

From The Staff:

WTFDA Headquarters, P.O. Box 97, Calumet City, IL 60409

OUT OF SYNC?...Our thanks to Harry Hayes for this month's cover. The April VUD may be a bit out of sync itself--you'll probably be reading this in early May. From now on, you can expect more timely VUDs--just in time for the DX season.

NEW FM ATLAS OUT SOON...FM DXers, please take note. The sixth edition of Dr. Bruce Elving's *FM Atlas* should be ready in May, in time for the start of the FM E-skip DX season. Check Bruce's FCC FM NEWS column (page 14) for more info.

THE F2 MYSTERY CONTINUES...F2 skip watchers continue to be amazed at how quickly the high-MUF F2 skip dropped off this past winter, particularly on the transatlantic paths. So far, we haven't heard of any sign of South American TV signals logged in North America via F2, but many southern DXers are hoping for a repeat performance of the event last April that brought South American ch A2 signals into south Texas on at least one good day. As this is being written, north-to-south paths are showing promise. It remains to be seen if any transequatorial scatter (TE) DX will coincide with an early season E-skip opening. If and when that takes place, some southerly DXers could be in for the type of DX that set our all-time DX records of the late 1950's.

FOR YOU "BIRD" WATCHERS...We've got a real treat for those DXers interested in satellite reception this month. On page 6, National Public Radio's Greg Monti details the system used by NPR to distribute their network service to affiliate stations. With more and more VHF/UHF DXers getting interested in satellites, we'd like to know if WTFDAers would be interested in seeing more articles of this type in the VUD.

VHF UTILITY DXERS...If you wondered why there was no February VHF UTILITY DX column, it's certainly not due to a lack of VHF DX! Pat Dyer's February column was lost in the mail, but we have a duplicate in this month's issue. Despite the delay, it was worth waiting for. Our thanks to Pat for taking care to duplicate his finished copy.

TABLE OF CONTENTS

MAILBOX: A helpful hint for better UHF TV DX audio.....	3
INTERNATIONAL NOTES: Lots of news from many places.....	5
NPR'S SATELLITE INTERCONNECTION SYSTEM: All on the "bird".....	6
PHOTO NEWS: A look at John Barber's DX set-up.....	8
NORTHERN FM DX: Not much DX in the last weeks of winter.....	10
SOUTHERN FM DX: No February Es, but great Gulf tropo.....	11
FCC FM NEWS: New <i>FM Atlas</i> coming in early May.....	14
QSL CORNER: All TV QSLs, and many UHF veries.....	15
WESTERN TV DX: Pat Dyer catches Es, super Gulf tropo.....	16
EASTERN TV DX: More reports on great DX conditions.....	17
VHF UTILITY DX: The February column, at last!.....	23
Unexplainably poor February conditions.....	28
TECHNICAL TOPICS: On co-channel video interference.....	34

WTFDA



MAILBOX

John Zondlo
1802 N. Rockwell
Apt. 107
Bethany, OK 73008
(405) 787-3717
Deadline: 10th

New Members:

J. Mario Abrego 191 Todt Hill Road
Bill Fauber 336 Atlantic St.
Frederick W. Martin 12 Eversdale Court
Ken Onyschuck 239 Fir St.
Bob Umhoefer R.D. #2, Box 60
Valley Crest Road

Station Island, NY 10314
Bridgeton, NJ 08302
St. Louis, MO 63124
Park Forest, IL 60466
Annandale, NJ 08801

Renewals:

Fred Born, Jr., Roger Carriere, William Draeb, Alvin Fair, Mark Harms, Glenn Jacobs, John Marx, Greg Monti, Jim Pizzi, Les Price, Rick Samford, Richard Steinberger, John Sulak, Verrell Tallet, Neil Hank.

Address Changes:

Tanio Sugihara - Corpo. Tatsumi - 10-9, Nakaikegami 2 - home - Ota-ku - Tokyo 146, JAPAN
Doug Talley-2545 237th St.-Torrance, CA 90505

Renewals Due in May:

Alvin Berger, Murray Bernstein, Bill Coleman, Jim Gill, Patrick Golembiewski, Melvin Goldberg, Robert Goodman, James Gordon, Joe Gragg, John Griffiths, Jim Jennings, Jeff Kadet, Paul Kalisz, Neil Kazaross, James Kingsbury, Scott Levitt, Joseph Longmoore, Paul Louks, Doug McAbee, Lowell McCown, Tim McVey, Charles Mylod, Rod O'Connor, Bill Phillipson, Michael Rosen, Ken Sarkozy, Peter Skinner, Robert Taylor, Adrian Thomas, David Tomlin, Roy Wilson, Jr., Jeff Wolf, Donald Woods, Robert Zent, William Zumstein.

Welcome to new member BILL FAHBER! He writes, "Reference was made in the 1980 Communications World magazine about your club, and I became very interested in it when I saw it. For years my hobby had been DXing distant television stations, but I seldom hear of anybody else trying it."

BOB UMHOEFER is sales manager for an auto dealer in Bernardsville NJ. He's interested in PSB monitoring, and has an impressive list of gear: Bearcat 250, Bearcat 101, Tennelec MCP-1, Realistic Pro-77 crystal-controlled scanner, Realistic Pro-28 tunable receiver, Lafayette Micro-P50 tunable receiver, Realistic Hi/Lo pocket scanner, Realistic Hi-Band pocket scanner, and a Russell Digi-10 Hi/Lo pocket scanner. We'll have more from Bob in Tidbits.

Tidbits.....

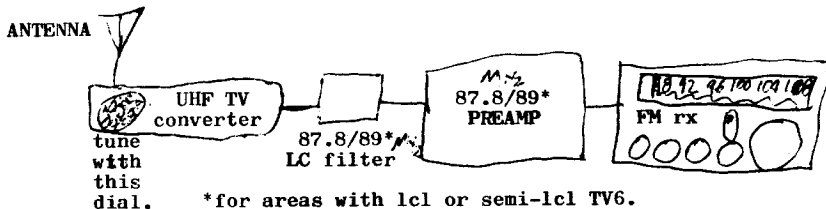
The first item this month comes from Phil Boersma. "I have noted a couple of reporters in recent FM-DX columns reporting 92.9 Cadillac MI station as "WWAM." THOSE ARE NOT THE CORRECT CALLS. WWAM is the AM station on 1370, and the FM station is WKJF. Unfortunately, WKJF's excellent class C facilities are totally wasted by simulcasting WWAM 100% (Cadillac is small enuf to do that legally), and the only time the FM calls are used is on the hour (and I have heard them forget to use them then, too). So anyone hearing a "WWAM" on 92.9 is hearing WKJF--got that? hi. Wolverine state member Robert Grant has more to say about his WJBK catch (referred to in a couple past issues): "I seriously doubt that the WJBK catch was xGW or Tr. The antenna was at only 10' RAT (the rafters of the cottage) and Detroit stations were only seen during early morning hours and much weaker. The catch was medium-weak in signal strength, and no evidence of tropo whatsoever (even the Green Bay stations were weak). Stations in by skip at the time were WDIQ, WSB, WESH, and WCBD, all on 2. The time was 1725 EDT (1539 honor solar time, a very rare time for tropo) 7/24/79 and fading was E-skip style and in sync with the other E-skip stations. Although backscatter was possible, I don't think it was the mode of propagation for this catch. I seem to favor those mode possibilities, in order of chance: (1) Es (simply a very short E-skip), (2) As- airplane scatter (I have nicknamed this propagation "April fool skip" because on 4/1/79 I thought I had skip until I saw a WEWS-5 ID; this mode features the same fading and "micro-smearing" conditions Es has. As mode is also explained by the severe local ghosting you get when a DC-10 or a 747 flies by. (3) MS- meteor scatter is heavy in late July.

(Grant, cont.) I have sent my reports to GCI & Eastern TV DX, with unIDs out. They should be in the March VUD.

To those who bought, built, or converted U.S. sets to foreign TV DX: Don't throw out your set when the F2 is over. DXing of these stations is entirely possible by multi-hop Es, especially during the last week of June. And you'll see much less ghosting and possibly good sound and pix at the same time!

Looking for more UHF selectivity? A TV set is made to pick up wide bands. But an FM radio is made to pick out an FM radio channel. So for a strong, selective UHF TV audio receiver use a UHF TV converter, a good LC filter, a tuned preamp, and an FM receiver or 87.8 or 89.0 MHz (see drawing for block diagram). With this kind of receiver you can hear the weakest or channel 19's next door to WXON-20's transmitter.

Block diagram:



I think Mike Allmark's F2 DX stations are WLBZ/CKCW, as this was the area most affected by F2 and he mentioned seeing an "AV" slide (this could be ATV, whose logo resembles "AV," of which CKCW is a member). Mike, you should join the WTFDA!"

This month we have Wolverines back-to-back; here's a few words from John Robertson- "Regarding John Sulak's problem with adjacent channel interference: I don't know about his antenna, but he might try a better TV set. Of course, it's probably cheaper to fix the antenna. I recently got a Beta Video Cassette Recorder and it handles adjacent channel interference much better than my TV set. With it I can get CHCH-TV channel 11 with no interference from CPPL-TV channel 10. WUAB-TV channel 43 comes in nearly all the time without much interference from CKCO-TV-3 channel 42. Maybe he should get a VTR, hi.

Speaking of VTR, I read a few VUDs ago where some DXers had VHS recorders and wanted tape traders. Well, I have a Beta format and am wondering if there are any DXers in the club with a Beta VTR willing to trade tapes?" John's address is 6065 Gardner Line, Crosswell, MI 48422.

As promised, here's more of a rundown on Bob Umhoefer's receiving gear: "The Bearcat 250 is coupled to an Antenna Specialist's tri-band antenna with a Realistic (Gavin Electronics) amplifier and pre-amp set-up. Just over 50' of RG58/U wire is used for the hook-up. The Tennelec MCP-1 and one of the Realistic Pro-77 scanners are hooked up to an Antenna Specialist's Hi/Lo band ground plane antenna through another Realistic (Gavin Electronics) amplifier/preamp set-up, with once again about 50' of RG58/U wire. The signal is split to the two sets through a 0-900 MHz splitter. The other Realistic Pro-77 and the Realistic Pro-28 are hooked up to another Antenna Specialist's Hi/Lo band ground plane antenna, using just over 30' of RG58/U wire and an Antenna Specialist's MON-26 preamp. The signal is split in this case through the use of CB antenna splitter put out by Gold Electronics. All of the aforementioned antennas are mounted to either the roof of our house or its attached garage. The Lafayette Micro-P50 tunable is operating off of its own antenna attached to the back of the set. (This was the set that started it all, many years ago.)"

To round it all out this month, we continue our comments from West Germany's A.H. Wieze: "I told you of my DX-device? Well, I'm using a 14 element yagi (12 dB gain) with preamplifier on a German-made rotor (Stolle multimatric). My DX receiver is a Grundig Satellit 3400. You don't know it? Look at their ad on page 43 in the '79 edition of WRTVH. It's a very fine receiver; I was able to tune in AFN-Frankfurt on 98.7 although on 98.5 there's a very strong outlet of the Bavarian network (3rd program), located at nearby Wendelstein. I'm planning to install a better preamplifier (with a S/N ratio of better than 1 dB). I expect with this one my receiver will explode with stations never heard before. Till now, I've logged 112 FM stations."

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

INTERNATIONAL NOTES from

Ken Simon
513 6th Avenue South
Lake Worth FL 33460

From TRACY WOOD in Tarija, BOLIVIA comes news of the country's TV systems ...the government network is Television Boliviana (TVB) and it uses 625 lines. Programs run from 4 p.m. to midnight Tuesday through Friday, 11 a.m. to midnight on weekends and Mondays are reserved for special holidays. All B&W with commercials.

La Paz (studios)	ch 7	5 kw
Oruro (Negro Pabellon)	10	500 w
Santa Cruz	9	500 w
Cochabamba	9 ?	500 w
Sucre (Colquechaca)	?	??
Potosi (Malmica)	?	??
Potosi (Cerro Rico)	7	1 kw (cp)

This is an old list and Tracy says some shifting is expected.

The other network is the Television Universitaria (TVU). This is a very loose net with all carrying their own programs. It used 525 lines and NTSC color.

University	City	ch	power	hours (24 hr time)
Juan Misael Saracho	Tarija	8	1 kw	tu/th/sa 18-24; su 11-13
Juan Misael Saracho (R)	Bermejo	8	100 w	m-w/fr 18-24
Tecnica de Oruro	Oruro	8	??	??
Tomas Frias	Potosi	9	100 w	four nights a week
Jose Ballivian	Trinidad	9	??	??
Mayor de San Simon	Cochabamba	11	??	tu-f 19-21:30
Gabriel Rene Moreno	Santa Cruz	11	10 w	th-su 18:30-23:30
San Francisco Xavier	Sucre	12	100 w	??

(This is an old letter I received before I moved...and just found)

From RICHARD DOUGLAS in St. John's, ANFIGUA says the local station ABS-TV uses 525 lines and NTSC color. An STL is used from the studio to transmitter. (I'm confused here...) he says the audio signal is on 193.5 MHz. He says hours are 6 p.m. - 10 p.m. (WRTVH lists channel 10)

DICK CLARK in La Vega, DOMINICAN REPUBLIC needs some help with STRANGE loggings...

ch 4 via tropo, with 6 Million Dollar Man in English at 6:30 p.m. EST... then off a 7 with NO ID and U.S. national anthem. (AFRTS???)

ch 3 via tropo carrying programs from CKCU-TV (ch 21) and KIRO-TV (ch 7) with sign off at 1 a.m. No local ID and CKCU/KIRO local ads and IDs... open carrier between programs.

Dick also writes he's finally logged ZNS-TV (ch 13) Nassau, BAHAMAS (I haven't yet) and says he took some color pictures of WPLG (ch 10) Miami!!! Any help with the MYSTERIES will be forwarded to Dick. Will devote an entire column to Dick's FM listings soon.

KOCIS FERENC in Fertod, HUNGARY, sends along a list of TV and 66-73 MHz FMs. He says he has 14 antennas and lists stations he's seen in Hungary, Austria, Czechoslovakia, Yugoslavia, Poland and West Germany. His best tropo in the list is Biokvo ch Elj (Zagreb II) at 460 km and Steinkimmen ch E2 (NDR-1) at 850 km. He also lists DX to Portugal, Ireland, Norway, Crete, Egypt, Canary Islands, Jordan, and Lebanon!!! He sent a BATCH of 20 photos. (I will try to make these into a picture page).

(continued on page 22)

NATIONAL PUBLIC RADIO'S SATELLITE INTERCONNECTION SYSTEM

by Greg Monti

Ever since National Public Radio began its first AT&T landline service in 1971, they looked for a better way to distribute programming in high quality on a national scale. AT&T could not, and still cannot, provide frequency response better than about 100 Hz to 5 kHz and a signal-to-noise ratio of 40 to 45 db without great capital expense. Harmonic distortion often exceeds 2 percent. NPR took to distributing music programs, mostly of the classical and jazz genres, by duplicating stereo tapes and mailing them to member stations.

In the late 70's, NPR gathered researchers, design experts, and corporate R&D departments and came up with a satellite distribution system. Flexibility and quality were stressed. NPR wanted the ability to distribute programs in both mono and stereo, and, should the need arise, in quad. It also wanted the ability to originate programs from cities other than Washington, where NPR's technical center and studios are located. A 12-channel system was proposed, capable of transmitting up to 12 mono or six stereo programs simultaneously. The bargaining power of the Corporation for Public Broadcasting was used to help NPR contract for the use of part of transponder 2 on Westar I, one of Western Union's domestic telecommunications satellites. It orbits the earth in the plane of the equator at 99⁹⁴W.

Technical quality would have to be as good as or better than that offered by FM broadcast stations which, by and large, make up NPR's membership list. Taking this and flexibility requirements into account, designers decided on a single-channel-per-carrier system (SCPC). Each carrier can be transmitted to the satellite individually, and each may in fact be transmitted from a different city and still be received with equal quality anywhere in the country. The carriers used to carry programming use a peak deviation of 75 kHz, the same as that used in FM broadcast. To keep noise to a minimum, each channel's audio signal is pre-emphasized and compressed by a ratio of 3 to 1 at the transmitting end and de-emphasized and expanded by a ratio of 1 to 3 upon reception. This provides a total dynamic range of about 80 db, larger than that of virtually any FM station. This is achieved in spite of the high noise floor received after the 40,000-mile-plus round trip to Westar, where the path loss is typically over 100 db. The received carrier-to-noise ratio is usually around 20 db.

The exact frequency plan is given below in MHz. The IF frequencies shown are those actually generated by the modulators and detected by the demodulators. There is an SHF-to-VHF downconverter at each receive site and a VHF-to-SHF upconverter at each transmit site.

Channel number	Uplink frequency	Downlink frequency	Intermediate Frequency
1	5990.3	3765.3	75.3
2	5989.6	3764.6	74.6
3	5989.2	3764.2	74.2
4	5987.8	3762.8	72.8
5	5987.5	3762.5	72.5
F1	5987.2	3762.2	72.2
6	5986.9	3761.9	71.9
F2	5986.1	3761.1	71.1
7	5983.3	3758.3	68.3
8	5982.7	3757.7	67.7
9	5982.4	3757.4	67.4
10	5981.0	3756.0	66.0
11	5980.6	3755.6	65.6
12	5979.9	3754.9	64.9

NPR's SATELLITE INTERCONNECTION SYSTEM

The modulators and demodulators are equipped only with 12-position thumbwheels marked with the channel numbers. A programmable-read-only memory in each unit provides the necessary local-oscillator frequency for receiving or transmitting on the desired channel. Each of the 210 receive only (RO) stations is equipped with four such demodulators, providing for simultaneous reception of up to two stereo or four mono programs. AM-FM combination stations are provided with eight demodulators, as are FM-FM co-owned pairs (like WFPL and WFFK). The only other items required for an RO site are a 4.5-meter-reflector antenna, a low-noise amplifier (a broadband SHF device), and a downconverter. The 4.5-meter dish is usually located in the backyard of the NPR member station. At some sites, such as in major cities, the antenna and related equipment must be located as far as several miles from the station's studios, interconnected by a microwave link or by local, 15 kHz telephone lines. In those cases, stations have remote control of their demodulators and other equipment at the remote site. In a few cases, where an NPR member station and a PBS television station are near each other, the existing PBS receiving dish is used since it, too, is pointed at Westar I. The RO antennas at all NPR stations are capable of being pointed at Westar II in case of catastrophic failure in Westar I.

In addition to the Main Origination Terminal near Washington, which is capable of transmitting on all 12 channels at once, sixteen major public radio stations are provided with uplink transmitters. Three are in the west, at KUSC, Los Angeles; KQED-FM, San Francisco and KUOW Seattle. One is in the Rockies, at KCFR, Denver. Seven are in the midwest, at WBEZ, Chicago; KSJN-AM-FM, Minneapolis; KCUR, Kansas City; KUT, Austin; WKAR-AM-FM, East Lansing, MI; WOI-AM-FM, Ames, IA and WGUC, Cincinnati. There are two in the northeast, at WHYC-AM-FM, New York and at WGBH-FM Boston. And there are three in the southeast, at WABE, Atlanta; WLFZ, Columbia, SC and WFSU, Tallahassee, FL. These receive-transmit (RT) sites are equipped with two program channel modulators, two SHF upconverters, and two 100-watt traveling-wave-tube power amplifiers. The same antenna is used in all cases for both receiving and transmitting since the frequencies involved are 2225 MHz apart and will not interfere with each other with proper filtering.

