

### From The Staff:

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

CONVENTION '79...In the center of this month's issue, you'll find the 1979 WTFDA Convention Registration Form. Make your plans now for our convention in Baltimore on August 3rd, 4th, and 5th. We hope to see you there!

F2 REACHES A2...Here's a bit of late-breaking DX news. Via the 28.885 MHz VHF Information amateur radio net, we have learned that VHF UTILITY DX editor Pat Dyer (WA51YX) has just seen F2 skip on U.S. ch 2. For about 40 minutes on April 17, Pat saw signals of South American origin--possibly from Venezuela--with the usual characteristics of F2. The F2 MUF may have peaked at around 58 MHz that day. Pat reports video signals only; the MUF would have to rise solidly to 60 MHz to allow audio on ch 2. This is the first report we have of a North American DXer catching F2 skip on ch 2 during the present sunspot cycle. Nice going, Fat!

CORRECTION...In the March issue, we mention that amateur operators on the West Coast of the U.S. have been hearing signs of audio and video signals from Australia, New Zealand, Japan, and Korea. That's not quite correct; Japanese ch 1 is above 90 MHz, so while the signals may have been of Asian origination, they definitely were not Japanese. Some of the signals have turned out to be from Soviet sources, probably from Vladivostok (video buzz near 49.75 MHz), and some may have been Korean. Thanks to our Japanese members for pointing this out!

ANOTHER POOR E-SKIP SEASON?...There are some theories that we may be in for another slow Es season. Some DXers believe that the high solar activity will be responsible for many disturbances that will hinder development of intense Es. Let's hope they prove to be wrong. As of this writing, much auroral activity has taken place in the late March through early April.

FEATURE AND TECHNICAL ARTICLES...Here's a reminder that we're always looking for features and technical articles from DXers willing to write them. Got an idea? Don't keep it to yourself! Write us for info on how to prepare an article.

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Deadline: 10th

Yew Members: Earl Albin John Buehler Johnny Davis Stephen Hullcranz A.H. Wiese Robin Williams

4814 Granada Drive 1716 Heatherdowns Blvd. 83 Westello 303 Devonshire Road Erminoldstr. 175 "Corn Acres", Dodwell

Valley Station, KY 40272 Toledo, OH 43614 Pocatello, ID 83201 Washington, IL 61571 D-8 Munich 83, WEST GERMANY Stratford-upon-Avon, Warwickshire, ENGLAND CV37 9ST Chagrin Falls, OH 44022

James Yates

8615 Tanglewood Trail

Renewals:

Renewals:
Jim Alexander, Robert Baker, Fred Born, Jr., Lynn Burke, John Czarnomski,
Clinton Day, Richard Eddie, Eric Fader, William Feidt, Robert Goodman, Roger
Cravelle, Michel Guzzi, Harry Hayes, Robert Heckenlively, Hank Holbrook, Guy
Kroger, Ron LeBlanc, George McKay, William Ronecker, Bob Seybold, Craig
Simons, Lee Vulgamott, William Welch, Robert Williams, Jim and Karen Young.

Renewals Due in June:

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Al Albrecht, Richard Allen, Arthur Amorin, Roy Barstow, John Basehore, Jim Brann, Walt Breville, John Combs, Tim Cronin, Robert Dally, Jr., Gordon Draeseke, Jack Faulkner, Karl Forth, Lawrence Glass, Bill Heusmann, Jim Hopkins, George Jensen, Leonard Jozwiak, Michael Lapinski, Lorne Larson, Rolland Lindblade, Eldon S. Luoma, Andrew Mahoney, David McBride, Carl McCallum, Fred McCormack, Terry Morris, Gordon Nelson, David Olday, John Phillips, John Pilger, R. Randall, Ron Schatz, Kevin Slater, William Smith, Scott Spalding, Steven Sprachman, Tex Stout, Ralph Strobel, Martin Theil, Alphonse Tobia, Mel Wilson, John Winslow, Charles Zipser.

New member EARL ALBIN is an electrician who's into FM and TV DX. He uses a Heathkit AR1515 stereo receiver and a Heathkit GR2001 TV. Earl learned of

the club in Bruce Elving's FM Atlas.
From potato country comes JOHNNY DAVIS. He's a TV DXer employed as an electronic technician. Popular Electronics pointed him toward WTFDA.

Tidbits....

This section begins on a sad note this month. Fred Nordquist passes word that member Allen Rockford died March 29th after a long illness. He was 35 years old. Allen was an announcer and newscaster for WONO Syracuse NY until 1976, where he handled the station's classical music programming in the morning. He was an authority on old time radio shows, and for many years operated Double-R Radio, a business specializing in tapes and recordings of old time radio shows. All of us at HQ are saddened by his death, and we

extend condolences to the family.

We have some interesting comments from new member A.H. WIESE (address above): "I'm a little bit disappointed about the VHF-UHF Digest because in the (sample) issue you sent me I haven't found any news or articles other than things concerning North American DXers. But you are qualifying your than things concerning North American DXers. But you are qualifying your association as 'worldwide'. Nevertheless, I'm joining your association and I'm hoping your bulletin will spend more space for the worldwide aspect of our hobby. Perhaps I'll be able to send you some news here from Europe."
We love having news on TV-FM DX outside North America! Let's hear from our foreign members this month. Send your reports to International Notes editor Ken Simon, 513 6th Ave. S., Lake Worth, FL 33460.

Member Rick Samford (404 S. McNeill, Burnet, TX 78611) is looking for the following back issues of the VUD: all of 1970, 1971, 1972, 1/73 to 4/73, 6/73 to 11/73, 8/74, 1/76, 5/76, and 7/76 to 12/76. If you have any of these issues and would care to part with them. contact Pick.

issues and would care to part with them, contact Pick.

Tanio Sugihara (1107-1 Enya-cho, Izumo-shi, Shimane, 693 Japan) has heard great reports of F2 skip in his part of the world. He says Japanese hams on the 6 meter band have worked such countries as Thailand, New Caledonia, Brazil, Argentina, Canada and the United States. Hope some of our members in Japan and on the west coast took advantage of the skip to log some Asian and Australian TV audio.

Interested in TV reception in the 1930's? There's a new book out called

Television in the Thirties, which features a description of television reception in the United States during the 1930's, with personal accounts by author Raymond Bell. For more info, write University Microfilms International, Box 1346, Ann Arbor, MI 48106. See y'all next month.....73......jz

# IS YOUR SYSTEM DX-READY?

The Es season is here, and FM, TV, and PSB DX is an everyday possibility. Even if DX conditions are super, the amount of DX that you can catch is directly related to the condition of your DX system. Whether you notice or not, your DX set-up gradually changes—usually very slowly—for the worst.

