda, and the Bahamas) and verifying them all.

Richard Steinberger has this to say: "We had a very frustrating time buying a new tuner last December-January. Because of the UPS strike, some models were in short supply. Could only compare two on my list of seven. Ended up with a Kenwood KT-8300, dual IF bandwidth, 110db alternate channel. Seems very good so far, receive 90+ stations regularly - bad for DX!"

And finally, Bob Walker has these words of wisdom: "Congrats to you and the rest of the crew for the fine job on VUD. It really shows that a lot of time is put in on the bulletin. I'm very impressed!!" Bob is an active aircheck collector, and would like to hear from any club member interested in swapping airchecks.

That's it! The largest Mailbox ever! Keep those cards, letters, phone calls, and new members coming! See y'all in August.....jz

SPEND YOUR SUMMER IN PORTLAND

WTFDA convention 1977

AUG. 5-6-7

For the first time in the history of WTFDA the annual convention is being held on the west coast. Portland Oregon will be the site of the 1977 WTFDA convention. Convention hosts Pat Martin, Bill Block, Frank Aden, Jr., Paul Wardell and his brother Dave have planned an exciting program with something for everyone.

Early Friday morning the meeting room will open for informal gab sessions. Here is the chance to meet new and old friends. Friday afternoon we will have tours of television stations KATU channel 2 and KGW channel 8. Friday night activities will consist of more gab sessions and talks on TV-FM DXing for those new to the hobby. Here is the time to play DX tapes and watch DX films. An auction is also planned Friday night.

Saturday morning the meeting room will open at 9 am and at 10 am a bus will leave for Oregon's highest peak, Mt. Hood. You can lunch at Timberline Lodge and do some DXing so bring your equipment. DX equipment will be available at the 6000ft site. At 3 pm the bus will return to the hotel. At 5 pm Frank Aden, Jr. will speak on identifying those DX catches. We hope to have a guest speaker at 6 pm but as of the time of writing none of the proposed speakers had confirmed their attendance. The traditional banquet will be at 6:30 pm and during dinner or after door prizes will be given. We plan to have a prize for everyone! At 8 pm an open discussion on the association's future will be held. Here is your chance to make suggestions for the association's improvement. 9 pm will bring Dr. Bruce Elving who will discuss SCA FM DXing. He plans to bring some equipment and will give demonstrations on how to hook SCA adapters up to your FM receiver. Some SCA adapters will be for sale. After Dr. Elving's presentation the meeting room will be open for more gab sessions.

Sunday at 9 am the meeting room will open and at 11 we will leave for Portland's Mt. Tabor park. Mt. Tabor is an extinct volcano and it is still possible to see part of the cone. We will have a picnic here and the TV DXers can challenge the FM DXers to a ball game. Mt. Tabor is also an excellent DX location so you might bring your equipment. At 2:30 we will return to the hotel. At 3 pm convention officially closes but meeting room will be open until 6 pm for those who plan to leave later.

Free literature such as equipment catalogues, coverage maps, bumper stickers and etc. will be available throughout the convention. Club supplies such as the WTFDA TV STATION GUIDE will be for sale. Here is also the chance to sell that piece of no longer needed equipment.

If you have been to a WTFDA convention you know how enjoyable they can be. This is the big chance to meet those DXers you always read about but have never met. Many consider the informal gab sessions the highlight of the convention. You can ask questions about those DX techniques that have been puzzling you and what equipment you should and should not buy.

The convention will be held at the Flamingo Motel, a modern motel convenient to I-80, I-5 and Portland International. Transportation will be provided from Portland International and downtown Portland. Downtown Portland is 6 miles to the west and can also be reached by Trimet, one of the most modern transit systems in the country. The famous Lloyd Center, six miles to the west can be reached from downtown Portland by Trimet.

Room rates are as follows: 17.50 single, 21.50 double and 23.50 triple.

Pool, bar, restaurant and color TV will be available at the Flamingo. If you wish to share a room with a fellow DXer to lessen the cost contact Pat Martin address below.

Here is a chance to combine a family vacation with a DX convention. Sites to see in Portland are the Portland Zoo, Sanctuary of Our Sorrowful Mother (only a few blocks away from motel), historical Ft. Vancouver and the Oregon Museum of Science and Industry. The Pacific Ocean is only 75 miles to the west, take a look at the rugged Oregon coast. The Cascade Mountains are 50 miles to the east. The state capital is 50 miles to the south in Salem on I-5.

The Flamingo Motel is located at 9727 NE Sandy Blvd. Reservations should be made through Pat Martin and not through motel.

For those wishing the special reduced air fares you must make reservations through Pat Martin. The fares apply to all major airports.

Those planning to come by bus it might be possible to obtain cheaper fares by having them bought in Oregon (no state tax on bus tickets). Write Frank Aden, Jr. for details. Bus scheduling can also be arranged.

The convention registration fee covers banquet, trip to Mt. Hood, meeting room, picnic and refreshments. Fee is \$20. Reductions are possible for those not wishing banquet and or trip to Mt. Hood.

Please send your reservations to Pat Martin no later than the 31st of July. Registration fee can be paid at convention.

To register and for additional information write, WFDFA Convention, c/o Pat Martin, Post Office Box 14192, Portland OR 97214. Phone (503) 224-0614.

Information may also be obtained from Bill Block, 133 SE 31st, Portland OR 97214. Phone (503) 234-1809 or from Frank Aden, Jr., 1535 NW Ithaca Ave., Bend OR 97701. Phone (503) 389-5488. No collect calls please. Please include an SASE with your reservation.



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From the east exit at NE 102 and head north to NE Sandy Blvd then turn left.

From north and south exit from I-5 to I-80 and then take I-80 to NE 102 and then head north to NE Sandy then turn left.

Portland
OREGON

26 KOIN-TV
KATU Portland

KGW-TV 8

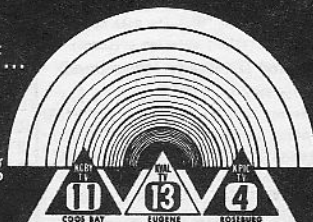
kezi-tv **9**

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more people
are watching
us each day

than any other stations in Western
Oregon... join us for the best in
family entertainment... news...
and NBC specials.





FM NEWS

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

New Stations Granted

AL Birmingham *91.1 10 Jefferson Jr. Coll./ in different part of Birmingham as WVSU, also on 91.1?

AZ Douglas 95.3 3000 (h); 45' 5 miles primary; 22 miles secondary coverage

AR Lake Village 95.9 3000 h,v; 300'; g

AR Salem 95.9 2500 h,v; 325'; k; 15, 46 mi CA Pacific Grove *90.3 10 watts [TV

CT Middlefield *90.5 2500 578' Educational

FL Clewiston 106.3 3000 h,v; 165'; 11, 38 mi FL Port St. Joe 93.5 1850 h,v; 160'; m

FL West Palm Beach W272AB 102.34, c (WTM) 93.1 Miami translator, 1 watt

ID Boise 105.1 43000 h,v; 2574'; 90, 171 km

IA Ankeny 106.3 3000 h,v; 300'; m; owned by Paul Lund, former KLFM 104.1 Ames owner

LA Bastrop 100.1 3000 h,v; 180'; m

MA Marshfield 95.9 3000 h,v; 245'; m

MI Flint 92.7 3000 h,v; 300'; sj: initial decision, subject to reversal.

MO Mansfield 95.9 3000 h,v; 205'; k

MO Montgomery City 103.9 3000 h,v; 241'; kr

MT Libby K265AI 104.9 \$ m (KYSS-FM 94.9 Missoula MT translator, 1, 10 watts

MT Livingston 97.7 3000 h,v; -245'; n

MT Shelby 96.3 29000 h,v; 570'

NE Alliance 92.1 3000 h,v; 300'; m

NC High Point *90.3 10 High Point College

NC Shallotte 93.5 3000 h,v; 300'; k

OR Gresham *88.5 7500 h,v; 880'. Mt. Hood Community College; 45, 106 km coverages.

PA Girard *88.3 10 Bd. of Education

PA State College *89.9 5000 h,v; 670'; g

TX Copperas Cove 103.1 3000 h,v; 300'; k

TX Stanford 92.1 3000 h,v; 175'; 12, 39 mi

UT Price KARB 98.3 3000 h,v; -144'; k

UT Myton and Duchesne K288AD 105.5 \$, m ON AIR: mentioned over air on KALL-FM 94.1 Salt Lake City in recital of their translators.

VA Luray 106.3 3000 h,v; 43'; 5, 20 mi; m

NS Halifax 90.5 100000 directional; non-8; probably nonidentifying CBH (AM) repeater

Deletion

CT New Haven W213AA *90.5 (to make room for Middlefield station; deletion presumed)

On Air and DX Ready (Presumed)

CA Paradise KNVR 96.7 3000 h,v; 285'; \$, r

CA St. Helena KYVN 99.3 3000 h,v; 235' [1800

CO Steamboat Springs KBCR-FM 96.7 70 h,v; /

FL Jacksonville WJEE 107.3 100000 h,v; 300'; 10 Boise KESU *90.1 10

IL Geneseo WRSD-FM *104.9 3000 h,v; 300'; \$,

IL Pana WKKX 100.9 3000 h,v; 290'; \$, m

IN Goshen WZOW 97.7 3000 h,v; 145'; \$, m

IA Clarinda KSMI 106.3 3000 h,v; 300'; \$

KS Great Bend KVGB-FM 104.3 96000 h,v; 810'; m

KS Iola K10L 99.3 3000 h,v; 300'

LA Leesville KVVP 105.5 3000 h,v; 300'

MT Missoula KDXIT-FM *93.3 45000 h,v; 2480'

NY Glens Falls WGFs *91.9 10

NC Salisbury WNDL-FM *91.1 10

OR Brookings KJRY-FM 95.3 3000 h,v; -206'

IA Cherokee KCHE-FM on 102.3 3000h/mo. mono.

SC Lake City WGGF 100.1 3000 h,v; 196'

TX Lanessa K001 104.7 100000 h,v; 225'

WA Walla Walla KEXI 93.3 26000 h, 12000v -130'

WY Rock Springs KQSN-FM *96.5 98800 h,v; \$; heard with SCA carrier, but does not warrant being listed as an SCA station. (1620')

On Air with Changes (Selected)

IL Mount Carmel WJVC-FM *89.1 50000 h,v; 330'; \$, r

MI Detroit WABX 99.5 6500 h,v; 870'

MS Jackson WKXI 94.7 66000 h,v; 430'

OR Eugene KSND 93.1 26000 h,v; 850'

OR Portland KJIB 99.5 100000 h,v, (870')

RI Providence WBRU 95.5 46000 h,v, directional; 440'. Still ten watts:

SC Columbia WUSC-FM *91.9 (from 89.9)

TN Greenville WOFM 94.9 100000 h,v; 320'

TN Memphis WSMW *91.7 98 h,v; 160'

TX Kingsville KTAI *91.9 (from 91.9); 10w

TX Tyler KTYL 93.1 100000 h,v; 470'

Here's a change that may not materialize: TX Abilene KFMM from 99.3 to 107.9. Permit for 107.9 expired, but I expect it will be reinstated eventually.

Facilities' Changes Granted

AL Florence WQLT 107.3 700' (100000 h,v)

AL Troy WTSU *90.1 has v (mo music)

AZ Tucson KAIR-FM 94.9 190' (25000 h,v)

AR Magnolia KFMY 107.9 50000 (h); 360'

CA Carlsbad KKOS 95.9 300' (3000 h,v)

CA Los Banos KLSB-FM 95.9 3000 h,v; 120'

CA Merced KAMB 101.5 400' (50000 h,v)

CA Modesto KHOP 104.1 50000 h,v; 500', transmitter near Tracy CA

CA Monte Rio KRJB 97.7 450 h,v; 780'

CA Patterson KOSO 93.1 1550 h,v; 1790'

CA Santa Barbara KTMS-FM 97.5 16000 h,v, 2900'

CA Turlock KMXH 98.3 1600 h,v; 390'

CO Fort Collins KTCL 93.3 100000 h,v; 1330'

FL Fort Pierce WLQY 98.7 100000 h (340')

FL Leesburg WHLY 106.7 100000 h,v; 800', transmitter to Winter Garden FL, near Orlando. FCC overruled objecting FM stations in Orlando, yet stalls in letting

WJAI 92.9 Eaton OH increase its power because of fear of hurting Dayton FMs!

FL Miami WDNA *88.9 2300 h,v; 710'

FL Panama City WKGC *90.7 adds v(ertical)

IL Loves Park WLUV-FM 96.7 235' (3000h,v)

IN Indianapolis WAJC *104.5 38000h,v; 340'

IN Michigan City WMCB 95.9 3000 h,v; 230'

IA Mason City KLSL 106.1 54000 h,v; 320'

KS Wichita KEYN 103.7 100000 h,v; 930'

KY Versailles WJMM from 100.9 to 106.3

LA New Orleans WYLD-FM 98.5 100000 h,v, 360'; LA Lake Charles KLCL-FM 99.5 has v

MA Boston WGBH *89.7 98000 h,v (650')

MI Berrien Springs WAUS from 90.9 to *90.7 48000 h,v; 320'; 27, 67 miles

MI Ironwood WIMI 99.7 100000 h,v (560')

MI Interlochen WIAA *88.3 adds v

MN Minneapolis WAYL-FM 93.7 820' (100000h,v)

MS Clarksdale WJBI 101.7 185' (3000 h,v)

MS Jackson WJMI 99.7 98000 h,v; 1060'

MO Buffalo KBEF *90.3 4300 h,v (245')

NE Beatrice KWBE-FM 92.9 97000 h,v; 310'

NE Omaha KQW-HF 94.1 adds v



DOVER, NEW HAMPSHIRE

50,000Watts E.R.P.
97.5 MHz on the FM Dial

NH Dover WDNH 97.5 has v(ertical)

NJ Glassboro WGLS *89.7 440 (h); 82'

NY Albany WANC *90.3 10000 h,v; 1920'

NY Buffalo WNEC-FM *94.5 has v

NY Hamilton WRUC *90.1 has v [(810)']

NC Chapel Hill WUNC *91.5 100000 h,v; /

NC Davidson WDAV from 90.5 to *89.9, 18500 h,v; 300'; 22, 58 miles

NC Gastonia WNCN-FM 101.9 33000 (890')

NC New Bern WRBK 101.9 580' (100 km h,v)

NC Winston-Salem WKZL 107.5 100000h,v; 500'. Of Corvallis KBVR *90.1 adds v

OR La Grande KMTN 98.3 1300 h,v; -420'

OH Cincinnati WVKX *91.7 adds v

OH Cleveland WOHM 105.7 900' (27000 h,v)

OH Dayton WTUE 104.7 500' (50000 h,v)

PA Freeland WACM 103.1 450 h,v; 680'

PA Reading WRFY 102.5 15000 h,v; 810';



music...
JUST FOR THE TWO OF US

WRFY
FM STEREO 102

PERKOWEN AVENUE, READING, PENNSYLVANIA 19606

WRFY thus reduces coverage to 31, 70 mi.

SC Orangeburg WPJS 106.7 100000 h,v; 580'

TN Sevierville WSEV-FM 102.1 100000 h,v; 1090' 46, 92 miles

TX Floresville KWCB 94.3 94' (3000 h,v)

TX Odessa KOCV *91.3 5000 h,v; 255'

UT Salt Lake City KWHO-FM 93.3 30000 h,v; (3660'); 58, 110 miles. KALL-FM 94.1 to 4000 h,v (3060'), 94, 175 kilometers.

KSOP-FM 104.3 25000 h,v (3630')

WI Kenosha WGTD *91.1 has v; adds SCA with instructional programs and talk

WI Mauston WRJC-FM 92.1 1800 h,v (390')

WI Whitewater WWSU *91.7 1300 h,v (165')

WI River Falls WRFW *88.7. FCC lists as having vertical, but I doubt it.

WY Riverton KWCB *88.1 3000 h,v; 145'

PR Isabela WKSA 101.5 42000 h,v; -26'

Formats/Networks

CA Fresno KYMO-FM 95.5 r (not kr) no Dolby

KFIG 101.1 keeps A

KFRY 101.9 m (not r)

FCC-FM

CA Marysville KRFD 99.9; no \$; has been without stereo over a year.
 CA Sacramento KNOD 106.5 rj (not just r)
 CT Hartford WVIC-FM 96.5 r
 DE Milford WAFL 97.7 S (AP Audio)
 FL Arcadia WKOD k
 FL Pensacola WAJB 107.3 r
 GA Atlanta WKLS 96.1 r (from p); adds SCA
 GA Buford WGOO 102.3 gk (from c); no Y
 GA Glennville WKIG-FM 106.3 r or rg
 GA Rockmart WZOT still ABC-FM
 GA Savannah WJCL-FM 96.5 l
 KY Frankfort WKYW 104.9 Mutuzl
 KY Henderson WHKC 103.1 is A; answering the mystery in the May column about the "M" station with those calls; serves Evansville IN.
 LA Lake Providence KFED 92.7 r (mono)
 LA Ruston KXKZ 107.5 (having moved from 107.1, now with 100 kw h.v.; 500') k (not r); music on its 67 kHz SCA. Stereo.
 LA Shreveport KEPT 96.5 g (not r); A on SCA
 MI Detroit WCAR-FM 92.3 r (from rm), but not "Disco." More r than s!
 NE Seward KSRD 96.9 r (not m)
 NY Monticello WSUL 98.3 r; \$
 OH Cleveland WZAK 93.1 r (from ethnic)
 OH Youngstown WOOD 93.3 r (from m)
 SD Watertown K1XX 96.1 r (from km); non-id as "Kix-96."
 TN Nashville WSM-FM 95.5 r (from r)
 WLAC-FM 105.9 m (from m); no SCA heard; drop listing as an SCA station
 TX Alice KOPY-FM 92.1 r (not Spanish, Latin)
 TX Austin KOKE-FM 95.5 r (was progressive k)
 TX Dallas KRSM *88.5 rjs, no \$ (10 watts)

88.5
 krsm • dallas

TX Harlingen KMBS 96.1 Spanish, r
 TX Kingsville KPUP 97.7 r (not m)
 TX Paris KACW 99.3 r (not m)
 TX San Antonio WQAI-FM 97.3 m (not r)
 TX San Marcos KCSW 103.7 A ("mystery" in May VUD solved--it's in San Marcos!) Music now m, instead of p.
 UT Panquitch K244AD 96.7, broadcasts KALL-FM 94.1 Salt Lake City UT, instead of KSL-FM 100.3 Salt Lake City (the former KALL-FM rebroadcaster in Panquitch K224AH 92.7 is deleted).

Non-IDers (selected)

93.7 CA Fresno KFYE FM-94
 93.9 FL Miami Beach WWL Love 94 (r from m)
 94.1 GA Smyrna WQXI-FM 94-0
 95.5 FL Fort Pierce WCVY 0-95
 96.9 SA Regina CBK-FM "CBC-FM Regina"
 97.1 GA Gainesville WFOX Fox 97 (has mysterious talking SCA)
 97.5 NJ Trenton WPST Music 97 (but uses calls at times other than on the hour)
 98.9 MD Baltimore W1YY 98-Rock
 99.7 CA Porterville K100 K-100
 100.1 FL Port Charlotte Stereo 100
 103.9 PA Mercer-Sharon WW1Z 10-4 (from CB craze)
 106.7 GA Gainesville WWID 106.7 Wide 107

VA Charlottesville WWVW 97.5 r (was n); \$
 VA Fredericksburg WFLS-FM 93.3 k (from m) and Stereo added. [remove SCA listing]
 VA Hampton WVHR 101.3 A1 (no SCA heard; /
 VA Newport News WGH-FM 97.3 S Audio; SCA has music; classical on main.
 WI Marinette WLST 95.1 r; music SCA
 WY Cheyenne KFBC-FM 97.9 n (from m); still mono; heard splitting FM from AM, with a "beautiful music" FM format.
 WY Sheridan KRCE-FM 94.9 r (not n); CBS, uses "FM-94" with its call letters.
 PG Montreal CJFM 95.9 is English

SCA (67 kHz [mainly]) Activities

CA Chico KCHO *91.1 talking book
 CA Salinas KWYT-FM 100.7 has SCA
 CO Denver KAZY 106.7 no SCA heard; remove listing as an SCA station
 DC Washington WAMU *88.5 no SCA heard; " WGAY-FM 99.5 " " " "
 FL Milton WXBM 102.7 " " " "
 FL Pensacola WMEZ 94.1 music " " " "
 WBOB-FM 101.5 no " " "
 GA Atlanta WREK *91.1 delete SCA [main
 GA Columbus WRBL 102.9 adds SCA; m on /
 IL Rock Island WVIK *91.1 adds Muzak
 LA Crowley KH0 102.9 adds SCA
 LA Lafayette KTDY 99.9 Muzak [remove
 LA Lake Charles KSNS 96.1 no SCA heard; KSNS claims to use their SCA "monitor" daylines only!



LA Monroe KNDE-FM 101.9 ABC networks
 LA Shreveport KRMD-FM 101.1 open SCA carrier only; delete listing as an SCA
 MD Baltimore WBLC *91.5 adds SCA
 WKAR-FM 106.5 Muzak
 MA Lynn WLYN 101.7 adds SCA
 MD New Bedford WMY5 98.1 no SCA heard; drop SCA listing. Ditto for the next 5:
 MS Biloxi WQID 93.7
 NJ Paterson WPAT-FM 93.1
 NJ Trenton WPST 97.5
 WJRH 101.5
 NM Albuquerque KRST 92.3, but KOB-FM 93.3 has music
 NY New York WNYE *91.5 and WNYC-FM *93.9 do not have active SCAs, either.
 NC Lexington WCLN 94.1 music
 OK Poteau KLCU-FM 97.9 music
 PA Lancaster WQAD 94.5 no SCA heard; drop.
 PA Somerset WVSC-FM 97.7 adds SCA
 TN Murfreesboro WMDT *89.5 talking book

Call Letters. Continued:
 WV Wheeling 98.7 WCP1 (WWVA-FM); transmitter to Ridgeport OH; 32000 h.v.; 50' WY Evanston 105.5 K286A1 (K288AA)
 PR Homicuceros 92.1 WGIT (WROZ)
 ON Toronto 99.1 CKKD-FM-2 (the whereabouts of a CKKO-FM-1 not known)
 PG Junciguere 92.5 CHOC-FM"
 Patronize WFDA's reprint service!

(same as or WPLN *90.3 Nashville)
 TN Nashville WMEZ 92.9 no SCA heard; drop WKDF 103.3 " " " "
 TX Dallas KAFM 92.5 ABC networks
 TX Austin KASE 100.7 music
 TX Dallas WRA-FM 101.1 no SCA heard; drop
 TX Houston KRLY 93.7 " " " "
 KLEF 94.5 " " " "
 TX Port Arthur KYKR-FM 93.3 music
 TX Tyler KNUE 101.5 Muzak
 TX Waco KH00 99.9 music
 UT Salt Lake City KCPX-FM 98.7 bird chirping telemetry (code as "X")
 VA Norfolk WTRM *89.5 no SCA heard; drop
 VA Norfolk WQW1 102.9 open carrier only; remove as a listed SCA station
 VA Richmond WR9G 94.5 no SCA heard on one occasion, but weak background music heard on a second occasion; however not certain it was WPVG coming in the second time.
 VA Richmond WTVR-FM 98.1 music
 VA Roanoke WRFZ 92.3 music
 VA Winchester WRLG 92.5 music
 WV Parkersburg WQAQ 103.1 music
 PR Cidra-Caguas WBRQ 97.7 and PR Vieques LIND WZVS 98.9 both add SCA on 41 and 67 kHz, which probably means both stations are not stereo.

Dual-City Identifications

TX Sinton KOUL 103.3 to Sinton-Corpus Christi instead of Sinton-Portland TX.