The period of transition from landlines to satellite will take slightly over one year. Field crews travel from station to station, installing equipment and making performance checks. As each RO site passes its acceptance tests, the equipment is turned over to radio station personnel. At this point, the station has 30 days until its landline service is disconnected and 60 days until its mailed-tape service is discontinued. All programs thereafter will arrive by satellite. The first station to have this honor was KLCC, Eugene, OR.

In order to minimize weather-related installation problems, stations in the Pacific Northwest and in Alaska were converted to satellite first, before the winter of 1979-80. Construction and installation work proceeded across the northern tier of the country from west to east, and is now headed the opposite way across the southern half. By the time you read this, approximately 150 of the 210 RO sites will be completed and in use.

With the advent of satellite interconnection, NPR added a Distribution Division to handle scheduling and time booking because not all programs appearing on the satellite system originate at NPR. The "National Program Service" originates mostly in Washington or is produced in the field by NPR crews. The "Extended Program Service" is a sort of "common carrier" for use by any independent producer or distributor of public radio programming. Such a producer may, or may not, be an employee of an NPR member station. The producer is charged a fee for the labor involved in satellite transmission, plus a small fee for the satellite time used and is guaranteed distribution to all of NPR's members. The only thing the producer must do is deliver the program to one of the 17 uplink sites, either by shipping a tape or by leasing a phone line of whatever quality he or she can afford. It is also now a simple matter for producers of NPR programs like "All Things Considered" or "Morning Edition" to acquire an actuality feed from a major city. If the NPR Chicago news bureau wants to feed something to Washington, it sends it down a short phone line to the WBEZ uplink. All the recording room in Washington has to do is to roll a tape recorder connected to a satellite receiver and make a copy. Another advantage of the

(continued on page 13)

Jim Alexander
4 Brook Court
Parsippany, NJ 07054

Feature: A visit to Carolina, RI



This month, PHOTO-NEWS travels to Carolina, RI for a look at John Barber's QTH. At the left is a shot of John's 100 foot tower, which holds a Channel Master 7' dish for UHF, and a CM Quantum 1110 for

VHF. The dish feeds a CM 0071 preamp, while a modified preamp is used with the 1110. At the bottom is a CM 0062 amp. To the right is a photo of John in his DX shack. John is shown tuning a Hallicrafters model SX-28 Super Skyrider. On top is a Craftsman AM/FM, along with two CB radios. To their right are home-brew AM and FM radios. On the walls are some of John's photos and QSLs.



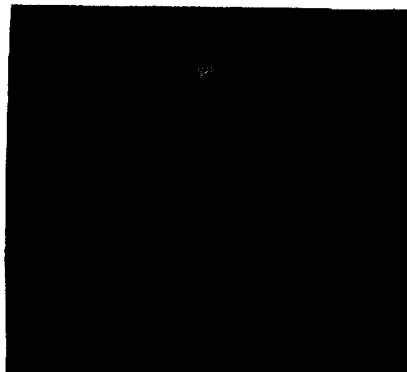
WRC- 4 Washington, DC
760 mile E-skip
(John Combs, Orlando FL)



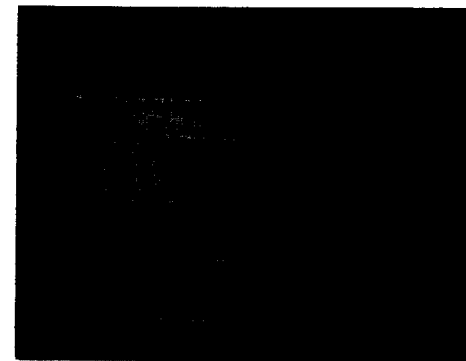
WOKR-13 Rochester, NY
280 mile tropo
(Paul Gaines, Detroit MI)

Guidelines for reporting: When sending photos to this column, please include as much of the following information as possible: 1) Call letters and location of the station photographed; 2) Location of reception and distance from the station; 3) Mode of signal propagation; 4) Date (and, if possible, time) of reception. If the photo is to be returned to you after its use, and/or the photo is not to be trimmed, be sure to so indicate. Color photos are acceptable only in special cases. If you have something highly unusual, but it is a color print, send it to your editor, and we'll see if a way can be found to use it. Finally, if a photo of equipment is sent, be sure to include details of the equipment shown.

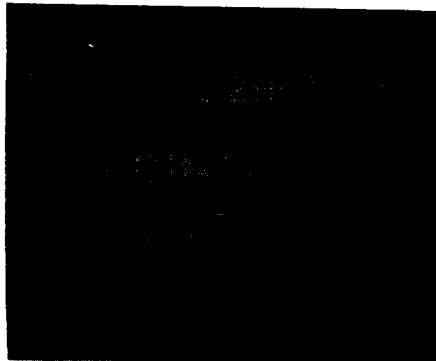
8 My thanks to John Barber for this month's feature.



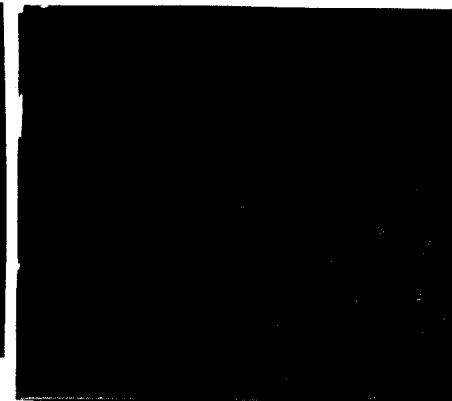
KFDX- 3 Wichita Falls, TX
1,080 mile E-skip (Combs)



WESH- 2 Daytona Beach, FL
6/30/74, 1200 EDT (Grant)



WEAU-13 Eau Claire, WI
440 mile tropo (Gaines)



WTVZ-33 Norfolk, VA
350 mile tropo (Barber)



XHIA- 2 Torreón, COAH Mexico
1340 mile E-skip
7/29/79, 1730 CDT

Contributors:

John Combs,
Orlando FL

Bill Grant,
Worcester, MA

Paul Gaines,
Detroit MI

John Barber,
Carolina RI

Marv Shults,
Toulon IL

73 and good DX, Jim

NORTHERN FM-DX

Ralph Strobel, editor
2910 E. McCalliard Rd.
Muncie, IN 47303
(317) 288-5815
Deadline: the 10th

APRIL 1980

For FM DXers in Canada, the North-West-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon Line.

Joe Markewicz - 524 N. Oakbend Dr. #305 - Duluth, MN 55811

The end of a DX era occurred in Duluth when I helped Bruce Elving take down his famous FM antenna. It's not often that you are able to do antenna work on the 1st of January. Just before we tore it down, I was able to hear the elusive CJSD Thunder Bay. My time in Duluth will be limited until June. March will see me down in the Caribbean, mostly the Virgin Islands and Puerto Rico. After that, I'll be living in Prince Edward Island and by May, I will be living in Winnipeg until sometime in June. By then, I hope to have completed my degree during the University of Manitoba spring semester. At least with all this travelling, I will be able to hear Newfoundland on FM.

Robert Grant - 5775 Bishop - Detroit, MI 48224
Equipment: Sony ICF9640-W, w/rabbit ears.

August 1979

08 tr 0830 ~~CHRE~~ 105.7 ON St. Catharines, ID 180
A very good ~~IDER~~, but no ~~OPH~~ ever monitored for 2 hours.

January 1980

06 Es 1830 ~~WNSU~~ 87.75 LA New Orleans, N, ID 970
1855 unID 92.5 or 92.7, MoR music

Yes, this is my first FM report! Reason: FM DX SPINKS! In Detroit on a rx with built-in, non-overideable AFC. Only two DX openings made it thru Detroit total congestion! I would like to know if I could kill the AFC on my Sony ICF9640-W radio. This appears to be a very good radio for FM DX (if I can get rid of the AFC!). Your help would be appreciated. Yep, that's it! If you're thinking of a "listening" radio for FM the ICF9640 is for you. It has good "fi" for the price. However, if you listen to or DX BCB, FORGET IT! Sony would have been better off leaving it out of this radio! BCB sensitivity is poor, selec. HORRID and image rejection near ZERO! BCB freq. response is about 50-500 Hz! compared to FM on the same rx at 50-13000! And, if you can kick the AFC out, this rx would be very gud for FM DX. 73 & gud DX, Bob

Dave Brumfield - 320 1/2 N. Calvert St. - Muncie, IN 47306

Equipment: 2270 Marantz Rx & Heath AJ-1510, Winegard antenna at 60 ft. w/rotor.
(Editors note: DX from 6/1/79 to 8/17/79 was heard from Dave's old address near Ball State University. The remainder is from my address, as Dave lived here up to 3/29/80).

6/1 Es	8/14 tr		
1130 KWJD 92.1 CO Castle Rock	1050 0018 WXBO 96.9 TN Bristol, (ex-VA)	325	
1145 KBLJ 92.1 CO La Junta	1025 0038 WCUT 101.5 TN Johnson City	325	
1146 KBUF 97.3 KS Garden City	880 8/17 tr		
1245 KULL 94.5 KS Scott City	860 1114 KFMP 102.9 MO Cape Girardeau	325	
1255 KTGL 93.3 CO Fort Collins	1050 1205 KFIN 102.9 AR Jonesboro	450	
1316 KWLS 93.1 KS Pratt, o/WNAP	735 1230 WZZO 102.9 MS Jackson	650	
1320 KGNU 88.5 CO Boulder	1075 9/4 tr		
1322 KYGO 98.5 CO Denver	1070 0200 WAXX 104.5 WI Eau Claire	450	
1325 KTAK 93.5 WY Riverton, o/WXWZ	1235 0230 WWTB 103.7 WI Ladysmith	450	
8/8 tr	0245 KGRS 107.3 IA Burlington	325	
0304 WOKI 100.3 TN Oak Ridge	315 0300 WTRD 104.9 IL Pekin	250	
0402 WIVK 107.7 TN Knoxville	325 0430 KIWI 105.3 IA Dubuque	325	
0426 WBEZ 92.9 TN Nashville	300 9/5 tr		
0450 WZYP 104.3 AL Athens	410 0135 WKAU 104.9 WI Kaukauna	350	
0513 WBNT 105.5 TN Oneida	275 0144 WROB 94.3 WI Neenah	320	
0612 WBYN 89.7 TN Chattanooga	360 0180 WYKB 92.1 WI Manitowoc	200	
0615 WBFB 89.5 TN Johnson City	325 0200 WDDC 100.7 WI Fortate	325	
0651 WLOS 99.9 NC Asheville, o/WVUD	325 0250 WPKR 100.7 WI Racine, o/WNEZ	220	
8/13 tr	0305 WSTN 91.1 MN St. Paul	515	
2355 WVWR 89.1 VA Roanoke	460 (all stations new - CST)		

(Due to a very busy schedule and possible lack of DX for next month, this lengthy report will be continued in the May issue. Reports are usually slim during these dreadful last weeks of winter when DX is by far the poorest. The good months will soon be upon us, so stand by! Much more to come in months ahead!)

SOUTHERN FM DX

Danny Buntin, editor
1312 N. Skyline St.
Stillwater, OK 74074

DEADLINE: the 10th

GULF TR HELPS MAKE UP FOR A ES-LESS FEBRUARY

SFM DX during February wasn't quite as good as January, particularly Es-wise. In fact, no Es at all was reported for February. For a good while it looked like a blank month for everybody until some Gulf ducting took place for the TX dxers during the 20-23 period. Loggings then ranged up to 800+ miles. Hopefully, with a new DX season coming up everyone can get busier.

Rick Sanford, 404 S. McNeill, Burnet, TX 78611 - Feb. 7 to March 5 CST

There was only one semi-respectable opening amidst February's diverse weather, with the best catch of the session (WBCM) being somewhat more than 800 miles distant.

2/15 (all tr)

1025 XHAAA 93.1 TAM Reynosa, ID in EE,
ID in SS at 1033, first time call heard

2/20

1017 WRFM 107.9 MS Poplarville, "\$-108",
ID, MS Psa
1922 KSMB 94.5 LA Lafayette, area concert
info, K-94 concert line: 235-KSMB
1959 WKSJ 94.9 AL Mobile
2015 WLIN 95.5 MS Jackson, ID, "FM-95"
2021 WZZQ 102.9 MS Jackson, "ZZQ-102", ads
after 2030 gone for about 1 1/2 hours.
2229 WBCM 98.9 FL Tallahassee, "Talla-
hassee's FM-99", r, fading by 2300 ID and
gone soon afterwards, previously by es.

2/20

2240 KRVS 88.1 LA Lafayette, heard previously
at 88.3, as 10-watter?, evidently a marginal
increase in power accompanied the freq. change
2243 WAJB 107.3 FL Pensacola, "JB-107",
ID, m
2305 KHOM 104.1 LA Houma, out of local nx and
wx
2310 WPFM 107.9 FL Panama City, ID
2358 WRKF 89.3 LA Baton Rouge, new station,
j, "you're listening to Discs and Data on
Moonglow With Martin" ← J

2/21 x y v s

0100 KYDS 105.1 TX Lufkin-Nacogdoches,
ex-KLUF-FM, now r R

Tim McVey, route 3, Box 568, Bolivar, TN 38008 - Jan. 1 to Mar. 1

Equip: JVC JT-V22 stereo tuner, Finco FM-5 at 40" with Channel Master 9512-A rotor.
(the pliers go back to the tool box!!) (Way to go, Tim. DB)

1/6 Es!

1815 ~~WDBN~~ 94.9 OH Medina 584
1820 ~~WAUP?~~ 88.1 OH Akron, c \$ 586
1822 ~~WWSF~~ 93.3 NY Jamestown, state #31,
(first heard this opening at 1805, had to
leave at 1825.)

1/17

1500 ~~WTHJ~~ 94.3 TN Lobelville 75

1/18 tr

1950 ~~WFBQ~~ 94.7 IN Indianapolis 355
1952 ~~WAAC~~ 94.9 IL Galesburg 403
1954 ~~WDZQ~~ 95.1 IL Decatur 322
1958 ~~WVAP~~ 93.1 IN Indianapolis
2104 ~~WSEI~~ 92.9 IL Olney 242
2108 ~~WMLX~~ 94.1 IL Mt. Vernon 200
2110 ~~WYER~~ 94.9 IL Mt. Carmel 228
2115 ~~WISU~~ 89.7 IN Terre Haute 307
2125 ~~WCRW~~ 95.7 IL Effingham 264
2130 ~~WLRW~~ 94.5 IL Champaign 358
2135 ~~WVHT~~ 105.3 IN Evansville 194
2138 ~~WFML~~ 106.5 IN Washington 251
2150 ~~WVJC~~ 89.1 IL Mt. Carmel 228
2200 ~~WILL~~ 90.9 IL Champaign-Urbana 358
2202 ~~WUOL~~ 90.5 KY Louisville 272
2210 ~~WVUB~~ 91.1 IN Princeton 214
2220 ~~WRAY~~ 98.1 IN Princeton 214
2230 ~~WTLC~~ 105.7 IN Indianapolis 355
2235 ~~WBNQ~~ 101.5 IL Bloomington 365

2/22 tr

(This opening wiped out TV-2 through 13!
Since I had to go to school at 0730(darn!), I
did this hurriedly. So, no exact times except
they all came in from 0700-0725.

KYND 92.5 TX Pasadena	545
KYKR 93.3 TX Port Arthur	474
KQXY 94.1 TX Beaumont	472
KILT 100.3 TX Houston	543
WQNZ 95.1 MS Natchez	283

Here's the Houston FMs added to my logbook:

KLEF 94.5	KODA 99.1
KFMK 97.9	KAUM 96.5
KHCB 105.7	KLCL 101.1
KIKK 95.7	

2/23 tr

0815 WBAM 98.9 AL Montgomery, r, \$	247
0821 WNLA 105.5 MS Indianola	152
0828 WAFB 98.1 LA Baton Rouge	365

2/24 tr

1900 WEVC 91.5 IN Evansville	194
---	-----

2/25 tr

1735 KORM 104.1 OK Oklahoma City	515
1750 WHER 103.7 MS Gattiesburg	280
1759 WQID 93.7 MS Biloxi	343
1805 WBIE 101.5 GA Marietta	270

cont.

2/25 tr
1810 WLAG 104.1 GA La Grange
1910 WBYU 95.7 LA New Orleans
1915 WNOO 89.9 LA New Orleans
19-- unID 104.1 r,\$, WJBM Jerseyville? QRM:
19-- WIKY 104.1 IN Evansville, all 194
104.1 listings due to WKIR Jackson off air.
1905 WBLX 92.9 AL Mobile 322
1907 WKSJ 94.9 AL Mobile

2/29 tr
19--WRFN 88.1 TN Nashville
19-- WSMC 90.7 TN Collegedale
3/1 tr
0905 WSIU 91.9 IL Carbondale 181
0930 WSLM 98.9 IN Salem
1010 WLRW 94.5 IL Champaign 358
1105 KMBQ 93.7 LA Shreveport 343

2/26 tr
1520 WCLD 103.9 MS Cleveland
2045 KAKI 107.1 AR Benton

3/2 ??
1620 WOEM 94.9 TN Greeneville, prev. 347
heard by MS; this time it's strange tropo
1645 WQDR? 94.7 NC!Raleigh, tent.,rp, \$, 572
(very weak, but heard ad for rock concert(in
\$)with UFO and somebody else(fade) "Tickets
available at Ross and Babcock and the usual....
and out of town outlets." Somebody in NC
please tell me if there was a concert in town
about this time. This could be state # 3i!!!!!!
1930 KLUM 88.9 MO Jefferson City

2/29 tr
(all it takes is a good antenna...)
1000 WALP 90.5 MS Corinth
1325 K??? 97.7 AR Augusta
1328 WCNA 98.3 AL Scottsboro
1930 WCCG 90.1 AL Huntsville

So this time there's lots of "local tropo" to fill in the spaces around a 250 mile radius of QTH. I am hoping for lots of 500+ mile tropo and Es this spring, especially with my new antenna. Most of the loggings in this report are there because the Radio Shack TV antenna just wasn't directional or sensitive enough. (it's little more effective than a coathanger, hi) the 10-element Finco FM-5 was put up on Feb. 24, and it works super! I am shooting for at least 500 by 1981. I'm at 383 now, with 30 (maybe 31) states. 73

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Feb. 5 to Mar. 6 CST
Equip: Realistic TM-1001 into an Allied 426; 6-31. Archer antenna at 20 ft. with rotor.