Everything wears with age, even electronic equipment. Most often, we can't really tell what's happening to it—it's a very subtle process. In fact, unless you have just upgraded your gear or put together a new DX set—up, the DX system you used last season has lost a bit of gain, due to a variety of factors. Fortunately, most of today's receivers are transistorized, and don't go "out of spec" very soon. The big advantage of transistor gear is the very high degree of reliability that we have come to take for granted from solid-state components. Tuners and mast-mounted preamps that are transistorized are not inherently "fail-safe", but can be counted on to maintain optimum performance over much longer periods of time than was ever possible with tubes.

Many DXers still prefer to use tube-type and/or tube-plus-transistor (hybrid) equipment. There are some good reasons for this. Tubes can provide much greater overload protection than transistors, and can be easily operated in certain extreme environmental conditions, such as extreme heat. Also, tube-type equipment lends itself to modification far more easily than modular solid-state gear, as those of us who have been attempting to convert U.S. TV receivers to foreign TV standards have learned. While tubes do have their limited advantages, it should be remembered that they simply cannot provide the very low noise figures possible with the latest solid-state tuners and preamps.

Another insidious process that tends to downgrade our DX gear is mechanical wear, which comes in many forms, such as metal fatigue and strain. In FM receivers, dial cords often break, although some designs have eliminated this problem using gears. In TV receivers, the mechanical turret-type VHF tuner seems to be on the way out, being replaced by random-access keyboard tuning with digital readout (similar to programmable scanners), or pushbutton varactor tuning. Unfortunately, memory fine tuning seems to be on the way out—this is unfortunate for TV DXers.

Veteran DXers always make sure that their DX gear is in top shape; they are aware of the slow downgrading of performance that their systems are subject to. Here's what you can do to make sure your system is operating at peak DX capability:

TUNERS—Mechanical wear is a large problem. For TV tuners, the clder turrettypes need to be cleaned at least once a year, and frequently more often. Both "wafer" and "disk" type TV tuners suffer from an oxidation buildup that causes intermittent snow, especially on weak signals. Tuner cleaner can be obtained in most electronics outlets; it comes in spray cans and is very easy to use. In tube-type sets, the RF amplifier tube must be kept in top shape for peak DX results. The oscillator/mixer stage is also important. In a tube-type TV, there are usually only two tubes to worry about in the tuner—keep both of them in top condition, testing frequently (use a professional type tube test-er—capacitance type—not a drugstore model).

LEAD-IN-Your transmission line connects your DX antennas with the receivers. It's often the reason that signal levels have degraded. Although some DXers find it hard to accept, T-line, be it high quality coaxial cable or low-cost twin lead, wears out. Twin lead is often subject to mechanical wear when it's allowed to "flap" in the wind, and this holds true for coax sometimes, too. Care should be taken to see that the T-line hasn't cracked, or allowed to take in water. Many DXers have been shocked to see what they've been missing merely by replacing old lead-in!

These are really just two major areas to keep a close check on. You can avoid missing choice DX catches by anticipating the effects that age has on all parts of your DX system. Antenna oxidation is a very real problem—it can change the feedpoint impedance of your antenna. On FM receivers, dial cords should be checked frequently; and on older models, don't overlook regular tube maintenace. The DXer who's properly prepared is the one who "cleans up!" —bt



John F, Combs 2485 Ivan Ct. Orlando FL 32807 (305) 677-0066

May 1979

ONSTRUCTION FERMITS GRANTED TRANSLATOR CONSTRUCTION PERMITS (Selected)

Homewood 41, Ch. 21, 22, 673

Mountain View AB, Ch. 6-, 100, 1390 (ETV)

Salisbury MT, Ch. 47, 2570, 990

Cklahoma City CF, Ch. 34-, 1343, 1209

Amarillo TX, Ch. 14+, 113, 812

APFLICATIONS FOR NEW STATIONS

St. Petersburg FL, Ch. 38, 5000, 1121

Memphis TN, Ch. 30, 100, 570

TRANSLATOR APFLICATIONS (Selected)

Marshall MN, Ch. 30 (KSTP-5), 1000-w

Bowling Green OH, Ch. 27 (WBGU-57), 1000-w

Coos Bay, Coquille, and N. Bend OR:
 K17AA (KOAP-10), 1000-w
Lawton OK: K36AB (KETA-13), 1000-w
Lowry SD: K56AX (KFLO-6), 1000-w
CHANGES GRANTED IN OPERATING STATIONS
WESH-2 Daytona Beach FL to 1650 AAT (940)
WCET-48 Cincinnati OH to 2234, 1070, gets
own tower (formerly shared with WCPO-9)
CHANGE IN CALL LETTERS
KDLH-3 Duluth MN (ex-KDAL)

LO AND REMOIL! I was able to obtain a machine with smaller type this time. When one does not own a typewriter, he makes do with whatever he can lay his hands on each month! This may be the shortest column on record as my academic endeavors take much of my time. I haven't had a chance to compile any information sent to me, nor have I been able to scan the past month issues of Broadcasting. I can only hope that I will be able to do so next time!! 73, JOHN...

### STATION BREAK

WTFDA Headquarters Post Office Box 202 Whiting, IN 46394

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

WANTED - VUD Back Issues: June, Nov., Dec. '72; April, Sept., Oct. '73; Jan., Feb., Mar. '77. Please help complete my collection. Write stating price and condition. John Walters, R.D. 3 - Acorn Drive, Vincentown, NJ 08088.

WANTED - Heathkit AJ-15 and/or Sony ST-5130 tuner; good condition. Peter Sawatzky, R.R. #4, Guelph, Ontario, CANADA, N1H 6J1 or call (519)822-7496 (Best between 9 p.m. & 12 midnight).

Your non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK

# BOB COOPER HOSTING TV SERIES -BUT DON'T LOOK FOR IT ON YOUR LOCALS

One of the world's most avid and successful TV DXers is now an "international TV star"--sort of. CATJ magazine editor Bob Cooper hosts "Satellite Magazine", a special program aimed at CATV industry audiences at 1200 (Bastern time) on Thursdays, on transponder 24 of the SATCOM II satellite. The program is produced by CATJ in cooperation with the University of Oklahoma, and like CATJ, contains features that are often of interest to TV DXers. For example, one recent segment featured an interview with "notorious" TV bootlegger David Brough, Ontario pirate TV operator (April 1978 VUD, page 27). We also caught a view of some of Bob's DX gear on the show! The program is carried on the same transponder that feeds HBO (Home Box Office) STV service to CATV firms, so if you're an HBO subscriber, you may be able to catch it.