Call Letters Assigned

AK Petersburg *100.9 KF5K	CA Eureka 92.3
CA Davis 105.5 KYLO	KXPJ
CA El Centro *88.1 KCCG	CA Gainesville
CA Fallbrook 107.1 KAVO	*89.1 WBCX
CA Oroville 97.7 KFAM	
CT Brookfield-Danbury 95.1 WRK1 (WINE-FM), still un-ID's as "1-95."	GA Springfield
FL Orlando *89.9 WFTU-FM	103.9 WGEZ
FL Tampa 94.9 WYWF (WLCY-FM)	
HI Honolulu 93.9 KHUI (KEKI); not on air	
IL Morris 104.7 WCSJ-FM (WRM1-FM)	TX Painesville 90.7 KPFLN
KS Oberlin 101.1 KFNF (KSNF)	TX San Antonio 97.9 WJLA
KS Topeka 100.3 KDVV (KTOP-FM)	TX San Antonio 97.9 WJLA
KY Jamestown 104.9 WJRS (WJRS-FM)	Antonia 104.5 WJLA
LA Monroe 104.1 WNEZ (KXLB-FM)	104.5 WJLA
ME Bangor *90.9 WNEH (WNEH-FM)	104.5 WJLA
ME Presque Isle 106.1 WNEH (WNEH-FM)	KITE 104.5 WJLA
MD Hagerstown 104.7 WNMW (WJLJ-FM)	104.5 WJLA
MA Pittsfield 95.9 WUPE-FM (WGRG-FM)	(KXEL)
MA Worcester *89.1 WCHC	m (was
MI Farmington Hills *90.3 WORB	1p)
MN Princeton 106.3 WQPM-FM (WQPM)	
MS Batesville 95.9 WBLE-FM	UT Brigham City
MS Gulfport 96.7 WGUJ-FM	105.5 K286AA
NE Crookston 96.1 KINI	(from K288AA)
OH Gallipolis 101.5 WYPC (WJEH-FM)	WA Walla Walla
OH Jefferson (Village) *86.9 WLMS	Walla Walla
OH West Carrollton *86.1 WQRP	97.1
OK Bethany 104.9 KJIL (KGOY)	KSXT
OR Lake Oswego 106.7 KMJK (KQIV) to 94000 h.v.; 880'; 43, 89 miles' coverage!	WA Yakima
OR Portland 101.1 KYTE-FM (KOHM-FM)	1ma
SC Honea Path 103.1 WR1X	198.3
SD Rapid City 93.9 KKFJ (KKLS-FM)	KYBO
SD Sturgis 93.1 KRCS (KXBB-FM), plus transmitter in ND, SD now carryin' KRCS.	
TX Clear Lake City 102.1 KMJQ (KLYX)	
TX Orange 106.1 K10C (K10F)	

Stereo, to go \$, or \$ Resumed

AR Osceola KHFO 98.1
 CA Fresno KVPR '89.3; P
 CA Mariposa KUBB 96.3, km
 CO Vail KVMT 104.7

NY New Rochelle
 WRTN 93.5

SC Honea Path 103.1, rk
 TX Amarillo KWAS 101.9
 TX Austin KMXX 102.3; Spanish; L
 TX Fort Worth KESS 93.9; no SCA heard
 UT Cedar City KSUB-FM 92.5, k
 VA Blacksburg WUVT '90.7, jr
 VA Fredericksburg WFVA-FM 101.5
 VA Kilmarnock WKWI 101.7; n
 WI Appleton WCKR-FM '105.7, now
 separate k from AM affiliate
 WY Riverton KTAK 93.5; on 6 am-11 pm
 Also adding \$:
 CA Hanford KIOY 103.7 r [stereo 108]
 KKYS 107.5, nr (K-Kiss, /
 Report skip receptions to club editors

New transmitters installed; any of these
 now broadcasting in stereo?
 MI Saginaw WWWS 107.1 I NE Norfolk
 MS Winona WONA-FM 96.7 WJAG-FM 106.7

WSOJ-FM RADIO

P.O. Box 1038
 Jesup, Georgia 31545

GA Jesup WSOJ 98.3, g (not nc), UPI Audio
 IL Pana WKXX 100.9, m
 IN Angola WLKI 100.1 m
 IN Batesville WRB1 103.9, nr
 MN Mankato KYSM-FM 103.5
 MS Brandon WRJH 97.7; g
 SC Aiken WLOW-FM 95.9

INC Burgoon
 HMPJC 99.9; to
 '570' (100 kw hv)
 OR Albany
 KRXT-FM 99.9

READERS' COMMENTS AND REPORTS

Vane Jones tells me his newest edition of the North American Radio-TV Guide will be out by Sept. 1, 1977 (which is sooner than the next FM Atlas will be ready). The cost will be \$5.95, and Vane is taking advance orders at 6710 Hampton Drive East, Indianapolis IN 46226. Vane is a WTFDA member. Now for some dissonance:

An FM Atlas reader, who finds the station listings useful, disagrees that the log should contain editorial "musings": "I personally believe that, whether or not I agree with your editorial opinions, they belong perhaps in a club publication or newspaper—not a book that is sold as a guide; a statistical publication. . . 'Progressive/Underground' music has been replaced as a term by 'AOR', or 'Album-Oriented Rock'. No big deal, but as it is the newest term, perhaps in the next edition 'p' can be replaced with 'a'. Your complaint that many stations use terms other than call letters to identify themselves other than on the legal hour ID. True, as a DXer, I agree wholeheartedly. But you have to remember—radio was NOT invented for the DXer; it was for the average John Q. Public listener. . . If, for example, WJNO-FM is 97.9, just about 98.0 MHz, who not do the listener a favor by not only making the station name easier to remember, but also the dial position at the same time and call it 'J98'? . . . But I would NEVER let these feeling appear in a publication for the general public—in the form of a radio GUIDE—unless labeled as an editorial with listings. Face it man, the people making the big bucks (which is really what life's about when you get down to it) are the rock 'n' rollers, and your mor, adult announcers. Not the transcendent college kids who get off on the radio." Elving answers: Comments like this are good, and I like controversy; however, I want to keep this discussion brief because not everybody who looks at this column has an FM Atlas. In writing the introductory section to the Atlas I wanted to bring the readers a little behind-the-scenes look at the FM broadcast industry, discussing the role of consultants, the FCC, etc. Since it was labeled "FMusing," I would think I was not pulling a Paul Harvey and mixing my own ideas with "news." Next edition, however, will probably not contain as long an introduction (to keep the number of pages the same and allow more space for station listings). I am giving thought to publishing a newsletter giving these opinions and other news, much of which is getting too voluminous for this column to handle. Now, I wonder about changing the nomenclature from progressive to "a" (album-oriented rock). At this point, I think there is merit in not going to the "a" format, because I can think of stations like KQRS-FM 92.5 in the Twin Cities area, which are strictly progressive, while WCCO-FM 102.9 seemingly plays all its rock music off albums, and has a soft rock sound. In many cases the "a" station is indicated in my listings with either "rp" or "pr," depending upon its orientation. What do the readers think?

The 13th FM Progress Report is now available (or should be by the time this is in print) for 46¢ in stamps from Mike Dorner, 1409 Hymelia Ave., Metairie LA 70003; it looks at some 77 sub-minimum FM facilities in the U. S. and lists changes in Canada's FM allocations table. Mike wonders about the existence of the AFRTS FM stations of Puerto Rico on 89.7 and 90.5, with newly-approved Class B facilities on 89.7 in San Juan and applications for 90.5 in Rio Piedras, Carolina and Anasco.

Off the air: KSUI '91.7 Iowa City while a new transmitter is installed at West Branch IA; by the time this VUD is published, KSUI may be back on with a full 100 kw h&v, so listen for it! KFRC-FM 106.1 San Francisco CA has been off the air, awaiting its metamorphosis as KQUP, "K-106," p-rock.

On the air: W265AB, \$, g, rebroadcasting WWIB 103.7 Ladysmith WI in upper MI.

WEKU

On air weakly is WEKU 88.9 Richmond KY, whose transmitter was destroyed by fire May 9. So instead of their normal 50,000 watts, they are using their old 10-watt transmitter and serving only a local clientele. Look for normal operation from them in September.

Kilmarnock

Kilmarnock, Virginia
 22482

Broadcasters

WKWI
 101.7 Stereo

Dean Loudy

Office: (804) 435-1414
 Studio: (804) 435-1313

WKTA 106.9 McKenzie TN, which recently went 100 kw, welcomes reception reports. I find that many FM stations are enthusiastic about DX reports—and this in a day when knowledge and sophistication concerning skip is increasing (in fact, I think CB has brought about an anti-skip attitude). WZEZ 92.9 Nashville now 24 hours. Already advertising their imminent move to the top of MN's tallest building, the IDS Tower, is KEYE-FM. Joining them there will be KQRS-FM 92.5, WAYL 93.7, KDWB-FM 101.3 and KDWB-FM 101.3. (See recent FCC grants for WAYL and, I forgot to mention in the preceding sentence, WLOL-FM 99.5. I believe WLOL-FM is not at full power, limping along on their old equipment awaiting the day when they can move to the tall building.)

WRFW 88.7 River Falls WI off the air until Sept. 16, so we'll have to wait on checking to see if they really have v1

One reader says "keep Muzak listening as is—separate from music (in the SCA listings). As noted, the 2-3 minutes' pause definitely ties down Muzak." He also feels I should not eliminate an SCA-listed station as having SCA simply because we don't hear SCA from it during a skip opening. I disagree. There's too much "deadwood" in the SCA listings, and I like to weed out all the inactive stations. If I miss an occasional one that uses SCA part of the time, I expect later on I'll find out about it and restore the listing, noting what is actually used on the 67-kHz channel. A somewhat different position on the Muzak issue is raised by another reader: "Your position regarding listing Muzak and other background music as two different items seems to change from month to month." Perhaps it does—but I am inclined to go back to where I started from and use a "disguised" listing of M and MZ stations, and I am trying to take greater cognizance of the difference as I hear background music stations by skip. The May, 1977 Audio Amateur gives a good review to the FM Atlas, including a picture of the Washington-Baltimore area map, and they have bought a quantity of the books for their own distribution. In the same issue, a reader writes to comment on FM fidelity, singling out San Francisco-area stations KKHI-FM 95.7 and KJAZ 92.7 as being especially good. He says of KJAZ: "They operate with old Gates tube type 'Yard' consoles, an Optimod limiting/stereo generator. . . and a general manager who has two of the sharpest ears in the business. He complains about noise that is so far down the station is always at least 5dB better than the minimum signal-to-noise ratio."

Heard testing: WDCB *90.9 Glen Ellyn IL, to be a sharetimer with WEPS Elgin IL. They have a July 5 target date and will be on 2 to 6 p. m. initially; reports are welcomed to P. Robert Blake, College of du Page, Glen Ellyn IL 60137. WCSJ-FM 104.7 Morris IL hopes to separate its programming from the AM station during the days within the year; no indication what their new format will be. Rick Samford, Burnet TX, who supplied much of the program info for the Austin-San Marcos area, says: "I enjoy reading your column and hope that I can help to keep things in south Texas as accurate as possible. . . WTFDA is a fine organization and your FM Atlas and Station Directory is responsible for my learning of it." The FCC-CRTC allocations list shows a station for which no know application has been filed: Newcastle NB, 105.7.

Contributors: Frank Aden, Bend OR; Robert Baker, Humboldt IA; Mike Dalton, Clearwater FL; Mike Dörner, Jr.; John Ebeling, Bloomington MN; Robert Eddy, Newport OH; Ted Fleischaker, Louisville KY; John M. Jefferson, Concord CA; Vane Jones; Nick Lombardi, Atlanta GA; Fred McCormack, Fargo ND; Michael McNeely, Evansville IN; Gary Olson, Elk Grove Village IL; Pete Oprisko, Whiting IN; John Robertson, Crosswell MI; James Russo, Washington DC; Rick Samford; Lennis R. Scheline, Kingsburg CA; Sheldon J. Swartz, W. Palm Beach FL; Jack Shusdock, Enfield CT; Ken Simon, W. Palm Beach; R. J. Steinberger, Hudson MA; Peter V. Taylor, San Francisco CA; Larry Weil, North Babylon NY; R. D. Young, Ottawa, Ont.; John Zondlo, Hammond IN. Paid advertisement:

Listen to and DX FM-SCA broadcasts with the Karkota-FM Atlas SCA Adapter! This compact adapter works with the unique CA3089E for 67 kHz detection, audio amplification and squelch action. Fully assembled, with connection details. Can be used with stereo tuners, receivers, portables and car FM radios. Buy one, or several to SCAitize all of your FM radios at a saving!

\$17.50 singly; \$16.00 in quantities of two or more, postpaid.

Installed in your radio \$23 plus shipping (installation offer good for a limited time. I do not make this offer anticipating making much money, but do want more club members to have SCA and turn into SCA reporters for my column.). If you plan to ship a radio, write or call first, describing in detail the kind of set, where on it you would or would not like switches and holes to be drilled, its hollowness, etc.

Order from: Bruce F. Elving

183 East Fifth Street
Duluth MN 55805, 216-727-6916
(no collect calls, please)

If you ship a radio, it is suggested that you use UPS, and mark with my address, "alley entrance."

SCA adapters are in stock, and you should get yours within a week of ordering. Custom work, of course, takes longer.



FM DX NORTH

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
Phone: 315-699-4880

Deadline: the 10th

July 1977

For FM DXers in Canada, the Northwest-Central states of WA OR ID WY ND SD NE MN IA, & all states east of the Mississippi River and north of the Mason-Dixon Line. Reports welcome! Summer-like FM DX conditions are in full swing up here in the now-warm North. Some tropo and many E-skip (Es) openings were noted by reporters. Es was reported on the following dates: 5/7, 5/8, 5/30, 6/2, 6/5, 6/6, 6/8, 6/9, & 6/13. The June 6 opening was by far the most productive with stations being heard by reporters from an average of 11 different states. Now to the reports:

Pete Oprisko - 1932 New York Avenue - Whiting, IN 46394 (CDT) 219-659-2954



Equipment: Sony ST-5130 tuner, single Channel Master Probe 9 (Model 4408) antenna mounted horizontally at 60 feet on a Rohn 20-G tower, Cornell-Dublier AR-40 rotor and Belden 8285 300-ohm lead-in. (No traps, no booster)

It's been quite a while since my last report, November to be exact. For the record I'd like to bring my progress up to date. However, if this report sounds a bit boastful to you, please forgive me, since it's not intended to be that way. The following events have transpired since my November report:

- After 10 months and 29 days I became the first FM DXer in history to log 100 educational band stations in one year's time. (1/1/76 to 12/31/76) Before the year's end I had logged my 101st.
- I logged my 23rd class D 10-watt educational FM station. This is believed to be the highest number of 10-watters ever logged from one location, and is also the most ever logged in one year's time.
- I have now logged my 109th educational band FM station. Once again this is a total that is unprecedented for such a short period of time and is a level of accomplishment that heretofore took about 5 years to attain.
- I logged a new state, my 14th, New Mexico - - 1450 miles.
- I was lucky enough to ID and log my first educational band FM station via meteor scatter propagation: tropo, E-skip, Aurora, and meteor scatter. Now here are the details:
11/29 MS 0343 KSJR 90.1 MN Collegeville - St. Cloud-Verdi Requiem, announcer Bill Parker
12/8 Tr 1615 WDSO 89.1 IN Chesterton - ID, rock music, sign-off 1630, 10 watts
6/2 GW 2335 WDCB 90.9 IL Glen Ellyn - Test tones, ID, "Se La Vi" played repeatedly
6/5 Es 1400 KTDB 89.7 NM Ramah - Spanish music, ID, native Indian music

Finally, I would like to publicly thank WTFDA member, Randy Dorman, who thought my feat extraordinary enough to merit listing in the Guinness Book of World Records. 73, Pete

John Ebeling - 9209 Vincent Ave. S. - Bloomington, MN 55431 (CST)

Stations received in Prosit, MN - Eq: Sherwood S2200 Tuner (17yrs) w/SCA Adaptor, Ant-5 el. FM ant. in attic -- pointed south. (New Underlined)

5/30 Es

1345 WCKW 92.3 LA Laplace, rock music
1505 WASH 97.1 DC Washington, traffic report
1545 WYTD 96.1 NC Raleigh, MoR music
1550 WRAL 101.5 NC Raleigh, 4 ads, ID
1600 WFPS 93.3 VA Fredericksburg, country mx

Big Es opening on 6/6, ranging from NE states all the way down to TX. It was an intense opening, w/many stations on the same freq. Almost too many in some cases, w/alternate domination every few seconds & making it hard to ID. In the space of 5 hrs, logged at least 49 stations (have yet to review the tape) with 28 new loggings were relatively low powered stations. Stations received in Bloomington, MN. Eq: RX-Heathkit AJ-15 Tuner; Ant-10-element FM yagi (h) & dipole (v).

6/6 Es

1602 WCSE 92.3 NC Asheville
1605 WCVT 89.7 MD Towson, nx, ID
1608 WLXN 94.1 NC Lexington, mx on SCA
1609 WYSP 94.1 PA Philadelphia, r, 94YSP
1615 WMAL 107.3 DC Washington, rock music
1617 WMAR 106.5 MD Baltimore, m, Musak SCA
1625 WGRF 99.3 NJ Pleasantville, ads, ID
1630 WCTY 92.1 PA Palmyra, nx, ID

5/30 Es (cont)

1605 WMYK 93.7 NC Elizabeth City
1615 WGH 97.3 VA Newport News, m, mx on SCA
1618 WKYZ 95.7 VA Norfolk
1844 KSTN 92.5 MO Joplin, r, (short skip)
1900 KESM 93.9 TX Ft. Worth, ss prog, ID

6/6 Es (cont)

1631 WLIR 92.7 NY Garden City
1637 WLEV 96.1 PA Easton, rock music
1645 WOCB 94.9 MA W. Yarmouth, ads
1650 WSHR 91.9 NY L. Ronkonkoma, call-in
1700 WNHU 88.7 CT West Haven
1710 WNYE 91.5 NY NYC, rock music
1720 WPKN 89.5 CT Bridgeport, to go \$ 6/7
1721 WICB 91.7 NY Ithaca

John Ebeling report - continued.

6/6 Es (Cont)

1730 CHRC 98.1 PQ Quebec, French Canadian
 1731 WCYF 97.7 CT Norwich, country music
 1736 WMYS 98.1 MA New Bedford, MoR music
 1739 WMRV 105.7 NY Endicott,uptempo music
 1745 WIHS 104.9 CT Middletown,gospel music
 1748 WERI 103.7 RI Westerly,soul music
 1753 WFLY 92.3 NY Troy,rock music
 1755 WCOD 106.1 MA Hyannis,rock music
 1758 WAMC 90.3 NY Albany,classical music
 1800 WQRC 99.9 MA Barnstable
 1801 WJFD 97.3 MA New Bedford,ethnic
 1806 WVBF 105.7 MA Framington,rock music
 1808 WPJB 105.1 RI Providence,r,mx SCA
 1818 WHLT 106.1 NY Patchogue,variety mx
 1825 WLNG 92.1 NY Sag Harbor,pop. music
 1858 WJCL 96.5 GA Savannah,m,mx SCA
 1900 KASU 91.9 AR Jonesboro
 1900 WCCA 94.1 MS McComb

6/6 Es (Cont)

1915 WQID 93.7 MS Biloxi,r,hrd thru lcl 100kw on 93.7 using v&h antennas.
 1920 WQMV 98.7 MS Vicksburg
 1921 KSLI 96.9 LA Alexandria,"adult mx"variety
 1925 WFMP 102.5 LA Baton Rouge,rock music
 1927 WKYV 106.7 MS Vicksburg,country music
 1930 KHOO 99.9 TX Waco,k,Muzak on SCA
 1931 KYKR 93.3 TX Port Arthur,k,"Kicker-FM"
 1931 KYND 92.3 TX Pasadena,m,FM92,also hrd thru lcl on 92.5 using h ant
 1953 KLJK 95.7 TX Houston,k,mx on SCA
 1954 KWTX 97.5 TX Waco,NX, ID
 1955 KCHU 90.9 TX Dallas,soul
 2000 KNUS 98.7 TX Dallas
 2000 KLKK 95.7 TX Houston,Muzak on SCA
 2005 KETR 89.9 TX Commerce,NX

Regards - John.

Michael L. Hogan - 9224 Cottage Grove Avenue - Highland, IN 46322 Phone: (219) 924-2361

Eq: Panasonic RF-877, Stereoprobe-9 antenna at 12', hand-rotated. New underlined. Condensed.

5/5 Tr 2000 WHPF 99.9 MI Benton Harbor,ad
 1959 WTHI 99.9 IN Terre Haute,PSA
 5/6 0900 WHFI 94.1 MI Jackson,weather
 5/7 1335 WKAR 90.5 MI E. Lansing.
 1359 WCSG 91.3 MI Grand Rapids
 1600 WFNY 92.1 WI Racine,FM92
 1836 WRSM 107.3 IN Warsaw,turn ad
 5/8 1759 WKPT 94.5 WI Milwaukee,L&C

5/8 GW 2200 WTRX 107.1 MI St. Joseph,L&C
 5/9 Tr 1259 WEZW 103.7 WI Milwaukee,L&C
 5/10 0801 WPMR 96.5 WI Milwaukee,ad
 GW 2000 WHSB 88.5 IL Hinsdale,10w.
 5/11 Tr 0550 WCOM 91.7 MI Ann Arbor,U.of MI
 5/12 0856 WOOD 105.7 MI Grand Rapids,L&C
 5/13 1758 WKVI 100.5 IN Kokomo(tent,lcl ad
 Totals:116; Educ. Band:33;10w:5. 73-Mike

Harry J. Hayes - Star Route - Box 226c - Gouldsboro, PA 18424

5/2 Au

1720 Hash noted, 88.7, 91.3 strong

5/7 Es

2044 WCKW 92.3 LA Laplace,L&C,country mx
 2054 WQVE 93.3 LA New Orleans,rock music
 2055 WRNO 99.5 LA New Orleans
 2150 WQID 93.7 AL Mobile,L&C,rock music
 2205 WQVE 93.3 LA New Orleans,still in
 5/22 Tr
 2020 WMYS 98.1 MA New Bedford,L&C at times
 2030 WSUL 98.3 MU Monticello,now on,rock
 2033 WRIM 93.3 MA Taunton,weak,c,(240)
 2310 WCIB 101.9 MA Falmouth,(tent.),talk
 2334 WPLM 99.1 MA Plymouth,no WFLR QRM,(260)

5/30 Es (Cont)

1448 KOSU 91.7 OK Stillwater,old time band mx
 1453 KKNG 92.5 OK Okla. City,Bay Listening mx
 1700 KESD 88.3 SD Brookings,ID,NPR prog.,14hr
 1709 KHRK 94.3 SD Brookings,m,r,in/out for 1hr
 1720 KNAT 96.1 SD Watertown,K96,Hit Parade
 1720 UNID 96.1 BB w/mentions of "Lake City"
 1759 KMWR 96.7 MN Rochester,caught ID,FM96 1/2
 1802 KHML 100.1 MN Marshall,wx, ID,EL,fadey sig.
 1807 KYSM 103.5 MN Mankato,lcl NX,severe wx rpt

6/2 Es

1100 Strong UNIDs from FL on 93.9 & 103.7
 1723 TT on 93.9 during strong opening to NFD. ?
 1724 CEC 106.9 NFD St. Johns,NX,briefly
 2105 "Love-94" Miami FL. Old WEBS. CL7 (WAWL-fn)
 2120 WCMQ 92.1 Breaking thru lcl WMLW from Miami, SS & EE w/EL. (Tent.) No ID or QTH mentioned.

The 5/30 Es opening from SD was extremely interesting 1 1/2 hr opening from extremely restricted area, with the characteristics of a pipeline effect -- most likely caused by very intense, but small Es patch, probably over MI. Also it was very stationary. If you take a ruler and run it thru the colinear towns of Watertown, Marshall, Mankato and Rochester MN, and extend it to PA, it will run right thru Gouldsboro. It will be interesting to examine other reports to see just about where this active area was. The Tr opening of 5/22 was most welcome. That was an opening of the Fall variety! Log total:398. 73 - Harry.

Steve West - 432 Kenmore Road - Havertown, PA 19083 Phone: (215) 449-1472

3/28 Tr 2400 WNCE 101.3 PA Lancaster,m,(60)
 4/9 1900 WVOR 100.5 NY Rochester,r,(250)
 4/19 0200 WJOI 93.7 PA Pittsburgh,m(300)
 4/20 0600 WJLY 92.1 NC Moyoock,r,(290)
 WOBK 95.3 NC Wanchese,m,(300)
 0800 WBXK 100.1 NC Edenton,k,(290)
 WKNI 100.7 VA Kilmarrack,m(200)

4/20 Tr WSFL 106.5 NC Bridgeton, auto rock
 0800 WHOR 88.3 VA Hampton,(260)
 WBCI 96.5 VA Williamsburg,auto r,(225)
 WNNT 100.9 VA Warsaw,k,(175)
 0900 WPVA 95.3 VA Petersburg,k,(225)
 4/30 2400 WKYV 102.7 MD Baltimore,r,(100),
 CL change.

FM DX NORTH

July 1977

Steve West report - continued.

5/19 1330 WRCH 100.5 CT New Britain,m,(175)
 5/21 1000 WRHL 101.5 NC Raleigh,r auto(350)
WMEM 97.7 MD Lexington Park,r(125)
WOLC 102.5 MD Princess Anne,r,(150)
 5/22 2300 WROR 98.5 MA Boston,r,(275)oldies
WBCN 104.1 MA Boston,r,oldies,(275)
 2400 WMNR 88.1 CT Monroe,o,(150)
 5/23 2300 WROR 98.5 MA Boston,r,(275)

The FM DX has been getting better and better. I'm surprised at the FM skip this early. KYFR Bismarck is my furthest FM station. I'd like to exchange recordings of FM stations that are Hit Parade (if any still exist) or that plays songs of the 60's. Eq: Heathkit AR-15, Stereo Probe 9 at 35', and Panasonic tape deck.

5/30 Es 1400 KAKC 92.9 OK Tulsa,r,(1250)
WERH 92.1 AL Hamilton,(850)
KGOW 92.1 OK Broken Arrow,(1150)
 1500 KMOE 92.1 MO Butler,(1150)
KEZO 92.3 NE Omaha,r,(1100)
KTCR 97.1 MN Minneapolis,k,(1000)
WCTS 100.3 MN Minneapolis,g,(1000)
KYFR 92.9 ND Bismarck,r,(1350)
KNOF 95.3 MN St. Paul,g,(1000)
 Tr KDKA 92.9 PA Pittsburgh,m,(250)
 Es KTIS 98.5 MN Minneapolis,g(1000)
 6/2 2000 WINZ 94.9 FL Miami,p,(1000)

Joseph Fela - 150 Robert Place - So. Plainfield, NJ (ELT)

Eq: RX - Pioneer SX-828, Ant. - Pair of Antennacraft GFM-10s (stacked) w/rotor at 35'

New loggings underlined.

5/8 Es
 2030 KYFR 93.3 TX Port Arthur,k,Super Kicker
 2048 WVIC 107.7 TX Beaumont,"Quick",promos
 2054 KRLY 93.7 TX Houston,r,KRLY-94
 2055 KOBS 104.5 TX Orange,ID,news
 2059 WFMP 102.5 LA Baton Rouge,legal ID
 5/30 Es
 1656 KELO 92.5 SD Sioux Falls,NX,KELO-land
 1659 KLJV 92.1 SD Huron,ID,k,KQDE QRM
 1700 WCAL 89.3 MN Northfield,station ID
 1728 KDLO 96.9 SD Watertown,m,KELO-KDLO IDs
 1741 KWTR 93.7 SD Winner,local sports,ID
 1746 KNUJ 93.1 MN New Ulm,ID o/local WPAT
 1759 KIXX 96.1 SD Watertown,ID,r,KIX-96 IDs
 1800 KLGR 97.7 MN Redwood Falls,station ID
 1815 KYSM 103.5 MN Mankato,NX,ID,o/lcl WTFM
 6/2 Es
 2145 WVOG 99.9 FL Boca Raton,g block prog.
 2159 WHYI 100.7 FL Ft. Lauderdale,legal ID,r
 2205 WGFL 93.5 FL Vero Beach,station ID

6/5 Es
 0859 KELO 92.5 SD Sioux Falls,KELO-land
 0901 KDGR 91.3 IA Sioux Center,ID,news
 0928 KUMR 88.5 MO Rolla,station ID
 0930 WUSF 89.7 FL Miami,o/needed prob. KUSD
 1000 WTMI 93.1 FL Miami,ID,concert,ID o/WPAT
 1002 WAXY 105.9 FL Ft. Lauderdale,ID,Dick Clark
 1026 WSHE 103.5 FL Ft. Lauderdale,ads,SHE-103.5
 1714 KMRJ 96.9 KS Pittsburg,rock,ID,weather
 The GFM-10s are, overall,a slight improvement over the JFD FM-10A formerly used. However, the FM-10A didn't do anything above 105 or so (inherent in that antenna), so I do, in effect regain the top part of the dial. 73 -- Joe.

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

Eq: RX - Heathkit AJ-15, Ant.- JFD LPL-FM10A at 45' w/rotor. New underlined. Totals:889.