2/20 (all tr)
0740 WAFB 98.1 LA Baton Rouge, ID 450

2/23
0144 WXEL 105.3 TX Slidell, soul, ID 530
0202 KVVP 105.5 LA Leesville, ID 340
0320 WAFB 98.1 LA Baton Rouge, local psa 450
0322 WLWI 92.3 AL Montgomery, k, ads 750
0339 WBAM 98.9 AL Montgomery, wx 750
0359 KTDY 99.9 LA Lafayette, ID 395
0400 WHLQ 96.9 AL Enterprise, ID 765
0401 KYKR 93.3 TX Port Arthur, k, ID 280
0402 WALT 97.1 MS Meridian, ID 620
0412 WYNK 101.5 LA Baton Rouge, ID 450
0417 WFMF 102.5 LA Baton Rouge, ID 450
0622 KSLI 96.9 LA Alexandria, local ad 385

2/21
0101 WRKF 89.3 LA Baton Rouge, ID, s/off

2/22
0732 X--- 93.1 TAM Reynosa, local ad 230

2/23
0030 WRKF 89.3 LA Baton Rouge 450
0058 KRBS 88.1 LA Lafayette, ID 395
0120 KAYD 97.3 TX Beaumont, ID 275

Not too big a report this time, but since there was one good tropo opening I thought I'd send it along. Most of the trop from high temps in the 80-90 range (but short-lived since cold front would come along and change it to 30-40 deg.). Feb. 23 opening with weather info from FM (and TV) stations in it seemed all the places had 61 deg. temp. 73.

John Zondlo, 1802 N. Rockwell, Apt. 107-Bethany, OK 73008 - Jan. 6 to 19 CST
Equip: Sony ST-5130 tuner connected to 1/2 Channel Master Stereo Probe 9 antenna.

1/6 tr (all new)
0001 KMAG 99.1 AR Fort Smith

1719 WSQJ 98.3 GA Jesup
1727 WBEU 98.7 SC Beaufort, Ae nx
1739 WEQR 96.9 NC Goldsboro
1745 WXTC 96.9 SC Charleston
1748 WBAG 93.9 NC Burlington, k
1758 WMPR 88.1 SC Sumter, SC rec. outlook
1800 WSMC 90.7 TN Collegedale
1801 WGWG 88.3 NC Boiling Springs, local nx
and Christian mx
1812 WSFL 106.5 NC Bridgeton

1/6 Es
1550 WIQY 98.7 FL Fort Pierce,
(Treasure Coast wx)
1601 WCIE 91.3 FL Lakeland
contemporary Christian mx
1602 WRMB 89.3 FL Boynton Beach, ID
1607 WOVV 95.5 FL Fort Pierce, r, DJ Linda
1619 WELE 105.9 FL Deland, wx, spots
1623 WHLY 106.7 FL Leesburg
1647 WDIZ 100.3 FL Orlando
1650 WYVA 94.1 VA Yorktown,
road closure report
1700 WMTM 93.9 GA Moultrie, k

1/18-19 tr
2257 KLUP 97.9 OK Poteau, g w/Len Drury
2305 KOOI 106.5 TX Jacksonville, s/off
2328 KROZ 92.1 TX Tyler, k
2347 KETR 88.9 TX Commerce, r w/YL DJ

cont.

1/18-19 tr (all new)
2352 KMMK 95.3 TX McKinney
0018 KFMM 107.9 TX Abilene, r
0021 KYKX 105.7 TX Longview, "kicks", r
0030 KBEZ 92.9 OK Tulsa, b
0038 KTYL 93.1 TX Tyler, r
0050 KRMD 101.1 LA Shreveport, k,
w/Curtis Alexander

0110 KTLR 107.1 TX Terrell, k
0120 KDSQ 101.7 TX Dennison-Sherman, r
0137 KYKR 93.3 TX Port Arthur, k
0139 KMEQ 93.7 LA Shreveport, r
0155 KWJS 94.9 TX Arlington, g
0200 KQXY 94.1 TX Beaumont, b
0205 KIOC 106.1 TX Orange, wx
0253 KARD 107.3 KS Wichita

FROM THE EDITOR:

There hasn't been any DX here at SFM headquarters since Jan. 18. Unlike Jan., Feb. got its share of cold weather and the few warm spells weren't accompanied by much moisture; that usually doesn't cut it for tr development. Hope everyone is getting geared up for the new DX season, weather obtaining new equipment or paying closer attention to conditions. There were some errors in my February report and should stand corrected as such: KASX and KGOK should be underlined as new, correct freq. for KGOK is 97.7 and correct call letters for 98.9 Oklahoma City is KTLK. Until next month, 73.

REPORT YOU FM DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, NC, NV, OK, SC, TN, UT, VA, & WV.

NPR's SATELLITE INTERCONNECTION SYSTEM (continued from page 7)

satellite system is the choice it gives to local program directors. If a United Nations debate is being aired and the time for All Things Considered arrives, the debate may continue on one satellite channel while ATC goes on, as scheduled, on another. NPR need no longer make decisions which might not agree with local audiences.

Currently, four of the possible 12 satellite channels are in operation. As more are added and filled with programming, it will become virtually impossible for human technicians to perform the necessary switching tasks without error. Currently in development is a computer-controlled Main Origination Technical Center to be built into NPR's Washington headquarters. It will not only control audio switching and tape playbacks, but will have remote control, via satellite, of the other 16 uplinks! Digital data will be sent both ways to the RT sites by low-powered, narrowband "coordination channels", shown as "F1" and "F2" in the frequency plan. Channel F1 will carry three pieces of information outbound from Washington on a time-sharing basis: 1) remote control of uplink sites, 2) remote control demodulator tuning and tape-recorder rolling at receiver sites, and 3) teletypewriter messages and advisories for member stations. These services are currently delivered in cruder fashion by sending audio tones down the network lines between programs and by using a much slower teletypewriter system. Channel F2 will carry uplink status data from all 16 uplinks on a timesharing basis. Probably the most serious problem that will be avoided by the automated satellite system is that of "double illumination", the turning on of two uplink transmitters on the same frequency at the same time. (You can imagine how two FM stations would sound broadcasting simultaneously on the same frequency to the same city.)

NPR has high hopes for the future of its Satellite Interconnection System and hopes to use it to bring a wider variety of high quality programs to the public radio audience.

DON'T MISS WTFDA'S
1980 CONVENTION.
DUNKIRK, NY. AUG. 1-3. WATCH FOR INFO.

FM NEWS

Bruce F. Elving, Ph.D., Editor
4515 Avenue "E"
Kearney NE 68847 (pronounced car-nee)

Nearest Stations Granted
AL Center Point W276A 103.1 (WNVW) *88.9 (transistor); gospel; UPI audio; no stereo
AL Doshier W204AA *88.7 (WPCC 88.3), Stereo, S, ABC Entertainment, 1-watt transistor
AZ Flagstaff (and Winslow) K208AB *89.5 S, j, (KMCR *91.5) National Public Radio
CA Laguna Beach K22AAJ 92.7 (KGGG 105.1 Los Angeles), j, Stereo, UPI Audio affiliate
CO East Salt Creek and Douglas Creek Rural Area (39-36-00; 106-47-42 are its geographical coordinates to help you find the exact location of K261AL 100.1 S (KQIX 93.1 Grand Junction CO translator), rock, Mutual
CO Garrison 98.3 3000 h.v.; 300 feet; rock
CT Whitmanville *98.1 440 werts; 75'; E. CT State College

FL Dunedin 92.1 3000 h.v.; 285'; Stereo, m.
KS Onoda K221AM 92.1 rock (KNDY-FM 103.1 Marysville KS translator), UPI Audio
MA Winchester 97.7 3000 h.v.; 300'
MS Lexington 108.3 3000 h.v.; 300'
MT Drummond K257AK 98.3 Stereo, middle of the road music, ABC Information, 10 werts, KOPR 94.1 Bortie MT FM translator)
NM Alamogordo 94.3 3000; -490'; m - music
NY Brockport *98.8 3000 h.v.; 150'; SUNY
NY Nyack *88.7 10 werts; Nyack College
NY Tappan Lake K221 89 werts horizontal and vertical effective radiated power, 1450 feet above average terrain, middle of the road music
NC Greenville *91.3 100 werts; 135' E Carolina U.
PA Philadelphia *88.1 10 w. W. Phila. Ed. Bcstg.
TX Bishop 107.1 3000; 200/Spanish, Latin; stereo
UT Moab *88.1 40 w.; Utah U. of Indiana
UT Meriess, Plateau Resources Mining Site (sorry no coordinates available, so I have no idea where this translator is located) K252BF 106.3 S, rock, KALL 94.1 Salt Lake City UT translator.

Formats/Networks
CT New Britain WRCH 108.5 rock (from in)
FL Fort Lauderdale WAFG *90.3 Mutual
FL Goulds WGLY 88.3 UPI Audio network
FL Stuart WWCZ 92.7 AP Audio
FL Vero Beach WAVM 106.5 (country), Wave-105
ID Sandpoint KPNB 95.3 rock, jazz, country - to have been on the air by Dec. 1, 1979.
IL Arlington Heights WNNM 92.7 middle of the road (from rock); "WN Radio" strict nonID.
IL Chicago WDAI 94.7 rock (from disco)
IL WNB 87.1 classical (no jazz-all c)

IL Monticello WVLU 106.5 gospel (road)
IL Zion WZLN country (from middle of the / IN Angola WEAZ *88.3 progressive rock, gospel
IN Fort Wayne WFLP *88.1 classical and jazz
IN Goshen WGSZ *91.1 classical and rock
IN Greenfield WIKS 98.5 rock (from disco)
IN Hartford City WWHC 104.9 (to go to 93.5), new middle of the road and rock
IN Indianapolis WBDG 98.9 4, "Disco 91."
IN Michigan City WBCB 95.9 (not mt)
IN North Vernon WCHS-FM 106.1 country
IN Plainfield WART 94.3 gospel (not mt)
IN Rushville WRCR 98.3 middle/road and rock with sound, "Stereo 94."

KS Hays KJLS 103.3 ABC Entertainment (not S)
ME Oquillo KIBC 93.5 country
NE Torrington KCM 103.3 AP Audio
NH Manchester WECM 106.1 rk; "FM-106," no CBS
NH Concord WKXL-FM 102.3 rock and m - music
NY Hamilton WRCU *90.1 progressive rock, jazz
NY New York WKTU 92.3 jazz and disco
OH Akron WAUP *88.1 jazz, progressive rock
OH WKDD 98.5 rock
OH Canal Fulton WNNR *90.9 off air since last summer; messy problems
OH Cleveland WBOE *98.3 off air (except its carrier is on so that talking back SCA can be on); sale of station from Board of Education pending.
OH Cleveland WBBB 108.7 The Source (from U)
OH New Philadelphia WNNY 96.9 progressive rock
PA Beaver Falls WPKS 108.7 rock
TX Fort Worth 102.1 sp. "Q, 102"

VT Brattleboro WKVT-FM 92.7 CBS, "Radio 93"
VT Rutland WRUT rock, Stereo 97
VT Stowe WRFB 101.7 country
VT White River Junction WNHV-FM 95.3 country
Facilities' Changes Granted
CA Chester K292AL 98.3 (from 94.3)
FL Atlantic Beach WFFV from 104.9 to 104.5
IL 30000; 650 feet; stereo
IL Flossmoor WHFH *88.5 1500 (h); 92 feet
IN Terre Haute WPRF 102.7 50000 h.v.; 500'
KS Hutchinson KHUT 102.9 98000 h.v.; 430'
MO St. Louis KADI-FM 560' (100000 h.v.)
NE O'Neill KBRX-FM from 92.7 to 102.9, 100000 h.v.; 430 feet
OK Lawton KLAW 101.5 100000 h.v.; 590'
TX El Paso KA KPAS 93.9 81000 h.v.; 1380'
TX San Antonio KMFM 96.1480' (1000000 v)
VA Radford WRRC *89.9 500 h.v.; 15 feet
WY Cheyenne KFBC-FM 97.9 100000 h.v.; 540'; eliminates directional antenna

Dual-City Identifications in Use
FL Jupiter WCEZ 96.7 EZ-97, adds Tequesta FL
ID Boise 92.3 KBBK, Rock 92, adds Meridian ID
IN Normal W1HN 96.7, 96-FM, adds Bloomington

NonIDs or Slogans in Use
FL Boca Raton-Miami WKGS 99.9 Kiss
FL Naples WRGI-FM 93.5 G-93
FL Riviera Beach WNYJ 94.3 Joy, FM-94
IN Carmel WHJE *81.3 FM-91
IN Lowell WLCL 107.1 FM-107
OH Greenview WGVY *91.7 G-92
RI Providence WJZY 94.1 FM-94, Joy
TX Corsicana WKXL 107.9 Country Lovin'
TX Dallas KAFM 92.5 92 plus, gospel SCA with Mormon readings one night per week
TX Denton KDNT-FM 106.1 D-108
TX Fort Worth KNOK-FM 107.5 FM-107, soul
VT Burlington WEZF 92.9 Stereo 93
WDCR 96.9 Q-99
VT Middlebury WCVN 106.9 FM-100

Stereo, or to go Stereo
CA Santa Monica KCRW *89.9
CO Fort Collins KCSU *90.9
KS Pratt KWLS-FM 93.1
MA Cambridge WMBR *88.1
NM Albuquerque KARW *89.1
PA Selinsgrove WOSD *88.9
WY Worland KENB 95.9
BC Vancouver CJAZ 92.1 (heard testing)
ON London CJBX 92.7, BX-93, country

Call Letters Assigned or Changed
AL Andalusia 98.1 WKYD-FM (WQHQ)
AZ Mesa 104.7 KZZP-FM (KIOG)
AZ Prescott 103.9 KAHH
AR Conway 105.1 KMJX (from KKLF)
AR Helena 103.1 KZRI (from KCRI)
HI Lihue 93.5 KPOY
IL Princeton 98.3 WZDE-FM
IL Springfield 98.7 WNN5
IA Iowa City 100.7 KKRO (KICG)
KS Wellington 93.5 KZED
MI Dearborn 100.3 WHIC-FM (WNIC)
MI Houghton 97.7 WHUH
MI Little Falls 92.1 WYRQ (WLFE)
MN St. Paul *91.1 KSJM-FM (KSJM)
MS Gulfport 107.1 WZKX (WRQA-FM)
NE McCook KICX-FM 95.9, stereo, rock, ABC Information ON AIR (1800 h.v.; 300')
NV Las Vegas *91.5 KUNV
NJ Long Branch 107.1 WWUU (WRLB)
NY Southold 101.7 WBAZ
NY Woodstock 100.1 WDST
NC Eden 94.5 WSRQ (WEAF)
OH Salem 105.1 WDXK (WSDM-FM)
OK Broken Arrow 92.1 WKYO (KSGOW)
PA Elizabethtown 106.7 WPKZ (WPDC-FM); K
PA Williamsport 102.7 WKSB (WRAX-FM)
SC Bl. George 107.5 WQWQ (WDZ-FM)
SD Pierre 96.3 KMEY
TX Edinburg 107.9 KVLV (KESI)

QSL CORNER

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

TV-OSL's

- AL WINT 10 Huntsville, Box 19, 35904. Send back prepared letter & post card signed by J. M. Hall, CE.
- BRMG 42 Birmingham, P. O. Box 6146, 35209. Send back my prepared form letter signed by CE, but name unreadable. Eddie
- WQFT 33 Tuscaloosa, P. O. Box 5239, 35405. Send back my prepared form letter signed by CE, but name unreadable. Also send CM & program schedule. Eddie
- AK KTEJ 19 Jonesboro, 350 S. Donaghey, 72032. Send back my prepared form letter signed by CE, but name unreadable. AETN (Ark. Educ. Tel. Net) Eddie
- KTVF 29 Fayetteville, 1 McBryoy Plaza, 72701. Send rate chart & my prepared letter back signed by Dan Rowgasser, Station Manager. Eddie
- CT WFDN 58 Norwich, % WFDN-TV-24, 24 Summit St, Hartford, CT 06106. Letter from John W. Kean, Vice Pres. Engineering. Used a sase, but came back in station's own envelope, with reply in 11 days. Wolf
- KY WDRB 41 Louisville, 1051 E. Main, 40206. Got zerox copy of own report form letter, with note of verification from R. M. Cleveland. Reply came after a 5 year 3-month wait!!! I forgot all about that I reported to them. Yingling
- WYVT 27 Lexington, Box 5037, 40505. Multi-color card, sign by Hal Schumacher, CE in 2 weeks. Ross
- WLKY 32 Louisville, Box 6205, 1918 Mellwood Ave, 40206. Letter from aul C. Kelley, CE & CE, & reply in 2 weeks. Ross
- WKMU 21 Murray, 600 Cooper Dr, Lexington, KY 40502. Letter from Dir. of Eng. unreadable name. Eddie
- IL WFLD 32 Chicago, 300 N. State St, 60610. Letter signed by William P. Kusack, Engineering Manager. Reply came in 1 month. Wolf
- IA KHIN 36 Red Oak % P. O. Box 1758, Des Moines, IA 50306. Send back my prepared form letter, signed by Don Saveraid, Dir. of Eng. of IPRN. Eddie
- KTIN 21 Fort Dodge, same address as above. Send verifying letter & coverage map from Don Saveraid, D. of E. member station of IPBN. Eddie
- NC WQHP 8 High Point, 400 N. Main St, P. O. Box 2688, 27261. Letter from Benjamin F. Mann, Techinal Operations, 4 days to reply. Traska
- OH WTOV 9 Steubenville, 320 Market St, 43952. Letter signed by Marvin L. Hite, CE Reply back in 12 days. Wolf
- WDHO 24 Toledo, 300 S. Byrne Rd, 43615. Letter from Ernest Rety, CE in 12 days with coverage-map. Yingling
- WKEF 22 Dayton, 1731 Soldiers Home Rd, 45418. Letter, unreadable name, ce. Eddie
- W47AB 47 Mansfield, % WOSU-TV-34, 2400 Olentangy River Rd, Columbus, OH 43210. Letter for report of translator, signed by Dale Tish, Eng Manager, send list of translators & thanked me for SASE. Reply in 28 days. Wolf
- PA WPGH 53 Pittsburgh, 750 Irory Ave, 15214. Send qsl card & my prepared form letter back, but unreadable signer name, but is the CE. Eddie
- TN WTCT 45 Chattanooga, 4411 Amnicola Hwy, 37406. Send my prepared form letter signed by Robert Briscoe, CE, State Dept of Education. Eddie
- WRCB 3 Chattanooga, 900 Whitehall Rd, 37405. Letter with apology for late reply, sign by Robert E. Glenn, CE. Reply in 54 days!. Wolf
- VA WSL5 10 Roanoke, P. O. Box 2161, 24009. Letter from Donald Jones, CE in 5 weeks. Traska
- WSYN 47 Norton, 1215 McNeil Dr, SW, 24032. Letter from E. V. Recrode, Jr. Executive Vice President & General Manager. Reply in 7 days. Wolf

Reporters this time for all TV OSLN are: Richard Eddie of St. Louis, Mo; Robert Ross of London, Ont; Paul Traska of Buffalo, NY; Jeff Wolf of Silver Spring, MD, & Tom Yingling of Baltimore, MD editor. See you all next month with all FM OSL's.