# **FM NEWS**

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

 New FM Stations Granted
 [Radio

 AZ Phoenix
 KIAI \*89.5 1500', 89 w, Public/

 AR Augusta
 97.7 3000 h,v; 300'

 CA Holtville (near El Centro) 100.1 3000 h,v;

260', gospet music CO Denver \*89.3 58500; 910'; "Granfallon" 92.7 790 h,v, ID Grangeville 67': rock 680 h,v; -750'; m ID Orofino 95.3 IA Des Moines \*89.3 10 "Black Theology IA Harlan 105.5 3000 h,v; 300'; m KS Arkansas City 106.5 100000: 380 300': rk KS Fort Scott 103.9 3000 h v: 3000 h,v; KS Wellington 93 5 165'; m MNInternational Falls 94.3 3000 h,v; 123'; rk NE Terrytown (near Scottsbluff) 103.9 3000;

108 feet above average terrain; gospel music.
NVLas Vegas \*91.5 15000 45' U of NV
ORBaker 95.3 3000 h.y. 200'; m
ORGold Hill 100.3 31000; 990'; rock
ORRiddle, "Tri Citries," and Canyonville K22OAB
\*91.9 \$, cr 10 watts, KSOR \*90.1 4 hiland

OR translator; ABC-FM (not P) affiliated. SC Orangeburg \*91.9 10 g; "Word of Faith" TNSignal Mountain \*91.5 200 h,v;950' Chatt. Tech. TX Refugio 106.3 3000 h,v; 300'

TX Terrell (not near Terrell Hills) 107.1 3000 horizontal and vertical; 300'; [k] ountry. AT Coutts and Milk River 90.9 720w--CBC, CBR 103.1 100000, m most likely NFSt. John's 105.9 45600 CBC-French PQ Magog 106.1 1600; rock 11000 PQ Trois Rivieres102.3 425 CBC-CBK relay SA Southend 917 On Air and DX Ready (presumed) CA Palm Springs KPSH"-FM" \*88.3 10 [1010] 959 CA Red Bluff KSNR 280 h.v:/ \*91.5 10 CASacramento KYDS FL La Belle WVHG 92.1 3000 h,v;300' LANew Orleans WBSN"-FM" 10; g -\*89.1 \*90.3 10 NYHoughton WJSL KEYE-FM 95.9 3000h,v; 300' TXPerryton

NonIDs or Slogans

FL Clearwater WQXM 97.9 98-Rock, not Rock-98

FL Miami WAIA 97.3 Stereo 97 and back to alternate use of their former nonID: A-1-A. FL Mount Dora-Orlando WORJ 107.7 Zeta-7 FL Naples-Fort Myers WBVU 94.5 Stereo 94 and Sea-View

and see view
HT Ittusville WRMF-FM 98.3 FM-98
FL Winter Haven WPCV 97.5 FM-97
FL Winter Haven WPCV 97.5 FM-97
MAHyannis WCOD 106.1 FM-106
OHToledo WIOT 104.7 FM-104
ON London CFPL-FM 95.9 FM-96, never
using legal call Exters1

ON London CBBL 100.5 CBC-Stereo, never using legal call letters.

#### On air in Stereo

DE Georgetown WSEA 93.5 FL Vero Beach WAVW GABrunswick WPIQ 105.5, rock [101-Q 101.5 r (was k); / KS Dodge City KTTL 93.9 KYBowling Green WLBJ-FM 96.7 rp (from kp); "Natural 97" and "FM 97." MDGrasonville WAQA 103.1 MI Frankfort WBNZ 99.3, m **OHXenia** WBZI 95.3, r, I-95 **ORAshland** KKIC 101.7, CBS KBOY-FM WYSS ORMedford 95.3 94.3, rock PA Saegertown TX FI Paso KLAD 95.5, rp ON London CIXX 106.9 r (not c & talk)

Mexico, Tijuana BCN XETRA-FM \*91.1, rock, "91-X-FM." NO STEREO, but previously listed as such: ON London CBCL 93.5, CBL (AM) Toronto relayer

Facilities' Changes

AL Mobile WABB-FM 97.5 840' (100000hv)
AKAdak AFR-FM 101.1 height estimated by our local reporter at 110' (and based on how far he says they get out); h only.
AKShemya AFR-FM 101.1 1300 h,v; est. height 200 feet above average terrain.

height 200 feet above average terrafin.
CA Fresno KVPR \*88.3 430′ (50000h, v)
CO Wray K237AK 95.3 changes from translating KXXX-FM 100.3 Colby KS to the translating of KFNF 101.1 Oberlin KS, S, k, and Associated Press Audio.

FL Palatka WIYD 99.9 950' (100000 h,v), k (from m); "Y-Country FM," and "Stereo 100," soon having Jacksonville coverage. FL Tallahassee WGLF 104.1 100000 h,v(440') KY Hopkinsville WKOA-FM 100.3 100000 h,v(440') h,v; 600 feet above average terrain. KYPaducah WPAD-FM 96.9 100000h,v; 330' LA Farmerville KWJM 92.7 290' (3000 h,v) MEPresque Isle WMEM \*105.1 98000h,(1080')

MI Grand RapidsWJFM 93.7 back up to their formerly authorized full power of 500000 h,v (vertical increases from 100 kw); 780', with coverages at 53 miles primary, 111

secondary. Transmitter used to be at Plainwell MI, but now believed to be closer to Grand Rapids.

MOEldon KLDN 92.7 790 h,v; 590' NMAlbuquerque KFMG 107.9 22500 h,v; 4130', maximum Class C at 92 km primary

4130', maximum and 175 km secondary.

NYHamitton WRCU \*90.1 1900 h,v; 150'
NYFoughkeepsieWVKR \*91.3 1000 h,v; 85'
NYSyracuse WMHR 102.9 20000h,v; 20'
NC Raleigh WCPE \*89,7 33300 (h); (255')
NDMinot KIZZ 93.7 90000 (h); (600')
PA Altoona WVAM-FM 100.1 3000 h,v; 17',
"Rock 100."