5/16 Tr 2300 WSBA 103.3 PA York,"Stereo 103"
 5/17 Gw 2020 WNCQ 97.5 NY Watertown,country
 5/22 Gw 1307 CILQ 107.1 ON Toronto,rock,Q-107
 5/27 Tr 2300 WCLT 100.3 OH Newark,ID,(385)
 5/30 Es 2136-2144 UNIDs -- PTA:Missouri
 6/5 Es 0914 WVFM 94.1 FL Lakeland
 (Left tape recorder on while at Church)
 0915 WWFL 93.9 FL Miami Beach
 1000 KYEZ 93.7 KS Salina,Stereo 94,m
 1700 UNIDs--weak signals.
 6/6 Es 1730-2130 - Spectacular opening to 12 states, from FL to MN.
 1730 KLUM 88.9 MO Jefferson City,NPR
 1731 WMEZ 94.1 FL Pensacola

6/6 Es Home at 1725 - skip all over the place which makes me wonder what I missed during the day.(Me too-fn)
 1726 KTAV 92.1 IA Knoxville,ID,beaut. mx
 1730 KESD 88.3 SD Brookings,ID,wx,NPR,L&C
 1738 KQRS 92.5 MN Golden Valley,ID,weather
 1744 WAYL 93.7 MN Minneapolis,ID,KWTR QRM
 1755 WWJO 98.1 MN St. Cloud,WWJO ID
 1800 KXRA 92.7 MN Alexandria,station ID
 1801 WDAY 93.7 ND Fargo,beginning w/news
 1802 KMRS 95.7 MN Morris,ID,"Nice & Easy"
 1828 KKYK 103.7 AR Little Rock,w/KKYK promo
 1844 WELX Mobile & KKDQ Grand Forks mixing
 1846 WZZK 104.7 AL Birmingham,country,IDs
 1848 WHBR 103.7 MS Hattiesburg,ID,EL
 1934 KVIR 95.3 MN Detroit Lakes,ID,ads,r
 1937 KAOH 94.9 MN Duluth,"Kay-Oh-95",k
 1944 KIDA 99.9 MN Morehead,weather,IDs
 1945 WIMI 99.7 MI Ironwood,ID,r,MIM# by Es
 1948 WAKX 98.9 WI Superior,99WAX,r,1st Es on 98.9--WKLO-98.7/WAWZ-99.1 sorta kill 98.9.
 2000 WSDC 92.9 MN Duluth,station ID
 2005 WCLK 100.9 MN Cloquet,station ID
 2023 KCLD 104.7 MN St. Cloud,IDs,ad,rock
 2032 KIOV 104.7 SD Sioux Falls,country,SID

Fred Nordquist report - continued.

6/6 Es (cont)

1841 **KKWS** 105.9 MN Wadena, local announcement
 1900 **WXEM** 102.7 FL Milton, country music
 1932 **KWOA** 95.1 MN Worthington, "Stereo-95"
 1938 **KEYC** 99.1 MN Mankato, station ID
 1941 **WVLR** 96.7 WI Saux City, "News Station"
 1950 **KCFI** 95.3 MN Albert Lea, local ad
 1951 **KTCR** 97.1 MN Minneapolis, local ad
 1953 **KXNR** 97.5 MN Rochester, previously by MS
 1955 **WCAL** 89.3 MN Northfield, (845 miles)
 2010 **WIAL** 94.1 WI Eau Claire, m, (780 miles)
 2024 **KPAT** 97.3 SD Sioux Falls, rock/country
 2026 **KMDW** 89.1 KS Wichita, Arrows Baseball
 2056 **KICS** 93.5 NE Hastings, m, (1150 miles)
 2109 **UNID** 100.3 KS-KXXX? Kansas City Baseball
 Many UNIDs & un-needed(um) stations also
 received, but not listed.

Anybody hearing a tone-tester (Tter) on 90.5
 Mhz during the 6/13 Es opening around 1754
 EDT -- it was WBXL, Baldwinsville, NY with
 10 watts. They are monaural with poor audio
 and junky rock music. 73 -- Fred

6/7 Tr 2100 Detroit Stations, L&C
 6/8 Es 1934-1958 to SD, MN
 1936 **KWAT** 96.1 SD Watertown, "K-96"
 1958 **KSJR** 90.1 MN Collegeville, NPR
 6/9 Es 1808 **KCGM?** 95.7 MT Scobie (Tentative)
 Montana NX, hum in audio,
 faded out before ID. (1435)
 6/10Gw 1800 **KKAL** 95.9 NY Rome, now m, Stereo
 1800 **WSYR** 94.5 NY Syracuse, now "The
 Mellow Rock Sound - FM94.5"
 6/13 Es
 1722 **KCSC** 90.1 OK Ehdnd, local weather
 1738 **KCEC** 94.7 OK Okla. City, country, ID
 1740 **KOBC** 90.7 MO Joplin, gospel music, ID
 1744 **KKAJ** 95.7 OK Ardmore, ads, SID, rock
 1805 **KYFM** 100.1 OK Bartlesville, Oklahoma NX
 1815 **KPNB** 101.9 OK Okla. City, bank ad, "FM102"
 1824 **KWHW** 93.5 OK Altus, ID, m, (1365 miles)
 1833 **KWGS** 89.5 OK Tulsa, station ID
 1841 **KRLG** 98.1 OK Lawton, "G-98", "Stereo-Rock"
 1848 **KRAV**-96.5/KMOD-97.5 OK Tulsa -local ads
 1858 **KOFM** 104.1 OK Okla. City, SID, rock

Bruce Elving - 18 1/2 East Fifth Street - Duluth, MN 55805 (CDT)

RX: Either a Sony ST5130 tuner or a Fisher 500TX receiver, sometimes switching between the two, and for some stations having heard on both sets. All reception in Duluth (no Adolph in this report).

5/30 Es 1600-1716;

WOOK 100.3 DC Washington, w/1-per-hr legal ID
WETA 90.9 DC Washington, + talking book SCA
WFVA 101.5 VA Fredericksburg, 1st time in \$; ver.
WTVR 98.1 VA Richmond, \$, mx SCA
WKWT 101.7 VA Kilmarnock, \$

6/5 Es 0930 & 1100;

WSOJ 98.3 GA Jesup, \$
WRJH 97.7 MS Brandon, g, pseudo \$

6/6 Es 1600-2300;

WHFS 102.3 MD Bethesda, \$, p
WXRC 95.7 NC Hickory
WPST 97.5 NJ Trenton, \$, r, uses CL at times
 other than on the hr, so not a
 true non-IDer. No SCA hrd.
WQDW 97.7 NC Kinston, \$, mixing w/sta/ in
 Milford DE, CL not hrd-not counted
WSHR 91.9 NY L. Ronkonkoma, silly student talk,
 \$ lite on, but no \$ prog. material
WHVS 97.7 NY Hyde Park, hrd briefly in \$
 Somers PA also hrd--no ID hrd
 therefore it did not count.
WVCD 97.9 PA Hazleton, \$, m

Many of the above stations coming in simultaneously, even though widely separated geographically (such as Maine & LA), so no individual reception times given. Other stations hrd before not listed. I try to listen to non-IDers only on the hr, so as to hear the legal CL. 73--Bruce

6/6 Es (cont.)

WNYE 91.5 NY NYC, mono, Youth prog., 1st revd
WYNY 97.1 NY NYC, legal ID on hr hrd, never
 hrd as WNNW WNEC-FM or WRCA-FM,
 mx SCA also hrd.

WBAI 99.5 NY NYC, ID given during funds
 appeal.

KGVS 97.5 AR Hot Springs, \$, m
KASE 100.7 TX Austin, \$, m, mx SCA, "101", IDe
KMCC 102.9 TX Dallas, new CL, mono, g, mx SCA
KSMS 96.1 LA L. Charles, \$, no SCA hrd
WRUM 96.3 ME Rumford, Red Sox BB
KXKZ 107.5 LA Ruston, \$, k, mx SCA

Also hrd was Kitchener ON 96.7 w/out CL-
 so not counted. The following were hrd w/
 new CL, but hrd before under old CL: 6/6-
WNGC 95.5 GA Athens
KEPT 96.5 LA Shreveport, g, AEC netw. on SCA
WBJH 101.5 NJ Trenton, no SCA active
KQXY 94.1 TX Beaumont
KMEZ 100.3 TX Dallas
KYKR 93.3 TX Port Arthur
KHOO 99.9 TX Waco

STATION BREAK

Non-commercial member ads are free!
 Limit 100 words. Send to Clarke W.
 Ingram (address on VUD back cover).
 7-INCH REELS OF USED TAPE suitable for DX recording available at \$1.90 each
 postpaid. Tape used on automation at WWNO-FM; good physical condition but
 some drop outs; not recommended for music recording. 1 1/2 mil thickness; ori-
 ginally on 10 1/2-inch reels; unspliced. \$1.90 covers cost of plastic reel and
 postage. Prefer quantities. Mike Dorner Jr., 1409 Hymelia, Metairie LA 70003

WANTED: TOP 40 AIRCHECKS from across North America. Working on composite and
 already have jingles and talk segments from more than 70 stations (AM and FM).
 Will dub off copy on your tape when project completed in exchange for quality
 tapes of Top 40 stations in your area. Originals returned unharmed. Contact
 Clarke Ingram (address on back cover).



Southern F.M.DX

Dave Cox
2704-C Briarberry Cir.
Birmingham AL 35226

JULY 1977

Deadlines: the 10th

SERVING FM DXers OF THE SOUTHEAST, SOUTHWEST, AND MEXICO

Please note our new address above, which is effective immediately. Several reports sent to our old address have been forwarded, but I have no way of knowing if all reports were forwarded. And there is also the possibility that a report could have been misplaced during my move. If you have reported to this column and your report has not been published, please drop me a note.

DX improved steadily through April and May, marking the beginning of the summer DX season. The increasing intensity and number of Es openings give us some hope for a better June and July than those of the past couple of years.

PAT DYER 5315 Silvertip Drive, San Antonio TX 78228 CST

Equipment: Hallicrafters SX-62 with International Crystal SAX-1 preamp, Allied 426 Antenna: Archer V-100 to 4-25 then 6 element FM antenna @ 20ft with rotor

3-11-77

Es 1938 unID 89.3 very brief

3-12-77

Es 0859 WIAN 90.1 IN Indianapolis (975)

3-24-77

Es 1743 unID 89.3 very brief

4-5-77

Es 2030 WMCU? 89.7 FL Miami (1150);g

2040 WUSF? 89.7 FL Tampa (985)

4-6-77

Es 1205 WJCT? 89.9 FL Jacksonville (1015)k

1223 WJAX? 95.1 FL Jacksonville (1015)

WQIK? 99.1 FL Jacksonville (1015)

1225 unID 95.5 ?

4-7-77

tr 0120 KSN5 96.1 LA Lake Charles (325)

KQXY? 94.1 TX Beaumont (275);m

KYKR? 93.3 TX Port Arthur (280);k

0150 KIOF 106.1 TX Orange (295) "K-106"

0200 KLCL 99.5 LA Lake Charles (325)

0205 WXEL? 105.3 LA Slidell (530);s

4-23-77

Es 1545 XHCM? 88.5 Mor Cuernavaca (735)

XHNP? 89.3 Pue Puebla (735)

XHM? 88.9 DF Mexico City (690)

1735 TG--? 88.1 Guat. Guatemala Cty.

1740 TG-- 88.8 Guat. " (1120)

KLLU? 89.7 CA Riverside (1140);k

1754 KPCS 89.3 CA Pasadena (1185)

ID, bbl

KCSN? 88.5 CA Northridge (1210)

KSPC? 88.7 CA Claremont (1160)

KXLU? 88.9 CA Los Angeles (1190)

1812 KILA? 95.5 NV Henderson (1040);g

1813 KTRI? 92.3 NV Las Vegas (1050);k

1815 KXTZ 94.1 NV Henderson (1040);m

1829 KALJ 95.1 AZ Yuma (970) w/ID

1835 XHIS? 90.3 BCN Tijuana (1100);SS

KPBS? 89.5 CA San Diego (1120),ad

1838 KLUC 98.5 NV Las Vegas (1050),ad

1842 KIFM 98.1 CA San Diego (1120),ad

1847 KYXY 96.5 CA San Diego (1120),ad

1850 KMET? 94.7 CA Los Angeles (1190)r

KLOS? 95.5 CA Los Angeles (1190)r

KOOL 94.5 AZ Phoenix (835) w/ID

1858 KFSD 94.1 CA San Diego (1120);k

1913 KWXY 98.5 CA Cathedral City (1080)

1918 KLRO? 94.9 CA San Diego (1120);g

1919 KPRI 106.5 CA San Diego (1120);r

1920 KKOS 95.9 CA Carlsbad (1125)

1923 KITT? 105.3 CA San Diego (1120)

4-23-77 (continued)

Es 1924 KFMB 100.7 CA San Diego (1120) ad

KBG 101.5 CA San Diego (1120) ID

1931 KPOL? 93.9 CA Los Angeles (1190)

XHRM? 92.5 BCN Tijuana (1100);S

1938 XHDS 95.7 BCN Tijuana (1100),ad

1940 XHQF? 98.9 BCN Tijuana (1100);S

1945 KJOI 98.7 CA Los Angeles (1190)e

KBBL 99.1 CA Riverside (1140);g

1947 KOTE 106.3 CA Lancaster (1190)psa

KBCA 105.1 CA LA (1190);j w/ad

1950 KRQQ 106.7 CA Pasadena (1185);r

1959 KWST 105.9 CA LA (1190);r w/ID

2007 KCAL 96.7 CA Redlands (1130) ID

2017 KNOB 97.9 CA Long Beach (1180);m

2024 KPPC? 107.1 CA Arcadia (1180);g

(107.1 MUF for this opening)

2044 KBBY 95.1 CA Ventura (1250) ad

2055 KLON? 88.1 CA Long Beach (1180)

2110 TG--? 88.8 GUAT. (again, or still)

2120 fade out

4-27-77

tr 0059 KYKR 93.3 TX Port Arthur (280);k

0109 KSN5 96.1 LA Lake Charles (325)

0110 KQXY 94.1 TX Beaumont (275);m

4-28-77

Es 1106 KXE? 93.7 AZ Tucson (750);S

KAIR? 94.9 AZ Tucson (750);m

KCEE? 96.1 AZ Tucson (750) CCI on local

1112 KRFM 95.5 AZ Phoenix (835) loc. ad

KOOL? 94.5 AZ Phoenix (835);r

KME? 96.9 AZ Phoenix (835);m

1116 KALJ 95.1 AZ Yuma (970) w/news

fade out til

1200 KXTZ 94.1 NV Henderson (1040)

1202 KORK 97.1 NV Las Vegas (1050)

1203 KLUC 98.5 NV Las Vegas (1050)

KTRI 92.3 NV Las Vegas (1050);k

1206 KILA 95.5 NV Henderson (1040)

1220 KNIS? 94.7 NV Carson City (1370);g

KBBC? 98.7 AZ Phoenix (835);r

KUPD? 97.9 AZ Tempe (825);r

fade out

tr 2350 WRYO 98.5 FL Crystal River (965)

4-29-77

tr 0000 KIOF 106.1 TX Orange (295) w/ID

0007 WXEL? 105.3 LA Slidell (530);s

0030 KQXY 94.1 TX Beaumont (275);m

0032 KSN5 96.1 LA Lake Charles (325)

0140 WJMI 99.7 MS Jackson (525) w/ID

PAT DYER (continued)

5-2-77

tr 0915 KLBK 94.5 TX Lubbock (340);m ID
 0917 KLLL 96.3 TX Lubbock (340);k ID
 KBAT 93.3 TX Midland (275);m ID
 0954 KNFM 92.3 TX Midland (275);m ID
 1005 KWMJ 103.3 TX Midland (275) w/ID
 1016 KSEL 93.7 TX Lubbock (340) w/ID

5-3-77

tr 0105 KSEL 93.7 TX Lubbock (340);k ID
 0120 KOYL 97.9 TX Odessa (280);k w/ID
 0129 KLLL 96.3 TX Lubbock (340) ID
 0951 KMFY 99.1 NM Clovis (435) w/ID
 0953 KTMQ 99.9 NM Clovis (435) w/ID
 1000 KPOE 94.1 NM Humble City (360);m
 1017 KLBK 94.5 TX Lubbock (345) ID
 1100 KSTA 107.1 TX Coleman (170) ID
 1109 KMIT 105.1 TX Abilene (220) w/ad

5-5-77

tr 0055 KRND 101.1 LA Shreveport (350) ID
 0101 KTAL 98.1 TX Texarkana (380) ID
 0105 KIOF 106.1 TX Orange (295) "K-106"

5-7-77

Es 2103 WQED? 89.3 PA Pittsburg (1280);c

5-9-77

Es 1745 WQED? 89.3 PA Pittsburg (1280);c
 1950 unID 88.7 ?

5-11-77

Es 0921 XHM? 88.9 DF Mexico City (690);m
 0925 XHZM? 92.5 Pue Puebla (735);m
 XHJE? 94.1 Pue Puebla (735)
 0930 XHNP? 89.3 Pue Puebla (735)
 1025 KTRI 92.3 NV Las Vegas (1050);r
 ad & "K-92" ID

1029 KXTZ 94.1 NV Henderson (1040);m

1030 KLUK 98.5 NV Las Vegas (1050) ad

KORK? 97.1 NV Las Vegas (1050);m

1033 KOOL 94.5 AZ Phoenix (835) w/ID

1034 KILA 95.5 NV Henderson (1040);g

KUDD? 93.1 NV Las Vegas (1050)

1037 KVIM? 93.7 CA Coachella (1070);S

KVWM 93.5 AZ Show Low (745) w/nx

1038 KCTB? 93.9 AZ Flagstaff (855);g

1039 KFMM? 99.5 AZ Tucson (750)

KUPD? 97.9 AZ Tempe (825)

KMEO? 96.9 AZ Phoenix (835);m

1040 KBBK 98.7 AZ Phoenix (835);r

1049 KALJ 95.1 AZ Yuma (970) w/wx

1051 KBRF 94.9 UT Cedar City (1005)

1056 KSUB 92.5 UT Cedar City (1005);k

1066 KXTC 92.3 AZ Glendale (840) ads

1112 KHFP? 101.5 AZ Phoenix (835);c

1113 KWAO 106.3 AZ Sun City (850) ads

1117 KDOT? 100.7 AZ Scottsdale (835)

1127 KDKB? 93.3 AZ Mesa (820);r

1130 KGLP? 94.5 NM Gallup (720);k

1131 KALL 94.1 UT Salt Lake City (1080)

1132 KUER? 90.1 UT Salt Lake City (1080)

1138 KRAZ 96.9 NM Farmington (745) ad

1152 KLUK? 97.1 UT S.L.City (1080);m

1158 KCPX 98.7 UT S.L.City (1080);r ID

1202 KBVU 88.9 UT Provo (1045) st. nx

1213 KQSW 96.5 WY Rock Springs (1025)

1222 KID? 96.1 ID Idaho Falls (1215)

1223 KEZJ 95.7 ID Twin Falls (1265) ID

1228 KSIH 94.9 ID Pocatello (1195)

1232 KMTW 96.5 ID Twin Falls (1265)

5-11-77 (cont.)

Es 1247 KBXL 94.1 ID Caldwell (1390) ads

1252 KBBK 92.3 ID Boise (1370);r ID

1258 KSNM? 93.7 ID Pocatello (1195)

1305 KFND? 94.9 ID Nampa (1380)

fade out

1558 WMCU? 89.7 FL Miami (1150);g

1600 WEDR 99.1 FL Miami (1150)

WBUS? 93.9 FL Miami Beach (1150)

1606 WLCY? 94.9 FL Tampa (985);r

1617 WINK 96.9 FL Fort Myers (1040) ID

WSOR? 95.3 FL Ft. Myers (1040);g

1624 WRGI? 93.5 FL Naples (1050);r

1629 WMUM 94.3 FL Marathon (1125) w/ads

1650 WINZ 94.9 FL Miami Beach (1150) ads

1659 WLQY 98.7 FL Ft. Pierce (1115) ads

1703 WFYN? 92.5 FL Key West (1090);m

1704 WVFM? 94.1 FL Lakeland (1010);m

WVCU? 94.5 FL Naples (1050);m

WCIE? 91.3 FL Lakeland (1010)

1720 fade out

5-12-77

Es 1538-45 unIDs 88-106

1543 WJGS 98.5 MI Houghton Lake (1270)

WFMT? 98.7 IL Chicago (1045);c

1548 WMUS? 106.9 MI Muskegon (1190);m

1550 fade out

1625-1630 unIDs 88-90

2132 WSCI? 89.3 SC Charleston (1120);c

2137 WEPK? 90.1 SC Greenville (1010)

2142 WMPK? 88.1 SC Sumpter (1190);c

5-13-77

Es 2110-15 WMCU? 89.7 FL Miami (1150);c

5-15-77

Es 1120 KTEP? 88.5 TX El Paso (495)

1130 KSTM? 107.1 AZ Apache Jet. (810);m

KBEF? 105.5 AZ Casa Grande (805);m

KRFM? 95.5 AZ Phoenix (835);m

KXEW? 93.7 AZ Tucson (750);S

1136 KBBC 98.7 AZ Phoenix (835) ads

1138 KUPD 97.9 AZ Tempe (825) ad, ID

1140 KHFP? 101.5 AZ Phoenix (835);c

1144 KMEG 96.9 AZ Phoenix (835);m ID

1150 KDOT? 100.7 AZ Scottsdale (835);m

1155 KOOL 94.5 AZ Phoenix (835) w/nx

1156 KVMM 93.5 AZ Show Low (745) w/nx

1159 KPAS 93.9 TX El Paso (495) ID

-implies a MUF near 146 MHz!-

1200 KDKB 93.3 AZ Mesa (820) nx

1203 KWAO 106.3 AZ Sun City (850) w/ID

1229 KTDB 89.7 NM Ramah (Navaho) (695)

1230 KONM 93.7 NM Gallup (720) ID, ads

KGLP 94.5 NM Gallup (720);k ID, ads

1232 KRST? 92.3 NM Albuquerque (610);r

1234 KSUB 92.5 UT Cedar City (1005)

1235 KRKE 94.1 NM Albuquerque (610);r

1237 KBRF? 94.9 UT Cedar City (1005)

1238 KANW? 89.1 NM Albuquerque (610);r

1239 KUNW? 90.1 NM Albuquerque (610);c

1242 KRAZ 96.9 NM Farmington (745) ad

1245 KOB 93.3 NM Albuquerque (610) ID

1315 fade out

1610 WDN? 89.7 TN Chattanooga (865);g

WMBW? 88.9 TN Chattanooga (865);g

WFDD? 88.5 NC Winston-Salem (1150);c

(continued)

PAT DYER (continued)

5-15-77 (continued)

Es 1628 WETS? 89.5 TN Johnson City (1050)
WSMC? 90.7 TN Collegedale (875)
1645 Es fade out
tr 1659 KAMU 90.3 TX College Station (155)
Es 1905 WSCI? 89.3 SC Charleston (1120);c
1909 WXTC? 96.9 SC Charleston (1120);m
WBEU? 98.7 SC Beaufort (1075);m
WGMB? 97.7 SC Georgetown
1912 WPXI 95.1 SC Charleston (1120);s

Due to my lateness in getting this together, I had to terminate the report rather early in the month.

The April 23 opening was probably one of the more intense and lengthy variety than is normal to find in April. Good trop conditions at times. The duct to FL on April 28-29 was very narrow. No Tampa/Jacksonville stations noted. Some hi-band VHF TV from the Tampa area was noted, though. The Es to El Paso is my first in-state by that mode.

The new separate FM antenna system will permit me to keep a bit better check on the TV (i.e. more chances of ch.6 IDs, etc. and quick notice of ch.7 if it gets the Es MUF) during the FM openings. Using the separate FM antenna I'm often getting amazed how little Es can be showing on TV ch.4-6 while the FM band is open.

73, Pat WA5IYX

5-15-77 (continued)

Es 1912 WWVZ 93.5 SC Summerville (1110);r
1930-2050 unIDs 88-89 very spotty
2059 WMPR 88.1 SC Sumter (1110) ID
2107 WQDR 94.7 NC Raleigh (1230);r
2115 fade out

5-16-77

Es 1540 WMCU? 89.7 FL Miami (1150);c
WBUS? 93.9 FL Miami Beach (1150)
1905 KPFK 90.7 CA Los Angeles (1190)

DANNY BUNTIN 1020 S. Duncan, Stillwater OK 74074 CST/CDT

3-15-77

tr 2144 KLUF 105.1 TX Lufkin (350) ID

3-17-77

gw 2101 KXOJ 100.9 OK Sapulpa (60);g \$
ID, new on air

5-20-77

Es 1835 WGRI 93.5 FL Naples (1150) w/ad

6-2-77

tr 2300 KVGB 104.3 KS Great Bend (190);N,\$

6-3-77

tr 1148 KGNO 95.5 KS Dodge City (200) wx

6-6-77

Es 1935 CKOS 94.9 ON Oshawa (1130) w/ID

1936 MUF to 107.9

1946 WQXO 98.3 MI Munising (910) mono

1954 WKQC 98.1 MI Saginaw (840) w/wx

1955 WMKC 96.7 WI Oshkosh (700) ID

1956 WSMN 99.5 MI Sault Ste. Marie

w/ID, (970)

2000 WHWL 95.7 MI Marquette (870) ID

2001 WOCO 107.1 WI Oconto (790) ID

All stations from MI and WI are newly logged. Totals now at 670.

6-6-77 (continued)

Es 2004 WBKV 92.5 WI West Bend (700)wx, ID

2006 WNBW? 93.3 incoherent

2007 WKZY 97.1 location not given, ID
as "Kozy 97"

2010 WOSH 103.9 WI Oshkosh (700) ID

2016 WCBY 105.1 MI Cheboykin (840) ID,
wx (frost warning), audio bass hvy

2020 WJPD 92.3 MI Ishpeming (880)

2025 WMAJ 106.3 WI Middleton-Madison
(655);k w/ID

2028 WQTC 102.3 WI Two Rivers (760) ID

2029 KWEB 101.7 MN Rochester (615) ad

2034 WCXR 105.7 WI Appleton (735);k,E

2040 WDXX 101.1 WI Green Bay (760)\$,ad

2044 WRHN 107.9 WI Rhinelander (800)

2045 WGBN 102.3 WI Viroqua ID

2054 WBIZ? 100.7 WI Eau Claire (680) IDed
only as "Z-100"

2102 CKY 92.1 MB Winnepeg (960);C ID

2230 WJMT 93.5 WI Merrill (770) w/nx

KEN SIMON 528 Pilgrim Road, West Palm Beach FL 33405 EDT

5-3-77 in Vero Beach using car FM

1945 WDBO 92.3 poor

WTMI 93.1 through two locals

WLRN 91.3 dominant over WVIE

WMCU 88.9 Miami stations a
surprise at about 150 miles5-7-77 15 mi. south of West Palm Beach
in car

Es 1225 unID 92.3 ? w/Cha-cha music

1228 WFCR 88.5 MA Amherst ;c with
ID and NPR spot

.. back at home ..