Tom Yingling

Contributors:

Greg Ballak, Joliet IL (who thinks the McIntosh MR-90 is great new tuner); P. Boersma, Spring Lake MI; J. D. Buehler, Toledo OH; J. Ebeling, Bloomington IN; Eric Fader, Bayside NY; C. George, Dallas TX; S. T. Hancock, N. Canton OH; John M. Jefferson, Pleasanton CA; A. H. Ellis, Brantford, Ont.; Greg Monti, Silver Spring MD; Rod O'Connor ME; Tim Prouty, Dolby Labs, San Francisco CA; A. P. Smith, Dillsburg PA; Richard J. Steinberger, Hudson MA; Ralph Strobel, Muncie IN; Larry Weil, Acton MA. Larry drove into VT and NH to gather much-needed FM data from those areas! And Dr. Richard Wood, Cape Girardeau MO. Thank!

WESTERN TV-DX

April 1980

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

Deadline: 5th

New _____ New Mode _____ Tentative - t Unidentified - unid
Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228 CST

Equipment: 1976 9" Penncrest b&w, Archer V-100 & 8-bay bow-tie UHF array at 20'

February 1980

8 Es 0345- unids ch 2-4	0724 WRBT 33 LA 450	23 tr 0625	WDAM 7 MS 570
0414 KNBC 4 CA 1190	0726 WLPB 27 LA 450		KFPM 6 TX 275
KNXT 2 CA 1190	0727 WAPT 16 MS 525		*0632 KLAAt14 LA 430
0435 KVBC 3 NV 1050	0729 WMAH 19 MS 570		0640 WLPB 27 LA 450
0500+ f/outs	0755 KPLC 7 LA 325		0650 WGNW 26 LA 510
11 Es 1850 XHBC 3 BCN1010	1159 KFDM 6 TX 275		unid 24
1903 KOAI 2 AZ 855	0000 XET t 6 NL 275		unid 15
1935 f/outs	0005 XHX t10 NL 275		0656 WRBT 33 LA 450
12 Es 0950 WRBL 3 GA 830	0129 WRBT 33 LA 450		0700 WYEA 38 GA 330
0957 WSB 2 GA 880	0511 WJTV 12 MS 525		**0705 WCFTt33 AL 700
1005 spotty -1030f/o	0519 WAFB 9 LA 450		**0715 WBMgt42 AL 750
1750 unids 2-4	0520 WRBL 3 GA 830		unid 48
1759 WJBC 2 MI 1225	KNOE 8 LA 440	24 Es 1135-1155 unids 2 nw	AL & GA unids to 0930+
WKYC 3 OH 1250	0521 WTVM 9 GA 830	25 Es 1815 unids 2-4 s/e	
1800 KPCA 2 MN 1110	0530 WBRZ 2 LA 450	1825 YSR 2 ES 1200	
2000+ fade/outs	0538 WVUE 8 LA 510	1830 TGV 3 GU 1120	
13 Es 0805 KDKAt 2 PA 1280	0554 WCOV 20 AL 750	1925 f/outs	
1900-15 unids 2 ne	0555 WAPT 16 MS 525	(didn't stay in enough	
1955-	0557 WKRG 5 AL 630	to link to any TE)	
2005 KNXTt 2 CA 1190	0601 WKAB 32 AL 750	27 tr 0710	WBRZt 2 LA 450
20 tr 0010 KPLCt 7 LA 325	KATC 3 LA 395		WAFBt 9 LA 450
0013 WAFB 9 LA 450	0613 unid 46		0725 KPLC 7 LA 325
	0625 KALB 5 LA 385		KALBt 5 LA 385
ES - El Salvador GU - Guatemala * - NBC ** - CBS		28 tr 0758	WMAUt17 MS 470
			WAPTt16 MS 525

Es dwindled as normal toward the yearly March minimum. The tropo openings were often the result of unusually warm (even for here) days of 80-90°F, but usually got blown away when a cold front arrived (and put the temps down in the 30-40 range). 73, Pat, WAsIYX

Fred McCormack, Box 5221, State University Sta., Fargo, ND 58105

Another month has gone by with no DX. We have had a rather mild winter, but I never saw any tropo develop; certainly nothing to compare with Pat's excellent loggings.

From my Des Lacs QTH I did log two new Canadians. They are both satellites of the french language station CBWFT-3. One of them, CBWFT10, is channel 21 from Brandon, and the other, call letters unknown, is channel 26 from Bellegarde, SA. Both are semi-local distance, but their low power makes reception poor.

Also, I identified the location of CFSS, channel 3, which I reported in February. According to the CKOS engineer, it is located at Warnley, SA. I can not find this on the maps, but he gave me the coordinates, and it is about 20 miles more distant than when it broadcast on channel 7 from Carlyle Lake. They use 100 kw from a tower that is 1276 feet above terrain, and I am sure they will be seen often on Es around the country. CFSS is a satellite of CKOS and although they use their own ID slide most of the time, sometimes ID's as CKOS will be seen. Don't confuse this with the CKOS-3 Yorkton which has been logged by many DX'ers in the past. CKOS, Yorkton, now operates on channel 5.

EASTERN TV-DX

Robert Knaer
3406 W. Pierce
Chicago, IL 60651

APRIL 1980

Deadline: 5th

Sorry about the sudden end to last month's column, but my typewriter ribbon was getting too well used and I didn't have the money to replace it. We will continue with the rest of Bob Grant's report.

General Bob Grant 5775 Bishop Detroit, MI 48224 (EST/EDT)

September

27 Tr 0550	WNED-17 NY 215	15 F2 0900	EBC1 45 MHz	27 Tr 0238	WTRH-13 IN 235
	0620 W67AJ-67 MI 43		EBC1-B2		Indianapolis
	WUTV-29 NY 205		Europe cops	0320	WKRP-22 OH 195
			35-49 MHz		

October

30 Tr 2200	WICU-12 PA 140	24	1144	UNIDed-2 625	
	Buffalo 2 & 4			line CCI	

December

2 F2 1100	5 USSR Wood-	1147	KEFT-3 CA T	6 Es 1800	UNIDed 5 NBC
	peckers 42-46		"Good Morning	1805	KATC-3 LA 970
	MHz		America" with		Lafayette
	TPI-F2 France	27 Tr 0100	3 hour delay.	1830	WLBT-3 MS
	BBC1-B1		South Bends		Jackson
	assorted AZ WA	0210	WGN-9 IL 250	1840	WDSU-4 LA 990
	NT,CA & NY PSB	0220	WFLD-32 IL 250		New Orleans

"Hi, 1979 draws to a close at last. It was a helluva year! It first picked up on 5/22 with something absolutely new, skip! Before the WEDU logging I had thought E-skip was an exclusive of M.I.T masters with radiotelescopes (it is, the doorman must have been asleep and let you in, hi,ed.)! I QSLed WEDU and the chief engineer said "I hope you get WEDU again" (you will, I promise, boy will you, ed) I can say with great confidence his wish has been granted, I got WEDU 4 more times so far (don't say I didn't warn you, ed.). A small tropo opening on 6/2 brought in a few newies. Then came the huge E-skip spillover from 6/24-7/1. Most noteworthy was the 6/30 simultaneous Texas and Maritime openings. (Did anybody in TX get 2Es to the Maritimes, or vice-versa during this opening?) Vacation time on Olatte Lake, 30 miles SW of Traverse City (no, that's not underwater, hi) but a good 50 miles away from WGTU-29's xtr. (WGTU is currently under heavy FCC scrutiny). For the distance reason, WLK-11 is the prominent ABC affiliate. These vacations are not made for DX, they are for good old "R&R". I brought an old 4 element VHF antenna from a friend, and some cheap twin lead from the local Radio Shack, and took the 12' Sears portable up to the hide-away, a couple of rafters held the antenna up (no they didn't take all the antenna's money at gunpoint, hi). Great loggings were made by skip, but WRAY was a problem. So many UNID stations were seen that I didn't log them all. The poss. El Sal. ch. 6 "Canal Sase" logging is now eliminated, the time was 1600 EDT and the pgs. was educational, could, it be XHTI-FUE? Another interesting catch was a CBTP W/SS audio. ICR2-2 is a little far for 1Es, as per there was no sign of WTKS/WPBT, it could be CMKU-2 by 2Es (Bob, all of Cuba is possible in Detroit by 1Es,ed.). The 7/24 WJEK catch is definitely not Tr or GW. Skip was in at the time and GW doesn't fade in and out (it does if the extended groundwave distance maximum keeps getting longer and shorter. This is far too close to be Es, sounds like weak tropo to me, ed.). Lots of other great DX was seen including my first IDed Ms (I know that none of this is countable in my Detroit logs, but again I don't give a damn!) After a lot of swimming, fishing, and of course DXing, it was time to go back to Detroit and, alas, low band congestion. The usual pre-season tropo gave some fair relogs. It opened up on 8/8 with my first XLTR W67AJ and some other gud DX. But that was nothing compared to 9/5 & 9/10 ultra-ducting. I was actually getting 400+ mile tropo on original monopole and loop! It blew my mind! 17 newies and enough UNIDeds to make the CCI column a daily magazine for 5 years! Right now I'm busy kicking my ankles for not installing the rabbit ears from the color TV (it went on fire just after I got back from vacation). On Dec. 2 I had given up on regular TV, so I took my old, broken Astronaut-6 and rehooked it for mediocre 30-50 DX. At 1000 a check on 30-50 showed nothing, so I went to 12-22 SW. A check at the top showed several USSR "woodpeckers" at 22 MHz, still sip on 30-50, so I went back to 22. An hour later I went back to my Astronaut 4 and to my astonishment, 4 "woodies" were on @ 42-46 MHz! I turned it down to 41 and heard ORTP! 8 minutes later I heard BBC1! On the 15th while I was DXing, I broke down beyond repair. On Christmas Eve I saw V-shaped lines over WJBC! I turned to ch3 and for a few seconds I saw "Good Morning America" on with heavy smearing. A bit of off season tropo on the 27th gave me 1 newie. And a little skip "season" gave me 4 newies, at 1830 on 1/6 I saw KATC/WLBT IDs back to back and a weird catch the morning after saw KGFE absolutely killing 1cl. on 3 MR. Dressup was in very short fadea the day after that my parents had the color TV

General Grant, cont'

fixed. When I visited a friend's house a friend's house a few months ago, he and my friend went to their basement to watch "60 Minutes". I turned the TV on and turned it to what I thought was ch. 2. The picture was a bit blurry (which could be expected in the basement). When the show was over I saw the WTOL ID and had said to myself "Channel 2 is really goofing it up tonight". Then I looked at the dial, it was on 11! And the antenna was a folded dipole/ reflector aimed at the Detroit locals. With this I have decided its antenna time. I am thinking of trying an experiment; cascaded preamplification in which the antenna is fed into a preamp whose output is fed into a preamp. Will the Peacock fly in Detroit? even if ABC is satisfied with its affiliates, that won't stop NBC from suffering. Here in the 7th market WDIV-4 has found it can often make more money by reaching for the bypass switch and presently bypasses so much that NBC are now known by many as a secondary NBC feed, and NBC has nowhere to go. WKND has the same indie-priority that WDIV has, and WGRB swears to remain strictly christian! Only possible solution would be to put up 3 kw IITRs. 1 each in Southfield, Warren, and Dearborn which would be microwave fed WKYG-3's signal. (What about WTVG-13 in Toledo, can't people watch that? I remember when I was in Toledo, all the Detroit stations were very easy to receive, ed.) 73 & good DX." (Bob, could you keep your comments brief? Ed.)

Paul Petoosky Box 51 Trout Lake, MI 49793 (EST)

December	26 Tr 2130 WKAR-23 MI 240	26 Tr 2345 CISO-3 ON 112
20 Tr 2230 WLEF-36 WI 259	2200 WKOW-27 WI 310	CICO-19 ON 190
26 2020 WHRM-20 WI 257	2220 WHTV-15 WI 310	Sudbury
2030 WAOW-9 WI 257	2330 WNCN-11 NC 400	0100 WTCM-11 MN 400
WAED-12 WI 210	2330 WKNC-9 ON 190	WBAD-13 WI 260
WSAU-7 WI 257	2130 WPNE-38 WI 185	CBLLT6-12 ON 112

"CICO-TV-26 in Sault Ste. Marie, Ontario (What happened to CICO-20?, ed) began programming a couple of weeks ago in French-this should prove to be an interesting DX catch-due to its low power. Have talked to Bill Dneeb a few times-and even with his elaborate system still hasn't picked it up yet! Next week I am going to put up my OMAub for UHF and should prove to be a big difference for me. I am only 10 miles away to the nearest point to Lake Michigan-20 miles to Lake Huron-17 miles to Whitefish Bay that connects to Lake Superior-the closest point to north shore of Lake Superior is 40 miles. So, when DX funnels into Trout Lake- I can "grab" it all! Weather here has been great-just a trace of snow-otherwise you can see grass in most places. Its a very unusual year!"

Bob Zent 1835 Fruit St. Huntington, IN 46750 (EST)

December	28 Tr 2000 KRIV-32 IA 375	29 Tr 2300 WVVU-24 WV 298
15 Tr 2300 WBBM-55 IL 235	2100 KSHN-27 IA 575	WFGH-53 PA 295
Springfield	Sioux City	2314 WPCB-40 PA
2314 KDML-30 MO 305	2102 KHMN-36 IA 525	Greensburg
Evaabeville U's	2327 KHEG-14 IA 575	
2317 Huntaville U's	2330 KDUB-40 IA 300	January
28 1131 WBTI-64 OH 150	29 2257 WPTT-22 PA 295	15 Tr 1900 WTVK-26 TN 360
Cincinnati	Pittsburgh	WPCB-40 PA

Donald B. Riland 4448-68th Place Kenosha, WI 53142 (CDT/CDT)

September	28 Tr 1630 WCVN-54 KY 310	29 Tr 2200 WJAN-17 OH 360
30 Tr 0645 KCCI-8 IA 310	W5BAG-58 KY 330	WPGH-53 PA 430
WHO-13 IA 310	1700 WKAS-25 KY 400	30 0515 WAKR-23 OH 340
December	Ashland	WIKY-32 KY 330
27 Tr 0540 WHO-13 IA 310	1800 WKYT-27 KY 360	WJAN-17 OH 360
0600 WTCN-11 MN 320	WTVQ-62 KY 360	WHIZ-18 OH 360
1800 KCCI-8 IA 310	WKMJ-68 KY 330	0530 WKRC-12 OH 300
1815 KTSB-27 KA 470	WFIE-14 IN 320	WKIX-19 KY 300
1830 KBMA-41 MO 430	WBHT-25 IN 320	WBNS-10 OH 320
KYFC-50 MO 430	2330 WKYH-57 KY 440	WOWX-13 WV 420
Kansas City	WKPC-15 KY 330	WPGH-53 PA 430
1845 KCBJ-17 MO 340	29 0900 CBLFT9-68 OH 290	1630 WCKT-48 OH 300
1930 KCPT-19 MO 430	W63AH-63 OH 250	WPCB-42 OH 370
Kansas City	0930 WKYH-57 KY 440	W63AH-63 OH 250
28 0545 WHAS-11 KY 330	WKYT-27 KY 360	1815 WKON-52 KY 330
WIKY-32 KY 330	WTVQ-62 KY 360	2100 WKBM-27 OH 380
WKRC-12 OH 300	0955 WBTI-64 OH 300	WTVV-33 OH 380
WXIX-19 KY 300	Cincinnati	WVIZ-25 OH 330
0600 WDRB-41 KY 330	1030 W17AA-17 OH 230	WUAB-43 OH 330
0700 WOSU-34 OH 320	Gelina	WCVN-54 KY 310
WVIZ-25 OH 330	1515 W47AB-47 OH 310	31 1430 WFBQ-42 OH 370
0720 WMUL-33 WV 420	WOSU-34 OH 320	WMUL-33 WV 420
1630 WRET-48 OH 300	WFO-42 OH 370	WKIX-19 KY 300
WKON-52 KY 330	WNBO-45 OH 360	WCKT-48 OH 300

Donald Riland cont'

December	31 Tr 1530 CBLFT-25 ON 430	January	6 Bn 1300 KPRC-2 TX T	15 Tr 1900 W47AB-47 OH 310
	CICA-19 ON 430		KIII-3 TX T	WPGH-53 PA 430
	CFMT-47 ON 430		1700 WNDU-3 FL 1070	W63AH-63 OH 250
	Toronto		WTHS-2 FL T	2000 WFTT-19 TN 510
	WJET-24 PA 400		1730 WTVY-4 AL 800	WKYH-57 KY 440
	WQLN-54 PA 400			WVTV-47 VA 400
	CBLFT1-76 ON 400		1800 KATC-3 LA 900	2100 WFTV-21 ON 300
	CITY-79 ON 430		15 Tr 1900 WJAN-17 OH 360	WKRN-27 OH 300
	1545 WUTV-29 NY 460		WAKR-23 OH 340	2110 WPTT-22 PA 430
	1615 CICO-28 ON 400		WMAO-49 OH 340	Pittsburgh
	WPGH-53 PA 430		WVIZ-25 OH 330	18 0540 KPLR-11 MO 300
	1630 WKXI-21 NY 520		WUAB-43 OH 330	0550 WHO-13 IA 310
	1730 WTVV-33 OH 380		WTVV-33 OH 380	19 0000 WLAB-18 KY 360
	1800 CBLFT2-40 ON 340		WDRB-41 KY 330	WKYT-27 KY 360
	WNED-45 OH 360		WHDJ-68 KY 330	WTVQ-62 KY 360
	WNED-17 NY 460		WUCC-44 OH 370	WXIX-19 KY 300
	1900 WCHY-24 NY 590		WNBO-45 OH 360	WRET-48 OH 300
			WVIZ-25 OH 360	WKYH-57 KY 440
			WVIZ-25 OH 360	W63AH-63 OH 250

"Log at 483, 8 new."