PA Bellwood WHGM 103.9 has v, says a local reporter, but not appearing as v on any published list

published list. WABellevuekZAM-FM 92.5 100000 h,v(1100') WABellingham KISM 92.9 50000 h,v (2440'); adds A (from ABC Contemporary [Y]). WAYakima KIT-FM 94.5 25000 h,v (910') WI Kenosha WGTD "91.1 50000 h,v; 135' WI Menomonie WMEG 92.1 1300 h,v; 430' PR Camuy WCHQ 102.9 50000 h,v; 58' MEXICO, Tijuana BCN XHRM 92.5 50000

h,v; 749'

Call Letters Assigned or Changed
ALEufaula 92.7 WLAZ (WULA-FM)
AL Halevville 92.7 WJBF-FM

AL Haleyville 92.7 WJBB-FM AKFairbanks 101.1 KAME AREI Dorado 99.3 KLBQ (KRIL) 103.1 KAYZ (KEZU)

103.1 KAYZ (KEZÜ)
ARJacksonville 100.3 KEZÜ (KGMR-FM)
ARLittle Rock 95.7 KSSN (KXXA)
ARPocahontas 103.9 KCYN (KPDC-FM)
CA Healdsburg 92.9 KRED (KJHP)
CA Oroville 97.7 KEWE (KFAM)
CA Red Bluff 102.3 KKRB [FM)
FL Fort Watton Beach 93.3 WFTW (WFTW-/
GAWrens 96.7 WRNZ ("Wrens"?)
IL Jaledo 102.3 WRMJ
IL Springfield \*89.9 WQNA
IA Fort Dodge\*91.1 KTPR

1A Mason City 98.3 KCMR LABaton Rouge \*89.3 WRKF MI Kalkaska 97.7 WKLT MI Whitehall 95.3 WTRW (from WLRQ), r,

strict non1D as "rock 95."

MS Cleveland 92.7 WQAZ (WDLT)

NE Blair 106.3 KBWH

NE Kearney 105.9 K.O.K.Y

NENorth Platte 94.9 KODY-FM NEOmaha 104.5 KESY-FM (KODO-FM) NHRochester 96.7 WWNH-FM NMLas Vegas 100.9 KLVF (KFUN-FM)

NYBuffalo 104.1 WWOR (WW0L-FM), k, but still non1Ding as "Country 104"?
NYOwego 101.7 WWNT (WEB0-FM)
NYBouthampton 95.3 WSBH (WWRJ) rm now.

OHConneaut 105.5 WGOJ (WFIZ) PA Williamsport \*88.1 WWAS

SC Columbia 104.7 WNOK"-FM" (WNOK-FM)
SC St. George 107.5 WQIZ-FM (WPWR)
SC Walterboro 100.9 WKYP (WALD-FM)
TN Lobelville 94.3 WPCT (WTHJ)
UTSalt Lake City 90.9 KRCL

ONSarnia 106.3 CBEC, apparently not CBEG, although Broadcastying Yearbook '79 says CBEG.

Formats/Networks

AKFort Greely AFR-FM 90.5 m (and Fort Greely's located about 125 mi SE of Fairbanks near Big Delta and Delta Junction AK)

AK Shemya AFR-FM 90.5 rk; S (AP Audio)

height estimated at 200°, monaural. CASan Diego KITT 105.3 rs (Disco.). Stereo? CASan Francisco KIOI 101.3 rm -was disco. CA Fresno KMJ-FM 97.9 r (from c) CO colorado Springs KILO 93.9 rp DC Washington WRQX 107.3 r (from rp) FL Green Cove Springs WKUE 92.7 rp, 92-K. FL Tallahassee WBGM 98.9 r (from m) GA Columbus WVQC 102.9 rm, V-103 -one reporter thinks they mayhave gone to vertical (as well as the usual horizontal) polarization because of improved reception of WVQC on his car radio, but this station has always been only h, and no word from FCC that v has even been applied for on their part!

GADouglas WDMG-FM 99.5 mono r simulcast of AM.
GA Valdosta WLGA 95.9 r-not m!

L Crest Hill WCCQ 98.3 m (from r); yet no \$?

IL Elmwood Park WXFM 105.9 still ciepmg.

IN Elkhart WXAX 104.7 gm

KS Hoisington KHOK 100.9 r, \$tereo.

KS Hutchinson KHUT 102.9 m

KS Lyons KLOQ 106.1 r, including translators.

KS Larned KANS-FM 96.7 k

KS Salina KYEZ 93.7 r (from m)

KYBrandenburg WMMG 93.5 r (not k), G-93

LANew Orleans WEZB 97.1 rs (from m)

MAFritchburg WFMP 104.5 monor (from k)

"M-104."
MI Detroit WTWR 92.3 r (from rm)
WJR-FM 96.3 no NBC any more
WBFG 98.7 no UPI Audio

MI Fremont WSHN-FM 100.1 r (from kg)
MI Lapper WTHM-FM 103.1 k (from rm)
MI Mount Clemens (not Mount Clemens as
spelled on my maps, FM Atlas '78) WLBS
102.7 rs (so-called "Disco.")
MI Port Huron WSAQ 107.1 km

MI Port Huron WSAQ 107.1 km
NH Nashua WOTW-FM 106.3 r (from k)
NYAttica WBTF 101.7 k and sports (not km)
NCCharlotte WROQ 95.1 r (from rp)
NCConcord WPEG 97.9 rs ("Disco 98"), Mutual

#### FCC-FM

NCHickory WXRC 95.7 r (from k), "X-Rock." NCNorth Wilkesboro WKBC-FM 97.3 r (was mr) NCStatesvilleW000 96.9 rp (was mr), Triple 0-97

WFMX 105.7 Mutual OHCleveland WDMT 107.9 rs, now "Disco 108" OH Cleveland Heights WLYT 92.3 rp (one of two stations this month going against the trend and drapping disco); "92-Rock." OHEaton WJAI 92.9 k (from m) OHHamilton WOKV 103.5 rs OHLandon WSYX 106.3 mg; still monophonic OHToledo WMHE 92.5 rs ORKlamath Falls KJSN 92.5 m (from r) PA Altoona WFBG-FM 98.1 mc PA Clearfield WCPA-FM 93.5 k (from m), C-93 PA Johnstown WJAC-FM 95.5 m (was mc), no M

WJN L-FM 96.5 r (was rm), "Music

96.5," stered now. PA Tamaqua WZTA 105.5 Mutual SC Anderson WAIM-FM 101.1 rp TN Red Bank WSIM 94.3 r (from rp); simulcast with AM WASeattle KIXI-FM 95.7 rm (from m)

WVMartinsburg WESM 97.5 r (from m) WYLaramie KIOZ 102.9 C (from M) AT Edmonton CJCA-FM 97.3 p (from k) AT Lethbridge CHEC-FM 100.9 rc (from mc); new owners pledge to change frequency and improve station's coverage

ONNorth Bay CKAT 93.7 k (from mk) ONToronto CHFI 98.1 rm (from mc) SCA (†67 kHz) Activity

FL Clearwater WOKF 95.7 PRN (Q) FL Orlando WD1Z 100.3 m (from g) FL St. Petersburg WQYK 99.5 no SCA WKES\*101,5 X (audible

telemetry or teleprinter)

GA Perry WPGA-FM 100.9 no SCA; telemetry/ IL De Kalb WNIU \*89.5 talking book and farm 1L Urbana WILL FM \*90.9 talking book, farm NYNew York WRFM 105.1 XG: Besides usual teleprinter noise has talking g 7:30 to 8:30 Sat. nights for Mormon Church; DXers should check other LDS-owned FM stations, like WCLR 101.5 Skokie IL to see if they too have occasional g or their SCA channels.