2005 WTEV? 87.75 RI Tiverton ABC movie

WFCR? 88.5 MA Amherst as per
promo earlier, with 'Jazz Alive'

5-8-77

tr 0900 WDBO 92.3 FL Orlando ID

0905 WXOS 100.3 FL Plantation Key ;m

0913 WCVU 94.5 FL Naples ;m "\$-94"

5-16-77 using car radio during power

outage here in South Florida
following stations noted before power came

back on at about 1330:

WWRN 92.1 WINZ 94.9

WWWL 93.9 WLYF 101.5

also noted WGLO 106.7 at 106.6/106.8 with
silence at 106.7

5-17-77

heard WTMI 93.1 on car radio, operating
with auxiliary xmtr as main xmtr was da-

maged during power blackout

5-18-77

Es 1739 WIPR 87.75 PR San Juan TV ch.6

WCVU Naples is station #143

Nothing real exciting, but ...

Regards, Ken

(thanks for reporting, Ken .. dsc)

BILL FEI DT 8852-L Spiral Cut, Columbia MD 21045 EST

Equipment: Heath AN-2016 with mobile home type antenna mounted atop a pole lamp in the apartment. Well, it looks like another FM DX season is underway with the appearance of Spring tropo. April 20-21 were particularly good tropo days here. We had one of the earliest Es sessions ever noted here this year on May 7, but the rest of the month was rather quiet. We were able to add quite a few new loggings via tropo, however.

4-20-77

tr 2230 WPVA 95.3 VA Petersburg-Colonial Heights (136);k,\$
2245 WBLS 107.5 NY NYC (177) fair level w/WMAL splatter. WBVO much stronger but on different bearing. ;s
2300 WRLB 107.1 NJ LongBranch (166);m,\$ low key "name that tune contest"
2305 WBLI 106.1 NY Patchogue (227);r SID "WBLI, one-oh-six" and ads
2330 WPLZ 99.3 VA Petersburg (136);m,\$ promo for WPLZ wx report phone no.
2345 WRCS 99.3 NC Ahsoskie (205);k "East Carolina's country giant" sign off at midnight

2355 WGRF 99.3 NJ Atlantic City-Pleasant (116) w/'Christopher Thought for the Day" followed by ID

4-21-77

tr 0445 WPLP 99.1 CT New Haven (255);s
0500 WBRE 98.5 PA Wilkes-Barre (147) s/on followed by NBC nx
0501 WALK 97.5 NY Patchogue (227) s/on then nx & wx "Island Brdcast Service"
0510 WSLQ 99.1 VA Roanoke (216);r w/"Q-99" slogan and ads
0515 WSUL 98.3 NY Monticello (183);r,\$ surprisingly strong w/ads & promo
0525 WSFM 99.3 PA Harrisburg (72);s "WSFM, all the mx w/out all the talk"
0555 WACM 103.1 PA Freeland (132) with farm prog. & ID. was hoping for WXLX

5-1-77

tr 0605 WYFI 99.7 VA Norfolk (150) local nx into rel.mx. Unn. WUNC 91.5, Chapel Hill NC noted at 0600 w/ cl mx
0615 WFLN 95.7 PA Philadelphia (105) "Mx for a Sunday Morning"
0655 WSLT 106.3 NJ Ocean City (116);m weak; WESP carrier much stronger on different bearing
0701 WEXM 107.5 VA Exmore (125) strong with local & national nx
1415 WZFM 98.3 WV Charles Town (52)m "Take it E-Z in your ear, in Big Country, WZFM", refs to Eastern Panhandle. This station has the most consistently horrendous modulation I've ever hrd.
1456 WMDM 97.7 MD Lexington Park (67)r this relatively new stn is quite weak so should be problem during Es openings in the future.

5-2-77

tr 0100 WITM 103.5 NY Lake Success (183);m weak; Local WGMS off at this time

5-5-77

tr 2150 WBBC 93.5 VA Blackston (155);r s/off at 2200, annnc'd 0600 s/on
2215 WKXW 104.1 PA Allentown (114);m,\$ w/ad for Holiday Inn @ Bethlehem. WTPA more normal here

5-7-77

Es 1945 KSNS 96.1 LA Lake Charles (1111);k "Lake area Weather" and SID

Also noted during this early and brief Es opening was unn. KAPB 97.7 which was also the apparent MUF here. Also had unID on 91.3 w/local jazz prog. & promo for NPB programs.

tr 2035 WWOC 94.3 NJ Avalon (110) w/insipid "S-94" slogan. frequent mentions of nearby Wildwood are a tipoff.

5-17-77

tr 0435 WYVA 94.1 VA Yorktown (131);k
2130 WXDR 91.3 DE Newark (56);j had a fine signal, hard to believe this one had only 10 watts
2215 WJRZ 100.1 NJ Ship Bottom (144);r,\$ SID:"Jersey shore, WJRZ", freq. mentions of Manahawkin but never Ship Bottom at all
2245 WLRB 92.7 DE Rehoboth Beach (89)r\$ "the station other stns listen to", typical resort fare
2256 WOLC 102.5 MD Princess Anne (88) s/off, WEPG usually dominates this channel for me

5-20-77

tr WQXA 105.7 PA York (50);r thru local WKTK at 2330. "Q-106"

5-21-77

tr WMTR 88.1 SC Sumter (439) SC Educ. Net. local ID on 1/2 hr. fair-weak but the best tropo here in some time. 0615
0655 WTTX 107.1 VA Appomattox (169) hrd birthday wishes for the locals prog. followed by adress for annm'nts.
0725 WRIO 102.3 NJ Cape May (96) thru local WHFS w/rel prgm
0745 WJBR 99.5 DE Wilmington (69) \$ ID + "...stereo, FM 99 1/2", local ads
0800 WTJU 91.3 VA Charlottesville(123) jazz and UofVA anncts; apparently was commencement day; this is null of much stronger WXDR, which was very strng again this morning. also WUNC 91.5 in like the proverbial ton of bricks

5-22-77

0400 WRFM 105.1 NY NYC (177);m a rare occurrence. local WAVA off
0416 WDCG 105.1 NC Durham (250);r faint at first but built to good level, was kinda hoping for WPJB for much needed Rhode Island

5-30-77

0245 WHLM 106.5 PA Bloomsburg ;r ID & nx on hr. local WMAR off
Es 1625 KKJQ 92.9 ND Grand Forks ;r,\$ "Stereo 93, KDJQ" slogan
1638 KMSR 94.3 MN Sault Centre ;m,mono w/storm warnings for central MN

- continued -

BILL FEIDT (continued)

5-30-77 (cont.)

Es 1642 KBMO 93.5 MN Benson ,mono w/local events incl. obituaries & Vacation Bible School schedule; mentions of Benson, Hancock, & Denver
 1645 KCCM 91.1 MN Moorhead ;c,\$ solid signal with mx and storm warning; Minn. Public Radio and local ID on the hour & into "All Things Considered".
 1725 WMYK 93.7 NC Elizabeth City ;r "K-99" slogan, spots almost exculsively for Tidewater VA firms; good instance of Es induction tropo, this faded shortly after end of Es.

The last couple of days we have had weak Es openings to Maritime Canada. The MUF doesn't seem to be getting much higher than channel 3 or 4, but it isn't so easy to tell, given the paucity of stations in that area. Hope to have much nice Es to report next month. 73 (Most, if not all, of Bill's report is of new stations for him. Thanks for the report. ..dsc)

CLINT McAULIFFE 1103 7th St. Apt. 6E, Greeley CO 80631 MDT

Equipment: Pioneer SX-636 receiver, SCA adapter, Jerrold 14-element Yagi at 30 ft. I am glad the Es season finally got started again. My SCA adapter is helping me ID some of the time; I have included stations that have SCA in my log. Underlined are relogs.

4-23-77

tr 1130 KVSR 97.9 SD Rapid City (270);g
 1205 KKLS 93.9 SD Rapid City (270);r,\$

4-24-77

tr 1348 KUPK 97.3 KS Garden City (270);k
 1350 KULL 94.5 KS Scott City (270);m,\$

4-28-77

Ms 1150 KWFC 97.3 MO Springfield(650);g,\$

5-11-77

Es 1210 XHPE 97.1 Coa Torreon (1050);m\$

5-15-77

Es 1215 XHSR 97.3 NL Monterrey (1060)m,\$
 to XHRL 98.1 NL Monterrey (1060)m,\$
 1320 XET 94.1 NL " " mr,\$
 XHSRO 92.5 NL " " m,\$
 (both XET & XHSRO music SCA)
 XHPJ 106.9 NL Monterrey (1060)m
 XHSP 99.7 NL " " m

5-21-77

Es 0855 WTOC 94.1 GA Savanna (1440)k,\$
 to 0910 WJCL 96.5 GA Savanna (1440)m,\$
 +music

Not much activity here in the arid West. I did listen to several stations south of here in Pueblo and Colorado Springs that I do not normally pick up, but they hardly qualify as DX. Come on E-skip!! Plans for this summer include mounting the antenna vertically and building Peter Sawatzky's timer. I have added SCA to my receiver and hope it will help in identifying some stations. School and working a full time job leaves little time for DXing, but after early June things will get better.

Good DX, Clint (Good luck with your summer plans and thanks for reporting ... dsc)

STEVEN C. WISEBLOOD 707 Loma Way, Santa Maria CA 93454 PDT?

Receiver: has 200kHz selectivity

4-23-77

Es 1645 KAFM 92.5 TX Dallas ;p
 1646 KFJZ 97.1 TX Ft. Worth note
 new calls!
 1706 KSVP 92.9 NM Artesia end Mu-
 tual news
 1755 KSET 94.7 TX El Paso ;m Id as
 "K-SET, FM-105, E.P."

FM totals now at 419. Many thanks for the report, Steven ... dsc)

6-1-77

Es 1110 WJJM 94.3 TN Lewisburg (1030)k ID
 to WRAS 88.5 GA Atlanta (1200)pr,\$ ID
 1120 WMBW 88.9 TN Chattanooga (1120)g
 WFOX 97.1 GA Gainesville(1230)r,\$
 +tone

6-5-77

Es 1301 WSIE? 88.7 IL Edwardsville (780)c
 \$, +WWV time
 1305 WMOT 89.5 TN Murphreesboro (1050)j
 \$, ID
 1310 WJJM 94.3 TN Lewisburg (1030)k
 1311 WPAD 96.9 KY Paducah (900)pr,+music
 1320 WGGC 95.1 KY Glasgow (1040)k
 1335 WMIX 94.1 IL Mt. Vernon(850)m,\$
 +music, ID
 1336 WHIC 94.3 KY Hardinsburg (990)k,\$
 Heard several more stations, but I want
 to see what other DXers come up with for
 the same dates and times to help identify
 some of them. (You can probably get some
 help with your unIDs thru the CCI column,dg)

Antenna: 6-element yagi at 15 feet

4-23-77

Es 1801 KRCT 94.3 TX Ozona ;r ID
 1808 KNFM 92.3 TX Midland ;m with
 "Saturday Night Bandstand"
 1828 KITY 92.9 TX San Antonio ;p
 1830 KSAQ 100.3 TX San Antonio ;r

Report covers 4-20 to 5-7-77.

Report covers 4-20 to 5-7-77.

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Be in Portland August 5, 6 and 7!

DOUG EVERITT		1710 W Maine, Enid OK 73701		CST/CDT
Equipment: Kenwood KT-8007 tuner, 10-element FM yagi at 35'/10.6m, CDE rotor				
Report covers 4-6 to 6-5-77. Very large number of tropo relogs have been omitted.				
4-16-77			5-11-77	
tr 1220	KBMF 98.3 TX Spearman (200mi/320km)	Es 1354	KRFH 101.1 CA Los Angeles/KCOP-13 ad	
5-3-77		1356	KJLH 102.3 CA Compton ,s	
tr 1250	KTQM 99.9 NM Clovis (330/530)	1357	KJLH? mixing with KJLH (10w booster)	
1255	KMTY 99.1 NM Clovis (330/530)	5-12 to	5-27-77 out of town	
1300	KACV 89.9 TX Amarillo (230/370)	5-29-77		
	KDJW 94.1 TX Amarillo (230/370)	tr 2333	KIOU 96.5 TX Corpus Christi 960km	
	KGNC 97.9 TX Amarillo (230/370)	2356	KZFM 95.5 TX Corpus Christi 960km	
	KWAS 101.9 TX Amarillo (230/370)	DFW	FMs at local level, Lubbock good	
	KBMF 98.3 TX Spearman (200/320)	5-30-77		
5-5-77		tr 1005	KNCT 91.3 TX Kileen 610km;m nx	
tr 0915	KRMD 101.1 LA Shreveport (370/590)	1046	KTAL 98.1 TX Texarkana 500km	
0920	WJMI 99.7 MS Jackson (530/850)	1055	KRMD 101.1 LA Shreveport 590km	
	KNOE 101.9 LA Monroe (440/700)	5-31-77		
	KDBS? 100.3 LA Alexandria (490/780)	Es 1008	WMCU 89.7 FL Miami	
5-9-77		WLRN	91.3 FL Miami	
Es 1945	WSHA 88.9 NC Raleigh	6-1-77		
5-11-77		tr 0830	KACW 99.3 TX Paris 380km	
Es 1320	KYOR? 100.3 CA Blythe	0835	KDSX 101.7 TX Denison 350km	
1333	KLUC 98.5 NV Las Vegas ,j		KMMK 95.3 TX McKinney 380km	
1341	KUSC 91.5 CA Los Angeles	0840	KTCL 89.1 TX Ft. Worth 420km,j 10w	
1342	KXLU 88.9 CA " ,r		KNTC 88.5 TX Denton 350km	
1345	KFAC 92.3 CA " ,c		KRSM 88.5 TX Dallas 420km,Tk 10w!	
1347	KNX 93.1 CA " ,r	6-2-77		
1348	KMET 94.7 CA " ,p	tr 0850	SW Missouri local level	
1350	KFSG 96.3 CA " ,g	0900	KRGK 104.9 MO Carthage 350km,m	
1351	KJOI 98.7 CA " ,m	0905	KLTB 106.3 MO Bolivar 480km strong	
1353	KPFK 90.7 CA " ,Tk	0910	KRMS 93.5 MO Osage Beach 480km,r	
	KIOQ 100.3 CA " ,r	6-5-77		
		Es 1005	CFMO 93.9 ON Ottawa sports, wx	
			CKCU? 93.1 ON Ottawa mx w/sitan p?	

A very nice tropo opening on May 5th, but I had two problems hindering my FM DXing: (a) preoccupation with UHF activity, and (b) lack of time. I could have been working FM from as early as 0600, but (like I said) I get preoccupied with TV. On the VHF band, things were hopping, with SW Texas stations easily overriding locals and semi-locals, so I know FM would have been good, had I checked earlier. By the time I did tune in, the band was open mainly into LA & MS, whereas UHF was good in several directions. It's interesting to note the differences in propagation of FM and the TV bands by tropo.

I'm beginning to wish I'd been in town during the middle of May, since we apparently had a good bit of Es, according to other local DXers. I'm trying to recruit new members; there appears to be a rather large number of part-time FM DXers here in Enid. Prospects for SFM, hi ... (WTV for the TVers, hi). That's it for now
73 & Good DX to all, Doug (Thanks for the report, Doug, and good luck recruiting!)

MIKE DORNER 1409 Hymelia Av., Metairie LA 70003 CST/CDT?

Equipment: Heath AR-13A, Cadco preamp, Radio Shack antenna with two driven elements at 20 feet AGL. Report covers 8-22-76 to 5-29-77.

1976 ended as it had begun, a generally mediocre year with little E-skip, almost no tropo, and an increasingly cluttered band here deep in Dixie on the Gulf Coast. No new stations were copied for three months, despite daily checks. Often Lake Charles barely could be heard, and openings past Mobile were almost nonexistent. Spectacular tropo into Arkansas and Tennessee failed to materialize, except for a memorable two day opening in early August. All stations listed are new loggings, unless noted otherwise.

11-29-76

tr 0155 WAJB 107.3 FL Pensacola \$, atmted mor "The Entertainers", 24 hrs

12-13-76

tr 1825 WBHM 90.3 AL Birmingham \$, new NPR, new on air; Lone Ranger, promos, cl mx at 1900. Schedule heavily cl.

12-20-76

MS 0118 KIOO 104.5 NE Omaha if not first, second MS station. Submerged semi-local WHSY briefly.

12-27-76

new in \$: WTAM 102.3 MS Gulfport ;s,24hrs WOSM 103.1 MS Ocean Springs ;g both relogged

Mike Dorner (continued)12-27-76

gw 2133 KQKI 95.3 LA Bayou Vista ;k,\$ "conducting secondary equipment tests."
new station. Old KFRA freq. (now 105.5)

1-4-77

gw 1446 WRES 105.7 AL Troy ;k,r atmt'd \$. Old WTUB; off air for about a year, says
Broadcasting. relog
1812 KJEF 92.7 LA Jennings now \$ with "All American Country"

1-5-77

tr 1211 KPFT 90.1 TX Houston Midday report, stn promos. Appears to be less radical
than in past; Pacifica exec tells me stn has been faltering and
they're trying to turn it around. No surprise -- Houston isn't
Berkeley. Relog

1-8-77

tr 1059 WYOR 105.1 FL Coral Gables \$,mor atmt'd. relog
1101 WMCU 89.7 FL Miami \$ out of M nx, Luncheon speaker. Came in on tail end
of fine FL opening. New logging #476

1-28-77

tr 0848 KLUF 105.1 TX Longview \$, atmt'd bm, spots

2-7-77

Es 1902 unID 89.7 central Plains, Dakotas? \$,r "The Place to Be" slogan
repeated frequently.
1920 KHHS 88.1 KS Hillsboro r,mono live anncr. 10 watter! Excellent strength
next to local TV-6. Record! #478
1942 KBVL 94.1 CO Boulder ;c,\$ w/promo #479
1954 KUVR 97.7 NE Holdrege ;p,A mono live anncr
2030 KUNM 89.1 NM Albuquerque ;r,N,\$ YL anncr
tr 2100 KRVS 88.3 LA Lafayette ;r,U,\$ YL anncr. relogging but never at such strgth
I wasted two great hours fooling around with ed-FM stns; KHHS went
almost an hour of live DJ patter without an ID. Ed-FMs better learn
to promo if they wish to create an audience.

3-28-77

tr 1915 WMSU 91.1 MS Hattiesburg. mono; Israel Bc. program; jazz. relog
1935 KSLU 90.9 LA Hammond ;r mono Both KSLU & WMSU are 10 watters.

4-12-77

tr 1937 WRJH 97.7 MS Brandon mono with gospel mx, ads. Usually \$ in later loggings

4-20-77

tr 0153 WHKW 98.1 AL Fayette ;k,\$ live anncr. w/psa. First time in several years
of trying. #482 (this station was off several months last year, too.
Transmitter used to be in Kennedy AL and I assume it still is ... dsc)
0206 WCRT 96.5 AL Birmingham M nx, \$ this time. Most B'ham stns were in. All,
incl. WCRT, relogs. (Correct calls are WQEZ. WCRT/WQEZ are sister
stations and WQEZ is FM outlet. Both station's calls are used in
certain promos, however, such as a contest (during April, as a matter
of fact)they conducted jointly. ...dsc)
Note the gaps of a month between these openings; in ordinary
Springs, the tropo is un real.

5-19-77

tr 0853 KBED 92.7 LA Lake Providence ;r,mono live anncr, low modulation
0858 WNJC 90.1 MS Senatobia r mix, ID, promo for nx, NPR nx at 0900. First
time received in several years of trying. #485
1940 KXKZ 107.5 LA Ruston ;r,\$ Old KRUS 107.1 new stn #486
2228 KETX 92.1 TX Livingston ;k,mono First time in several years. relog
2304 WABO 105.5 MS Waynesboro \$, w/ sign off, relog
2305 KVVP 105.5 LA Leesville \$,bm promo new on air #487
2330 KMBQ 93.7 LA Shreveport ;r,\$ rare relog
2337 WJSU 90.7 MS Jackson ;j,\$ promo, 10 watts #488
2342 WHJT 93.5 MS Clinton \$ w/BB game, nx, psa, s/off Thru local WQUE sb.

5-20-77

tr 0004 KJCS 103.3 TX Nacogdoches ;k,\$ "The Country Giant", rare, relog
0605 WJDB 95.3 AL Thomasville mono with nx & spots //AM
0608 WKNU 106.3 AL Brewton mono w/sports nx, spot. New on air, #490
0616 WHOD 104.9 AL Jackson ;k,mono w/spots //AM
Es 1005 KLGA 92.7 IA Algona mono w/local nx & ads. Brief opening lasted less than
ten minutes. stn # 491

5-26-77

tr 0210 WJAZ 96.3 GA Albany \$, bm, 24 hrs. drops soul. mono

Mike Dorner (continued)5-27-77

Long awaited tropo opening in Rio Grande Valley, Texas Gulf Coast
 tr 2348 KDUV 100.3 TX Brownsville, m,\$ lots of ads, new on air, # 492
 2358 KESI 107.9 TX Edinburg ;m,\$ relog

5-28-77

tr 0005 KSIX TX Corpus Christi \$, w/sign off, relog, 93.9MHz
 0030 KELT 94.5 TX Harlingen ;r,\$ relog

5-29-77

tr 0255 KSPL 95.5 TX DiBoll ;k,mono Extremely rare; old station the operates at
 far less than Class C minimum ERP. 24 hrs. relog

As you can see, it is only in the last week that anything like the usual, almost daily Gulf springtime tropo has been in. As I type this, Lake Charles and Beaumont are in at almost local levels. It's been a long drought; it's great to get some relief! (Mike notes also that at the end of May some fantastic tropo into DC, NY, and the upper Midwest occurred, but did not have time to get us the details in this report. Thanks for the report, Mike, and we're looking forward to your next report.)

TED FLEISCHAKER 3023 Tremont DR, Louisville KY 40205 EDT
 New ones since 5-1-77 Phone: (502)-454-3191

5-1-77

tr 0200 WVJC 89.1 IL Mt. Carmel ;r&p second day of tests with new 50kw power

5-2-77

tr 0920 WBNL 107.1 IN Boonville w/odd mx including rel. and mor. Also sermons hrd.
 Tough catch w/local WVEZ on 106.9 NSP.

5-4-77

tr 2346 WCOL 92.3 OH Columbus in very briefly with ID and little else

5-23-77

tr 0015 WKTA 106.9 TN McKenzie ;g local WVEZ off air to power failure at their xmtr.
 in well with rel. format

0047 WDZQ 95.1 IL Decatur ;k automated style

6-6-77

Es 2045 KRCS 93.1 SD Sturgis ;m freq IDs & beautiful mx -- very clear at times
 with meter topping. Stayed in until after 2345!!!

2048 KKHJ 93.9 SD Rapid City ;r ID as "double K-H-J"
 2053 KBRX 92.7 NE O'Neill ;m with community calendar, beautiful music on "Evening Serenade" show

2107 KWYR 93.7 SD Winner ;m ad for lumber yard

2124 KAWY 94.5 WY Casper with jazz show and ad for Allied Van Lines. Rock steady for over 30 minutes in several rechecks.

2130 KVSR 97.9 SD Rapid City w/rel show "Morning Chapel Hour" on repeat of morning schedule.

2134 KROE 94.9 WY Sheridan ;r with Wyoming State Bank & Coke ads. ID as "FM-94".

2145 unID 100.3 SD Rapid City new station apparently as no call in Atlas and their only ID was "KG-100". Anybody got a call?

2203 KCLK 94.1 WA Clarkston w/wx and C&W mx. Tire ad for Berneal Tire at 2205.
 Best FM catch ever for me from here. Likely double-hop??

2206 KNEB 94.1 NE Scottsbluff ;m mx and ID heard briefly under KCLK at times.

The Washington FM was a real surprise and one I thought I'd never hear, ever — suspect a double hop due to the distance from Louisville, but can't be sure. The skip was also good on TV, but the furthest was KTW0-2 Casper WY, so for once FM seemed to have an edge! If this is any indication, we should have a heck of a season this year! 73s to all!! Ted

Conditions here in Birmingham have been improving as they have in most other areas, but, unfortunately, I have not been able to DX as much as I would like. The TV is all but useless for DXing purposes due to CATV radiation and my FM receiver is just now being set up after being packed up for our move. Spot checks with a portable have indicated several days when the Es was well into the FM band, though.

My sincere apologies to all concerned for not getting SFM out last month. My job made some unusual demands on my time that prevented work on the column. Such problems should not recur in the future. All reports sent for the June issue have been included this month.

Don't forget the new address, and Best of DX

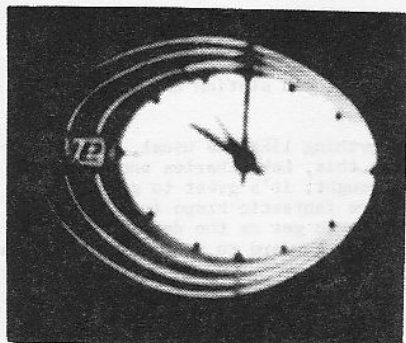
73s, Dave

PHOTO-NEWS

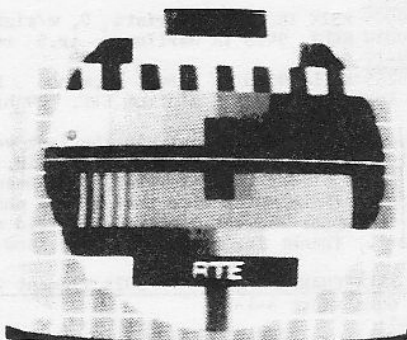
Jim Alexander
4 Brook Court
Parsippany, NJ 07054

July, 1977

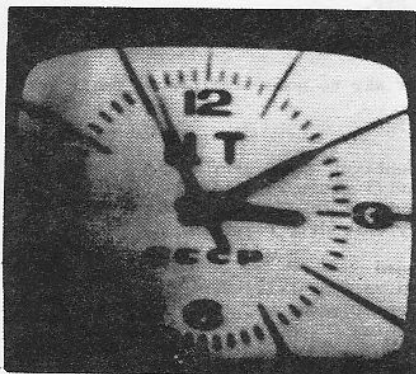
Feature: Foreign TV



TVE, Spain



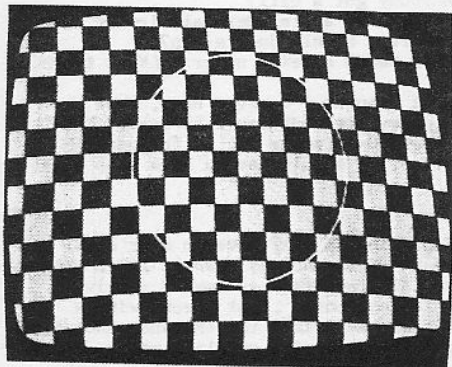
RTE, Spain



from the USSR



Tele Radio Torino International
UHF from Italy



Video Gruppo Torino
UHF from Italy

The photos of Spanish and Russian TV were taken by European TV-DXer Heins-Philipp Schon, and forwarded by WTFDA Hq to your editor. The photos of TV from Italy were taken by Dario Monferini in Milano, Italy, and forwarded by Ken Simon.