Gary A. Olsen 1195 S. Wilson Dr. Lake Forest, IL 60045

"After 4 years I came back, back to TV DXing! Late September marked the end of my long hiatus from the dials when...with the help of Morrie Goldman...I finished my new installation. Since last winter I have been planning, buying components, gathering bits and pieces, and slowly putting together a new setup. The faithful heights tower and 7' dish had been sitting in my Lake Forest backyard since we moved here in December of 1976. I added to the tower and developed a whole new ground-up system with all 75 ohm RG-6 cable (type Belden 9283). The dish with OMAU-B pre-amp and a Radio Shack V-185 ch 2-13 antenna now are up at 50' above the ground. I missed the September tips because I was completing most of the interior part of the system--building custom racks to house my custom panels and wiring the various patching networks. Now blended into the internal set-up are complete 75 ohm panels Channel Master high and low band traps, VHF and UHF splitters, Conrac AV-82E all channel tuner and Sony CVM-1225 Color receiver/monitor. A Heathkit UHF detent tuner is wired in to update the AV-82E from its inaccurate continuous tuner. Also built-in is the "Dave Janowiak-built" lo and high band amplifier which really helps of VHF. Unfortunately the 24 volt relay (to switch in and out from the OMAU-B) failed and stuck in the nonamplified position. I had to climb the tower in chilly October winds to undo some of my fine workmanship and reverse the connections to bypass the relay. But finally everything is done-- for phase one of course (I'd trade your phase 1 for my phase 3, hi, ed.) There's always bigger and better plans for phase 2. The system got a nice break-in during the surprisingly mild late December when I chanced to take a look at the bands to see why I kept getting CCI on the Chicago locals. Joy of Joys! DX was in and the bug bit again. Confirmed loggings:

12/28 evening All Detroit U's, many Indiana, Ohio, Michigan, & Kentucky U's, W67AC-Darlington, Wisc. (125 miles). 75-French language movie-no ID, 68 WKHJ Louisville, 52-WKON Owenton (300 miles), 53 WKGB Bowling Green (340 miles), WBBM-55 Springfield, Ill. (180 miles), WTVQ-62 Lexington (325 miles), 30 KDML St. Louis (300 miles).
12/29 morning 64 WBTI Cincinnati (280 miles)-new station heralding its newness on air w/ special slide. 63 W63AH Maplewood, Oh ID as WPTO/WPTD. 66 -ID as CBLFT-25--not sure which station this is. 14 WPTO Oxford, 16 WPTD Dayton, 25 WVIZ Cleveland, clear (340 miles), 43-WUAB Cleveland, clear (340 miles).
12/30 morning WKYX-7, WKID-7, WUAB-43 OH, WJIN-6 MI, WTVG-13 OH (unfamiliar call)(new calls of WSPD Toledo, ed.)

December 31 was a quiet evening at home for New Years Eve. The dial was hot when I began tuning at 6:20 however. Highlights were:

6:30 PM CBLFT2-40 London, OH, ID as CBLFT-25, obnoxious ch.20 must have been WKON-20 pay TV.
7:30 PM CICO-18, CICA-19 and CICO-24 all carrying same program.
8:00 PM CBLFT-25 Toronto, channel 79 English speaking, most likely was CITY but I got no ID. WTV-47 ID-apparently CFMT-47. Ch. 76 & 40 running dubbed Jan & Dean movie was CBLFT2-40 and CBLFT1-76 Kitchener.
9:00 PM CKOO3 Sarnia IDed as CKOO on ch 42 after the "Free" hockey game (looked like WKON was running the same game for pay-tv) (They were, ed.)
10:00 PM The evening trailed off to WQLN-54 Erie (420 miles) and WPGH-53 Pittsburgh as punk weather began to roll in.
Probably the most overwhelming thing to me--having been off the bands for 4 years--was the number of UHF stations, especially new Canadians, now crowding the dial. Seems like just yesterday that 200 mile UHF was something to crow about; you could dial across the whole UHF band and see only a couple of blips. Ah, but we're all much older now. Hope I'll be reporting again soon now that I'm back in the clan!" (Welcome back, ed.)

Chris Patrinelis 2829 White Plains Ct. Springfield, IL 62704 (CMT/CST)
(Forwarded by Father John, ed.)

May	September	9 Tr 1633 KOMU-8 MO
11 Es 2000 KVGN-2 CO	1 Tr 0035 WOC-6 IA 140	December
August	0036 WGNM-10 IL 90	28 Tr 0130 KTVO-3 MO
30 Tr 2302 WREX-13 IL 175	0057 WTHI-10 IN 125	0253 KCCI-8 IA
31 0100 KWNL-7 IA	0100 WQAD-8 IL 130	0325 WMT-2 IA
0257 KCRG-9 IA	0235 WISH-8 IN 150	1305 WQRF-39 IL
	2300 WGYC-35 MI	29 0100 WISH-8 IN
		0140 WRTV-6 IN

"40' tower, Winegard ant. Model 4
N/A AC 8950 AMP. C.H. rotor, 19" black
& white RCA. Note: due to ice storm most elements are broken off."

Robert S. Ross VE3JFC Box 4373, Stn. C London, ON N5W 5J2 (EST)

January	February	6 Tr 0707 WKBD-50 MI
15 Tr 0058 WPBN-7 MI	5 Tr 0622 CHCH-11 ON	0709 KCGO-42 ON
0105 WJRT-12 MI	0600 WJET-24 PA	0711 WXON-20 MI

Mickey Hogan 6th Trail along, Jungle Route 4, Manaus, Brazil 64721

Mickey is still in Brazil hunting llamas. Wait, something is coming in on the Hogan detector. Its him, let's listen: "HELP!!!!!! I'M LOST." Well there you have it, Mickey is lost in Brazil. If there any WFFDA members in the area would you search the area? Also, any members who have nothing to do for a few weeks may wish to head to the Amazon to look for our wandering Board member. When I get finished typing this I'm off on the search.

Rich Turcany 7 Cayer Circle Shelton, CT 06484 (EST)

11/4 0925 ch. R1
11/12 0900 ch. R1, 0930 ORF-E2a Jauerling, Austria (vb 49.75 MHz), BBC1-B2 Oxford (48.295 audio), 1015 BBC1-B2 Swingate (48.285 audio), 1120 ch. E2 video buss believed to be Nigeria.

11/17 0900 ch. R1
11/18 0840 ch. R1, RTE-1A Sligo, Ireland (41.50 audio), RTE-1A ? Ireland (45.77 video buss), RTE-1A (45.75 vb)

11/23 1140 BBC1-B3 Kirk o'Shotts (53.23 audio), heard U/WCBS-2 using an old U.S. set.
12/8 1020 RTE-1A Gort, Ireland (53.75 video), 625 line video seen U/WCBS-2 with vert. hold adjust. Had good quality video in, a sports program with boxing match and interview was aired. 1045 BBC1-B3 Nowridge (53.23 audio), causing 20 kHz CCI to Kirk o'Shotts when viewed on U.S. set (audios are AM modulated).

12/9 0945 RTE-1B, BBC1-B3
12/12 1238 BRT-E2 Aalter, Belgium (48.24 vb-positive video modulation).
12/15 0800 WSNL-67 resumed regular broadcasting with old John Wayne flick. 0900 R1 video buss strong, with Hungary, Czechoslovakia, and Poland offsets logged. Also logged was a strong buss on 49.76 MHz (which sounds close to U.S.), likely Kiev, USSR. 1000 RTE-1B Gort.

12/16 0945 ch. R1, 1015 RTE-1B seen W/ads, one looked like a wine commercial (product name unreadable due to ghosting). 1030 Wavy-like lines seen on RTE-1B (not offset CCI), believed to be FM modulated audio from Spain.

12/18 0700 WJNU-47 Newark, NJ testing from World Trade Center, signal 4555.

(Now using a foreign standard TV).

1/6 1015 48.265 West German vb strong on scanner, but causing just a weak picture on my set. 1245 48.247.26 Norwegian video ?

"This was great. Even though the best F2 conditions occurred just weeks before I received my foreign set (a Unisonic XL-990), at least I was still able to view F2 video from Ireland. I've made some interesting loggings in between, such as Austria ch. E2A, BBC1-B3, ch. E2 audio, and USSR video buss. But as of this writing (2/18), nothing's been in except BBC1-B1 audio/video and TFI audio. Hope there's one last chance for E2 video in the next month. As for the foreign TV, it has a coverage of 45.75-230 MHz, and can be converted to 625 line scanning with the flick of a switch. It will receive American TV I.F. at 45.75, but it comes in weak. The 1/6 F2 reception was probably the best I could receive on the set, but I wished that the F2 conditions could have improved in time. One sas note: on 1/30 WSNL-67 on Long Island was damaged in a fire which began in a transformer. There was great damage to the studio, although the equipment was safely moved out. This comes only one month after the station returned to the air for the first time in 4 1/2 years. The station was under program test authority, which meant that they were on only four hours a day. The station had been airing old movies and a local newscast, but was now into the process of broadcasting Wometco Home Theatre (WHT) over-the-air pay TV service to Long Island and here in Fairfield County (I plan to subscribe as I can use the decoder box to DX other pay-TV stations via tropo, hi.). It is not known when the station will return to the air, but they say they will rebuild. 73's."

Wayne M. Thompson Rte. 4, Box 156 Silver Springs, FL 32688 1-(904)-625-3048 (WMT/EST)

October	November	6 Es 1605 KFDX-3 TX 1025
27 F2 0950 BBC1-BI GB 5575	14 Ms 0518 WHSV-3 VA 690	8700 KEBW-3 NH 130C
Crystal Palace	Harrisonburg	1710 KAMR-4 TX 1240
41.5 MHz	0519 KYW-3 PA 865	Amarillo
28 0900 TFI-F2 France	December	1716 KTVI-4 OK 1010
Troyes	3 Ms 0534 WGR-2 NY 1000	Oklahoma City
41.25 MHz	12 Tr 0530 WWAY-3 NC 440	19 Tr 0934 WANK-41 GA 280
"In almost every	14 0247 WCTV-6 FL 270	0949 WANK-46 GA 360
Sat. & Sun. morn.	0533 WCKT-7 FL 270	26 0700 W3MA-33 FL 260
til end of Jan."	January	Pt. Lauderdale
	6 Es 0600 KTNM-2 OK 955	XLTR WCII-6
	Tulsa	

Roger Kramets 3406 W. Pierce Chicago, IL 60651 (312) 235-5188 (CST)

January	18 Tr 1005 WVUT-22 IN	19 Tr 0142 WKLY-32 KY 277
15 Tr 1616 WPTT-22 PA 418	1034 WUSI-16 IL 219	0343 WKRP-22 OH 237
1753 WOSU-34 OH 280	2230 WUSI-16 IL 219	0524 WKBC-12 OH 250
		WBAS-11 KY 277

"Not really much DX to report since late Dec. The 1/15 opening was the second time in two weeks that WPTT-22 was supering through WSBT, 88 miles & in the same direction from here. This was logged on a make shift antenna set-up. Two days before, former WTPDAer Karl Forth & myself took down my old set-up (in anticipation of my future move). When tropo cx became apparent, I quick threw up a 4 bay at 15' above the roof (about 35-40' above the ground). This proved to not have much gain, so I put the U-100 yagi back up & had about 4 times the gain. The UHF antenna is still up, but the VHF & rotor are packed in their boxes. Still no idea on when I'll be moving, but I would guess the earliest will be in late April or early May, since the people buying the house haven't yet made an offer. For those of you who have their black & white TV pictures processed by a commercial lab and are unsatisfied, take notice. I am announcing my photo lab opening. I will process only TV photos & only black & white. I have an enlarger that can make prints up to 16 X 20. My charges may be slightly higher than a commercial lab, due to the purchase of supplies in smaller quantities and in the retail market. Any profits I make will help offset my costs (including the printing of color negatives in black & white for appearance in Photo News). Hopefully my experience in printing poor quality negatives will be of assistance to some of you. My anticipated cost for a 12 exposure roll of film is about \$2.00, \$3.25 for a 36 roll 35 mm roll, & \$2.75 for 20 exposures & about 12¢ for a contact print or 3 1/2 X 5 1/2.. 73's."

The official WFFDA Member Opinion Poll:

1. Is the Eastern TV DX Editor wierd ? A. Yes B. No C. I'm to wierd to determine
2. Is Mike Hogan wierd ? A. Yes B. Yes C. Probably

Vote as many times as you like. You can even vote if, when your VUD arrives, you are in a state generally thought of as being deceased. Remember, I'm from Chicago.

George S. Gallacher 701 N. Ogden Pl. Ossian, IN 46777 (EST)

September	December	15 Tr 1043 WFLD-32 IL
16 Tr 2220 WLWT-5 OH	4 Tr 2130 WDHO-24 OH	1059 WFIT-34 IN
30 2010 WILX-10 MI	2131 WGN-9 IL	1100 WSNL-44 IL
2200 WOTV-8 MI	2320 WTVG-13 OH	1130 WGTU-29 MI
October	28 1842 WWSN-25 IL	1151 CKOO-13 OH
1 Tr 2249 WRTV-6 IN	1730 WGYC-35 MI	1600 WLLI-12 IL
17 0624 WHIO-7 OH	1300 WJRT-12 MI	1602 WHAS-11 KY
18 0516 WJIM-6 MI	1452 WPTD-16 OH	1700 WKYT-27 KY
2035 WBCU-57 OH	1700 WGTU-30 OH	1741 WGTU-26 IL
2041 WLIO-35 OH	1703 WKAR-23 MI	1756 WISN-12 WI
2044 WSJV-28 IN	1705 WKBD-50 MI	1829 WBSN-10 OH
2045 WDHO-24 OH	30 0100 WKIX-19 KY	1900 WKYC-3 OH
WSBT-22 IN	0130 WAND-17 IL	1900 WTRF-7 WV
2046 WRDU-16 IN	0134 WHMB-40 IN	1911 WSTV-9 OH
2059 WLFI-18 IN	January	1918 WLIC-11 PA
2100 WUHQ-41 MI	8 Tr 1816 WTHI-10 IN	1946 WGPC-38 IL
2130 WKZO-3 MI	1830 WTHR-13 IN	2100 WSWP-9 WV
30 0600 WTOL-11 OH	0013 WDTN-2 OH	2117 WTVQ-62 KY
0602 WTVO-2 IN	0021 WKRC-12 OH	18 1650 KCEG-9 IA
2034 CBET-9 ON	0024 WCFO-9 OH	1720 WGHM-10 IL
2044 WXYZ-7 MI	14 1630 WMAQ-5 IL	1750 WAVE-3 KY
2100 WTVN-6 OH	1631 WIS-7 IL	
November	1638 WDIV-4 MI	
7 Tr 1859 WDTN-2 OH	1707 WPBN-7 MI	
16 2330 WTTV-4 IN	1711 WCIA-3 IL	
20 2000 WTPV-9 MI	2128 WTTW-11 IL	

"Well here it is, my first DX report. Before I go any further, I'd like to thank Robert Zent in Huntington,

George S. Callacher cont'

Indiana for helping me select a DX antenna. His experience with them was very helpful to me in selecting an antenna. Both of us keep in touch whenever an E-skip or tropo opening comes around this area. Again thanks Bob. From 8-11-79 until around 1-8-80 I was using a 6 element R.S. FM only antenna on my television. Surprisingly enough the results weren't too shabby. But the antenna wasn't good enough for DXing, so on 1-8-80 in 16 degree weather I put up a Radio Shack V-150 VHF-FM twenty element antenna, 20' high in the air. Other pieces of my DX equipment consists of a Marantz 2500 receiver and a Quasar 7" B&W television. Hope to buy a Sony 12" color set and a Betamax video system soon, or else move out cause I have no room for anything else. My room is only 10' X 12', and everything is so crowded together. At any rate I hope to get an FM DX report in before the end of March. 73's to everyone." (George says he uses a 7 1/4" halo indoor antenna for UHF. George, note the two call letter corrections I made in your report. Your channel 9 Cadillac, Michigan should be WTVF. WWUP is on channel 10 in Sault Ste. Marie, MI & rebroadcasts WTVF. WTVG-13 Toledo is WSPD's new calls, they changed on 10/1/79, ed.)

Have you ever wondered how much you know about llamas? Well, now you can find out, as we're having a quiz. There is only one answer to each question.

1. Llamas are: A. Bigger than a bread box B. Larger than frogs C. About the same size as sheep.

2. Llamas are: A. Very very dangerous B. Tame and placid C. Boisterous

3. Which of the two is more dangerous? 1. Killer sheep 2. Llamas

4. Llamas can: A. shoot guns B. Fly military aircraft C. Swim

There are three first prizes & 3 second prizes. In the event of a tie, the winners will be drawn by lot (of the vacant variety). The prizes are of the unique type.

Guidelines for reporting to ETVDX

1. Try to mimic the format I use as close as possible.
2. Don't report program details in the logging section.
3. Report only that which is truly DX. If you get something 10-15 times a month its not DX.
4. Please refrain from putting details other than station listings in the loggings section use the comments part of your report to discuss anything unusual about the logging (this will save space & prevent mistakes in my counting the number of lines each report takes).
5. Be as brief as possible in your comments.
6. There is no guideline 6.
7. Same as above, only this is guideline 7.
8. Weird contributions always welcome.
9. There is a guideline 9, but its a secret.

I am holding lengthy reports from Paul Gaines & John Barber until next month so that I get this to Buffalo on time. . htnon txen uoy eeS (read backwards, ed.) 25 X 4 - 30 + 3's.

INTERNATIONAL NOTES (continued from page 5)

From the British magazine "TELEVISION" comes some information in Roger Bunnay's column.

- ** BBC-1 (B2) received in Perth, Australia.
- ** Australian TV (AØ) 46.25 MHz V/ 51.75 S received in Britain.
- ** South Africans report Portugal RTP (E2), an R1 with Chinese characters.
- ** Russian satellite is broadcasting TV direct on 714 MHz (around U.S. ch 54).

I have ordered a list of TV/radio stations (private) in Italy and will print that as soon as I get it.

THANKS to JOHN COMBS, GLENN JACOBS, JOHN ZONDLO and everyone else for their support.

VHF UTILITY DX

FEBRUARY 1980

R.D. Stein, 456 Barrymore Place, North Brunswick, NJ 08902 Bearcat 250 and Touch on Hustler Discone antennas; GMT

11-14:	12-2:
1411 41.62 Spanish	1520 44.71 Sp., 1904 40.05 Mexico ?
1505 39.18 Venezuela (Parques Nacionales)	1905 KOG907 39.82 Butte, MT-cp
1615 KOA216 39.82 Great Falls, MT-cp	2045 37.8 BWI Eng.
1755 KMA628 39.14 L.A., CA-cp	2100 46.07 French
2054 KOB568 39.82 Lake Co., MT	2104 - 39.82 Virginia City, MT
11-15:	12-4:
1325 46.46 Puerto Ordaz, Ven.	1535 37.8 Italian
1342 35.88 Bayamon, PR	1543 37.46 Spanish
1406 39.18 Ven., 1440 44.04 BWI Eng.	1544 KKA617 37.62 Mathis, TX
11-16:	1553 37.7 Port.
1312 44.13 BWI Eng., 1315 44.71 Sp.	12-5:
1755 KOA216	1336 37.025 Rus. Port.
1756 40.39 Guadalajara, Mexico	1344 37.10 BWI Eng., 1349 37.44
1827 KOA284 39.82	12-6:
11-20:	1405 37.19 Sp.
1459 44.71 Sp.	1424 37.025 Rus.
1505 42.75 Rus., BWI Eng., Sp., Ital.	1637 45.7 military
2145 34.85, 36.51 White Sands, NM (missile base)	2232 KOF476 Philipsburg, MT-cp 39.82
2146 44.1 Eng.	2234 KOA722 Missoula " " "
2153 KOD276 39.82 Hardin, MT-cp	2236 KOG381 Virginia City " " "
11-23:	12-9:
1743 45.70 KMJ521 San Diego Co.-cp	1428 40.14 BWI Eng
11-28:	1511 36.275 Rus., 1520 40.05 Sp.
1420 36.23 Rus., 1425 36.275 Rus.	
11-29:	
1420 40.14 Rus. & Port.	
1424 48.30 Spanish	
1449 KVC658 35.88 Bayamon, PR	
1520 37.2 BWI Eng.	
2210 KOA999 39.82 Kalispell, MT-p	
2252 WBC418 39.86 Sierra Co, CA	
11-30:	
1311 37.20 Sp., 36.90 BWI Eng.	
12-1:	
1420 46.07 BWI Eng.	
1707 41.62 Span., 1718 40.14 Port.	