ORAshland KSOR \*90.1 to have talk (programs on nursing and telemetry); cr; cr also on KSOR translators.

TN Hendersonville WBY Q 92.1 occasional sports and special events (†S).

Abbreviations: c classical, e ethnic, g gospel, k (not C&W) country, m middle of the road (no rock--more like easy-listening music, which differs from the definition of m used by the radio industry), n news (all news), p progressive

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rock, r rock oldies, or rock hits, or rock sounds that never made a "hit list," or easy rock, or anything on that order (what the industry loosely calls "contemporary"), s soul , t all talk—talk other than all-news. Disco is rs or sr; "album-oriented rock" is a term that seems to be fading in usage in the industry, but it is generally abbreviated rp or pr. Networks: A American Broadcasting Company FM (frequency modulation) Network, B National Black Network, C Columbia Broadcasting System, CBC Canadian Broadcasting Corporation, E American Broadcasting Company Entertainment Network, 1 American Broadcasting Company Information Network, M Mutual Broadcasting System, N National Broadcasting Company, P National Public Radio, S Associated Press Audio, U United Press Audio, Y American Broadcasting Company Contemporary Network, Z Mutual Black Network. \$ is steree, \* is an educational station, and 1 stands for SCA, "subsidiary communications authorization," usually at 67 kHz removed from the center of an FM radio station carrier. PRN (Q) is Physicians Radio Network, exclusively an SCA creature.

### \*\*\*\*\*\*\* READERS' REPORTS

If you want to DX on a luxury ship forget it, says John Ebeling, who says "Below top deck in a ship-even in Miami where dock was close to many transmitters, band was dead! Didn't think FM would be affected so much in steel ship." Two Chicago-area DXers were nice enough to send the March 4, 1979 Chicago Tribune Magazine with several articles on Chicago FM and AM radio, including a dial excursion on what can be heard on area radio stations some of which, like 107.1 Lowell's WLCL probably take DX-type equipment to bring in in Chicago itself. One artic is headlined. "The Rise of FM has driven AM Radio Executives to Despair." I've been sharing the articles with a blind friend who travels to Chicago quite often and is interested in radio there.

Greg Monti thinks WQVE 93.5 Mechanicsburg PA is stereo, but until I hear for sure, it'll be listed as mono. He comments on WJFM going back to 500 kw (flip back a page under "facilities"): Wonder how come they didn't

lose their grandfather? Those crooks!

Randall Clark, who has been traveling in North Carolina, says WDAV Davidson is on 90,5 not 89,9, but WDA has a construction permit for 89.9, so on 89.9 it will stay as far as my records are concerned! He also sent a clippir.

that WXIL 95.1 Parkersburg WV is being sued for fallure to pay for metchandise.

Ken Simon sent an article on the derivation of early FM radio station call letters from p. 134 of the book, American Broadcasting, by Lawrence Lichty and Malachi T. Topping. This excerpt, however, I believe was lifted from Chris Sterling's article on the history of WTMJ-FM Milwaukee, p. 342, Journal of Broadcasting, fall, 1968, as the word ing is identical in both accounts. Another of my subscribers to the FM ATLAS puts out the Aircheck Factory News, published in the Chicago area, with news of announcers' fates and fortunes and some format data. From Japan we learn that there is no SCA there, with the Postal Ministry now studying how SCA might be implemented. The commercial stations there, more so than NHK, are interested.

Maine's Rod O'Connor supplied the Alaskan FM station updates, as well as drawings of the Shemya and Adak transmitting antennae, which confirm v at Shemya but h only at Adak (Adak's antenna looks like a single section

Collins 37-M antenna).

From Michigan, Philip Boersma says WKJR-FM Muskegon Heights gets a horrible "birdie" each time it turns on its SCA for transmitter readings (the only thing the SCA is used for). So he gave a copy of the article on SCA that was in the January Audio to WKJR-FM's chief engineer.

The interim operation of KEFM 96.1 Omaha is profitable. Some 80% of the profits are to be given to charity under the agreement, which keeps KEFM on the air (along with KOIL-AM) until permanent owners of the facilities are decided by the FCC. In Alaska, a new student-operated 3 kw \$ rock station may be started as an alternative to KUAC \*104.7 Fairbanks. From Ontario, Pete Sawatzky sends word from the University of Guelph that the students there may apply for a low-powered  ${\it Fm}$  station, on the order of CKWR 98.7 Kitchener and CKMS 94.5 Waterloo.

CONTRIBUTORS last month: Guy Allen, Houston TX; Randall B. Clark, Parkersburg WV; Bill Fait, Euclid OH; Ted Fleischaker,
Louisville KY; one of the owners of KRJB (FMI Monte Rio CA whose signature I cannot make out; Greg Leo, Lincolnshire IL; Fred
McCormack, Fargo ND; George J. Mileon, Lynn MA; David W. Misek, Xenia OH; Greg Monti, Bayville NY; Pete Nordgren, KBSB (FMI Bemidji
MN; R.J. O'Connor, South Portland ME; Steven Shaffer, Harmmond IN; Robert Steedman, Milwaukee WI; Bill Thompson, Buffalo NY; David
L. Walcutt, Houston TX; Warren B. Wilson, Valley Forge PA. THIS MONTH: Airchack Factory News, Franklin Park IL; Leo Boehl, Grand L. Walcutt, Houston TX; Warren R. Wilson, Valley Forge PA. THIS MONTH: Aircheck Factory News, Franklin Park LI; Lee Boehl, Grand Island NE; P. Beersma, Spring Lake MI; Clark, John F. Combs, Orlando FL, Mike Dorner, Jr., Metaitie LA; John Ebelling, Bloomington MN; Robert Fischer, Fairbanks AK; Larry Geller. Tokyo JAPAN; Morrie Goldman, Chicago IL, Dave Grim, Akron OH (who can pack more FM station news onto one postcard than you could believel); Dave Hascall, Fortville IN; Guy A. Kroger, Sioux City IA; J. M. Mangiacarne, Altoona PA, Mike Marzullo, Lynnwood Wai; Frank Merrill, Toldeo OH, Greg Mont, Payville IN; Guy Olson, Lake Forest IL; O'Connor', John Parillo, Girard OH; Jim Pizzi, Orcutt CA; John Robertson, Croswell MI; E. G. Saba, Great Falls VA; Edmund A. Schantz, Germantown MD; Scott Spalding, Ashland OR; Peter V, Taylor, San Francisco CA; Thompson; Charles H. Warriner, McCook NE; Larry Weil, Acton MA; John Zondlo, Hammond IN.