If this year's E-skip season brings you any special DX, be sure to photograph it and send a print here. Who knows -- if both DX conditions and the photographers in the club come through, we could bring you a photo of high-band E-skip for the third consecutive year!

73 and good DX, *Jim*

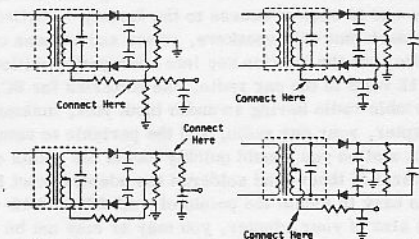
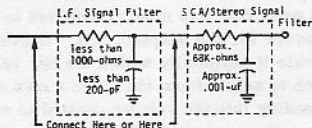
Ah, the joy of probing into a radio
 And discovering a whole new program!
 So different from the main channel—
 There all the time, only awaiting
 The magical touch to unlock the
 Elusive, expansive world of SCA!

Installation of SCA into a radio is a fairly complicated procedure, but one that need not take a lot of technical expertise. I have, in fact, gained quite a bit of knowledge, and made several mistakes, in the process of forcing myself to become expert at installing SCA in a variety of sets. This article should help you to install SCA in your radio or radios, regardless of the level of your electronics knowledge; or it will arm you with more information if you want to have SCA but would rather have somebody install it in your radio or radios for you. And it should help you decide which, among the various SCA adapters and receivers on the market, is best for you.

General Tips

The SCA signal is obtained before the receiver's de-emphasis network. This is the same point where the FM stereo signal is derived. If your set has a jack marked "stereo out," "MPX out," or in the case of many of the newer receivers, "4-Ch. MPX Out.," you have a ready point for connecting the input of your SCA adapter to. Older sets produced around 1960-63 without stereo will usually have a "stereo out" jack, a few portables have it (notably, some of the Sanyo, Panasonic and older Wards Airline models), and new receivers have a jack in anticipation of the FCC's approving a system of discrete quadrphony. SCA will not work off an oscilloscope output jack.

If, however, your set does not have such a jack, you are going to have to find the point of SCA adapter connection by going into the set (and if it is a new set, violating the set's warranty in so doing) and examine its component layout. Having a schematic diagram of the set's circuit will simplify this task. Look for a resistor and capacitor in combination like that pictured, with a lead coming out of the secondary of one of the last transformers in the set. If you do not have a schematic, look for a 68,000-ohm or similar value resistor (it will generally be a resistor whose third band from the end is orange) near a small (.001 mfd) capacitor.



Usually with transistor sets it is quite safe to detect the best SCA points with a probe—after first finding the general neighborhood within the set as described

above. First make sure you have 9 to 12 volts of power going into the adapter (batteries are fine for this testing), and the SCA out from the adapter going into headphones, an amplifier and speaker, or a portable radio with an audio input jack. Make sure you have the SCA adapter grounded to the radio you are trying to detect SCA from, as well as grounded to the radio or amplifier you are playing the sound into. Use a sharp, stiff wire for your probe, and go ahead and poke! Grasp the wire by its insulation. Even if you should happen to hit the 12 volts no damage should be done to the adapters described in this article, so there is virtually no danger to your equipment or to you, as long as you follow common sense, and do not try to send the 110-volts found at the line cord input of a plug-in set into your adapter, or fool around with tube equipment without using a VOM to find sources of high voltage that could do great damage.

You may have to scrape paint off the leads going to the resistors and capacitors in many sets in order to make a good test contact. After a little trial and error you should find several points that give SCA. Some of these points will give distorted sound, and obviously are not the right places for connection. Others (usually only one or two in the average radio) will give clear, clean SCA. Be

sure when doing this experiment you are tuned to an FM station that is broadcasting an SCA program, that this station is correctly tuned in, and that it is a strong local station with no multipath or other distortion that could impair your detecting SCA when you do find the point for connection. It's good to be reasonably certain your adapter is working correctly, too. To be sure that you have a station actually broadcasting SCA tuned in you could call them and ask if their SCA is active and what is being programmed on it.

Once you find the point of SCA connection you should then try to find a good source of 9 to 18 volts input to power your adapter. Most stereo receivers do have points of 12-volts' connection indicated on their schematic, or readily found using a volt-ohm-milliammeter. After connecting your adapter to one of these points measure the voltage again and note whether the adapter significantly reduces the voltage. If so, you may have to go to external power, such as building a small 110-volt power supply, or resorting to batteries for SCA use. The audio output can then be sent to another amplifier, or if your receiver has a tape monitor position it will work fine in that position. Some cheaper receivers have to be re-wired to some extent in order for the set to play SCA through their speakers without switching off FM. Virtually any FM radio can be modified to include SCA, but some sets are infinitely easier than others to modify.

SCA Installation in a Stereo Receiver or Tuner

Most of the tips presented previously apply to this type of installation. For tuners, such as the Sony ST5130, I find it helpful to mount the SCA adapter inside the tuner's cabinet, in a vertical position, and held to the chassis with small L-shaped brackets and self-tapping metal screws. The output of the adapter I sent to a jack formerly used for "oscilloscope out." Since I never intend to use an oscilloscope, it was handy to use this jack for the new purpose, and if I should ever get an oscilloscope I can reconnect the necessary wire and temporarily disconnect SCA. A patch cord from the SCA jack on the tuner to an auxiliary input on the amplifier is all that is needed to complete the installation.

SCA Installation in a Car Radio

The main difficulty here is removal of the radio from the car's dashboard, which is complicated if your radio is above air conditioning and heating equipment. One thing I have looked for in buying a new car is ease of access to the factory-installed AM-FM radio. Once you have the radio away from the dash (but with speakers, power and antenna connections still made), remove the top cover of the radio, put the ignition key into accessory position and commence probing! Until you locate the point of 12 volts in the car radio, use batteries for SCA adapter power, and play the SCA adapter into a portable radio having an audio input jack, making sure a ground connection runs between the SCA adapter, your car radio, and the portable to complete the circuit. Playing the car radio on an FM-SCA station you should quickly locate the points of SCA adapter connection. I found them instantly—several of them—and soldered the adapter input lead to the point that was most convenient to use. It was easy to locate the points of well-filtered 12-volts DC power for the adapter, too. Depending upon the size of your adapter, you may or may not be able to locate it physically within the car radio itself. Either way, inboard or outboard, you'll need to use a switch to select from the radio's own output or the SCA adapter's output. You will have to find the wire leading into the volume control to sever to introduce the SCA output. I have found this wire experimentally, severing different connections and using the output jack of a portable radio with a patch cord to inject a signal into the car radio. Once you find where to make this connection, the rest of the problems are mechanical, such as deciding where to install the switch, whether holes will have to be drilled, etc. Care must be taken in mounting the SCA unit and the wires leading to or from it so that they do not make contact where they should not. I "mummified" the SCA unit in my car, wrapping friction tape all around it so that unintentional shorts would not develop. With my particular car there was serious difficulty with feedback when the switch was turned to SCA: a loud, deep growl. This was finally corrected only after trying out various sizes of electrolytic capacitors between the set's source of 12 volts and ground. It took 9,000 microfarads of capacitance to do the job! To get 9,000 mfd I had to use a 5,000 mfd and a 4,000 mfd capacitor mounted in parallel (you increase capacitance by mounting in parallel, rather than in series). This experience may not be typical, since another person I know with SCA in his car (John Ebeling) merely connected his SCA unit to his car radio and no additional capacitance was needed. So you'll have to experiment to tell whether your installation may or may not need this extra treatment.

Another problem with SCA in the car is that alternator or generator whine can be very bad—unless your SCA derives its power from inside a well-filtered car radio for its 12 volts. You cannot just connect the SCA adapter to the car's "accessory" point on the firewall and expect it to work—at least

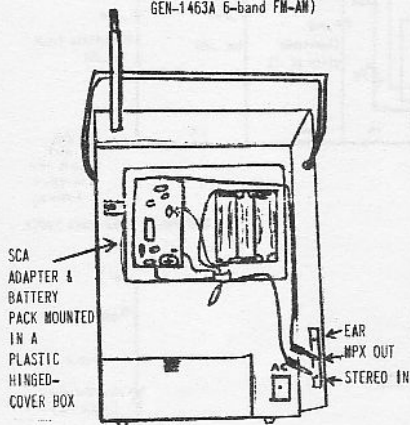
while the car is running. If your car radio or FM converter is not well-filtered, chances are you'll have to resort to batteries for SCA use. Experimenting with chokes and filters will probably not be fruitful for mobile SCA.

Once installed in a car radio, SCA should be quite good, depending upon your car radio's local station overload and ignition rejection features. Any sources of external interference that may barely be noticed on regular or stereo FM will be considerably magnified when listening to SCA-FM. Some adapters with a potentiometer adjustment may benefit from periodic readjustment, especially for the weaker signals. For this purpose, it may be helpful to poke a hole through the chassis of your car radio to permit a screwdriver to be inserted for the adjustment, or a hole large enough for the potentiometer itself to poke through.

SCA Installation in a Portable

Definitely the most challenging and difficult of all SCA work is installing it in a portable. Results here can also be the most discouraging. Certain portables are most easily entered and SCA installed; others may not only be difficult to enter, but may be too narrow-banded to respond well to SCA. At this writing, I would not recommend installing SCA in one of the newer portables having ceramic IF filters. These sets all appear to be too selective and narrow-band to permit decent SCA (which is way out at 67 kHz from the center of an FM station's channel).

ADDITION OF OUTBOARD SCA ADAPTER TO A PORTABLE RADIO (back view of Wards GEN-1463A 6-band FM-AM)



The best portables to put SCA into appear to be those with poor selectivity (including those with a "MPX out" jack, and supposedly designed to have a wide enough bandwidth to permit stereo reception, and theoretically, a wide enough bandwidth for SCA, but not necessarily so). Many older portables are good for this reason. Another thing to look for is good spurious signal rejection, so that you can extend the portable's antenna for maximum signal pickup without local station overload creeping in to destroy any chance for decent SCA. Finally, a portable with a 9-volt power supply derived from C or D cells is probably best, as you should be able to tap into the existing power without need for any external battery pack for the SCA, and if the set is AC-DC you could use it equally well "on the mains" without special batteries for the SCA. It

helps, too, to have a set that is fairly hollow inside for room to install the SCA unit. Otherwise, a bubble on the back of the portable will have to be resorted to in which the SCA adapter, 9-volt battery and switch repose.

Seldom will you be able to receive "DX" SCA programs on a portable—unless you find one with all the characteristics above. Most will perform well within the 3.16 mv/meter industrial area of an FM station, but reception up to and slightly past the 1 millivolt primary is about the best you should be able to expect. Still, for local listening to Muzak or to talking books for the blind, etc., a portable is ideal, and provides about all the audio output and fidelity SCA has to offer.

I have two portables with "bubbles" on their backs that permit SCA reception (see illustration). The other portable I have SCA-itized is a new Zenith with adequate interior space for SCA, except that I had to add a small 9-volt battery. This I installed in the cavity on the back of the set where the power cord wraps up. The DPDT switch (drilled into the side of the radio) selects either normal radio reception or SCA, with the SCA battery disconnected by the same switch that selects either main or SCA audio to the radio's amplifier and speaker. There is a drawback to this arrangement, however. Whether the radio is operating on batteries or AC, there will be drain to the SCA battery when it is played on SCA. And you have to turn the switch off SCA when turning the radio off; otherwise, the SCA battery will continue to drain.

SCA Adapter Reviews

If you'd like to build an SCA adapter from scratch (and one that is not difficult to put together), at a cost of about \$10, look at the schematic on the next page. Wires are sketched out in the approximate

position where they should go. It can be built on a perforated circuit board as small as 2 1/2 by 3" and having .42" holes. It is best to solder into a 14-pin integrated circuit socket rather than into the IC itself, because

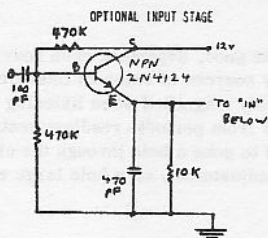
it is very easy to burn out an IC with heat—even the heat emitted by a low-wattage soldering pencil. The "optional input stage" seems to do nothing to increase the unit's sensitivity, and can be dispensed with. However, the optional input stage is very necessary for adequate audio gain. Values given are not critical, and you may want to experiment with different value capacitors, or even try leaving some resistors and capacitors out of the stage leading up to "SCA out" for different effects.

You may, however, want to avail yourself of a commercially-prepared kit or already-wired SCA adapter. Reviewed here are adapters that can be connected to virtually any type of FM radio or receiver, and that permit the reception of all stations in a given area having a 67-kHz signal. Ruled out of this review are several models of professional tuners, radios and SCA background music systems which are crystal-controlled, and normally capable of receiving only one SCA station. Most of the latter have a switch that permits hearing the station's main carrier as well as the SCA, but again reception is confined to one station. It is my feeling that readers of this article are mostly interested in hearing a variety of stations—for their normal listening, on trips, and in connection with FM DXing. They are not interested in confining themselves to only one local SCA station. While all the units reviewed here are very good in their performance, it should be noted that none of them may be as good for specific listening as a high-cost professional SCA receiver. For example, there may be somewhat more crosstalk on some of these than you would expect on a professional unit, and tuning SCA (especially on a portable) may be slightly tricky, requiring some detuning off the center of a station's FM channel, but these should only be minor annoyances.

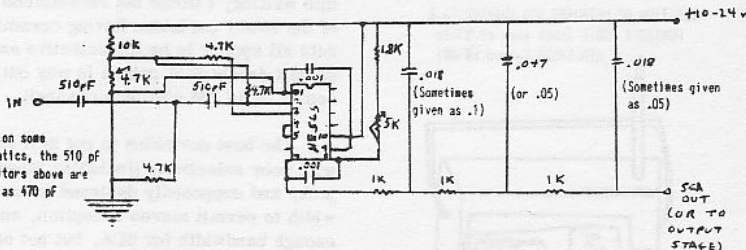
From the chart which follows, you should be able to tell which adapter will suit your needs best. One other item worth mentioning is that all of the adapters listed include an audio amplifier, delivering preamplified power into your amplifier (usually on the order of .5 volt). The simple adapter above, without the optional output stage, has no amplification and will not perform into headphones, or into portable radios when you sever the volume control wire, whereas the amplified adapters will.

FM SCA (67 kHz) ADAPTER

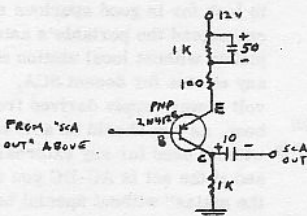
SCA means "Subsidiary Communications Authorization," commonly referred to as an FM subcarrier or as SCA multiplexing.



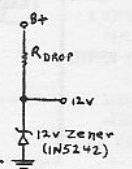
MAIN SECTION OF ADAPTER



OPTIONAL OUTPUT STAGE



OPTIONAL FM TUNER POWER SUPPLY



Determine value of R_{Drop} by $R = \frac{E_{Supply} - E_{Drop}}{I}$

$$R = \frac{50 - 12}{.02} = \frac{38}{.02} = 1900 \text{ ohms.}$$

The Southwest Technical Products Co. adapter's output is somewhat weaker than is the output of the Cortlandt, Eico or Karkota adapters, but is still adequate for most purposes.

Some of the adapters work better at low voltages than others. The Karkota adapter is notable at performing well, even under 9 volts, while the Southwest Technical Products Co. adapter is not a good battery performer, even when using eight AA cells to give 12 volts. After your adapter has been assembled, it is best to position it so that its adjustable resistor (usually a 5,000-ohm potentiometer) or capacitor can easily be changed while it is in operation. It's best to make minute adjustments when tuned to the weakest receivable station having an SCA. This will insure maximum sensitivity and correct adjustment. The adapter illustrated on the previous page will need to have its adjustment changed as the battery it is used with weakens. Some have told me that these adapters are temperature sensitive, requiring different adjustments as the weather changes, but I have not found this to be true in practice.

One final point: there is one advantage in using an adapter without squelch, and that is you can easily tell which stations have an open carrier (telemetry) SCA. With a squelched adapter these stations and stations without any SCA sound virtually the same. Squelch is desirable, especially, when most of your SCA listening is to background music stations that turn off their SCA carriers between selections. It is not generally necessary for listening to services like talking books for the blind and Physician's Radio Network, which leave their SCA carriers on continuously when they are on the air with SCA. Good listening!

SCA ADAPTER COMPARISON CHART

Adapter	Fidelity	Sensitivity	Squelch Action	Crosstalk Rejection	Price	Remarks
Cortlandt Electronics 114 West Broadway New York NY 10013 Kit #KCA3	Fair	Fair	Poor	Good	\$10.95 kit	With volume control and on-off switch. Especially well-written manual that sells for \$1.00 separately. Mounts on two boards for better ease at installing in crowded places, but has a long, cumbersome coil.
Eico EC5000 kit Eico, 283 Malta St., Brooklyn NY 11207	Poor	Good	None	Good	\$12.95 kit	Mounts on large board; could be much more compact for space-conscious installations. Kit with modification can result in better fidelity.
Karkota/Communications Poly Services; 46 Grafton Road, Westford MA 01886	Excellent	Fairly good	Very Good	Fair	\$13.50 kit \$18.50 assembled	Mounts on compact board, 50 x 57 mm; 23 mm high at highest point. Works on 8-16 v; especially suited for 9-v portable radios. It alone among these SCA adapters does not use the 565 IC circuit, but uses instead a CA3089C, RCA 522 circuit.
Southwest Technical Products Co., 219 W. Rhapsody, San Antonio TX 78216. The 179S adapter.	Excellent	Quite good	Excellent	Good	\$29.95 wired; be sure to specify you want the model with squelch.	Requires a full 10+ volts and is not the best for use in portables or in places where space is at a premium. For \$19.95 they used to offer a kit, but kits are no longer mentioned in their advertising. They may have some older, non-squelch models around, so specify a squelch model if you order.
Music Associated, 65 Glenwood Road, Upper Montclair NJ 07043	Adapter not tested				\$64.50, wired for 110-volts; \$44.50 for car model.	Claims to have muting, good sound and "no cross talk."

References

- Cohen, Herb. "Experimenting with Phase-Locked Loops," Popular Electronics, Oct., 1975, p. 50. Includes an SCA schematic, which looks quite easy to build on a perforated board, but relies on the availability of a Miller 9060 coil, which is quite difficult to obtain from all but the best-stocked radio parts stores. Audio output of the adapter not amplified.
- Hille, Paul F., Jr. "FM Multiplex—Its Present and Future," Radio and TV News, February, 1959, pp. 58-61; 124-127. Gives schematic for a very effective early tube-type SCA adapter, which John Ebeling built, and still uses.
- Karkota, Frank P., Jr. "SCA Adapter Reveals Hidden Music and News on Your FM Receivers," Popular Electronics, Oct., 1974, pp. 43-45.
- Neal, G., and Wright, R. A. "Build a Practical SCA Decoder," Electron (Canadian), Nov., 1972, pp. 24; 52-60. Includes construction details for a very sophisticated SCA adapter, complete with muting and SCA indicator light. John Ebeling built one, and it has been tested in Duluth with excellent results. Not commercially available.
- Wood, Vincent. "Build an SCA Adapter for FM Reception," Popular Electronics, Dec., 1970. Describes an early version of the Southwest Technical Products Co. adapter without squelch.
- Catalogs showing crystal-controlled SCA equipment: Johnson Electronics, Inc., 62 South Highway 17/92, Casselberry FL 32707; and McMartin Industries, Inc., 4500 S. 76 Street, Omaha NE 68127. Includes a little booklet by Leonard E. Hedlung, SCA for FM Broadcast Stations.
- Parker, Lorne A. SCA A New Medium. Madison: University of Wisconsin Extension, 1969.
- "Decision Favors Multiplexers—Communications Act Protects Background-Music Programs, Federal Court Rules in Suit Charging Unauthorized Use," Broadcasting, Feb. 27, 1967, p. 86. U. S. Communications Act of 1934, Sec. 605. "Unauthorized Publication or Use of Communications," including notes to decisions by various courts.

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

July 1977

Deadline: 10th

Generally speaking, the summer E-skip season has been quite a bit below what many of us have come to expect. Most mid-continent May openings were fair-to-poor, and not especially memorable. All of this is just another way of saying what has been evident--the season got off to a sluggish start. DXer Harry Hayes makes a very pertinent observation about MUFs in his report. Those of us interested in high MUFs and very long duration openings were definitely not satisfied with May. However, Florida reporters consider that month to have been pretty good. This is only partially due to the fact that the Es season begins earlier in their regions than it does further north; skip activity noted in the southern U.S. may actually have been above normal for May. For all the areas of eastern North America, things were without doubt much more interesting in the first part of June. The first two weeks of that month saw openings that are much closer to the norm, including some of the more spectacular and unusual Es events--such as double-hop and highband skip. Several eastern DXers were in on cross-continent double-hop in the early hours of June 9th, and Jim Gould noted channel 7 Es on the excellent evening of June 6th. Just as this month's column is being prepared, a late phone call from Bob Seybold details the super June 14th skip. Bob reports reception of KTBC-7 Austin TX and KUHT-8 via highband Es, and to top it off, double-hop on lowband deep into Mexico! We'll have an Es chart next month--you can help make it more accurate by sending in a report. Regarding tropo activity: it was quite good in May in many regions, especially the Midwest-Great Lakes areas at mid-month.

Bill Hepburn 5659 Highland Avenue Niagara Falls, Ontario L2G 4X2 (EST/EDT)

April		8 Tr		0729 WFTN-6 OH 295		21 Tr		0720 CHLFT5-15 ON 115	
10 Tr	0705	WGPR-62 MI	T	0817	CKNX-8 ON			0721	WVNY-7 NY 170
		CHLFT2-40 ON	110	0831	WKBN-27 OH 155				GJOH1-6 ON
		WTVS-56 MI	T	9 Es	1640-1956 unIDs	2-4			both snow free
13	0706	WFTN-6 OH	295	12 Tr	0731	CKGN-29 ON	160	0727	CHLFT2-40 ON 110
14	0711	WUAB-43 OH	T			WVNO-45 OH	T		CKCO3-42 ON 165
	0713	WYXI-25 MI	245		0733	WFTN-6 OH	295	0756	CKGN-29 ON 165
		CHLFT2-40 ON	110		0739	WVNY-7 NY		0912	CKWS-11 ON 150
	0714	WVNY-7 NY	170			CHLFT5-15 ON	115		WNPE-16 NY
15	0658	WVNS-5 OH	165	Es	1540	unID-3			Watertown 170
26	2121	WKBN-27 OH			1600	MUF ch 4			WNPI-18 NY
		WYTV-33 OH		13 Tr	0734	CKCO2-2 ON	155		Norwood 240
					2108	CKNX-8 ON		0917	WVNY-25 MI 245
					2200	WGTQ-8 MI			WKB-50 MI T
						Detour		0921	WUTR-20 NY
									Utica 200
									unID 2-4 CCI
								Es	1730 unID 2-4 CCI
								24 Tr	0714 CHLFT5-15 ON 115
									0717 GJOH1-6 ON
									CHLFT2-40 ON 110
									0701 WVNY-7 NY 170
									GJOH1-6
									Syracuse V's
									all snow free
									0731 CKGN-29 ON 165
									CKCO3-42 ON 165
									0802 WNPE-16 NY 170
									0805 WAKR-23 OH 185
									Kingston 150

"It seems that the DX season has been fairly good so far. Excellent tropo, for my equipment, was received on May 21st & 25th. 4 new stations were seen on the 21st...13 new stations have been received thus far bringing my log total to 82 plus many unIDs. Es has been seen occasionally...73 and good DX."

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

May		June		5 Es		5 Es	
17 Tr	2300	WYAH-27 VA	295	2 Es	1720	unID-3	"tenta-
18	0020	WERO-15 VA	280				to
21	0830	WXEX-8 VA	275				WBUD-3 FL
		WCVE-23 VA	275				p.m. WTVJ-4 FL
		WYRO-15 VA	280				1700 WBRZ-2 LA
		WYAH-27 VA	295				1730 KYTV-3 MO
							1830 WLBT-3 MS
22	0230	WRC-4 DC					WSB-2 GA
		Washington 175	5				Atlanta
							10 1830
							CJOX-3 NF

John F. Combs 816 W. Harvard Orlando, Florida 32804 (EDT)					
<u>May</u>		16 Es	1720 KGBT-4 TX 1023	31	0900 WDAF-4 MO 1048
4 Tr	2240 WRBA-14? SC T		1723 XEFD-3 NL 1185		0920 WKYC-3? OH T
5	0050 WNOK-19 SC 392		1735 KRGV-5? TX T		0930 "left for school
6	0915 WECA-27 FL 221		1759 X--- 4 YUC 800?		...scads of unIDs"
7 Es	1535 unID-2 "CGI... no time to watch"		"Net-13"	<u>June</u>	
8 --	"All antennas down & packed in prepar- ation for move... back to the ol' re- liable bunny ears"	1802	XHY-3? YUC T	2 Es	1110 "t/in...full blown opening 2-6 and into FM..."
9 Es	1750 KQTV-2? MO T	1820	WAPA-4 PR 1184		1110 WCVB-5 MA 1100
	1805 KTVO-3 MO 1039		WKAQ-2 PR 1184		WNEW-5 NY 942
	1822 KMOX-4 MO 864		1830 WLPM-3 PR 1156		WNBC-4 NY 942
	1826 KMTV-3 NE 1209		1833 WLPR-6 PR		WFSB-3 CT 1034
	1915 KGLD-3 IA 1264		San Juan 1184		WCBS-2 NY 942
	1958 KLEB-3? NE T	18	1645 YSRB-2? E.S. T		WEEV-6 MA(RI)
11	1655 KFDK-3 TX 1078		1742 TGV-3? GUAT T		New Bedford 1070
	1745 XEFD-3 NL 1185		"all sigs vy weak"		1120 WSYR-3 NY 1036
	1752 KMOL-4? TX T	20	1731 WBBM-2? IL T		1125 WGBH-2? MA T
	1754 KKAS-5? TX T		1736 WFSX-3? PA T		2007 "t/in--opening to same area as AM"
	KDFW-4 TX 967		1818 KGBT-4 TX 1023		2007 WSYR-3 NY 1036
	1813 KPRC-2 TX 857		1820 KPRC-2? TX T		2013 WGBH-2? MA T
	1818 KATC-3? IA T	21 Tr	1840 "had to leave"		2019 WFSB-3 CT 1034
	1827 KIII-3 TX 978	Es	0145 WSAV-3 GA 242		2026 WCVB-5 MA 1100
	1838 KRIS-6 TX 988		1752 WISG-3 WI 1099		WZL-4 MA 1100
	1922 KAMR-4? TX T		WEAY-2 WI		2100 WTVB-5 NY 1036
	1950 KBTX-3? TX T		Green Bay 1133		2101 WMAZ-2? MD T
12	1355 KGLD-3? MO T		1805 WTMJ-4 WI 1069	3	1530 "t/in; CCI 2-4"
	1800 unIDs 2-4		1815 WFSX-3? PA T		1850 "t/in; CCI 2,3"
	1828 WMT-2 IA 1175	22 Es?	1818 WHEB-4? IL T		1859 KRAL-3 MN
	"had to leave 1850 ...2230 still CGI 2-4...f/out 0015"		1840 "had to leave"		Duluth 1387
14	1010 unID 2-5 N.	29	"slight CGI noted at least once each day		1920 "had to leave"
15 Tr	2340 WMBB-13 FL 263	29	on local WESH-2"	5	1310 "t/in; CCI 2-4 soon gone...was out this morn & upon re- turn was told that Simon had called to inform me of hang- up opening..."
Es	2340 unID 2-5 to 0045	30 Es	1930 unID-2 CGI "had to leave"		1616 WKZO-3? MI T
16	1650 HISD-4 DR 1005		2255 "t/in upon re- turn, massive CGI"		1649 WJMK-2? MI T
	1701 WORA-5 PR		2300 KQTV-2? MO T		1654 WWJ-4? MI T
	Mayaguez 1161		2305 KTVO-3 MD 1039		
			KMTV-3 NE 1209		
			2313 WOI-5 IA		
			Ames 1145		
			2317 WOC-6? IA T		

"Quite an exhausting month--and all this just on rabbit ears! I have been DX-ing since 1972 and thus far have never witnessed nearly as much May B-skip as this year...several May days I was not home all day, thereby missing many other openings...16th was fun with SS skip coming from all over; some strange unIDs still need to be solved in that one! June 2 & 3 were also nice with two new states in as many days! By about June 20th I will be in our new house. Please send all correspondence to: 2845 Ivan Ct., Orlando FL 32807...I would still like to trade TV GUIDES...especially would like the following areas: TX, OK, MO, KS, NE, IA, IL, MI, WI, IN, OH, PA, NY & NYC area, New England, as well as S. Canada. Tnx much. God bless all & 73."