BWI = British West Indian
A lot of UNID Spanish etc under the day's MUF were cut.
There is a Latin American repeater on 36.9 that has a 33.9 input and thus puts out horrendous amounts of US east coast fire departments!
With the help of some recent immigrants (Boris & Yelena) some of the Russian tapes were deciphered:
40.14 likely White Russia
37.025-Ministry of Food Production (likely Moscow)
-Taxi cabs near Minsk
-military, Poland border near Vistula River

other Russian frequencies:
33.90, 36.23, 36.275, 42.750

D. Wilson, 237-B E. Summit St., Kent, OH 44240 Bearcat 210, GMT

11-3:
1153 45.62 Radio Mia, Panama
12-11:
1535 49.75 videos, 48.25 videos, 45 BBC videos
41.465, 41.48, 41.50, 41.52, 41.535 BBC audios
41.23, 41.25, 41.27 French audio
12-12:
1444 48.25 BBC audio

Dec 10.7-cm solar flux average was down to 205, and the smoothed avg (Jun 1979) rose to 192. It wont be known until mid-year just when the cycle peak was. If fluxes dont get into the 250+ range much in the next few months, November may have been it.

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

VHF UTILITY DX

FEBRUARY 1980

G. DuBois, 10048 NE Campaign, Portland, OR 97220 Bearcat 250, A/S Mon 8
long wire, PST

11-10:
1430-1503 41.5 BBC audio(weak)
11-22:
0830-1010 41.5 BBC (very strong)
0930-1130 41.25 France (" ")
12-13:
1000 41.5/41.25 (very strong)
1530 40.00 "Kotzebue Radio" AK
(US Army National Guard)
12-15/16: morning 41.5/41.25
12-17:
0740 33.44 Quebec
1730 37.6 S.Korea (US Army ATC)
1740 37.78 Russian ?
12-18:
1710 33.35 Russian

also, 10-30: to 1800 31.04 2nd harmonic of R.Peking

My loggings. Bearcat 210, 11-m ground plane at 14', Hallicrafters SX-62
with 30' long wire; daily peak MUF's noted (all F2 mode, * Es), new,
GMT (see next section for 49-50+ events)

12-6:
1435 41.5 BBC TV audio; 43.7 se
1440 45 BBC TV videos
1505 48.25 faint beats
1510 48.25 BBC audio
41.25 French TV audio
1525 48.25 TV videos
1600 43's to US ne
1642 KCI295 43.22 Manchester,NH-tp
1757 KOA418 42.88 Astoria,OR-sp
2152 KOB238 37.58 Seattle,WA-light
2212 KOP303 35.62 Langley,WA-mp
2245 40.62 Pacific ?
2315 hi-36 Russian
12-7:
1412 KCC405 37.54 Bangor,ME-he
1415 37.35 se
1435 45 videos, 41.5 BBC
1515 48 videos, 1527 48 audios
2210 40.62 Pacific ?
12-8:
1407 41.5 BBC, 1440 45 videos
1445 38 Spanish
1459 41.25 Fr, faint 48's
1507 48 videos, 43 US ne
1530 48 audios
2032 35.26 Portland,OR-mp
2039 KUA288 35.22 Portland,OR-tp
2040 KOP303 35.46; 40.62 Pac.?
12-9:
1335 41.5 BBC, 1355 45 videos
1402 35.22 Wilkes-Barre,PA-yp
1404 KCA305 37.54 Eddington,ME-u
1425 41.25 Fr, 37.35 se
1445 48 videos and audios
12-10:
1415 43.7 Spanish, 1420 41.5 BBC
1425 41.25 France
1437 KCD626 37.54 New Haven,CT-wtr
1440 45 videos, 1450 48 videos

12-19:
1600 42.65 Russian
1640 38.65 Taejon,S.Korea
(US Army RWI net)
1730-1815 Es to L.A.,CA 35-42 MHz
12-23:
0938 36.6 Montreal,PQ-p

almost daily:
32.6 Seoul (Korean Br.Sys.)
(cx music 0110-0200z)
34.11 Elmendorf AFB,AK (flightline
maint.)
1500-1900 S.Korea (US Army)
33.45, 33.55, 33.65
37.38, 38.1 ROK military

12-10:
1519 48 audios, 1640 43-44 US ne
2225 40.62 Pac. ?
12-11:
(1315, 43.18 se ?)
1403 KCB364 33.70 Hubbardstown,MA-f
KCE537 " Sterling, " "
KCD244 " Falmouth, " "
1404 KCD658 " Westminster, " "
1405 KCF574 " Mashpee, " "
KCD594 " Chatham, " "
KCD845 " Brewster, " "
KCD574 " Eastham, " "
1406 41.5 BBC, 1432 41.25 France
1443 45 faint beats, 1450 48 videos
1507 48 audios, 1540 43's US ne
1736 KOA824 39.82 Big Mountain,MT-p
2055 40.62 Pacific ?
12-12:
1329 KCD244
1330 KCD582 33.70 Harvard,MA-f
1349 37.35 se?; KCC405
1350 41.25 Fr., 1405 45 videos
1413 48 videos, 1429 41.5 BBC
1433 48 audios, 1500 43+ US ne
2009 Portland 35.26, 2010 KUA288
2040 40.62 Pac.?
12-13:
1359 KCA346 37.54 Ellsworth,ME-he
1403 43.7 Spanish, KCD244
1404 KCF264 33.70 Truro,MA-f
KCD271 " Harwich, ""
KCE288 " W.Tisbury, "-cf
KCF358 " Centerville, "-f
KCD497 " Buzzards Bay, ""
1405 KCD500 " Wellfleet, ""
KCF574
KCB760 " Osterville, ""
KCB781 " Barnstable, "-cf
KCD845
1406 KCD574

VHF UTILITY DX

FEBRUARY 1980

(Dyer, cont.)

12-13:
1406 KCD454 33.70 Hyannis,MA-fdi
1413 45 videos, 1425 41.5 BBC
1440 48 videos, 1500 44+ US ne
1520 48 audios, 1550 46.76 Russian
2035 40.62 Pacific ?
12-14:
1334 43.7 Spanish
1358 KCD353 33.70 Lancaster,MA-f
1400 KCC482 35.22 Concord,NH-yp
1403 KCI299 35.22 New Haven,CT-tp
1406 KCB781, 1408 41.5 BBC
1433 37.62 US ne, 1435 45 videos
1510 48.25 beats, 1513 low-43 Can.
1615 41.27 France, 35.26 Seattle-mp
1620 48 videos, 1625 41.25/.23 Fr
1910 40.62 Pac.?
12-15:
1315 43.7 Spanish, 1410 41.5 BBC
1410 41.25 etc France
1422 W.-Barre, 1425 37.96 US ne
1432 48 videos, 1447 45 videos
1455 39 US ?, 1540 low-40 Russian
2015 40.62 Pac.?, 2130 37.06 Rus.
12-16:
1412 KCF337 33.70 Boylston,MA-f
KCB781,KCD574
KCH585 33.70 Rutland, " "
1413 KAV439 " W.Boylston, ""
KAV492 " Winchendon, ""
KCD353
1444 KEA860 35.22 NY,NY-tp
1446 46.74 Peru ?
1500 KCH954 33.70 N.Brandford,CT-f
1502 41.5 BBC, 1505 41.23/.25 Fr
1540 37's US ne, 1550 45 videos
1810 KUA288, 2100 40.62 Pac.?
12-17:
0213 35.38 L.A.,CA-mp *
0226 35.46 " " " "
1216 35.58 OK City,OK-yp(ms)
1320 KIY508 35.22 Orlando,FL-tp*
1400 KDN599 33.70 Paxton,MA-f
KCN575 " E.Princeton, ""
1401 KCH585, 1402 KAV492
1403 KCD353, 1404 KCD244
1404 KCD246 33.70 S.Yarmouth,MA-f
KCB360 " Leominster, " "
KCD492 " Dennis Port, " "
1405 KCD498 " Sandwich, " "
KCD556 " Orleans, " "
KCB760,KCD454
1415 KCC405, 1430 45.1 Spanish
1432 41.5 BBC, 1500 45 videos
1517 41.25 France, 1520 48.25 beats
1532 low-43 US ne
1535 35.66 NY,NY-mp
2000 40.62 Pac.?, 2035 W.-Barre
12-18:
1345 37.35 se
1347 KCB781, 1437 KCA346
1450 41.5 BBC, 1510 41.25 France
1520 45 videos, 1525 39.82 US ne

12-18:
1535 48.25 beats, 1543 41.64 Can (Fr)
1920 40.62 Pacific ?
12-19:
1445 43.7 se, 1503 41.5 BBC
1507 KCC405, 1540 45 videos
1615 40+ Can (Fr), 1755 KCI299
2035 40.62 Pac.?
12-20:
1415 45.13 Sp., 1419 KCC405
1440 41.5 BBC, 1520 40-41 Can (Fr)
1530 45 videos, 1837 KCA305
2100 40.62 Pac.?, 2235 36.6 mpx
2315 37.06 Rus., 2346 KOP303 35.46
12-21:
0130 KAR457 39.50 Olney,IL-p *
0133 KSB269 " Watseka, "-cp *
1510 41.5 BBC, 1513 45 videos
1540 41.23/.25/.27 France
1545 48 audios, 1600 low-43 US ne
12-22:
1325 46.94 Spanish
1355 KCG342 33.70 Barre,MA-f
KCB778 " Berlin, " "
KBA887 " Bolton, " "
KCF337
KCH246 " Clinton, ""
KCA395 " Gardner, ""
KCD582
1356 KCC705 " Holden, " "
KCB364,KCD353,KCB360,KDN599
KCN575,KCH585,
1357 KCE537,KCH239,KCD658,KAV492
1400 41.5 BBC, 1418 KCC482
1422 W.-Barre, 1455 48.25 beats
1502 45 videos, 1525 48 videos
1949 Portland 35.26
2102 KCI295, 2106 42.34 MA
2123 KRS665 43.22 Agamenticus,ME-tp
2136 low-45 US ne ?
2149 KCA887 39.54 Attleboro,MA-p
2225 38.02 Alberta (mobiles)
2235 35.46 Glide,OR-mp
KOP303 35.62
2236 Seattle 35.26, 2255 KOB238
2310 45.25 New Zealand video ?
12-23:
1401 KCD244,KCD246,KCF264,KCD271
KCE288,KCD498,KCD556,KCF574
KCD594
1402 KCB760,KCB781,KCD845,KCD574
KCD454
1423 KCD575 33.70 Cheshire,CT-f
1612 41.5 BBC, 1824 KCD626
12-24:
1427 46.94 Spanish, 1446 35.66 NYC
1502 KEA860, 1528 41.25 France
1528 41.5 BBC, 1535 KCC405
1543 45 videos
1759 KCA695 33.78 Manchester,NH-f
KEE720 " Millburn,NJ- " "
1800 KVT766 " Dover,DE-cf
1802 KCH954, 1810 39's US ne

VHF UTILITY DX

(Dyer, cont.)

12-24:
2354 KOP303 35.46
12-25:
1420 40.86 Spanish, 1443 43.18 ?
1532 KCD306 33.70 York, ME-vf
1547 KCG342, 1600 KCH954
1631 KDA383 33.90 Milford, NH-f
1635 41.25 Fr, 1640 41.5 BBC
1649 KEA860, 1728 KCI299 /tp
1730 KGC223 35.22 Philadelphia, PA-
KCB890 " Fall River, MA-tp
1738 KCG651 33.70 Derby, CT-f
2021 KCA695
2036 KOH894 33.70 Winslow, WA-cf
2129 KBZ283 33.90 Orford, NH-rf
KDC288 " Hollis, " -f
2130 KDA381 " Wilton, " "
12-26:
1512 41.5 BBC, 40.86 Spanish
1536 KCA305
1924 KCE869 33.70 Prospect, CT-vf
1929 KOH894, 2020 KBA887
2027 KCC405, 2028 KCA346
2030 KCC957 33.70 Bethel, CT-f
2056 KFN716 " Arundel, ME-"
2059 KCF337, 2100 KCH954
2216 KBZ283
2228 KCB951 33.70 WellsBeach, ME-f
2255 40.62 Pac.? 2325 37.13 Rus.
12-27:
1445 41.5 BBC, 41.23 France
1455 41.25/.27 Fr
1520 43.7 Spanish; KCC405
1524 35.66 Wilmington, DE-mp
1929 KRG767 33.90 Easton, MD-cf
KDA383
1541 KCA305, 1558 KDC288
1559 KBZ283, KDA381
12-28:
1418 37.35 se, 1435 43.18 ?
1440 KGF392 33.70 Pottstown, PA-f
1540 41.23/.25 France
1543 41.5 BBC, 1650 KCA305
1714 KCC405 /tp*
1735 KIF651 35.58 Ft. Lauderdale, FL-
1740 KUA288, 1745 Portland 35.26
1746 Seattle 35.26, 1950 KCA346
2005 40+ Canada (Fr)
12-29:
1350 44.71 ?, 1442 KCI299, KEA860
1458 KCD353
KCH677 33.70 Fitchburg, MA-cf
1502 KCD658, 1755 39 US ne
1845 39 US nw, 1855 41.64 Can. (Fr)
1900 44+ Spanish
12-30:
0012 KLF527 35.22 Honolulu, HI-tp
1350 KCC825 33.70 Kennebunk, ME-f
1356 KBA887, KCA395
1357 KCD582, KCC705, KCD353, KCB360
KAX916 33.70 Lunenburg, MA-f
KDN599, KCM575, KCH585, KCE537
1358 KRJ877 33.70 Templeton, MA-f
KCH239, KCD658, KAV492, KCB778

FEBRUARY 1980

12-30:
1401 KCH677, KCB980
1545 41.5 BBC, 1600 41.25 France
1611 KCI299, KEA860
12-31:
1401 KCG342, KCB778, KBA887, KCF337
KCH246
1402 KCA395, KCD582, KCB364, KDN599
KCM575, KCH585, KCE537, KCH239
1403 KAV492, 1433 KCC405
1530 41.23/.25 France
1548 W.-Barre, 1550 41.5 BBC
2029 Portland 35.26, 2044 KCC825
2058 KFN716
2132 KCF460 33.70 Warren, CT-vf
2140 KCF313 33.66 Andover, MA-f
2146 KCA585 33.90 Plymouth, " "
2147 KCL820 " W. Bridgewater, ""
2151 KBF376 33.86 Waterboro, ME-f
2200 KCC907 33.70 Blue Hill, " "
2214 KOH894
2245 KCF582 33.70 Thomaston, ME-f
1-1:
1455 KEA860; 41.25 France
1520 41.5 BBC
1521 KSN232 33.70 Lower Burrell, PA-vf
1700 40's Can. (Fr); 1727 W.-Barre
1736 KEC515 35.58 Albany, NY-tp
1755 39's US ne, 1850 39's US nw
2220 KGF392
2225 KCH794 33.54 Wrantham, MA-f
2235 45.26 New Zealand video ?
2308 KDX459 33.54 Medway, MA-f
2310 KVI522 33.82 Piscataway, NJ-f
2312 KCD346 33.90 Tolland, CT-f
KCD336 33.70 Lincolnville, ME-vf
2313 KJP390 " W. Point, PA-vf
2321 KUA288
2325 KDK766 33.82 Avenel, NJ-f
2328 KOB238, 2342 Seattle 35.26
2342 KOP303 35.62, 2355 40.62 Pac.?
1-2:
0000 KCF314 33.66 Tyngsborough, MA-f
0001 KCF367/366/368
33.78 Brookline, MA-f
0002 KCF364 " " " "
0005 KCD556 33.66
0026 KOA748 33.90 Seattle, WA-f
1445 43.7 Spanish; 1450 KCA305
1505 41.25 France; KCA346
1522 41.5 BBC; 1550 39's US ne
1550 low-43 Canada
2224 KCB999 33.78 Burlington, VT-f
KCA695
KDE245 33.54 Millis, MA-f
40.62 Pacific ?
2242 KCE457 33.86 Newtown, CT-f
2244 KCL540 33.90 Halifax, MA-f
2248 KCE537; 35.56 Russian
2249 KCF944 33.54 Brattleboro, VT-f
2235 KCE287 33.94 Rocky Hill, CT-f
KCE869
2258 KCY582 33.54 Franklin, MA-f
KCD658

VHF UTILITY DX

(Dyer, cont.)