To the right: Rod O'Connor's drawing of the AFR-FM Shemya AK vertical and horizontal antennae:

The Canadian Radio-Television and Telecommunications Commission recently issued a report on broadcasting, 1968-78. Among highlights: "The change of real significance is the audience share attraction from AM to FM stations. The swing to FM is likely to increase as more FM stations come into operation..."

Danny Buntin, editor 1020 S. Duncan Stillwater, OK 74074

DEADLINE: 9th monthly

### GULF TR MAKES A LATE MARCH RETURN

Rick Samfor, 404 S, McNeill, Burnet,		
Equipt.: Kenwood KR-5400 rx, 10-el. A	rcher	FM at 24 ft. w/rotor.
2/2 /		
3/9 tr	-	3/28 tr
0719 KREP 106.1 LA Monroe, ID	385	0044 WGNE 98.5 FL Panama City, "Q-98." ID
0731 KWEZ 104.1 LA Monroe, "FM-104", I	D	0116 JKSJ 94.9 4L Mobile, PSA, II 610
0735 KHON 104.1 LA Houma, wx, ID	470	0120 WABB 97.5 AL Mobile, wx. "97-Rock"
0747 KAJN 102.9 LA Growley, ad	365	0131 MEZ 94.1 FL Pensacola, ID 665
3/27 tr	0.310	0159 VLPR 96.1 AL Mobile, ID
2246 WOXY 100.7 LA Beton Rouge, ID	435	0202 WKRG 99.9 AL Mobile, ID, later
2259 WAJB 107.3 FL Pensacola, wx 2/ID		with "G-100 " slogan
2259 WRBO 104.7 FL Tampa, ID	985	0229 WTGI 103.3 LA Hammond, ID 475
"Q-105 is The Electric FM"	-	0231 WTKX 101.5 FL Pensacola, ad w/ID.
2359 WYLD 98.5 LA New Orleans. ID	500	"TK-101"
"The Midnight Concert on FM-98"	200	0326 : KMX 106.7 AL Enterprise, ID 745
3/28 tr		0401 WTYX 94.7 MS Jackson, ID 500
0022 WRYO 99.5 LA New Orleans, ID.	111111111111111111111111111111111111111	"94-Ticks"
"Rock-oo"	4	0659 WBAM 98.9 AL Montgomery, ID 710
그녀는 사람들은 사람들이 살아가면 없었다면 하나 사고를 하는 것이다. 그런 그는 그 그리는 그 그리는 그 그리는 그리는 그리는 그리는 그리는 그리	D/E	
0035 WPFM 107.9 FL Panama City, ID	765	3/30tr
0040 WXBM 102.7 FL Milton, ID, "X-102"	680	2358 KMOO 96.7 TX Mineola, s/off 205
		claiming to be EZ in day & rk in eve.

After resding the March "FCC FM News" and reviewing my tapes again, I've discovered two errors in my March report. On 1/25 at 1919 I had KMVZ instead of the correct KMVC and on 1/27 at 1917 I had KTAN-Ogden? which turns out to be KZAN in Ogden.

Vernon Eaton, 32 Springhill Acres, Benton, AR 72015 - Jan. 1, 79 to Feb. 23, 79 Equip.: 5130 Sony tuner w/hor. stacked CM ant. € 55', CD 44 rotor. 374 stations logged including 13 new loggings and my 99th freq. logged. 501-847-2066

Not much happining down here except the coldest January and first two weeks in February the coldest on record. From 1/18 to 1/14 I deserted my radio because it was too cold. I now find that a beautiful opening w/both Es and Tr in many areas in my part of the country happened 1/25 when there was record breaking cold outside. I learned one thing, check the radio each day. Anything's possible in any weather. (Probably that is true but, let's keep in mind that Es takes place so high up in the atmosphere that is is not directly related or affected by the weather on the earth's surface. DB)

Had some fantastic openings 2/14, 2/20, 2/21 and 2/23. Feb. 20(pm)and Feb. 21 early (am)was terrific. Get 10 new loggings in three hours. I get sleepy or would of received more. 73-Vernon

1/1 (all tr)		1/13 (icy)	
0930 WEYZ 93.3 KY Peducah, ID	300	0908 KOBC 90.7 MO Joplin	200
1/4	-	1300 WDS 91.3 NY Murray, ID	370
0200 KVVP 105.5 LA Leesville, ID	250	1318 EVCL 92.1 LA Winfield	220
1/5		1850 KTER 93.3 TI Port Arthur, ID	350
0135 KRAV 96.5 OK Tulsa, \$	200	1854 WCPC 93.3 MS Houston, ID	250
0151 KMRJ 96.9 KS Pittsburg, ID	250	1905 KEBC 94.7 OK Oklahoma City, ID	350
0208 KZEW 97.9 TX Dallas	275	1908 WAXI 94.7 MS Jackson, \$	250
	21)	1/14	
0210 KPLX 99.5 TX Dallas	205	0925 KFJZ 97.1 TX Ft. Worth, \$	285
1737 KNOR 107.5 TX Ft. Worth	285	0930 KOAX 105.3 TX Dallas, \$	275
1/6		1/17	~12
0940 WKYV 106. 7 MS Vicksburg	200		250
1/10		1730 KUMR 88.5 MO Rolla, \$	2,00
0122 KKTX 95.9 TX Kilgore, ID	200	1/18	250
1/12		0300 WSM 95.5 TN Nashville, ID, \$	350
1755 KMGC 102.9 TX Dallas, ID, \$		0304 WXIX 97.9 TN Nashville, \$	-
1800 KJCS 103.3 TX Nacogdoches, \$	240	0312 WKTA 106.9 TN McKensie, ID, \$	275
2230 KUMR 88.5 MO Rolla, \$	250	0330 WMBC 103.1 MS Columbus, ID	300
2234 KUHF 88.7 TX Houston	380	1315 WZZQ 102.9 MS Jackson, \$	250
2240 KETR 88.9 TX Commerce, \$	220	1726 WKYQ 93.3 KY Peducah, ID, \$	300
2309 KCUR 89.3 MO Kansas City, \$	350	1735 KMBQ 93.7 LA Shreveport, \$	200
2310 KWGS 89.5 OK Tulsa	-		
1/13 (icy)	ELECT	2/14, first warm spell since early Jan.	55 F
	275	2300 KATT 100.5 OK Oklahoma City, ID, \$	300
0855 KERA 90.1 TX Dallas,	210	cont.	