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

<u>May</u>		7 Es	2002 WCIX-6 FL T	27 Tr	0608 WJBT-24 PA 290
1 Tr	0815 London U's 260	8 Tr	0730 CHGN-22 ON		WPMJ-21 OH 250
	Kitchener U's		Chatham U's		WKBN-27 OH 250
	Oil Springs U's		CHLFT2-40 ON 260		WFTV-33 OH 250
	0840 Cleveland U's		CHLFT1-76 ON 300	0640	CHLFT3-48 ON 200
	Erie U's		CKOQ3-42 ON 200		CHLFT3-42 ON 200
	WKBN-27 OH 250	0735	CITY-79 ON 365		WMBD-31 IL 220
	WAKR-23 OH 210		CHLFT-25 ON 365		WRSK-25 IL 220
6	2230 Youngstown 27,33		CICQ18-18 ON 260		WRAU-19 IL 220
	Erie 24, 35	0740	KDNL-30 MO 305	<u>June</u>	
	WNBC-45 OH 220		WGBAA-68 IL	3 Tr	0600 WTAU-15 WV 240
	WEAO-49 OH 210		CICQ28-28 ON 300		0630 WKYH-57 KY 275
	"plus other Ak- 27	0608	WPGH-53 PA 290		WLKX-18 KY 210
	ron, Cleveland U's		W46AB-46 NY 340		WRYT-27 KY 210
7 Es	1945 WTVJ-4 FL 1100		WSEE-35 PA 290		WTVQ-62 KY 210

"The distances I list are approximated by using an old Rand-McNally road atlas. I would appreciate if someone would recommend a more accurate method of determining distance to station."

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

May (all times CDT)

29 Tr "Extremely strong to north-northwest. WTMJ-4 also appearing on channel 3 on my receiver."

30 Es 1930-2100 unIDs 2, 3, 4; unID-3 NBC at 1900.

June

6 Es 2300 KOTA-3 Rapid City SD "in briefly with newscast"

"Log total now: 43 stations, 11 states. Note: most of my DXing is on FM. 73s"

Jim Gould R.R.#3 Kokomo, Indiana 46901 (317)452-9585 (EST)

February

13 Es 1456 KENW-3 NM 1035

16 Tr 1320 KPTC-10 MN 396

18 2008 WAAY-31 AL 410

April

4 Tr 2319 KPTC-10 MN 396

12 1835 WAAY-31 AL 410

14 1922 WVVU-24 WV 332

28 2145 WHLA-31 WI T

28 2130 WVVU-24 WV 332

2020 WHO-13 IA 390

29 0650 WHO-13 IA 390

0715 KMEG-14 IA T

0731 KHIN-36 IA 473

0800 KXFD-50 IA

Pt Dodge 435

"I saw my first hi-band Es yesterday (last night approximately 2030, 6 June): KMGH-7 Denver. I was talking to Bill Draeb on the phone when the Es started kicking up CCI on ch 7. Bill may have seen some also. He had a call of "KFM?" on ch 7. Unfortunately, there is no way to get a positive ID on Denver...the program was CBS (circus) 1 hour behind the local CBS stations, and the offset was the same as WLS-7 Chicago, but the Es didn't last long enough to get local station information (approximately 5 minutes)."

James E. Filler 307 East 9th Street Muncie, Indiana 47302

"I joined WTFDA late last year but haven't been able to report until now...with some luck I hope to report more often. My equipment consists of a 1975 Zenith 19" B/W set, an Archer V-180 with rotor (going up soon I hope), a Finco P-7 and a UPW-26. I wonder if anybody could suggest ideas about high-pass filters to get rid of or reduce CB interference (nothing seems to work). Any help received would be appreciated."

September 1976

4 Tr 2200 WKBD-50 MI

Detroit 200

October

2 Tr 0225 WDHO-24 OH

Toledo 135

0227 WKAR-23 MI

E Lansing 170

0235 WUAB-43 OH

Lorain 170

1900 WSNS-44 IL

Chicago 200

November

2 Tr 0130 KFVS-12 MO

Cape Girardeau 290

WILL-12 IL

Urbana 207

0200 WGN-9 IL 200

WNIN-9 IN

Evanston 190

KETC-9 MO 300

MS 0235 WJXT-4 FL

Jacksonville 735

2 Tr 0235 KMOX-4 MO

St Louis 300

2200 WBNS-10 OH

Columbus 160

to WILK-10 MI

Ommondaga 195

3 0100 KPLR-11 MO

St Louis 300

December

11 Tr 1830 WCFC-38 IL

Chicago 200

January 1977

31 Es 1630 KMOL-4 TX T

1640 WESH-2 FL

Daytona Beach 820

KPRC-2 TX 930

Tr 1640 WJHK-2 MI

Detroit 200

February

5 Tr 1400 WKZO-3 MI

Kalamazoo 200

WKYC-3 OH

Cleveland 115

5 Es 1400 KBTX-3 TX 785

KIII-3 TX T

to KOTA-3 SD

Rapid City 860

1600 KFVS-3 CO 835

25 Tr 1930 WJIM-6 MI

Lansing 170

WKYT-7 MI

Detroit 200

April

16 Tr 0105 WHAS-11 KY

Louisville 175

WTOI-11 OH

Toledo 135

0725 WICS-20 IL

Springfield 215

May

25 Tr 0700 WCET-48 OH

Cincinnati 110

0745 WLWX-18 KY

Lexington 165

0830 WKYT-27 KY

Lexington 165

Also reported, but not listed here, numerous U's and several V's from Indiana, Ohio, and Kentucky which all should be seen quite often from Muncie.

Clarke W. Ingram 5201 Colewood Drive Pittsburgh, Pennsylvania 15236

"Just a note to tell you the first Es of the season was seen here tonight (6-6) --at tune-in 2000, MUF ch 6; opening died around 2130. CATV interference and weak signals prevented positive IDs, but it sure is nice to see skip again! Looking forward to a few intense openings this month (I may have already missed a few due to erratic schedule)."

Frank Wheeler 6589 Wattsburg Road Erie, Pennsylvania 16509 (EST/EDT)

April		4 Tr	0203	WILX-10 MI	236	26 Tr	0900	WJIM-6 MI	236
12 Tr	0800		0205	WJRT-12 MI	195	30 Es	2129	KTVS-3 CO	1188
	0830	6 Es	2257	KTEW-2 OK	943		2300	KUSD-2 SD	851
May		7	2047	WDIQ-2 AL	815	31 Tr	0625	WJIM-6 MI	236
4 Tr	0120	14	2300	KCKT-2 KS	1015		0627	WBYI-25 MI	220
	0200	15	1900	KPRC-2 TX	1210		0700	WSBT-22 IN	318

"Missed the May 30 opening. I was out of town 1-8 p.m."

Harry J. Hayes Star Route Box 226c Gouldsboro, Pennsylvania 18424 (EDT)

April		7 Es	2200	WRRG-5 AL		21 Es	1720	unID-2	"weak"
21 Tr	0630			WDSU-6 LA		22 Tr	2000	WTEV-6 MA	(RI)
	"VHF jammed w/NTC;	12	1530	unID-2-4	"weak"	24 Es	1845	CJCN-4 NS	
	Baltimore, Washington	14	1300	KMTV-3 NE		30	1200-1336	unIDs	
	locals on UHF loop"		1310	WMT-2 IA			1430	(KTVF)-4 OK	
May			1313	KUSD-2 SD				KTYV-3 MO	
2 Au	1720			"graduation exercises"			1500	KLMB-3 NE	
5 Es	1925			1335 unID-2 "KTCA?"			1630	KUSD-2 SD	
7	1230	16	1025	unIDs 2-3			1700	KPLG-6 SD	
	1323	17	1955	WESH-2 FL				Reliance	
	2030	20	2200	ICR-2 CUBA			1930	unID-2 "Maritime"	

"I think this May will have to go down on the record books as having the most skip which just hovers above and below the 54 MHz line, mostly below. The skip is in every day at the 30 MHz level but is an utter disappointment this month at ch 2 and above. Almost constant around the clock monitoring of ch 2 took place at this QTH this month...luckily for most, two of the best Es days in May fell on Saturday, the 7th and 14th. So most didn't miss much at work during the week. Sometimes being unemployed doesn't pay off. A project here to pull in WOR-9 New York has failed despite the erection of two Channel Master Super Z Match ch 9 yagis stacked with high band amp at 30'. Picture is only good when tropes are up; other times it's the Blizzard of 1899! We are just dying to see some sports here so any valuable hints that you antenna experts in the club might be able to offer me would be most gratefully appreciated. Right now the only solution I can see is to go up, up, up! 73a"

Steve West 432 Kenmore Road Havertown, Pennsylvania 19083 (215)449-1472 (EDT)

April		21 Tr	0800	WCDC-19 MA	225	21 Es	1730	WGBI-4 MS	875
20 Tr	0600			WCVB-23 VA	225	Tr	2300	WPRH-12 RI	225
		24 Es	1930	"Cuba-2"			2400	WITN-7 NC	320
								WNCT-9 NC	350
		May						WTVF-11 NC	350
		1 Tr	0100	WITN-7 NC	320			WSEK-38 MA	250
				WCTI-12 NC	350	22	0030	"Cuba-2"	
		7 Es	1220	KETS-2 AR	1000	28 Es	1200	unID-2 HB	"FF"
			1330	"Cuba-2"		29	1530	unID-2 FL	
				WESH-2 FL	825		2400	WMT-2 IA	
		14	1130	KTEW-2 OK	1150	30	1400	unIDs into FM	
				WBRZ-2 LA	1100		1500	KHAS-5 NE	
			1400	KUSD-2 SD	1150		1700	KSTP-5 MN	
21	0800	19	1645	"Cuba-2"			1900	WBRZ-2 LA	
				WPBT-2 FL	1100			"Cuba 4 & 5"	
				WESH-2 FL	825	31	0900	unID-4 FL	
		21 Tr	0645	WRPT-36 NC	460	June			
						2 Es	2000	WPTV-5 FL	

"The skip hasn't been very strong yet."

Kurt A. Nelson 127 Elm Avenue - 2nd Floor Rockledge, Pennsylvania 19111

April	(times EST)	20 Tr	2301	WBTH-24 CT		30 Es	1735	WCCO-4 MN	
20 Tr	2048		2308	WHEX-40 MA			1930	WPBT-2 FL	
	2100		2330	WGBY-57 MA		June			
	2139					5 Es	1625	WBRZ-2 LA	
	2200		7 Es	2140	WVL-4 LA	6	1720	WCCO-4 MN	
	2204		18 GW	2127	WBTE-68 NJ		1758	KFSM-5 AR	
	2258		30 Es	1730	KSTP-5 MN		1828	KARK-4 AR	
							1830	WTVJ-4 FL	

"These loggings were all made on a 1976 Sony 15" Trinitron color TV. The APT was turned off for all VHF loggings. The antennas used were the UHF loop and the rabbit ears which were supplied with the set. I hand-held the rabbit ears, rotating and tilting them for best VHF DX. A Winegard adjustable low-band trap tuned to local KYW-3 was used to reduce adjacent channel interference. Rockledge is located just northeast of Philadelphia in Montgomery County. Here's hoping that conditions continue to be good. 73s."

Richard Eckman 2328 Griffith Street Philadelphia, Pennsylvania 19152 (EDT)
 "This is my first report to Eastern TV DX as I recently joined WTFDA. So far, I've been very pleased with the VUD. As a brief intro: I'm 18 and will be a sophomore at the University of Pennsylvania this fall majoring in Physics. I've been a DXer (SW and MW) since 1970 and got into TV DX during July 1975 with some "accidental" Es loggings. So far, the Es season looks very good with many excellent days during May. Tropo hasn't been too terrific though I'm probably pretty much at a disadvantage as I don't have a rotor on the antenna. Almost all Es loggings made with indoor 'rabbit ears' antenna."

May		14 Es	1159 WPBT-2 FL 1030	29 Es	1010 "CCI on 2,4,5"
7 Es	1226		WTVJ-4 FL 1030		1520 unIDs on 2
			1206 KQTV-2 MO 990		"one a French sta"
			1239 WMT-2 IA 870		1900 unID-2 CANADA
	1347		1300 KUSD-2 SD		2158 WPBT-2 FL 1030
	1418		"running U. of S.D.		2159 WTVJ-4 FL 1030
	1922		graduation...called		2330 WMT-2 IA 870
	2000		station and they		2400 KQTV-2 MO 990
			confirmed."	30	1310 KDFW-4 TX 1230
	2030		1318 KPCA-2 MN T		1359 KTEW-2 OK 1090
			1248 "CCI on 2"		KTVY-4 OK 1100
			2202 WBRZ-2 LA 1080		1405 KTFV-2 MO 820
			1014 "CCI on 2"		1450 KSNB-4 NE T
			1640 WPBT-2 FL 1030		1616 WCCO-4 MN 960
			1654 "Cuba-2" 1200		1630 KPCA-2 MN 960
			1753 "Cuba-4" 1200		1640 KSTP-5 MN T
	2158		1930 WPBT-2 FL 1030		1840 WBRZ-2 LA 1080
	1520		1830 WBRZ-2 LA 1080		1930 "Cuba-4" 1200
			0000 WYAH-27 VA 230		WTVJ-4 FL T
			0036 WCVB-23 VA 210		1950 WPBT-2 FL 1030
	1901		0047 WSMW-27 MA 230		2000 WESH-2 FL T
	1130		0105 WVIR-29 VA 230		

"That's about all that was either definite or that I had a strong tentative on. One really interesting station was received on 5/14 via Es which I guess I should send to the CCI column. It was a test pattern on 2 with a large 2 in a circle which blinked off and on what appeared to be a blue background. There were words on top of the circle--one may have been 'Active...' Really have no idea what it might have been."

Bob Seybold Bennett Road Dunkirk, New York (EDT)

"Here is a quick report--busy here. Great skip lately, signs of tropo also:"

May
 29 Es "Heavy skip 1100 on and through periods into evening. Florida & south-land into Texas, Oklahoma, some Spanish stations detected."
 30 "Another heavy skip day."

June
 6 Es "Best skip day so far this season...all channels several deep (FM loaded) --very difficult to ID due to extreme number of stations in. Skip in the evening was best, but noted most of day from west, northeast, and south all at once; some noted: CJBR-3 (super), CBHT-3 CKCW-2 KXON-5 KXJB-4 KTVS-3 KARD-3 WEDU-3 WESH-2 WTHS-2 KATC-3 WBAR-3 WPTV-5 WDBO-6 WCIX-6 KDIX-2 KLINE-3 KOTA-3; also Colorado, Dakotas, Nebraska, Iowa, Minnesota, Maine, Georgia, Kansas, Wyoming, Montana, Idaho (double hop)
 8 "Very heavy skip noted as early as 0645: KDAL-3 WEDU-3 WUFT-5 WJXT-4 WBAR-3 WESH-2 WTHS-2 WTVY-4 KXON-5 KXJB-4 KDIX-2 KDLO-3 KOTA-3 KTVS-3, Denver on 2, 4, 6, also KQAA-5. Canadians on 2, 3, 4, 5 & 6--Manitoba, etc. Evening skip into Kansas, Nebraska, Dakotas & Canada."
 9 "Some skip noted as early as 0800 and gaining in intensity. Noted: KARD-3 KCKT-2, other Kansas, Missouri stations on 4, 5 & 6. Starting about 1200, Minnesota (channels 2 & 3) including KDAL-3 was in. Then, heavy skip into Dakotas and into Canada: KDIX-2 KDLO-3 CKOS-3 KXJB-4 CKX-5 KFYR-5 WDAY-6 & many others, including CBWT-6 and other Canadians late into night. Two new logged via skip. A real big skip day here."

"Skip is continuing as I close this report. Other DX within last 30 days (May 9 - June 9) includes some skip from mid-day on, and occasional tropo, including opening to Missouri, Illinois, Indiana & Iowa. Have seen new Canadians on 15, 32 & 44 (CBLFT repeaters) on occasions, and one on ch 35 (flake--French--what was it?) before WSEB-35 was on one a.m. (Could it have been on ch 34? It might have been the new CBLFT repeater in Penetanguishene, about 80 mi north-northwest of Toronto -bt) My totals are approaching 750. Definite log total next report. Best DX."

Don Ruland 4448 68th Place Kenosha, Wisconsin 53142 (EDT)

May			26 Tr	0600	WAKR-23 OH 340	30 Es	2000	KTVS-3 CO	780
15 Tr	0600	WBNS-10 OH 320		0615	Lexington 18,27	June			
		WUAB-43 OH 330			WIKY-32 KY 330	3 Tr	0545	WIKY-32 KY 330	
		WAKR-23 OH 340		0645	Lexington 46,62			WKYT-27 KY 360	
20 Bs	1730	KIII-3 TX 1160			WKYH-57 KY 440			WUAB-43 OH 330	
21	1000	KRGV-5 TX 1280			WOSU-34 OH 320		0630	WXIX-19 OH 300	
23 Tr	0620	CICO18-18 ON 340			WPBO-42 OH 470			WBHT-25 IN 320	
		CHLFT2-40 ON 340		0700	Cincinnati U's		0650	WTVQ-62 KY 360	
		CHLFT1-76 ON 340		0730	WKSO-29 KY 420			KDNL-30 MO 300	
	0630	WUAB-43 OH 330			WKMR-38 KY 380		0730	WOSU-34 OH 320	
		CICO28-28 ON 400			WCVN-54 KY 310	4	0600	CICO18-18 ON 340	
	0700	WAKR-23 OH 340			WKMJ-68 KY 330			CICA-19 ON 430	
25	0645	WAKR-23 OH 340	27	0600	WAKR-23 OH 340			CITY-79 ON 430	
		WUAB-43 OH 330			WUAB-43 OH 330			CICO28-28 ON 400	
		WIKY-32 KY 330			WYTV-33 OH 380		0630	CHLFT2-40 ON 340	
26	0545	WCPO-9 OH 300		0625	WTCN-11 MN 320			CHLFT1-76 ON 400	
		WBNS-10 OH 320		0700	WPGH-53 PA 430	5 Es	1100	KCKT-2 KS	
		WHAS-11 KY 330		0730	WOSU-34 OH 320			Great Bend 630	
	0600	Youngstown 27,33			WNEO-45 OH 360				

"Log at 439, with one new. KCKT-2 represents first new logging since 10-3-76, and first new E-skip since 7-17-76. A long dry spell indeed!"

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

April			30 Es	2100	KTVS-3 CO	9 Es	0230	KDUH-4 NE	
2 Tr	0059	WANB-15 IN		June				Hay Springs	
	0100	WKJG-33 IN	1 Tr	0205	WJRT-12 MI		0310	KOA-4 CO	
	0101	WDHO-24 OH	2 Es	1130	KATC-3 LA			Denver	
9	2300	WXON-20 MI			MUF ch 6		2Es	0328	KUTV-2 UT
		"w/GCI"		1700	CHHT-3 NS			Salt Lake City	
		WBGU-57 OH			CJCH-5 NS		0358	unID-3 "end	
16	2355	WANB-15 IN		1720	CJCN-4 NF			Carson, begin Tomorrow, into movie at	
		WKJG-33 IN			thru WBEN			0501...KORR? HELP!"	
17	0034	WHDU-16 IN		1800	CJAP-3 NF				
	0100	WSJV-28 IN	6	1740	CBWFT-3 MB	Es	1305	KOTA-3 SD	
May				1759	KLNB-3 NE		1307	KPYR-5 ND	
7 Es	2100	WEAR-3 FL	8	2100	KXON-5 SD		1313	WDAY-6 ND	
		WRBL-3 GA		2314	KDLO-3 SD		1345	CBWFT-3 MB	
	1600	KBTX-3 TX	9	0012	KOTA-3 SD			CBWT-6 MB	
	1700	KATC-3 LA		0135	KPRY-4 SD			CKX-5 MB	
20 Tr	0025	Pt Wayne U's			Pierre	10	1900	CHHT-3 NS	

Bill Thompson 1907 Seneca Street Buffalo, New York 14210 (EST/EDT)

March			19 Tr	2000	super sigs	3 Es	2000	KATC-3 LA	
11 CW	0000	CHLFT4-44 ON			from many SE. OH U's		2130	WBRZ-2 LA	
		Peterborough		2245	WKHA-35 KY T	5	0830	unIDs 2,3	
	Tr	2030			WKYT-27 KY		0926	CBWFT-3 MB	
		S. Michigan U's			many others		0930	KWNB-6 NE	
		Toledo U's		20	0000		0933	KLNB-3 NE	
		CICO-24 ON			Toledo, Ft Wayne		1030	KMTV-3 NE	
		Pt Wayne U's			S. Michigan U's		1031	KTVG-6 NE	
		CHLFT-78 ON			all strong		1200	KATC-3 LA	
		CICO32-32 ON	21	0011	CHLFT5-15 ON		2000	KATC-3 LA	
April					Belleville		1600	KLNB-3 NE	
6 Au	1630	hash to ch 9;		29 Es	1700		1630	KMTV-3 NE	
		CHLFT-5 almost			unIDs 2,3	6	1630	KMTV-3 NE	
		unwatchable			all evening		1726	CBWFT-3 MB	
29 Es	1800	unID-2 CGI	30	0002	KYTV-3 MO		1750	WOWT-6 NE	
May				1318	WLBT-3 MS			Omaha	
7 Es	2015	WEAR-3 FL		1334	KATC-3 LA		1830	WPTV-5 FL	
	2100	WRBL-3 GA		1519	KYTV-3 MO		1929	KLNB-3 NE	
		WEAR-3 FL		1528	KLNB-3 NE			KXON-5 SD	
		WCRG-5 FL		1659	KMTV-3 NE			KUSD-2 SD	T
	2200	WCTV-6 FL		1859	KOTA-3 SD		2331	CKOS-3 SK	T
9	1955	unID 2,3 CCI	31	0830	unID-2 CCI	7	0109	MUF still	ch 4
12	1600	KBTX-3 TX	June				1900	CHHT-3 NS	
	1712	KATC-3 LA	2 Es	1130	KATC-3 LA		1920	CJCH-5 NS	
14	1030	unID 2-5		1700	CJCH-5 NS	8	0845	unID 2-5 S.	
	1100	WEDU-3 FL			CBHT-3 NS		0900	WEDU-3 FL	
		WPBT-2 FL			CJAP-3 NF			WUFT-5 FL	
15	1115	unID-2 0 CCI S.			CJON-6 NF		1959	WSAV-3 GA	
	2345	unIDs 2, 3, 4		1724	CKCW-2 NB			WEDU-3 FL	

Excellent skip into the wee hours of June 9 noted; caught some double-hop. De-tails next time!

WESTERN TV-DX

Doug Everitt
1710 W Maine
Enid OK 73701
(405) 233-4890
Deadline: 10th

The 1977 summer Es season got off to a slow start in many areas, but by early June, it was booming right along... Let's hope this turns out to be a banner year for TV DX via Es.

A few changes in editorial policy here at WTV... Henceforth, rather than omitting loggings under 200 miles from the DXer, I will ask you to leave out stations in your report which you see more than 15 or 20% of your DXing time by tropo or groundwave. This does not mean leaving out stations that comprise 15 or 20% of your loggings. I feel this policy will be more fair to reporters in the farther western states & provinces, where even shorter (by plains standards) tropo can be unusual. It will also allow for seasonal variations in tropo conditions. This decision was prompted by comments from reporters in both California & Oregon, who thought the previous 'under 200mi.' rule unfair. It will also eliminate longer loggings made by 'midwestern' reporters on an all-too-frequent basis, i.e. the DXer who sees stations in the 350-mile range regularly and relogs them constantly, thus clogging VUD space with redundant entries... All comments on this will be appreciated.

Due to incredibly poor response (two comments), the WESTERN TV DX Es Chart is being cancelled, and will not be run in future columns unless interest on the part of WTV DXers shows itself... This will save your editor a great deal of time & trouble, as well as saving space in VUD. Best MUF for an opening can be given in single line form (e.g. Pat Dyer MUF info), with time of best MUF. This will allow other DXers to get some scope of an Es opening, without the chart. If you have any comments, please forward them to me...

John Phillips, 4459 Downing Ct., Pleasanton CA 94566 (PDT)

STRANGE BEAT?