1-2:
2258 KED411 33.86 Cliffside Park,
NJ-f
2259 KCB778, KBA887
2300 KCM857 33.78 Winchendon, MA-f
2301 KCR901 33.98 Rochester, NH-f
KCF311 33.66 Carlisle, MA-f
2302 KCD471 33.70 Wells, ME-f
KCD575
2320 37.13 Russian
1-3:
1434 KCI299, 1445 KCA305
1455 46.8 se; 1506 41.5 BBC
1506 KCC405, 1510 45 videos
1555 low-40 Canada (Fr)
49-50+ F2 effects, Swan 250 with Ameco nuvistor preamplifier, 5-el
Cushcraft horizontal Yagi at 23 feet with rotor
12-6:
1610 VO2AG Labrador City, Labrador
1614 VGLJN St. Johns, Newfoundland
1804 KH6IAA Hilo, HI
12-7:
1525 49.75 video ne
1550 EI2W Dublin, Ireland
12-8:
1455 49.75 videos faint to 1520
and over 50 MHz by 1615
1540 EI2W, 1605 VO1DI Newf.
12-9:
1445 49.75 videos ne
1455 EI2W, 1520 video over 50 MHz
1520 VELASJ St. John, NB
1620 WALDZJ ME; NM bs to ne
1630 VELBPY Summerside, PEI
1645 51.75 video (Ch B-2)
W6 bs from ne
1718 VO1GI Newfoundland
1740-2100 all US call areas &
Canada in on bs from nw
1755 VEBBY Yellowknife, NWT
1800 VY1AU Whitehorse, Yukon
1826 VE7DTI Prince George, BC
2000-2250 Alaskans (Fairbanks)
12-10:
1520 49.75 videos ne
1542 EI2W, 1555 VO1JN
1620 video over 50 MHz
1630 VO1DI
2035-2245 KL7NO Fairbanks, AK
12-11:
1420 49.75 video (ms assist)
1512 EI2W to 1715
1650 video over 50 MHz
12-12:
1350 49.75 video (ms assist)
1510 video over 50 MHz
12-13:
1355 49.75 video (ms assist)
1540 " " strong direct
1600 "G6SIX" "London" cw
video over 50 MHz
1630 51.75 video
1745 49.75 video f/out

FEBRUARY 1980

1-3:
1720 W.-Barre
2210 45.26 New Zealand video
2355 37.82 Russian
1-4:
1430 43.7 se, 1555 41.5 BBC
1603 KCA305, 1759 KCB781
1800 KDC288, KBZ283, KDA383
1801 KDA381, 1804 KCD575
1835 KOB238, 2025 40.62 Pac.?
2350 37.82 Russian
1-5:
1450 43.7 se, 1455 41.5 BBC
1530 45 videos, 1600 39's US
1813 KCD626

12-14:
1420-1525 49.75 video ne (w/ms)
12-15:
1405-1445 49.75 video ne (w/ms)
12-16:
1425-1510 49.75 video ne (w/ms)
12-21:
1520-1600 49.7 Spanish se
12-22:
2035 KH6IAA to 2100
KH6NS Honolulu, HI
KH6BZF Kaneohe, "
12-23:
1500 HCL1JX 50.037 Ecuador (cw bcn)
1505 HCL1BI Quito, Ecuador to 1610
12-29:
1420-30 HCL1JX (operator)
12-30:
1525 HCL1JX (op.)
1845-1920 KH6IAA
1905 KH6HI Ewa Beach, HI
12-31:
1535 49.7 se
1-1:
1450-1525 49.65/49.7 se

after mid-Dec 50-MHz F2 slowed down;
11 Dec, 1750z EI2W heard VE7
12 Dec, ZB2VHF (50.035) bcn into NV
14 Dec, 1230-1430z 59.75 Bangor, ME
Ch 2 audio into Cheltenham,
Eng. & bits of 61.25 video
16 Dec, TF3SG (Iceland) into MA
21 Dec, Øz Brazil to HI
22 Dec, Bolivia into US east
Bermuda into HI & NS
30 Dec, 2250z ZL4 into S. Calif.
1 Jan, huge aurorae mixed with F2
information such as this can be had
from the 28.885 6-m info net
Jan solar flux already over Dec
levels -

73, Pat WASIYX

VHF UTILITY DX

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

APRIL 1980

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 QSLed, GMT

3-3:	1726	KMH905	42.12	Bakersfield, CA-sp
11-3:	1427	BEC-1	41.50	Crytal Palace, England (TV audio)
	1545	TF-1	41.25	France (TV audio)
12-20:	1820	KOB651	39.82	Hamilton, MT-cp (100 watts, 70')
		KCA722	"	Missoula, " "
22:	1943	KCF344	"	Plentywood, " " (250w, 87')
		Car 4	"	Medicine Lake, "" (100w, whip)
	1950	KCN47	"	Thompson Falls, ""
	1918	KVN704	"	Bozeman, " " (120w)
23:	1811	KCF936	42.58	Carson City, NV-sp (100w)
30:	2101	KIB950	39.16	Fairfax, VA (county animal patrol; 800w)
31:	2024	KOA693	42.94	Eugene, OR-sp
1-1:	2221	KGA766	39.82	Superior, MT-cp (100w, 400')
	2223	KCA216	"	Great Falls, ""
5:	1938	KND520	42.56	Santa Maria, CA-sp
6:	1840	KSB235	42.56	Maryville, IL-sp (300w)
	1842	KYK825	"	Litchfield, " " (300w, 400'; remote at Beaver Dam State Park)

Martin J. Theil, 12 Princeton Dr. E., Holiday, FL 33589 (Feb 1-7)

KOA722	39.82	-	39.08	Santa Clara, CA-p	
KOB651	"	-	39.14	Lennox	
KOG907	"	-	39.02	W.Hollywood, " "	
KMA628	39.76	-	39.74	Malibu, " "	
KWX245	39.96	-	39.20	Carson - p	
-	42.44	Eureka, CA-p	KXE734	39.76	East L.A., CA-p
-	42.42	IN	-	39.82	Temple, " "
-	35.38	I.A., CA-mp	-	"	Thompson Falls - p
-	35.46	" " "	-	39.64	Lakewood, CA-p
-	35.54	Int. Falls, MN	-	39.44	Firestone - p
-	39.94	San Dimas, CA-p	-	39.42	Pico Rivera, CA-p

Martin would like to hear from those with experience with the Hustler Discone antenna as well as Bearcat 210/250 users.

50-MHz has been picking up again, but primarily it is now a north-south path being productive. In early March Japan received the ZB2VHF beacon (50.035) at 03-04z via long path! Feb 17 05z they also got ZS6LN beacon (50.050). Japan has also had several openings into Hawaii, New Zealand, Australia, and Brazil....Hawaii has been getting Brazil and most of the south Pacific (Cook Island, W.Samoa, Tahiti, New Hebrides, Papua New Guinea, Solomons, etc.)....southern Africa had some days with 46 MHz to N.America and regular Cyprus and ZB2 paths....ZS6PW beacon into Germany Mar 4 12z otherwise little else in Europe....Brazil has had its usual TE to northern S.America and the Caribbean as well as ZB2....Some ne US reports of the FY7 (French Guiana) beacon but most DX has been for the w and sw with Argentina into California a few days (and one night at 05z) along with Ecuador and Costa Rica; Feb 20 HCl to Seattle; Feb 29 brought 3-4 hours of ZL1/2 to CA, AZ....K3SXA/MM2 in the Caribbean found almost nitely TE south when below latitude 21 deg N.

Solar flux avg Feb just over 200, making Aug smoothed near 194. Though fluxes in Feb much like last year the north Atlantic and transcontinental MUF's not as good at all...an as yet unexplained result.

Some recent news items mention Cycle peak Apr-Jun period. Nice if it were. Swiss still have it going down & Boulder holding to last Nov.

VHF UTILITY DX

APRIL 1980

Now, my loggings. Bearcat 210 with 11-m ground plane at 14', Hallicrafters SX-62 and SP-600-JX-10 with 30' wires at 12'; daily F2 MUF peaks noted (* Es, bs-backscatter), new underlined, GMT used

2-3:	1517	KDA381	33.90	Wilton, NH-f
	1529	KBZ283	"	Orford, " -rf
	1532	KCL540	"	Halifax, MA-f
	1625	KCC785	33.70	Ogunquit, ME-f
	1627	KCA639	33.90	W.Wareham, MA-f
	1650	KCA585	33.70	Rutland, " "
	1657	KCH236	"	Oxford, CT-vf
	1659	KDA383	33.90	Milford, NH-f
	1700	KCH954	33.70	N.Brandford, CT-f
	1711	KCB526	"	Kennebunkport, ME-f
	1713	KCD306	"	York, ME-vf
	1714	KCA585	33.90	Plymouth, MA-f
	1719	KCB479	"	Kingston, " "
	1812	KCE681	33.70	Rockland, ME-f
	1828	35.26	Portland, OR-mp	
	1855	38.5	Spanish	
2-4:	1401	KCD582	33.70	Harvard, MA-f
		KCC705	"	Holden, " "
		KDN599	"	Paxton, " "
1402	KCD492	"	DennisPort, ""	
	KCD497	"	BuzzardsBay, ""	
	KCD500	"	Wellfleet, ""	
	KCD556	"	Orleans, " "	
	KCF574	"	Mashpee, " "	
	KCD594	"	Chatham, " "	
	KCD760	"	Osterville, ""	
	KCD845	"	Brewster, " "	
1403	KCD454	"	Hyannis, "-fdi	
1409	KCH677	"	Fitchburg, "-cf	
	KGD574	"	Eastham, "-f	
1411	KCE537	"	Sterling, " "	
	KCH239	"	W.Boylston, ""	
1412	KAV492	"	Winchendon, ""	
	KCD353	"	Lancaster, ""	
	KCB360	"	Leominster, ""	
1429	KDA381	"	Hollis, NH-f	
	KDC288	33.90	Hollis, NH-f	
1440	41.5	BBC (TV audio)		
1507	41.23	France (TV audio)		
1515	41.62	Spanish; 1525 41.25 Fr		
1656	KCA305	37.54	Eddington, ME-u	
1710	KCC405	"	Bangor, " -he	
1835	35.26	Seattle, WA-mp		
1840	35.26	Eugene, OR-mp		
1842	35.26	Roseburg, OR-mp		
1843	KOP303	35.46	Langley, WA-mp	
2-5:	1537	KCA585		
	1540	KCF337	33.70	Boylston, MA-f
	1544	KCA305, KCC405		
	1550	KCD820	33.90	W.Bridgewater, MA-f
	1551	KCC825	33.70	Kennebunk, ME-f
	1614	KCE537; 1625	low-36	Spanish
	1630	KDC288; 1729	KDA383, KDA381	
	1955	40.62	Pacific?	
2-6:	1400	KCD454		
	KCD246	33.70	S.Yarmouth, MA-f	
	KCL271	"	Harwich, " "	
2-6:	1401	KCF358	33.70	Centerville, MA-f
		KCD492, KCD500, KCD556		
	1402	KCD594, KCD760, KCD845		
	1437	KCA585; 1500	41.5	BBC
	1510	KCA305		
	1523	KCA346	37.54	Ellsworth, ME-he
	1557	KCI299	35.22	New Haven, CT-tp
	1558	42.8	Spanish; 1621	KCC405
	1657	KCB781	33.70	Barnstable, MA-cf
	1659	KCB526, 1700	KBZ283	
	1712	KCF313	33.66	Andover, MA-f
	1715	KDB386	"	Pepperell, ""
	1717	KCE681; 1835	35.26	Seattle
	1835	KOK418	35.46	(west)-mp
	1836	KOP303	35.46	
	1837	35.26	Bend, OR-mp	
	1838	KOB238	37.58	Seattle, WA-light
	1839	35.26	Portland	
		KCA661	33.90	Carver, MA-f
	1858	KFN501	37.18	Salem, OR-cg
	1906	KCF779	37.10	Lancaster, MA-p
	1929	KEA860	35.22	NY, NY-tp
	2245	KCE537, 2242	KCL540	
	2255	KCH585		
	2257	KCA633	33.90	Middleboro, MA-f
	2301	KCD511	33.70	Camden, ME-f
	2302	KCW348	33.90	Ft.Fairfield, ME-f
2-7:	1413	KCD575	33.70	Cheshire, CT-f
	1427	KCC405, 1428	KCA305	
	1436	KCI299		
	1441	KCD626	37.54	New Haven, CT-wtr
	1443	KCF582	33.70	Thomaston, ME-f
	1452	41.5	BBC; 1454 41.25/.23	France
	1458	KCA346		
	1559	KCA703	39.82	Fairhaven, MA-p
	1620	mid-41	Canada (Fr)	
	1630	42.98	Can.?	44.08
	1712	KCA570	39.82	Newburyport, MA-p
	1753	KCD834	39.10	Windsor, VT-ig
	2259	KCD506, 2300	KCD511	
	2321	KOH894	33.70	Winslow, WA-cf
	2330	KCN689	33.54	Norfolk, MA-f
	2331	KDL860	33.70	Rockport, ME-f
		KCA288	33.90	PresqueIsle, ""
	2338	KCF313; 2340	KCD556	33.66
2-8:	0135	KLF527	35.22	Honolulu, HI-tp
	0950	KOE257	"	Phoenix, AZ-tp*
	1032	35.46	L.A., CA-mp*	
	1430	46.12	Spanish; 1523	KCA305
	1527	41.27	France, 1611	41.23
	1630	41.25	Fr; 1717	35.26
	1733	KOP303	35.46	
	1746	35.26	Portland; 1747	KOB238
	1802	KCC405; 2117	KOK418	
	2300	KCR901	33.98	Rochester, NH-f
	2304	KCF311	33.66	Carlisle, MA-f
		KCF310	"	Chelmsford, ""
	2315	KCH794	33.54	Wrantham, " "

VHF UTILITY DX

(Dyer, cont.)
 2-8: 2315 KDX459 33.54 Medway, MA-f
 2319 KCD500
 2-9: 0038 KLF527 bs
 1346 35.28 se; 1400 KCD454
 1400 KCD244 33.70 Falmouth, MA-f
 KCD246
 KCF264 " Truro, " "
 KCD271
 KCE288 " W. Tisbury, "-cf
 1401 KCF358, KCD492, KCD497
 KCD498 33.70 Sandwich, MA-f
 KCD500, KCD556, KCD760
 1402 KCB781, KCD845, KCD574
 1404 KCA585
 1429 KDC288, KDA381
 1430 KDA383, KBZ283
 1438 41.27 Fr, 1510 41.25/.23 Fr
 1525 37.54 US ne; 1538 41.5 BBC
 1745 35.26 Seattle; 1830 40.62 Pac.?
 1840 KUA288 35.22 Portland, OR-tp
 1955 KOK418; 2000 35.26 Portland
 2256 KCB999 33.78 Burlington, VT-f
 2259 KCA695 " Manchester, NH-f
 2300 KCD511, 2303 KCR901
 2305 KCA633
 2-10: 1358 KCH677
 KCB404 33.70 Ashburnham, MA-f
 KCG342 " Barre, " "
 KCB778 " Berlin, " "
 KBA887 " Bolton, " "
 KCF337
 KCA395 " Gardner, " "
 KCD582, KCC705
 KCB364 33.70 Hubbardstown, MA-f
 1359 KCD353, KCB360, KDN599
 KCN575 33.70 E. Princeton, MA-f
 KCH585, KCD454, KCD246
 1400 KCF264, KCD271, KCE288, KCF358
 KCD492, KCD497, KCD498, KCD500
 1402 KCD556, KCF574, KCD594, KCD760
 KCB781, KCD845, KCD574
 1403 KCD244, 1408 KCB526
 1417 KCE553 33.70 Townsend, MA-f
 1425 KCC825; 1429 41.23 France
 1429 KCI299; 1437 41.25/.27 "
 1455 45.13 Spanish; 1500 41.5 BBC
 1502 KGC755 33.90 Lancaster, PA- cf
 1540 KCD626, 1808 KEA860
 1809 KUA288
 1850 35.46 Oakland, CA-mp
 1855 40.62 Pacific?
 2235 KCF310, 2241 KCL540
 2300 KCE579 33.78 Keene, NH-f
 2302 KCF314 33.66 Tyngsborough, MA-f
 2305 KCB404 33.82
 2308 KCE358 33.54 Shelburne, MA-cf
 2-11: 1403 KCD244, KCD246, KCF264, KCD271
 KCE288, KCF358, KCD492, KCD497
 KCD498
 1404 KCD500, KCD556, KCF574, KCD594

APRIL 1980

2-11: 1404 KCD760, KCB781, KCD845
 1405 KCD574, KCD454
 1413 KCB360, KCH677
 1417 KCB844 33.70 Greenfield, MA-f
 1455 KCA305, 1456 KCC405
 1620 41.5 BBC, 1628 39.64 Spanish
 1635 41.25 France
 1651 KCA346, 1659 KDA381
 1659 KBH354 33.70 Rockville Center, NY-f
 1701 KCA585
 1704 KCD346 33.90 Tolland, CT-f
 1759 KDC288, 1800 KCA695
 1812 KOP303 35.46; 1822 35.26 Port.
 1947 KOK418; 1959 35.26 Seattle
 2000 KBZ283, 2043 KCD511
 2100 40.62 Pacific?
 2235 35.46 L.A., CA-mp*
 2-12: 0128 35.38 Imperial, CA-mp*
 0129 35.38 L.A., CA-mp*
 0655 KIY508 35.22 Orlando, FL-tp*
 1430 KCA305; 1445 41.25 France
 1450 41.5 BBC, 1454 KCC405
 1512 KCA346; 1525 46.12 se
 1640 35.58 Scranton, PA-vp
 1650 KUA288; 1652 40.08 Can. (Fr)
 1706 KOB238, 1721 KOK418
 1745 35.26 Portland
 1757 35.26 Seattle; 2031 KBZ283
 2-13: 0403 35.46 L.A.*, 0431 KOE257*
 1400 KBA887, KCA395
 1401 KCC705, KCB364
 KAX916 33.70 Lunenburg, MA-f
 KDN599, KCN575, KCH585
 1402 KCE581 33.70 Athol, MA-f
 1406 KCH677; 1427 37.02 Russian
 1427 41.27 France; 1435 41.5 BBC
 1435 41.23 " ; 1456 KCC405
 1600 45.1 Spanish; 1645 KCA346
 1729 35.26 Eugene
 1731 KOP303 35.46; 1823 KCA305
 1846 KOB238; 1910 35.26 Portland
 1915 35.46 L.A.*, 1916 35.38 L.A.*
 1921 KUA288, 1926 KOK418
 2110 40.62 Pacific?
 2142 35.26 Seattle; 2300 KCD511
 2334 KFN511 33.70 Owls Head, ME-vf
 KDX459 33.90 Mars Hill, "-f
 2340 KCD556 33.66
 2345 KCE563 33.54 Orange, MA-f
 2348 KDB386
 2-14: 0106 35.42 Cincinnati, OH-mp*
 1410 43.7 se; 1550 35's US ne
 1626 KCH239
 1751 KCG651 33.70 Derby, CT-f
 1804 KCE681
 1935 KCD473 33.70 Wolcott, CT-f
 1945 KOP303 35.46; 1949 KBZ283
 1953 KOK418; 1955 35.26 Seattle
 1959 KDA383, KDA381, KDC288
 2001 35.26 Portland

VHF UTILITY DX

(Dyer, cont.)
 14:03 123 KJA288, 2124 KLF527
 15:03 1401 KCD497, KCD498, KCD500
 1402 KCF574, KCD594, KCD760
 KCB781, KCD845
 1538 KCA346, 1541 KCC405
 1550 41.23 France
 1828 35.26 Portland
 1913 KDK418, 1916 KOB238
 2025 35.26 New Zealand TV video
 2030 KDP303 35.46; 2125 KLF527
 2310 KDX459, 2314 KCD346
 2315 EG711 33.54 Hamden, CT-f
 ED598 " Athol, MA- "
 2317 EB479 33.90 Kingston, ""
 2318 EG249 33.70 Southbury, CT-vf
 2324 CB979 33.90 Norwich, "-f
 2329 CE570 33.54 Turners, MA-fdi
 EB669 33.70 NewMilford, CT-f
 EG342
 EI233 33.66 Watertown, CT-f
 BZ283; KCD556 33.66
 EB563
 ED336 33.70 Lincolnville, ME-vf
 DB386, 2347 KCH239
 EF264 33.66
 16:00 (major magnetic storm)
 5:26 Centralia, WA-mp
 5:26 Seattle
 9:26 Bellingham, WA-mp
 0-32 US ne
 15:26 Portland
 15:25 New Zealand video
 17:00 KCD582; 1401 KCC705, KCD353
 1401 KCB360, KAX916, KDN599, KCN575
 KCH585, KCE537
 1402 KCH239, KAV492
 1405 KCD454, KCD246, KCH264, KCD271
 1406 KCD492, KCD497, KCD498, KCD500
 KCD556, KCF574, KCD594, KCD760
 KCB781, KCD845
 KCD574
 1717 KUA300 35.22 Goleta, CA-tp
 1840 KCA346, 1909 KCA305
 2100 35.25 New Zealand video
 2-18: 1452 KCB781, 1528 43.7 se
 1653 KCC957 33.70 Bethel, CT-f
 1655 KCB526; 1700 KCA695, KDA381
 1705 KCG651, 1712 KCH954
 1713 KCG249, KCA585; 1714 KDA383
 1715 KDB386; 1717 35.26 Seattle
 1725 35.26 Portland; 1942 KOK418
 1946 KOP303 35.46
 1954 KCF944 33.54 Brattleboro, VT-f
 2135-4230 45.25 videos
 2248 KCG933 33.90 Norwell, MA-f
 2249 KCA974 " Plympton, " "
 2250 KCD306, 2252 KCF582
 2254 KCB951 33.70 Wells Beach, ME-f
 2255 KQY588 33.84 Cohoes, NY-fdi