SOUTHERN FM DX	-Eaton,	cont	MAY 1979
2/14 all tr		2/21	
2302 KKNG 92.5 OK Oklahoma City, \$	300	0015 KHOO 99.9 TX Waco.	ID. \$ 290
2304 KEBC 94.7 OK " ", "	Ħ	1743 KWJS 94.9 TX Arlin	
2306 KZUE 102.7 OK		1800 KSUC 88.3 TX Keens	
2309 KOFM 104.1		1830 WBW 88.9 TN Chatt	
2/20 (warm, wet)		1832 WDYN 89.7 TN Chatt	
2240 KOOI 106.5 TX Jacksonville, \$	250	1912 KWMU 90.7 MO St. I	ouis 350
2245 WKTA 106.9 TN McKensie, ID, \$	250	1921 WKMS 91.3 KY Murre	y 375
2255 KPIX 99.5 TX Ft. Worth, \$	285	1930 KOSU 91.7 OK Still	water. ID 270
2300 KCBI 89.3 TX Dallas, ID, \$, 150	Ow 275	1940 KQID 93.1 LA Alexa	ndria, ID 260
2315 KKDA 104.5 TX Dallas, \$		2/23	

lack only 88.1)

1730 WEKU

1800 WVLK

1900 WKMS

1907 WKYO

1915 KWMR 88.5 MD Rolla

1915 WKBJ 92.3 TN Milan, ID, \$

2245 WKIR 104.1 TN Jackson, ID. \$

(99th freq. logged, took 18 months to catch,

550

530

270

300

250

250

88.9 KY Richmond, \$

92.9 KY Lexington, ID

93.3 KY Peducah, ID. \$

91.3 KY Murray, ID, \$

2247-2315 many others from Dallas-Ft. Worth, \$ 1005 KTLO 98.3 AR Mountain Home, ID

270

400

450

550

Mike Dalton, 1840 Drew St., Clearwater, FL 33515

94.5 TX Gainesville, ID, \$ 93.3 TX Killeen, ID, \$

89.5 TX Austin, \$, 1320 w

96.1 TX San Antonio, \$

99.5 TX San Antonio, \$

90.7 TX M

93.7 TX

100.7 TX

2400 KITE 104.5 TX "

2316 KGAF

2325 KIXS

2345 KMFA

2347 KUT

2348 KLBJ

2359 KASE

2353 KMFM

2355 KISS

After reading through VUD, I must confess a certain envy for those making reports of any DX. The DX here has been wirtually nil. The activity here has been a complete sero as far as Es to any area. There has been minor Tr activity to the north which includes certain receptions from Georgia and South Carolia, The South Carolina activity has been mestly weaker than we normally experience. An unusual season to be sure, since we have had no receptions of trans Gulf tropo. This is wierd since we have been accustomed to strong Gulf tropo during the emergence of spring. There has been some reports of Tr activity to the north. Somehow the bending has excluded our area. As you can imagine, the lack of stations has caused great consternation. Overall, 1978 brought in fewer loggings than previous years; the levels for Tr were down also. Since I have been fairly active ever the years, it has been a big disappointment that we are having difficulties receiving even relogs. The start of 1979 has been skimpy to say the least. We are hoping that the Es will be "terrific"—if this season turns out like 1978, I'm going back to photography as a hobby! If it weren't for Earl' Lyons, who DI's from Belleair Bluffs just a few miles from here, I would swear that there was a breakdown in my antenna system. This brings me to a brief review of my equipment. Our FM receptions are made with an SAE (modified) Mark 8 digital tuner; this tuner has been stabilized for dxing and has high performance options made by my company, Dalton Audio. This tumer is linked to a stacked (vertically)pair of Finco FM-AG antennas mounted at about 251 above ground level. I also have a Revox digital tuner that I purchased over the summer; but so far I haven't had time to modify it. The complement of equipment is rounded out by various recorders. At the present time I am using a Tandberg RD 320 for recording because of it excellent response.

I hope we all have a good year for Dling in '79. We need semething to keep up spirits. Perhaps perseverance will pay off for members, but then, again, Mether Mature doesn't bend to our whims. Let's hope our members will have a good year; I for one look forward

to some long reports. Best regards, Mike Dalton.

### Randall B. Clark, Mr5 Dutch Ridge, Parkers Burg, W 26101

My apologies for no contribution for the April-79 VID column. I usually try to send contributions every month but as you can guess no or little DX of interest to report!

I'm still looking for an address book for most of the FMers in the US and Canada. Got any ideas where I can get a hold of one?? I plan a massive QSLing attempt on most of the FM Es/Tr catches this year, so if you have any info it would be greatly appreciated indeed!! (I think a publication of <u>Broadcaster's Tearbook</u> might help you. Try looking for it in a large library. DB)

### Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074

Like the last two reporters, I'm going DXless also, but that's expected in my location. DX here usually doesn't pick up until April or May. If not, then I'll feel exactly like Mike above. Winter, as if by magic, suddenly released its icy grip here in late February and throughout March, temperatures were above normal on almost every day. What a magnificant relief that made. As a result, I was delighted to see some of my fringe stations coming in like locals during some of those nice days.

As I complete my first year as editor of SFM, I would like to express my thanks again to those great members who have contributed to SFM. As a result, SFM has really made a positive turnaround. For many years, SFM just foundered along, seldom experiencing much regular support from reporters and editors alike. Now I doubt if few WTFDERerscan remember the column doing so well now. Consider what a mediocre year 1978 was for dxing and it's an

even more remerkable feat. Thanks everyone for helping to make it possible. 73.

## **NORTHERN FM-DX**

Ralph Strobel 2510 E. McGalliard Rd. Muncie, IN 47303 (317) 288-5815

Deadline: the 10th

May 1979

For FM DXers in Canada, the Northwest-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. Send in your DX report for publication.

Only one report received this month from our faithful Canadian. Winter E-skip noted below.

Peter Sawatzky - R.R. #4 - Guelph, ON NIH 6J1
Equipment: Pioneer TX-9500 Tuner with Delhi 1047 @70 feet.
Loggings made on the automated setup are indicated with an asterisk.