CM 3617/0040b VHF ant/amp, CM 4248/0071b UHF ant/amp, 1975 Zenith Chromacolor II

May 1977

18 ms 0525 KDUH 4 NE 1060	03 tr 0845 KEET 13 CA 240	07 Es 2035 KACB 3 TX 1284
22 tr 1030 KCOY 12 CA 218	Es 1925 KFDX 3 TX 1327	2040 KTKT 5 TX 1150
	2200 KMDI 2 TX 1183	2043 XEPM 2 CH 963
June 1977	04 Es 1000 KENW 3 NM 1055	2100 KDBC 4 TX 963
01 tr 0800 KEYT 3 CA 247	1645 KXJB 4 ND 1366	XEJ 5 CH 963
KCOY 12 CA 218	1650 KREM 2 WA 744	2132 KAMR 4 TX 1140
0900 KEET 13 CA 240	1730 KDIX 2 ND 1159	tr 2230 KCOY 12 CA 218
1000 KRCR 7 CA 205	tr 1930 KRCR 7 CA 205	08 tr 0800 KJTV 17 CA 239
1030 KJTV 17 CA 239	KIXE 9 CA 205	KERO 23 CA 239
KERO 23 CA 239	07 Es 1555 XHBS 4 SIN 1115	KBAB 29 CA 239
KBAB 29 CA 239	2000 KMDI 2 TX 1183	0900 KEYT 3 CA 247
02 Es 1830 XHQ 3 SIN 1232	KENW 3 NM 1055	KCOY 12 CA 218
1845 KMDI 2 TX 1183	2010 KAVE 6 NM 1055	Hardly any Es up thru June
03 tr 0845 KRCR 7 CA 205	2030 KWAB 4 TX 1206	1st, but the season really

started with a bang on the 2nd. Every day since has brought CCI via Es, but as I'm now in the middle of final exams, I haven't had all that much time for intense DXing. On the 7th, 2-6 were jammed, some 3 & 4 deep. Long duration, also: started around 1530, dropped off at 1645, rolled back in at 1730, final fade out at 2230. My ch.2 DXing now severely hampered by a strange new 'beat' completely blacking out any ch.2 signal, including local Oakland at 31 miles! Beat is intermittent & is only a problem when antenna is pointed ne & east, but that's where a lot of Es & MS hang out! Good DX = JP

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

AZ VIA TROPO

GE 11" Portacolor, Winegard 530 antenna at 70', Winegard AC924 preamp, rotor

March 1977

24 Es 1422 KTEW 2 OK 1210	04 Es MUF 4, 11 Es MUF 3	29 Es 1702 KFDW? 6 TX 1380
1534 KTVY? 4 OK 1100	13 Es 1614 KIII 3 TX 1230	1704 KIII 3 TX 1230
April 1977	1616 KMDI? 2 TX 690	1705 KRIS 6 TX 1230
01 tr 1255 KOOL 10 AZ 310	1635 KPRC 2 TX 1370	1830 KDFW 4 TX 1160
1256 KJAR 12 AZ 310	1640 KBTX 3 TX 1270	June 1977
chs.9 & 13 w/CCI also...	1728 KRGV 5 TX 1300	03 Es 1734 KACB? 3 TX 980
13 Es 1733 XEZ? 3 QR 1380	MUF 6	2035 KIII 3 TX 1230
23 Es 1810 KENS 5 TX 1150	16 Es 1715-20 MUF 3	KTEW 2 OK 1210
KRIS 6 TX 1230	17 Es 1700-27 MUF 3	2145 XHQ 3 SIN
1811 KIII 3 TX 1230	29 Es 1701 KPRC 2 TX 1370	05 tr? 1500 KTVK 3 AZ 310
KMDI 2 TX 890	KACB 3 TX 980	07 Es 1455 KDFW 4 TX 1160
1956 XEFE? 2 TAM 1150	KMOL? 4 TX 1150	KXAS 5 TX 1160
XEZ? 3 QR 1380	1702 KENS 5 TX 1150	KFDX 3 TX 1060
		1456 KMDI 2 TX 890

Es has been coming in here regularly during the last week, and frequently since mid-April. I also had an unusual reception of KTVK-3 Phoenix. I had suspected it before, but never a positive ID until now. Jim is somewhat interested in TV DX, although he leaves most of that to me. He is actively involved in SW amateur radio & MW. I am to a small extent involved in MW & SW, but not like he is! I find TV DX interesting because it is relatively unusual... At any rate, I think it's fun, and that's as good a reason as I need. (Karen mentions her Apr VUD dates should read 8, 9 & 10, not 2, 3 & 4...de)

Jim Pizzi, 300 Park, Orcutt CA 93454 (PST/PDT) (10 Mar - 22 May)		
<u>March 1977</u>		
10 Es 2122 MUF 2 se	28 tr 2200 KMTF 18 CA	May 1977
	Fresno, new on air, PBS	04 Es 1840 MUF 4 east
<u>April 1977</u>	29 tr 2000-0000 KTSF 26	11 Es 0945 MUF 4 (CATV)
23 Es 1658 KMID 2 TX	KQEC 32, KVOF 38, KBHK 44	1330 KWGN 2 CO
1830 KENS 5 TX	30 LS 2006 KPBS 15 CA	KTVQ 2 MT
1834 XHAB? 7 TAM	KCST 39 CA	1800 KTVQ 2 MT
1859 KDBC? 4 TX	Lightning Scatter,	1800-54 MUF 5
28 Es 1030 KMID 2 TX	new mode.....	21 tr 2300 KØ9MX Atascadero
1840 MUF 4		22 Es 0920-59 MUF 2

Steven C. Wiseblood, 707 Loma Way, Santa Maria CA 93454 (PDT) (08 May - 06 Jun)		
08 Es 1133 CFAC 2 AT	16 Es 1712 MUF 4 briefly	03 Es 1626 KAMR 4 TX
1224 KREM 2 WA	19 Es 1217 XHCH 2 CH	2000 KMID 2 TX
1226 KXLY 4 WA	20 Es 1651 XHCH & XHIT	04 Es 1000 KMID 2 TX
11 Es 1237 KCKT 2 KS	22 Es 1307 MUF 2	1030 KTWO 2 WY
1305 MUF 97.7 MHz	25 Es 1215 thru 3	1422 KATU 2 OR
1844 thru 3	02 Es 1702 MUF 2 Mex.	1647 CFCN 4 AT
13 Es 1600 XHIT 4 CH	03 Es 1146 XHI 2 SON	1659 CFAC 2 AT
XHCH 2 CH	1430 KTWO 2 WY	CFRN 3 AT
1826 XHI 2 SON	1622 KCKT 2 KS	06 Es 1502 KWGN 2 CO

Well, comparing this Es season so far with last season, I can see that it was slightly below the Es levels experienced last season, though I think we should see MUF levels rise toward the end of June, and will hopefully remain at elevated levels through July...

John Anderson, Box 186, Lowe Farm MB ROG IEO

UP IN MANITOBA...

Delhi 1057 @ 64', CM traps, CM 0059 preamp, Panasonic 12" b&w, PRO-3A monitor (41 MHz)		
<u>April 1977</u>	08 Es 0102 KTVN 2 NV 1284	13 Es 1830 WMAR 2 MD 1228
30 tr 0900 KXMD 11 ND 300	11 Es 2030 WDIQ 2 AL 1361	tr 1843 KWCM 10 MN 295
<u>May 1977</u>	Au 2300 activity on 2	14 tr 1000 KXMB 11 ND 300
02 tr 1801 WDIQ 10 MN 300	12 tr 0800 KQSD 11 SD 305	1010 KDIX 2 ND 305
KWCM 10 MN 275	Snowfree, best ever here!	KTCA 2 MN 360
03 tr 1801 WDIQ 10 MN 300	0800 K1ØIL sKXJB-4 ND	1340 WDIQ 10 MN 300
KWCM 10 MN 275	Devils Lake, 100mi.	Es 1300-1500 MUF 4 east
04 tr 1810 KCMT 7 MN 255	(see my note...de)	<u>June 1977</u>
CKY-7 off the air...	Es 2345 KATU? 2 OR 1220	02 Es 2100 KREM 2 WA 943
07 Es 1202 KOAI 2 AZ 1215	0005 KUTV 2 UT 927	2200 KATU 2 OR 1220

In order to find the best IF signal from the set to the monitor, I removed the back of the set & probed around with an alligator clip. I found the best spot to be the heat sink of a transistor. I've noticed the set does radiate a fair amount of IF energy which can be received on the indoor monitor antenna, but the signal is not as strong, which is important with some of the super-weak tropo signals I have to contend with! Recent Es has been interesting, but at times ulcerating, having to contend with the locals & semis. I would really enjoy living in an area free of lo-banders, hi... 73 & Good DX = John (John, K1ØIL is listed as a 5w xltr in the TELEVISION FACTBOOK; if that was a solid logging, it was quite an accomplishment! And you complain about your cx...de)

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

07 Es 2030 WCBW 2 SC	12 Es 1645 XEZ 3 QR	20 Es 1656 WPBT 2 FL
2057 WSAV 3 GA	14 tr 0705 KVUE 24 TX	WEDU 3 FL
2102 WCIV 4 SC	0707 KTVV 36 TX	21 Es 0856 WCBW 2 SC
09 Es 1758 WCBW 2 SC	15 Es 1058 XHI? 2 SON	WFMY 2 NC
1800 WWAY 3 NC	1157 XHBS? 4 SIN	WSJK 2 TN
1828 WBTV 3 NC	1650 WESH 2 FL	29 Es 1833 XEZ 3 QR
1859 WUNC 4 NC	2050 WEDU 3 FL	30 tr 0623 KAMU 15 TX
WRAL 5 NC	2056 WTVJ 4 FL	0625 KVUE 24 TX
1901 WPMY 2 NC	2057 WPBT 2 FL	0627 KDOG 26 TX
WFMY 2 NC	2058 WUNC 4 NC	KTVV 36 TX
11 Es 1650 XEW 2 DF	2100 WCBW 2 SC	31 tr 1926 KXTX 39 TX
1702 XEZ 3 QR	WPTV 5 FL	Total Stations as
12 Es 1645 XEW 2 DF	20 Es 1656 WESH 2 FL	of June 1st: 306

Buck Battin, 4305 Pitt, Duluth MN 55804 (218) 525-2448 (CDT) (May)

01 tr 0100 WFRV 5 WI 255	03 tr 0726 Madison U s 295	07 Es 1430 WDIQ 2 AL 1125
03 tr 0625 KGL0 2 IA 260	0728 WTVO 17 IL 350	1500 WSB 2 GA 1010
0630 WBAY 2 WI 255	04 tr 0715 Madison U s 295	2205 KUTV 2 UT 1080
0635 WFRV 5 WI 255	05 Es 1919 MUF 2	2359 WBRZ 2 LA 1145
WLUK 11 WI 255	06 Es 1900 MUF 2	08 Es 1150 MUF 2
WJMN 3 MI 250	2300 WDIQ 2 AL 1125	09 Es 1858 WDIQ 2 AL 1125
0726 WCEE 23 IL 350	07 Es 1105 MUF 2	10 tr 0728 Madison U s 295

Buck Battin continued...

10 tr 0737 WCEE 23 IL 450
 11 Es 2100 KETS 2 AR 840
 12 tr 2200 WBAY 2 WI 255
 13 tr 0715 WGVC 35 MI 425
 Es 1900 WCBS 2 NY 1000
 14 Es 1030 MUF 2
 1300 WMAR 2 MD 950
 tr 2217 WMTV 36 WI 335
 WVTV 18 WI 335
 2230 WSBT 22 IN 470
 2234 WNDU 16 IN 470
 2240 WSJV 28 IN 470
 15 Es 1035 MUF 2
 1630 MUF 2 Mexico
 LS 1800 KDUB 40 new mode
 Es 2200 WBRZ 2 LA 1145
 tr 2306 WSNS 44 IL 405

15 tr 2308 WFLD 32 IL 405
 17 tr 0615 WLUK 11 WI 255
 WMTV 15 WI 295
 0710 WKOW 27 WI 295
 WTVO 17 IL 350
 0719 WCEE 23 IL 350
 18 tr 0714 WTVO 17 IL 350
 0806 KYIN 24 IA 260
 New station? (yes, they came
 on the air May 15th...de)
 Es 1850 MUF 2
 21 Es 0930 WNGE 2 TN 805
 27 tr 0620 WMTV 15 strong
 0625 WISC 3 WI 295
 0715 WTVO 17 IL 350
 0719 WFLD 32 IL 405
 0730 rest of Mad. U S

27 tr 0804 WGVC 35 MI 425
 0806 WGTU 29 MI 350
 28 tr 0815 Madison U S 295
 29 Es 1255 KWGN 2 CO 820
 1810 MUF 2
 30 Es 1130 KTVQ 2 MT 770
 1230 WESH 2 FL 1410
 WBRZ 2 LA 1145
 1235 WCBD 2 SC 1180
 1430 WDTQ 2 AL 1125
 1500 WSB 2 GA 1010
 1530 WMAB 2 MS 960
 1700 WUND 4 NC 1135
 2100 WFMY 2 NC 1000
 31 Es 0030 WCBS 2 NY 1000
 (KRIN, KTIIN, KDUB tropo re-
 logs omitted...de)

Either this is a very poor Es season, or I'm just not used to conditions this far north. Most of the openings I've had have barely had enough pizazz MUF-wise to reach channel 2. There's still been very little in the way of tropo here. I guess I was spoiled in Louisiana, where the tropo is fantastic! (Ron LeBlanc, take note! de) The conditions here won't be a problem much longer, though, as I will soon be moving again. So, in another month or two, I'll be reporting from somewhere other than Duluth. (Hope it's in WTV, Buck...de)

Bill Block, 133 S.E. 31, Portland OR 97214 (PDT)

FIRST TIME

17" GE b&w portable with rabbit ears

May 1977
 11 Es 1830 KENW 3 NM 1300
 June 1977
 03 Es 1730 KTVK 3 AZ 925
 1731 KVOA 4 AZ 1110
 04 Es 1128 KTVK 3 AZ 925

04 Es 1730 KTVS 3 CO 1050
 1747 KLNE 3 NE 1250
 1855 KPRY 4 SD 1100
 1909 KOTA 3 SD 980
 1930 KSNB 4 NE 1270
 05 Es 1115 KTVK 3 AZ 925

06 Es 1430 KOA 4 CO 970
 2000 KOTA 3 SD 1000
 2001 KPRY 4 SD 1100
 07 Es 2000 KVOA 4 AZ 1110
 2100 KPHO 5 AZ 925

This is my first report to the WESTERN TV DX column, so I'll introduce myself. I am 30 years old, single, and have been DXing since 1964, mostly BCB. I have just started to TV DX this past summer, and so far I have seen 42 stations. 73 & I'll see you next month... (I won't be able to make the convention, but I hope lots of others can...de)

Patrick Martin, P.O.Box 14192, Portland OR 97214 (PST/PDT) (01 Jan - 05 Jun)

23" 1962 b&w Philco console, 5-el. Winegard ch.3 yagi, 10-el. Lafayette LB/FM yagi, 6-el. homebrew hi-band yagi, 20-el. homebrew UHF yagi, UHF converter

January 1977
 03 Es 2300 KPRY 4 SD
 04 Es 2315 KPRY 4 SD
 12 tr 2030 K04## sKOAP-10
 April 1977
 08 ms 2317 KRON? 4 CA
 tr 2330 KAID? 4 ID
 25 Es 1822 KCRL? 4 NV
 29 Es 1247 KNBC 4 CA

May 1977
 11 Es 1830 KENW 3 NM
 1847 KRON? 4 CA
 30 tr 2115 KAID? 4 ID
 2125 KKLY 4 WA
 June 1977
 04 Es 1729 KTVS 3 CO
 1730 KOA 4 CO
 1746 KLNE 3 NE

04 Es 1715 KTVK 3 AZ
 1717 KVOA? 4 AZ
 1905 KOTA 3 NE
 1907 KPRY 4 SD
 1909 KIVV? 5 SD
 1930 KSNB 4 NE
 05 tr 0959 KCTS 9 WA
 1030 KEZI 9 OR

We are hoping for a good opening during the convention. I guess all we can do is keep our fingers crossed. (You're forgetting Finagle's & Murphy's Laws of DX, Patrick! de) That should do it for this time... Good DX to all... 73s = Patrick

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (07 May - 07 Jun)

1971 & 1976 models 9" Penncrest b&w, Archer V-100 & 8-bay UHF bowtie at 20' with rotor

07 Es 2059 KDKA 2 PA 1280
 WTAE? 4 PA 1280
 2103 MUF 89.3 MHz
 09 Es 1728 WPSX 3 PA 1370
 1729 WKYC 3 OH 1250
 1730 KDKA 2 PA 1280
 WTAE? 4 PA 1280
 1745 MUF 89.3 MHz
 1757 WDTN 2 OH 1075
 1800 WAVE? 3 KY 945
 1940 WCMH? 4 OH 1135
 11 Es 0920 XHGC? 5 DF 690
 0958 KEYT 3 CA 1270
 0959 KNXT 2 CA 1190

11 Es 1000 KNBC? 4 CA 1190
 1029 KORK 3 NV 1050
 1059 KUAT 6 AZ 750
 KVOA? 4 AZ 750
 KVVU? 5 NV 1040
 1112 MUF 106.3 MHz
 1225 KPVI 6 ID 1195
 1338 WCCO? 4 MN 1110
 1352 KGFE 2 ND 1240
 1429 WBBM 2 IL 1045
 1508 WISC 3 WI 1065
 1620 WEDU? 3 FL 985
 1631 Cuba 6
 1745 WESH 2 FL 1055

11 Es 1920 XHTV? 4 DF 690
 12 Es 1325-35 WFMY 2 NC
 1450 WCMH? 4 OH 1135
 1459 WDTN 2 OH 1075
 WAVE 3 KY 945
 1548 MUF 106.9 MHz
 1559 WFMY 2 NC 1175
 1619 WHIS 6 WV 1125
 1626 WBAY 2 WI 1190
 WOAY? 4 WV 1150
 WTMJ? 4 WI 1100
 2006 WSB 2 GA 880
 WSAV? 3 GA 1050
 2025 WEDU 3 FL 985

Pat Dyer continued...

<u>12</u> Es 2100 WDTN 2 OH 1075	<u>17</u> Es 1245 WOAY 4 WV 1150	<u>26</u> Es 0929 WFMY 2 NC 1175
WAVE 3 KY 945	1300 WEDU 3 FL 985	0940 WRCB? 3 TN 865
2113 WCBBD 2 SC 1120	1315 WCBBD? 2 SC 1120	1015 WSJK 2 TN 1010
WCIV? 4 SC 1120	1325 WTVJ? 4 FL 1190	1950-2025 WCBBD? 2 SC
WJXT? 4 FL 1015	1337 WECT? 6 NC 1250	<u>27</u> Es 0829 WBY 2 WI 1190
2116 WRBL 3 GA 830	1359 WFMY 2 NC 1175	0855 MUF 89.5 MHz
2120 WAGA? 5 GA 880	1405 MUF 99.1 MHz	0940 KSTP? 5 MN 1110
2132 WCSC? 5 SC 1120	1444 Cuba 3	WCCO? 4 MN 1110
2200 WDIQ 2 AL 730	1458 Cuba 6	0959 KGLO 3 IA 985
2247 XHBC? 3 BCN 1010	1515 Cuba 2	KTCA 2 MN 1110
2305 KTVK 3 AZ 835	1525 WPBT? 2 FL 1150	<u>28</u> tr 0845 KLBK 13 TX 340
2329 KOAI 2 AZ 855	1645 WPTV? 5 FL 1150	KMCC 28 TX 340
<u>13</u> Es 0920-1015 thru 3	1708 XHP? 3 PU 735	0959 KCBBD 11 TX 340
1230-1310 WESH? 2 FL	1750 XHTV? 4 DF 690	0956 KAMR? 4 TX 440
1330-40 WCBBD? 2 SC	<u>18</u> Es 1010 WMT? 2 IA 945	Es 1520 TGV? 3 Guat 1120
1558 KNXT 2 CA 1190	1029 KGLO 3 IA 985	YSU? 4 EL S 1200
KEYT 3 CA 1270	1035 KTCA? 2 MN 1110	1528 YSR 2 EL S 1200
1610 KNBC? 4 CA 1190	1800 WPBT? 2 FL 1150	<u>29</u> Es 1328 KWGN 2 CO 810
1659 KOAI 2 AZ 855	1850 Cuba? 2	1500-1715 thru 6
1702 XHBC 3 BCN 1010	<u>19</u> Es 1435 KNBC? 4 CA 1190	1715 KORK? 3 NV 1050
1710 KVVU? 5 NV 1040	1437 KTVK? 3 AZ 835	KVVU? 5 NV 1040
1735 KORK 3 NV 1050	KPHO? 5 AZ 835	1729 KNXT 2 CA 1190
2107 WESH 2 FL 1055	1445 KTLA? 5 CA 1190	KNBC? 4 CA 1190
2120 WPBT? 2 FL 1150	1459 KNXT 2 CA 1190	KTLA? 5 CA 1190
WEDU? 3 FL 985	<u>20</u> Es 0945 KTVS 3 CO 815	1812 MUF 107.9 MHz
WTVJ? 4 FL 1150	0959 KWGN 2 CO 810	thru 2115 w/Es
tr 2300 WGNO 26 LA 510	KOA? 4 CO 810	<u>tr</u> 2150 WGNO? 26 LA 510
<u>14</u> Es 0925-30 MUF 2 north	1008 KITWO? 2 WY 1015	2250 WRBT 33 LA 450
<u>15</u> Es 1059 WSJK 2 TN vid.	1059 KOAI 2 AZ 855	2304 WAFB 9 LA 450
WBAY 2 WI aud.	KORK 3 NV 1050	2328 WVUE 8 LA 510
1120 MUF 107.1 MHz	1100 KVVU? 5 NV 1040	2335 WDSU 6 LA 510
1150 KPHO? 5 AZ 835	1155 KNXT? 2 CA 1190	2346 KATC 3 LA 395
KVOA? 4 AZ 750	1455 WWJ 4 MI 1225	WBRZ? 2 LA 450
1225 no sign of 4 & 5,	1503 WCBBD 2 SC 1120	<u>30</u> tr 0012 WBL 4 LA 510
but 93.5 still in, odd...	1540 WKYC 3 OH 1250	0820 WGNO? 26 LA 510
1259 KREX? 5 CO 870	1557 WTVN 6 OH 1135	0829 WLPB 27 LA 450
1300 KREZ? 6 CO 755	1605 MUF 107.9 MHz	0859 WRBT 33 LA 450
1335 KUTV? 2 UT 1080	1859 WWAY 3 NC 1250	Es 1200-1340 thru 4
KTVX? 4 UT 1080	1920 WCIV? 4 SC 1120	1359 CKCO 2 ON 1410
1505 KDIX? 2 ND 1225	WCSC? 5 SC 1120	1428 KDLO 3 SD 1070
1559 WSJK 2 TN 1010	<u>21</u> Es 0900 so much trop in,	KKJB? 4 ND 1205
WRCB 3 TN 865	hard to tell Es MUF...	WDAY? 6 ND 1210
1630 thru 6	1153 WDTN 2 OH 1075	1435 KFYYR? 5 ND 1200
1900 WCIV? 4 SC 1120	1200 WOAY? 4 WV 1150	1515 MUF 89.7 MHz
WSAV? 3 GA 1050	1229 WSJK 2 TN 1010	1529 KGFE 2 ND 1240
WCBBD? 2 SC 1120	1458 KMTV 3 NE 830	KUSD 2 SD 920
WCSC? 5 SC 1120	1459 KGFE 2 ND 1240	1729 WBBM 2 IL 1045
1909 MUF 98.7 MHz	1500 KFYYR? 5 ND 1200	<u>tr</u> 2059 KMD 2 TX 275
2020 WFMY? 2 NC 1175	1559 KDIX 2 ND 1225	WGNO? 26 LA 510
2110 WBTW 3 NC 1105	1615 WCBBD? 2 SC 1120	WLPB? 27 LA 450
<u>16</u> Es 1259 WTHS 2 FL 1150	1625 WCIV? 4 SC 1120	WRBT? 33 LA 450
Cuba? 3	1635 WFMY? 2 NC 1175	2130 KALB? 5 LA 385
1317 WESH? 2 FL 1055	WSAV? 3 GA 1050	<u>31</u> Es 0829 WDTN 2 OH 1075
1350 WJXT? 4 FL 1015	1658 WWAY 3 NC 1250	0859 WAVE 3 KY 945
WEDU? 3 FL 985	1724 WESH 2 FL 1055	<u>tr</u> 0959 KFDM 6 TX 275
1359 WFMY 2 NC 1175	1727 WEDU 3 FL 985	Es 1001 WESH 2 FL 1055
1505 Cuba 3	1750 XHTV? 4 DF 690	1030 WTVJ? 4 FL 1150
1530 WSJK 2 TN 1010	1810 MUF 89.7 MHz	WPTV? 5 FL 1150
WCIX 6 FL 1150	1959 KTVQ 2 MT 1245	WEDU 3 FL 985
WTVJ? 4 FL 1150	KOTA? 3 SD 1040	1042 MUF 107.7 MHz
1541 MUF 93.9 MHz	2100 KTVK 3 AZ 835	1056 WCIX 6 FL 1150
1555 Cuba? 5	2102 KTWO? 2 WY 1015	1108 Cuba 2 & 3
1659 Cuba 3	<u>22</u> Es 4 per. of spotty ch.2	1320-30 Mexico thru 4
1752 KQTV 2 MO 750	<u>25</u> Es 1005-10 WCBBD? 2 SC	1059 CKPR 2 ON 1400
1759 KTVQ 2 MT 1245	1437 KOAI 2 AZ 855	1105 KDAL? 3 MN 1250
1835 KTVK 3 AZ 835	1455 KTVK? 3 AZ 835	1125 WCCO? 4 MN 1110
1845 KORK? 3 NV 1050	<u>26</u> Es 0829 WSB 2 CA 880	1129 KTCA 2 MN 1110
1856 KNXT 2 CA 1190	0845 WCBBD? 2 SC 1120	
1900 KNBC? 4 CA 1190	0848 MUF 88.3 MHz	
<u>17</u> Es 1240 WSJK 2 TN 1010	0911 WCIV? 4 SC 1120	

This report will be continued next month.