APRIL 1980

2-18: 2255 KCE869 33.70 Prospect, CT-vf
 2257 KCY582 33.54 Franklin, MA-f
 2258 KCD658 33.70 Westminster, ""
 2258 KCD353, KCF311; 2300 KBZ283
 2301 KCC825, 2303 KCE579
 2305 KCB404 33.82; 2314 KDC288
 2314 KCD471 33.70 Wells, ME-f
 2332 HLQA ? 33.45 Korea?-cw
 2345 35.26 Bellingham
 2359 XSG/3/7/8 34.20 China-hac
 2-19: 0225 KFL943 35.58 LasVegas, NV-tp*
 0236 35.46 L.A.*
 1402 KCF264; 1405 KCD500, KCD556
 1405 KCD760, KCB781, KCD845, KCD574
 1405 KCD454; 1429 KDA383
 1445 43.7 se; 1500 44.62 ?
 1510 KCC405, KCA305; 1511 KCD471
 1610 KCA346; 1705 KOP303 35.46
 1715 41.5 BBC; 1730 KUA288
 1732 KOB238, 1750 KFN501
 1758 39.82 US?
 1801 KCA986 37.10 Clinton, MA-p
 1831 35.26 Portland; 1834 KOK418
 1836 KCF313, 1852 KCB979
 1857 KCI299, 1858 KEA860
 1900 KBZ283, KCC284
 1905 KJP390 33.70 WestPoint, PA-f
 1909 KCC285; 2050 45.25 N.Z. video
 2213 45.25 Spanish; 2245 KCF582
 2247 KCB280 33.98 Waterbury, CT-f
 2256 KCH585, 2257 KCY582
 2258 KCD658, 2259 KCB778
 2300 KCN857 33.78 Winchendon, MA-f
 KCC957
 KLI380 33.90 CenterSandwich, NH-f
 2303 KCD336; 2305 KCB404 33.82
 2306 KCB844, KCF337, KCE570
 2308 KCE526 33.70 Bethlehem, CT-vf
 2308 KCB364, 2313 KDA381
 2313 KCN366 33.54 Sunderland, MA-f
 2314 KCH794; 2315 KCG711, KCD473
 2319 KDC288, 2322 XSG/4/7
 2324 KCN575, 2327 KCH239
 2329 KDA383, KCA695; 2330 KCG342
 2330 KBI789 33.90 Mapleton, ME-f
 2332 KCA288; 2348 35.96 Russian
 2-20: 0010 35.44 China (Taiwan?)-ha
 0038 XSG/3/7/8
 1429 KDA383, 1641 KCD454
 1715 KCE869
 1722 KCE721 33.70 Litchfield, CT-f
 1727 KCB979, 1729 KCC825
 1738 35.26 Portland; 1741 KCA305
 1746 KCC405; KOP303 35.46
 1748 KLD863 33.70 Rockland, ME-f
 1751 35.26 Eugene
 2040 45.25 N.Z. video
 2254 35.26 Seattle; 2259 KCA288
 2300 KCD511, 2301 KCE681
 2315 XSG/4/7; 2335 38.44 Alberta?
 2355 35.96 Russian?

VHF UTILITY DX

(Dyer, cont.)
 2-20: (addendum)
 2115 46.25 Australian TV video
 2-21:
 1602 KCD658, 1603 KDA381
 1604 KCD598, 1605 KCN366
 1614 KCN575, 1618 KCB526
 1622 41.5 Spanish
 1640 KDD223 33.82 E. Brunswick, NJ-f
 1643 KDA383, 1659 KBZ283
 1700 KCA695, 1704 KCB479
 1717 35.26 Seattle
 1723 KOP303 35.46; KCA585 33.90
 1730 35.26 Portland; 1735 KCC705
 1747 KCA305, 1750 KOB238
 1752 KOK418
 1835 35.26 Glide, OR-mp
 2300 45.25 N.Z. video; 2310 XSG/4/7
 2325 35.96 Russian?
 2-22:
 1506 KCD511, 1511 KCD471
 1524 KCB681, 1540 KCF264 33.66
 1554 KLD863
 1556 KCF315 33.66 Westford, MA-f
 1559 KCE579 33.54; KBZ283, KDA381
 1605 KDE245 33.54 Millis, MA-f
 1608 KCA974; 1615 35.26 Seattle
 1620 KCB979, 1629 KDC288
 1643 KAV492, 1644 KDA383
 1705 KCE721; 1710 KOP303 35.46
 1715 KDB386, 1720 KCC705
 1900 41.5 Sp.; 1925 37.54 US ne
 1937 KOB238; 2115 40.62 Pacific?
 2309 KCE358, 2314 KCH794
 2315 KCD473
 2316 KDU446 33.70 Gaylordsville, CT-f
 2318 KCG249, 2319 KCD500
 2320 KCD598, 2321 KDX459
 2330 KCE570, KCI233; 2331 KCB669
 2338 KCH239 MA-fdi
 2340 KCE562 33.54 Montague Center,
 2341 KDG722 33.66 Littleton, MA-f
 2-23:
 1920 KOP303 35.46; 1925 35.26 Seat.
 2055 37's US ne; 38.5 Spanish
 2059 KCA695
 KGC522 33.78 Georgetown, DE-sf
 2259 KCB778, KCD760, KCN857
 2300 KDA383, KCD473
 KBF372 33.54 Hadley, MA-f
 2301 KGR901, KOB238
 KCK402 33.78 Beach Haven, NJ-f
 KCG249; Scranton
 2312 KCI299, KEA860; 2328 KCG651
 2329 KCE570; 2330 KCN366, KCN689
 2340 KCF337
 2343 KEM642 33.78 Jackson, NJ-vf
 2345 KDB386, 2346 KCE721
 2346 KEG776 33.82 Edison, NJ-f
 2350 KUA288; 35.26 Eugene
 2354 KVI522 33.82 Piscataway, NJ-f
 2356 KCF596 33.86 Brookfield, CT-cf
 2359 KED944 33.86 E. Paterson, NJ-f
 2-24:
 0002 KCF562 33.70 Roxbury, CT-f

APRIL 1980

2-24:
 0002 KCF314, 0003 KDC288
 0005 KCF313
 1355 KBA887, KCD582, KCC705, KCD353
 KCB360, KDN599, KCH585
 1356 KCH239, 1359 KCG711
 1400 KCD454, KCD244, KCD246, KCF264
 KCD271, KCE288, KCF358
 1401 KCD492, KCD497, KCD498, KCD500
 KCD556, KCF574, KCD594
 KCD697 33.70 Provincetown, MA-f
 KCD760, KCB781
 1402 KCD845, KCD574
 1405 KCA585; 1450 41.25 France
 1505 KCG651, 1554 KCF779
 1559 KCF398 33.70 Cornwall, CT-f
 1720 41.5 BBC, 1805 41.5 se
 1809 KCA346, 1812 KOB238
 1828 KEX905 37.58 Roseburg, OR-p&l
 1935 KOP303 35.46; 2005 35.26 Port.
 2035 45.25 N.Z. video; 2117 KOB894
 2-25:
 1402 KCF264, KCD492, KCD500, KCD556
 1403 KCD760, KCB781, KCD574, KCD454
 1403 KCD845; 1414 KCD244
 1419 KCB404, KCG342, KCB778, KBA887
 KCF337
 KCH246 33.70 Clinton, MA-f
 1419 KCD582; 1420 KCC705, KCB364
 1420 KCD353, KCB360, KDN599, KCN575
 KCH585, KCE537, KCH239
 1421 KAX916, 1441 KCD574
 1515 KCA305; 1525 37.16 Russian
 1538 KCC405, 1554 KEA860
 1715 KCA346; 1735 KOP303 35.46
 1758 35.26 Seat.; 1803 KUA288, KOK418
 1814 35.26 Bend; 2100 45.25 N.Z. vid.
 2245 KLF527, 2317 35.66 NY
 2340 KOB238, 2356 KFN501
 2356 43.08 Alberta; (mobiles)
 2-26:
 0013 45.25 Spanish *?
 0059 XSG/3/7/8
 1421 KCB281 33.90 Bridgewater, MA-f
 1432 KDA381; 1452 KCC405, KCA305
 1456 KCA346; 1547 Scranton
 1555 43.7 se; 1704 KCD626
 1720 40.12 Can(Fr); 1735 44.71?
 1856 KOB238
 2-27:
 0000 KCF562, 0002 KDC288
 0002 KRZ280 33.90 Glens Falls, NY-cf
 0003 KCK671 " Lake George, " "
 0030 35.26 Port., 35.26 Seattle
 0036 KOK418; 0059 KOP303 35.46
 0105 45.24 N.Z. video
 0110 XSG/3/7/8
 1533 KCI299, KEA860; 1540 47's Sp.
 1724 KCC405, 1725 KCA305
 1809 KOB238; 1813 KOP303 35.46
 1814 35.26 Port.; 35.26 Seattle
 1858 KCA346; 2300 45.25 N.Z. vid.
 2-28:
 0103 KUA288
 1401 KCA346

UTILITY DX

(Dyer, cont.)
 28:
 003 KCD244, KCD246, KCF264, KCD271
 KCE288, KCF358, KCD492, KCD497
 1404 KCD498, KCD500, KCC825, KCF574
 KCF594, KCD760, KCB781, KCD845
 KCD574, KCD454, KCD556
 1407 KEA860, 1409 KCA305
 1413 KCB404, KCB778, KBA887, KCF337
 KCC705, KCB364, KCD353, KCB360
 KRJ877 33.70 Templeton, MA-f
 KCH239, KCD658, KAV492
 1415 KCH677
 1420 41.25 France, 41.5 BBC
 1450 39's US ne; 1455 45 beat
 1510 low-40 Can(Fr); 1550 47's Sp.
 1640 Scranton; 1750 35.26 Portland
 1802 35.26 Seattle; 1803 KOP303 .46
 1817 KOK418; 2108 45.25 N.Z. video
 2130 KUA288
 2144 KCC482 35.22 Concord, NH-vp
 2151 KLF527; 2353 KOP303 35.62
 2-29:
 0035 KBZ283, 1346 KCB979
 0037 KCI299, 1417 KCA346
 0037 KCC405, 1438 KCC482
 0038 KCA305; 1450 41.25/.27 France
 0038 KCD626; 1600 42.98 Canada?
 0040 KLO485 39.98 Alfred, ME-cg
 0040 41.42 Canada; 1955 46.46 Sp.
 0040 45.24 N.Z. video
 0043 KOP303 35.46; 0047 38.78 Rus.
 0049 KCA346; 1515 41.23/.25/.27 Fr
 0049 KCA305; 1530 43.7 se
 0050 Scranton; 36.54 Russian
 0050 41.5 BBC, 1905 KOB238
 0050 40.62 Pacific?
 0050
 0050 40.04 Russian
 0055 KCB778, KBA887, KCF337, KCA395
 KCD582, KCC705, KCB364, KCD353
 KCB360, KDN599, KCN575, KCH585
 0056 KCE537, KRJ887, KCH239, KCD658
 0056 KAV492; 1357 KCH677, KAX916
 1401 KCD246, KCF264, KCD271, KCE288
 KCF319 33.70 W. Barnstable, MA-
 KCF358 rdi
 1402 KCD492, KCD497, KCD500, KCD556
 KCF574, KCD594
 1403 KCD760, KCB781, KCD845, KCD574
 KCD454
 1412 41.5 BBC; 1420 41.25/223 Fr
 1505 38.74 Russian
 KCE515 35.58 Albany, NY-tp
 1610 46.8 se
 1708 KEA323 37.18 New City, NY-p
 1816 KEA860; 40.62 Pacific?
 1828 KLF527
 1830
 1830 38.47 Russian
 1830 41.5 BBC; 1403 KCD760, KCB781
 1830 KCD845, KCD454
 1830 41.25/.23 France; 1424 KCC405

APRIL 1980

3-3:
 1428 KCA305, 1457 KCA346
 1543 36.94 Russian; 1645 low-40 Can
 1710 45.13 se; 1747 Scranton
 1830 KOK418; 1833 KOP303 35.46
 1834 35.26 Port.; 2055 KOB238
 2132 45.24 N.Z. video
 3-4:
 0005 35.26 Seattle
 1330 41.5 BBC, 41.25 France
 1340 37.35 se; 1354 KCC405
 1410 38.74 Rus.; 1413 40.16 Can(Fr)
 1420 39's US ne
 1425 45 BBC videos (last on 16 Jan)
 2055 40.62 Pacific?; 2122 KOB238
 2-5:
 0008 35.26 Port.; 0026 40.04 Rus.
 0040 40.15 Rus?
 1313 KCB526; 1318 KCF574
 1330 KCD582, 1356 KCI299
 1400 41.23 Fr, 1415 41.27 Fr
 1416 KCA305; 1438 43.7 se
 1505 41.25 Fr; 1528 KCC405
 1543 41.52 Canada; 1642 KCA346
 1647 35.26 Seattle; 1652 KOK418
 1700 35.66 NY, 1852 KOB238
 2210 45.24 N.Z. video
 3-6:
 0010 40.04 Russian; 0034 KLF527

 49-50 MHz, Swan 250 with Ameco nuv-
 estor preamp, 5-e Cushcraft horiz.
 Yagi @23' with rotor
 2-15:
 1647-1745 HCLJX Pifo, Ecuador
 (beacon 50.036 & operator)
 bs to: TX, NM, MO, LA, AR
 1950 KH6IAA Hilo, HI
 2-16:
 1537-1630 49.65/49.7 se
 1710 bs sw to CA to 1855
 1745 KH6IAA to 1845
 1805 bs to TX, OK
 2-17:
 1529 HCLJX (beacon)
 1530 HCLBI Quito, Ecuador
 1550 bs to W5
 1555 50.075 Colombia; 1600 50.374?
 2-19:
 2100-05 50.750 N.Z. TV audio
 2-20:
 1815-1915 bs CA, MO, FL, AR, OK, AZ
 1919-1955 HCLJX (beacon & operator)
 2-29:
 2035-2155 50.74/.75/.76 N.Z. aud.
 2104 ZLLAUM 50.11 Auckland, NZ

 late dx: 6 Mar Minn heard ZLL 50-51
 9 Mar 0005z H44PT (Solomons) got
 FY7THF beacon & later Tahiti bcn

73, Pat WA5IYX

TECHNICAL TOPICS



Q: "When you have co-channel interference on TV, what exactly is it that causes the horizontal lines in the video?"

A: Conventional television broadcasting uses amplitude modulation (AM) for the video signals. With AM, two or more signals close in frequency being received mix together and produce what's called a heterodyne beat. You can hear this beat in the form of a whistle on a simple AM table radio, but with video co-channel interference (CCI), you're actually seeing this beat in the form of bars on the screen. As long as the stations interfering with each other are using the same horizontal and vertical sync standards, the lines or "beat bars" (or "venetian blinds") will appear horizontally on your screen. When receiving foreign video signals from a country that uses different electronic standards, the CCI will appear to be slanted diagonally across the screen. In North America, the most common types of CCI resembles one of these illustrations:



0 offset



10 kHz



20 kHz

TV DXers make great use of this visible interference to help identify DX stations, when the video carrier offset frequency of a known station is used as a reference. WTPDA's publication Beyond Shortwave can show you how to do this.

Q: "During an E-skip opening, I once had the color from a DX station's signal coming in 'superimposed' over the video from the local station on the same channel. As I recall, the local station was showing a movie in black-and-white. How does this happen?"

A: This phenomenon is caused by the fact that your color set was receiving the color video subcarrier of the DX station, while the local station was transmitting only a monochrome (ie: black-and-white) signal, with no color subcarrier. The color information of the DX signal made it into your TV's bandpass amplifiers (sometimes called "color IFs"), and locked onto the top of the local station's black-and-white signal, much in the same way that it would happen if your local had been transmitting a color picture. This has the weird effect of showing up as little "blobs" of color in recognizable floating shapes moving across the black-and-white picture. All it takes is the right conditions, plus the proper amount of signal strength ratio between the two stations. With almost all programming in color these days, it has become something of a rarity to see it happen, because it requires that the local station be running a black-and-white signal.

Q: "Can 10 kHz CCI sometimes look like 20 kHz CCI?"

A: Yes, and some TV DXers may have trouble telling them apart in a heavy and "deep" type of DX opening, where there quite often will be more than one set of CCI on a video signal. If you're using CCI to help identify a station, be careful not to mistake offsets by "misreading" the CCI. With E-skip openings, you may notice that many Latin American stations run slightly off frequency--reports of 5 or even 15 kHz CCI are not uncommon among TV DXers observing Es signals from Mexico.

WORLD RADIO AND TV HANDBOOK 1980

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FROM DON ERICKSON

WRTH 1980 is available for immediate shipment at \$15 postpaid U.S./Canada. Add \$1 for First Class. A varying supply of 1977, 1978 and 1979 WRTHs is available, same price. Any 2 diff., \$28; any 3, \$39; all 4, \$48. Communications World 1979 and 1980 and several other current and out-of-print items by Davis Pub., Communications Handbook 1978 (Ziff-Davis), and other radio & computer mags & books are available near wholesale cost as a non-profit service to fellow club members. A complete list is available for a \$ASE. WRTH orders should be accompanied by check or money order (IMO only in Canada) payable to Donald Erickson, 6059 Essex St., Riverside, CA 92504. Tel-697-5910 7PM - midnight & weekends.

SLIDX

The St. Louis Internationale DX'ers (SLIDX) has been formed. Meetings are held on the 3rd Sunday of each month.

The St. Louis Internationale DX'ers is a regional & international shortwave/DX club, designed primarily to serve DX'ers and shortwave listeners in the Greater St. Louis area as well as the states of Missouri and Illinois. Regular membership is open to any person who is domiciled in the aforementioned areas. However we are International in scope! We welcome Associate Members from anywhere else in the world!!

SLIDX will publish a monthly bulletin "THE GRIDLEY WAVE" which is included in the membership dues. We will devote the majority of each issue to articles of both a technical and informative nature. Also, we will feature some loggings and columns pertaining to Shortwave Radio. As a bonus we will serve the mediumwave listeners with a BCB column to be edited by the well known MW DX'er Richard T. Eddie. THERE WILL ALSO BE A FEW SURPRISES!

All members will be notified well in advance of each meeting through the bulletin as to the meeting locations. Further, we will feature picnic outings twice per year. These will be held in the Spring and Fall.

Membership dues in SLIDX are \$5.00 per year for persons in North America, and \$8.00 (U.S.) per year for those outside North America.

For further information please contact SLIDX HQ at:

TERRY A KLAISEK / 9720 VICKIE PLACE / ST. LOUIS, MISSOURI 63136 / U.S.A.

STATION BREAK

WTPDA member ads only. 3 line or 30 word limit.

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