Doug Everitt, 1710 W Maine, Enid OK 73701 (405) 233-4890			(CDT) (10 May - 09 Jun)		
<u>11</u> Es 1315 MUF 101 MHz Mex.	31 Es 1005 WCLX 6 FL	<u>06</u> Es 1003 WBen 4 NY			
1329 KOAI 2 AZ	<u>01</u> tr 0700 KIDZ 24 TX	WEWS? 5 OH			
KORK 3 NV	KFPW 40 AR	1100 CKCO2 2 booming			
KTVX? 4 UT	0910 KHIN 36 IA	1729 WSAV 3 GA			
KVVU 5 NV	0915 KCBJ 17 MO	WJXT 4 FL			
1342 KTLA? 5 CA	<u>02</u> tr 0830 K18AA KS	1740 WCTV? 6 GA			
1345 KNXT 2 CA	K34AA KS	1800 WEDU 3 FL			
KNBC 4 CA	0835 KHNE 29 NE	1900 WUNC 4 NC			
1400 KTVN 2 NV	0840 KMEG 14 IA	WRAL 5 NC			
1705 WEAR? 3 FL	KHIN 36 IA	1930 CBOT 4 ON			
1710 WEDU? 3 FL	<u>03</u> Es 1229 KID 3 ID	1940 CBLT 5 ON			
<u>12</u> to <u>27</u> = out of town	KBCI? 2 ID	1945 MUF 107.9 MHz			
<u>29</u> Es 1635 KIII? 3 TX	KAIT? 4 ID	2002 WCML 6 MI			
1737 XHY 3 YUC	1300-1540 WCBd 2 SC	2027 WJMN 3 MI			
1743 WEDU 3 FL	<u>04</u> tr 0715 KYNE 26 NE	2119 WTOM 4 MI			
1747 WPTV? 5 FL	Es 1730 MUF 4 Mex.	<u>08</u> Es 1857 KGRA 3 CA			
1759 WESH 2 FL	2E? 2000 French 3 from	1858 KRON? 4 CA			
tr 2355 KZTV 10 TX	southeast; Caribbean?	1900 KTVU 2 CA			
<u>30</u> tr 0001 KHOU 11 TX	<u>05</u> tr 0800 KCBJ 17 MO	KPIX? 5 CA			
0002 KTRK? 13 TX	0810 WRAU? 19 IL	1913 KNXT? 2 CA			
0945 KIDZ 24 TX	0820 WAND? 17 IL	1920 MUF 104.5 MHz			
KVUE 24 TX	WTVO? 17 IL	<u>09</u> Es 0956 CKCO2 2 ON			
0950 KTVV 36 TX	Es 1000 CBOT 4 ON	0959 CKVR 3 ON			
WLPB 27 LA	CKGN6 6 ON	1000 WKZO? 3 MI			
WRBT 33 LA	1010 CBLT 5 ON	1005 CKGN2? 2 ON			
0955 KLA4 14 LA	1056 WCIV 4 SC	1010 CKGN? 6 ON			
1015 KALB 5 LA	1100 WCBd 2 SC	1020 WBen? 4 NY			
totally ruining KOCO,	WWAY? 3 NC	1027 KID 3 ID			
CATV badly messed too	1400 KDIX 2 ND	1030 KTVX? 4 UT			
1027 KATC? 3 LA	1402 KFYR? 5 ND	1100 KTVQ 2 MI			
KNCT 46 TX	1415 KXJB? 4 ND	1131 CBWF? 3 MB			
1030 KJAC? 4 TX	1429 CHFD 4 ON	1135 CHFD? 4 ON			
1035 KTBS 3 LA	<u>06</u> tr 0750 KFPW 40 AR	1647 KDIX 2 ND			
KCEN? 6 TX	Es 0900 CKPR 2 ON	1648 KORK 3 NV			
1040 KLFY 10 LA	CKCO2 2 ON	1659 KVVU 5 NV			
1100 KSLA snowfree	CHFD? 4 ON	1815 KTVX 4 UT			
Es 1448 WPSK? 3 PA	0930 KDKA? 2 PA	1820 MUF 107.9 to CA			
1455 WPVI? 6 PA	CKVR 3 ON	2140 KID 3 ID			
<u>31</u> Es 1002 WEDU 3 FL	MUF 107.9 MHz	2210 KBCI 2 ID			
WTVJ? 4 FL	1000 WGR? 2 NY	2235 KAIT? 4 ID			
1005 WPTV 5 FL	WKYC 3 OH				

I now have one of the sets (namely, the XE4242) running off of rabbit ears, which seems to work very well on some Es openings. I also have the old KV9000U working again; it had been out since last spring. My thanks to Lewis Hibbets for his help with it. Like John Phillips, I have a ch.2 problem here. It is pretty much fulltime, although it sometimes goes away late nites. It looks as if someone were running an RF generator nearby; a big black blob. It seems to peak south, and doesn't bother KTEW and KCKT too much in their respective directions. However, it does hinder Mexican ch.2s. My sincere apologies to the statistics nuts in WTFDA: I didn't have time to compile my mileages on the above loggings. Also, several minor Mexican openings & many minor tr openings were deleted from this month's report, due to time considerations... Until next month....

73 & the Best of DX!

Doug

On December 1, 1976, the 3633 commercial FM frequencies allocated by the FCC to communities across the nation were 83% filled. Remaining were only 629 vacant channels, most of these west of the Mississippi River. About 120 were high-power Class B/C channels. Some applications are pending for at least 200 of those 629 channels, and in cities of more than 25,000, 41 of the vacant 56 channels have applications pending.

111 new FM stations were authorized in the six-month period June through November, 1976. Some 71 were commercial, 40 non-commercial. 26 of the 40 new educationals were 10-watt stations, and the Northeast-Midwest (Zone I-A) led with 18 new EFMs. Translators not included. --MIKE DORNER JR.

C.C.I. [UNIDENTIFIED DX]

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

JULY 1977 TV GUIDES UP-DATED THIS MONTH!

I was successful in obtaining a complete set of TV GUIDES for 1977 and this month's column contains all station changes since 1976. This set consists of TV GUIDES from May and a few from late April. B=CTV, F=CBC French, E=CBC English, A=ABC, N=NBC, C=CBS, P=PBS.

San Francisco Metro SFM
add KTSF I ch 26 San Francisco
add KQEC P ch 32 San Francisco

Gulf Coast GCO
add WDIQ P ch 2 Dozier

Western British Columbia WBC
add CKVU I ch 21 Vancouver
add CBUFT F ch 26 Vancouver

Maritime Provinces (new edition)
new code---MFR

Halifax CBHT E ch 3, CJCH B,
ch 5. Sydney CJCB B ch 4, CHIT
E ch 5. Charlottetown CBCT E ch
13. Rimouski CJBR F ch 3. St.
John/Moncton CKCW B ch 2, CHSJ
E ch 4, Moncton CBAFT F ch 11.
Calais WMEB P ch 13. Bangor
WLBZ N ch 2, WABI C ch 5, WVII
A ch 7. Presque Isle WACM A,C,
N ch 8, WMEM P ch 10.

Central Florida CFL
minus WSWB I ch 35 Orlando

Western Ontario WON
add CBLFT F ch 40 London
add TVO ch 32 Windsor
add CBEFT F ch 78 Windsor
add TVO ch 59 Chatham

Arkansas ARK
add KETG P ch 9 Arkadelphia
add KTIM P ch 13 Monroe/W. Monroe/
El Dorado

Vermont VER
add WCFE P ch 57 Flattsburgh

Montreal-St. Lawrence MSL
add CHEM TVA ch 8 Trois-Riviers

Louisiana LSA
add KLTM P ch 13 Monroe

Central Ohio COH
WMUB now WPTO
WLWD now WDTN
WOET now WPTD
minus WGSF Newark

Oregon State ORE
KMED now KTVL

South Georgia SGA
add WECA A ch 27 Tallahassee
add WDHN A ch 18 Dothan
WDTB now WMBB

Alberta ABR
add CITL B ch 4 Lloydminster

Colorado COL
add KEVN A,C ch 7 Rapid City
add KEHE P ch 9 Rapid City

Michigan State MIC
add WTOM N ch 4 Cheboyan

Iowa IOW
add KDUB A ch 40 Dubuque

Phoenix PHX
minus KPAZ

South Florida SFL
add WHFT I ch 45 Miami

Western Washington State WWA
add CKVU I ch 21 Vancouver

Pittsburgh FGH
add WQEX P ch 16 Pittsburgh
add WUAB I ch 43 Cleveland

North Georgia NGA
add WATL 36 I Atlanta

Eastern Washington State EWA
add KTVR P ch 13 La Grande

These are all major station changes. Some metro stations added to many editions are not listed as they are cable imports for these editions only. I have not yet had time to check network changes but I plan to list them as they are found.



I have not yet been able to obtain a source for the Mexican schedule magazine TELE GUIA. If anyone has knowledge of where these might be obtained please write. Members in border states are asked to check their local magazine shops for TELE GUIA.

KMJ-TV 24

The SAN JUAN STAR has supplied a copy of their Sunday TV section. It contains WKAQ ch 2, WAPA ch 4, WIPR ch 6, WRIK ch 7 & WKEM ch 11. This is the only schedule information I have been able to get for Puerto Rico at this time but I am working on a source for the PR TELE GUIA.

Unidentified FM DX

Frank Aden, Jr., 1535 NW Ithaca Ave., Bend OR 97701 (1977 unIDs)
Thu Jun 9 94.9 Es 1100 PDT- "The time is now? past 2". "Music is W---". This had to be a 2Es reception. I was receiving MN area at time so suspect this to be in NE USA. Format appeared to be MOR. Does anyone recognize the format used?

Unidentified TV DX

Kurt A. Nelson, 127 Elm Ave., Rockledge PA 19111 (1977 unIDs)

Nelson cont.

Mon May 30 Es ch 4 1830 EDT- "The Waltons" began at 1830, Kraft peanut butter ad called itself "Canada's Leading Peanut Butter". (None of the CDN TV GUIDES are positive---could this be a US border station running CDN ads.---FEA.)

Scott Levitt, 328 Rahway Ave., South Plainfield NJ 07080 (1976 & 1977 unIDs)

Tue Jun 27 Es ch 3 1812 EDT- "Family Affair" PTA for Jun 27 is AR, LA, MS

ch 3 "Truth or Consequences"

ch 2 "Zoom" + or - offset

ch 3 "Beverly Hillbillies"

ch 6 "Beverly Hillbillies"

Wed Jul 28 Es ch 4 1630 EDT- "Nanny and the Professor" PTA: FL, LA, GA

Wed Aug 11 Es ch 3 1950 EDT- "Gomer Pyle" PTA: TN, MO, AR

Sat Jun 12 Es ch 6 1330 EDT- "Soul Train" - offset---possibilities: WBRC, WDBO, WJIM, WLUC, KAAL, KMCS, KAVE, KPLO, KPDM, KAUZ. (All TV GUIDES for 1976 were cut up for logos and to make room for 1977 set ---FEA.)

Thu Jun 2 Es ch 4 1700 EDT- News till 1700 logo with NBC in triangle and surrounded by circle, o offset. (This is the New Foundland Broadcasting Co., CJCN. ---FEA.)

David Leibold, Box 279, Blyth ON (1977 unIDs)

Sat May 7 Es ch 3 1510 EDT- A drama show. Looked like Victorian age. Probably PBS station. PTA: Atlantic coast probably Florida. (WEDU has classic theatre type show at this time---just might be it. ---FEA.)

ch 4 1511 EDT- "Space 1999" Started at 1500. PTA: Same as above. (WTVJ checks. ---FEA.)

Thu May 19 Tr ch 12 2150 EDT- Razor commercial then car commercial then Police show. Looked like "Adam 12". CHEX? CKVR repeater? (TV GUIDES are no help on this. Anyone have any ideas? ---FEA.)

Roy Horsley, Rt. 10, 169 Lakeshore Dr., Gadsden AL 35901 (1977 unIDs)

Wed Apr 6 Es ch 4 1830 CST- "Beverly Hillbillies". PTA: South USA. (WECT checks, ---FEA.)

Wed May 11 Es ch 5 1830 CDT- Lone Ranger cartoons in Spanish. Later man in green coat with puppet next to him. Large 5 on microphone. XHGC?

ch 4 1905 CDT- ID as XHTV? Logo consisted of 4 with canal in horz. part of 4. (Probably XHTV. ---FEA.)

Thu May 12 Es ch 2 1630 CDT- "Archie Show". PTA: N or West.

ch 3 1710 CDT- "Our Gang Comedies" Michigan possibly seen in address. (WKZO is negative. ---FEA.)

ch 2 1715 CDT- "Zoom"

ch 3 2250 CDT- "Banacek" in Spanish.

Mon May 16 Es ch 4 1630 CDT- Multiple ID-El Centro-3, Puebla-3, La Gala-?, Moralos-?, El Quatero-2. Any ideas?

Fri May 20 Es ch 4 1650 CDT- "Gunsmoke" PTA: Texas. Suspect KGET or KDFW. (KMOL checks. ---FEA.)

ch 5 1700 CDT- Exercising, could be "Ilias Yoga & You" PTA: TX. (KTXH & KNME are negative. ---FEA.)

ch 3 1740 CDT- "Bewitched". Suspect KACB or KBTX. (All TX ch 3s are negative. ---FEA.)

ch 5 1745 CDT- NBC News. Does WBAP have it at this time? (Yes they do but WBAP is now KKAS. ---FEA.)

ch 3 1745 CDT- Same as above. Does KACB and KARD have it at this time? (Yes they both do. ---FEA.)

Mon May 30 Es ch 3 1459 CDT- Exercise program PBS?

ch 2 1459 CDT- Retna TP, at 1505 Exercise program. KPRY seen at 1440. (Not KUSD but KGFE has yoga at this time. ---FEA.)

ch 3 1510 CDT- Hands of cards shown. People playing bridge. GDN?

1510 CDT- "All in the Family". How many CBS 3s on MDT in range. KTVS, KOTA probably the best bet, KTVS checks but not on KOTA. ---FEA.)

k

KTVS-TV Stirling

The 1977 WTFDA Convention in Portland is ready for you! See the complete details somewhere else in this issue. Don't miss it as it is the first big chance to come out west and to try the DX! 73's

Frank



STATISTICS

Andy Bolin, Editor
709 Lincoln Ave.
Charleston, Illinois
61920
Deadline Aug. 10th

DXer Location	TOTAL	88-92	Es	MS	Au	USA	CN	MX	FO	TPU	YB	Date
Andy Bolin, Charleston IL	1695	247	597	89	276	44+	7	4	3	59	70	5/10
Bruce Elving, Duluth/Adolph MN	1373	116	631	7	8	43+	3	1	0	48	48	11/20
Pat Dyer, San Antonio TX	1062	123	845	16	0	39+	2	6	3	51	70	3/7
John Ebeling, Bloomington MN	996	137	495	15	70	45+	4	3	0	53	52	1/1
Michael Dalton, Clearwater FL	919	191	479	4	0	41+	2	11	12	67	72	3/26
Fred Nordquist, Clay NY	824	102	328	15	26	38+	3	0	2	44	69	7/20
Fred McCormack, Des Lacs ND	795	100	582	21	65	43+	6	3	0	53	65	7/3
Peter Sawatzky, Waterloo ON	777	90	308	105	5	38+	4	0	1	44	71	4/8
Joseph Pella, So. Plainfield NJ	682	135	264	2		37+	2	0	2	42	68	8/21
Roger Winsor, Hobart IN	653											6/14
Danny Buntin, Stillwater OK	644	74	360	0	0	40+	3	3	0	47	74	1/9
E. Lyons, Belleair Bluffs FL	578	174	165	1	0	38+	2	8	11	60	74	4/22
Tom Cornell, Kokomo IN	515	90	15	0	0	16	1	1	0	18		8/24
R.J. Steinberger, Hudson MA	434	72	162	7	6	31+	2	0	0	34	58	10/2
S. Wiseblood, Santa Maria CA	413	49	268	12	0	19	3	4	0	26	71	1/6
Joseph Smith, Johnson City NY	347	37	52	3	0	22+	1	0	1	25	71	7/24
Doug Everitt, Enid OK	340	58	161	15	0	29+	3	5	0	38	74	5/3
John Zondlo, Hammond IN	152	26	14	0	0	11	1	0	0	12	71	10/7
Michael Schaeel, Davenport IA	142	15	0	0	0	7	1	0	0	8	71	4/5
W. Dickerman, Williamsport PA	134	14	15			15+	1	0	0	17	71	12/27
Frank Wheeler, Erie PA	133	16	0	0	0	5	1	0	0	6	64	9/2
Ken Simon, West Palm Beach FL	127	53	72	0	0	17+	1	1	4	24		8/17
Pete Oprisko, Whiting IN	109	109	4	1	1	14	1	0	0	15	76	7/10
Michael Hogan, Highland IN	71	21	1	0	0	6	0	0	0	6	73	1/8

Updates required by Roger Winsor & Joseph Smith.

FOR THE NEW PEOPLE! TOTAL, means the total number of FM stations logged. (Frequency changes count as a new station, call letter changes DO NOT count.) 88-92 is ALL (foreign or commercial included) stations logged from 88.0 to 91.99. Es mean the total number of stations logged via skip. MS, is the total by meteor scatter & Au is the total via aurora. USA, means the total number of states and the + means Washington DC. CN is the number of Canadian provinces logged; MX is the number of Mexican estados logged; FO, means the number of foreign countries logged, but NOT Canada or Mexico. TPU or "total political units", is the sum of USA CN MX & FO. YB, is the year you began FM DXing.

QSL CORNER

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

- FL WBBH 20 Ft. Myers, 3719 Central Ave, 33901. Letter and coverage map from David A. McKelvey, CE in 10 days. (Samford)
- NC WFRV 2 Greensboro, Drawer 22047, 27420. Letter and QSL-Card from Frank E. Willis, CE in 10 days. (Samford)
- TX KXIX 19 Victoria, Box 1879, 77901. Letter from Mel Wyatt, Operations Manager in 22 days. (Samford)
- KHTV 39 Houston, Box 1439, 77001. Letter, program schedule, and coverage-map from Carrie Woliver, Promotional Department in 15 days. (Samford)
- KORO 28 Corpus Christi, 600 Leopard Street, Suite 102, 78401. Very friendly letter from Chief Engineer Tom Weems, in 16 days. (Samford)

Only one reporter again, but a new one, and a new member too. I waited for the last day to type up the column, for I had nothing until I got a report from Rick Samford from Burnet, Texas who saved the day for me. I'd like to thank Rick for sending in a report. It shows that there is someone cares for keeping this column going strong. I'd also like to thank Clarke for putting in a plug for me. Send in you report today, for I'm out of items again! The skip season is again, and lets get a few reports in the QSL Corner. 73's and HELP!!!!!!

Tom

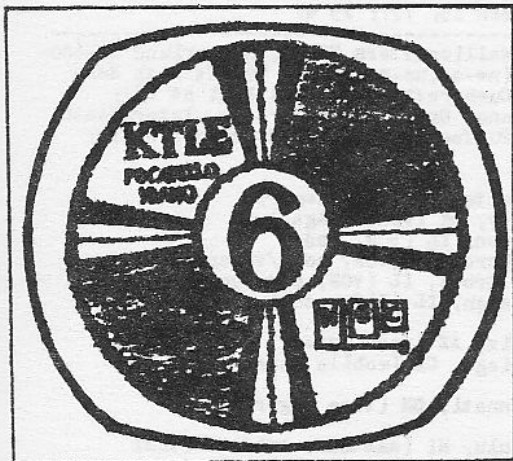
Memorabilia

July 1977



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

This month, MEMORABILIA presents a couple of drawings of two Idaho stations, drawn and submitted by your editor. One is of KLDX-11 Twin Falls (now KMVT); and the other is of KYLE 6 Pocatello. KYLE transmitted from a site three miles west of the city. The station at first carried the NBC-TV network, then left the air when KIFI-8 Idaho Falls commenced operations with NBC programming. KYLE later operated as an independent outlet, and finally carried a limited amount of ABC programming. The station finally left the air permanently in November of 1971. The new Pocatello station, KPVI 6, carries full-time ABC programming and transmits from a site northeast of the city.



KYLE 6 Pocatello, Idaho
(now KPVI) (rjw)



KLDX-11 Twin Falls, Idaho
(now KMVT) (rjw)



How about sending in histories of stations (with photos of TPs, call-slides, station buildings, transmitter antennas, etc.)? Also, if you want to send in old QSLs to appear in this column, but hate to risk losing them in the mail, why not send in good COPIES of the QSLs (such as XEROX-type copies)? Also, any other interesting material for this column. 73s, gud DX, *Bob*



VHF UTILITY DX

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

JULY 1977

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

<u>2-20:</u>	0340, N327K	127.95	off NY(Ford Motor Co.; Grumman Gulfstream 2; 2-engine jet; 30 watts)
<u>21:</u>	1412, N8855E	128.7	(Eastern 947; Boeing 727; 25 watts)
	1417, N8114N	128.7	(Eastern 34; 727; 25 w)
	1541, N4570	128.1	(National 426; 25 w)
	1603, N321EA	134.0	(Eastern 886; Lockheed L-1011; 25 w)
	1629, N8170G	134.0	(Eastern 15; 727; 25 w)

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600-JX-10; two 30' long-wires at 12' (nw-se, ne-sw runs); 50-MHz with Swan 250, Ameco nuvistor preamp, 3-el Cushcraft horizontal Yagi at 18'; VOR's (5-20) SX-62 with International Crystal SAX-1 reamp, later Heath GR-98, 6-el Archer FM antenna at 20 feet; GMT used; Es unless noted; new underlined

<u>5-12:</u>	0728, KIM 905	35.22	Charlotte, NC (tone pager)
	2355, OK City	35.58	OK City, OK (voice pager)
<u>20:</u>	2217, "RSV"	108.4	Robinson, IL (VOR, code)
	2232, "OWB"	108.6	Owensboro, KY (VOR, code/voice)
	2235, "BIB"	109.0	Bible Grove, IL (VOR, code/voice)
	2245, "ICMI"	109.1	Champaign, IL (ILS, code)
<u>22:</u>	2155, -	30.30	(F2)
<u>25:</u>	1927, KOE 257	35.22	Phoenix, AZ (tone pager)
	2000, San Die	35.46	San Diego, CA (mobile phone)
<u>26:</u>	2025, -	30.30	(F2)
	2218, KQC 887	35.58	Cincinnati, OH (tone pager)
<u>28:</u>	2310, -	30.30	(F2)
<u>6-4:</u>	0310, KH6IJ	50.1-	Honolulu, HI (amateur, ssb/cw) (3Es)
	0420, KH6IAA	50.1-	Hilo, HI (amateur, ssb) (3Es)
<u>10:</u>	2232, "OZN"	109.8	St. George, UT (VOR, code)
	2238, "CDC"	108.6	Cedar City, UT (VOR, code)
<u>11:</u>	2358, "CDC"		
<u>12:</u>	0009, "OZN"		
	0022, "ICM"	108.8	Kingman, AZ (VOR, code/voice)

Other more dramatic VHF events occurred in June. On June 4, 5, and 11 several Japan to California contacts were made on 50-MHz via Es. This is an unprecedented event that requires some 4 to 5 Es hops!

Hawaii 6-m signals were heard as far east as New Brunswick. Several east coast US stations managed to make contacts with the KH6's.

The French beacon (see May column) was activated on May 26. The delay was due to antenna installation problems. The system of stacked 5-el beams is not functioning at maximum efficiency. Some traces of the signal have been reported heard in New Brunswick.

As mentioned before, much more detailed coverage of these 50-MHz events is likely to be found in the upcoming issues of QST. (I just do not have the space to handle all the second-hand info that comes my way.)

June 11-12 had several reports of 144-MHz (2-m) Es openings from Texas into California, Arizona, and Nevada as well as other points. This was during an ARRL contest so lots of stations were active to catch it.

With the rising solar flux a lot of the 6-m events have unfortunately been linked by some to F2 layer activity. It is the wrong season for F2 to peak under any solar level.

73, Pat

WA5IYX

TV APPROVALS

MATANE, PQ CBGAT Pres: ch. 9 153 kw. @ Mt Logan Auth: ch. 6 5.2 kw @ St-Adelme
Also approved were changes for CBGAT satellites in Mont Climent, Matane,
Murdochville, Grand Vallée, & Gaspessac... plus new repeaters for Beie Comeau,
Mont Louis en Haut, & Ste Anne des Monts. For details see MAY ODN. REPORT.

BAIE COMEAU ch. 28 3.5 kw. Sat. OBMT
RIMOUSKI ch. 11 142 kw. Sat. OFCM Quebec (TVA)
SEPT ILES ch. 11 3.8 kw. Sat. ch.11 Rimouski above
ISTERHAZY, SASK ch. 25 10 kw. Sat. CKOS Yorkton -owned by CBO

TV APPLICATIONS

HULL, PQ ch. 30 727 kw. Sat. CIVM-TV Montreal (Radio-Quebec)
BEARN/FABRE CKRN-TV-5 ch. 3 Pres: 166 watts Prop: 1733 w.
SEPT ILES ch. 3 1.5 kw. Sat. CBMT
BONNE BAY, NFLD CBYT-3 ch. 2 Pres: 6.2 Prop: 1.8 kw.

FM APPROVALS

HALIFAX, NS 90.5 MHz 100 kw. Sat. CBH-AM "The Commission will wish to review
with the CBO the need for the continued use of 860 kHz as the penetration of FM
receivers in the Halifax area increases."
TORONTO, ONT CILQ-FM 107.1 MHz 40 kw. 1380' EHAAT (ON TOWER) ID as Q-107
LONDON 99.3 MHz 22.5 kw. Sat. CJBC-AM Toronto
WINDSOR 89.9 MHz 100 kw. Sat. CBL-FM Toronto (CBO-FM §)
BRAMPTON OFNY-FM 102.1 MHz Pres: 857 w. Auth: 100 kw. new site Finally!

FM APPLICATIONS

MARYSTOWN, NFLD 90.3 MHz 100 kw. Sat. CBN-AM St. Johns replaces CBNM-AM 740 10 kw.
BAIE VERTE 97.3 MHz 5850 watts Sat. CBT-AM Grand Falls
Mt. St. MARGARET 99.9 MHz 10 kw. Sat. CBY-AM Corner Brook
SYDNEY, NS 105.9 MHz 100 kw. Sat. CBC FM § net. & part time CBI-AM
JOLIETTE, PQ 105.1 MHz 4 kw.
HAMILTON, ONT 95.3 MHz 50 watts by McMaster Univ. (nearby Jamestown NY OOI)
WATERLOO, 94.5 MHz 50 watts by Univ. Waterloo (nearby WTED Buffalo)
FT. ALBANY 102.3 MHz 1 kw. Sat. CBL-AM Toronto & part time LPRT network
GODS L. NARROWS, MAN 99.9 MHz 1800 watts Sat. CBW-AM Winnipeg
WAASAGOMACH 105.1 MHz 1700 watts Sat. "
REGINA, SASK OFMG-FM 92.1 MHz Pres: 6.2 kw. Prop: 100 kw. new site
SASKATOON 104.7 MHz 98 kw. § Sat. CBC FM § ENG network
KELOWNA, BC 99.1 MHz 2 kw. Sat. CBUF-FM Vancouver CBC FR AM network

CBO has purchased CJBR -AM, FM, TV & OFDM-FM (Rimouski & Drummondville)

CANADA ALL NEWS RADIO has applied to purchase (& increase power) OFOX 1470 kHz in
Pointe-Claire (Montreal)...to be its only AM xtr in its all-news FM network.

THIS IS THE LAST CANADIAN NEWS COLUMN. Canadian news will henceforth be found
in the respective "FOO" columns.

We hope that over the past 5 years you have found the information contained in
Our Column helpful in identifying Canadian DX mysteries, as well as useful in keeping
your station lists up to date.

Special thanks to those who have sent us past news clippings and station information.

It has been a pleasure serving you.

75! & continued good Canadian DX,

Joel & Mark



NEXT MONTH in the VUD

- WTFDA Member Survey Results
- Janowiak's "Polarization" Resumes
- Asian-African FM Changes



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

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TO BEAT**

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

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