1978	10/18-19	Es 2300-0800 KERA* 90.1 TX Dallas	1130
	(For log	gings of 18-19, 2300 refers to time on the 18th a	nd
	0800 is	time on the 19th. This applies to all dual dates	.)
	11/7	Tr 1901 WAUS 90.7 MI Berrien Springs	325
	12/3	GW 1100 CJBC-? 99.3 ON London	65
	(I'm not	certain what # this repeater of CJBC is-assume Lo	ondon)
	12/4	Tr 0700-1830 WMBI* 90.1 IL Chicago	375
	12/5	Tr 0500 WBCS* 102.9 WI Milwaukee	365
	Charles bard	0800-2230 WMBI* 90.1 IL Chicago	375
	12/6	Tr 0700-2200 WIAN* 90.1 IN Indianapolis	380
	12/8	Tr 0800-1800 WIAN* 90.1 IN Indianapolis	380
	12/11	MS 0800-1800 WEPR* 90.1 SC Greenville	605
		(Heard: "WEPR, Greenville")	
	12/16	GW 1100 CBE 89.9 ON Windsor	165
	12/17	Es 1200-2000 WOKF* 95.7 FL Clearwater	1080
	AND DESIGNATION	2007 KOFM 104.1 OK Oklahoma City	1045
1979	1/5	MS 0800-1730 KVN0* 90.7 NE Omaha	815
		(1st time by MS, previously heard by Es;	
	- /0-	lengthy burst with local weather heard.)	
	1/23	Tr 0800-1730 CIXX* 106.9 ON London	65
	1/24-25	Es 0800-1400 KESS* 93.9 T% Fort Worth	1170
		0800-1400 KWJS* 94.9 TX Arlington	1150
		0800-1400 KYKR* 93.3 TX Port Arthur	1180
		0800-1400 KPFT* 90.1 TX Houston	1240
	7 /20	0800-1400 KQUE* 102.9 TX Houston	1240
	1/29	MS 0800-2000 KCSC* 90.1 OK Edmond	1070
	2/14	(1st time by MS, previously heard by Es.)	
	2/14	GW 0032 CKQT 94.9 ON Oshawa	-75
	2/27	(1st time heard by new calls, ex-CKQS.) Tr 2135 WERG 89.5 PA Erie	-
	4/4/		100
		(1st time definitely heard on 89.5 MHz., previous	Ту
		heard on 89.1 MHz., although not apparently liste	d
	2/28	anywhere on new frequency; still 10 watts ??) GW 2300 WJYE 96.1 NY Buffalo (ex-WBNY)	0-
	3/7	Tr 2156 WCBF 88.9 NY Fredonia	85
	2//	(Calls nor location never clearly mentioned, but	90
		assume new calls for WJQL Fredonia - 10 watts?	
		Much local information given.)	
	3/18	Tr 2050 WHAD 90.7 WI Delafield	380
	2,20	2100 WBCL 90.3 IN Fort Wayne	300
		"DOL JOS IN FOIC Wayne	900

All new loggings are underlined. Times are est. with distances in miles.

73. Pete

### EASTERN TV-DX

May 1979

Bill Thompson 1907 Seneca Street Buffalo, NY 14210

Deadline: 5th

March tropo conditions were quite good in the southeastern U.S., as evidenced by reports from Florida Diers. Loggings of over 500 miles on UHF and highband VHF were reported on several dates. The most significant activity has

been reported along the Atlantic coast, with none of the more spectacular Gulf tropo seen so far. We may see some Texas-Florida ducts reported next time.

Much of the rest of eastern North America had severe weather in late March and early April, with everything from a freakish spring snowstorm to severe ice storms and high winds in the northern Midwest and Northeast. As you know, this

is hardly the kind of weather for great tropo conditions!

No sign of any real E-skip activity in March, as usual. The Es season will hopefully be coming to life as you read this. Early April has seen one or two

fair Es openings in southern areas.

We have some more reports of F2 TV DX from this past February and March, and they are nothing short of spectacular, with good video reported from stations on channels B1 (Great Britain) and E2 (continental Europe) over 3000-mile paths into the northeastern U.S. Based on what has occurred so far, the coming F2 peak activity in late 1979 through early 1980 should be very productive!

Glenn Jacobs RD #1 Box 354-A Moscow, Pennsylvania 18444
"Since my earliest days of DXing in the early 60's, my one goal and dream was to receive the BBC video via F2 skip. To this end, I procured a British 405 line receiver last summer in time for rising solar activity. No sooner than line receiver last summer in time for rising solar activity. No sooner than I received the set, the BBC and French audio began coming in (late October). At about the same time that the MUF reached 45 MHz on various days, tuner problems caused nothing more than frame bars to be noted. Finally, at the end of February, the receiver was in perfect working shape. From March 8th, MUFs appeared to be going up again on the east-west path and audio was fading in unbelievably early-6:30-7:00 a.m. On the morning of March 15 at about 7:10 a.m., Bill Grant phoned me from Worcester, stating that he was beginning to receive video buzz. I quickly warmed up the set and swung the yagi towards the U.K. Weak traces of video were seem at 7:20 a.m. By 7:30 I was able to hold the vertical and horizontal rock steady. At 7:45, the video was as strong hold the vertical and horizontal rock steady. At 7:45, the video was as strong as strong E-skip but the distortion was unreal. It looked as if the signals were coming in from about 10 paths, with lots of CCI-such as in a jammed up channel 2 Es opening-and what looked like a bit of aurora. The reports I've read about F2 video being smeared are something of an understatement. read about F2 video being smeared are something of an understatement. Finally, around 8 a.m. everything came together (only about 2-3 ghosts) with perfect images, and contrast. This was seen by my wife, a house guest and myself. The pictures were so good, anyone (non-DXer) could watch them. Needless to say, 35mm pictures were taken and are being sent away for developing. By 8:45 the pictures were strong but one big smear again, and stayed that way until 10:59 when we went from strong video to nothing. The audio faded in 20 minutes later and stayed until 3 p.m. Next day—the last day I have had audio—the audio came in at 6:30 a.m. and stayed in until 3:10 p.m.; not a trace of video. One thing I have noticed along with Bill Grant. Jermy Phlice and video. One thing I have noticed along with Bill Grant, Jerry Pulice and others: when the MUF hugs 41 MHz, audio is good. When it stays around 45 MHz, the 41 audio is poor—this until it rises up to around 48 MHz. Also, when the video was in a Russian pager was noted strong--any ideas? Frequency unknown video was in a Russian pager was noted strong—any ideas? Frequency unknown due to using TV. Plans include a Rhombic for F2 work this fall. Several European standard receivers are enroute for several members. In all my years of DXing, nothing has or will ever come close to that moment when the video was plainly watchable from BBC. My deepest thanks go to WTFDA DXer Bill Grant, whose constant monitoring, tips, and schedule data proved invaluable, and to Gordon Nelson, who did hour after hour of surgical work on the Fhillips tuner. Without these two, the receptions would never have taken place."

Equipment includes 19 inch Sony, GE portable, 19 inch Phillips 405—line British TV receiver, Channel Master Super Crossfire VHF antenna, 7' Channel Master UHF dish, Blonder—Tongue and Winegard preamps, CDE Ham II rotators. Elevation:

May 1979

50 SEC

Jerry Pulice. WB2CPA 143 Gibson Avenue Staten Island, NY 10308 (212)984-7325 "It seems conditions got better after last Feb. 7. So much better, a 625 line picture was received on 48.25 MHz, on a regular U.S. TV and an up-converter to U.S. ch 6. The continental video on 48.25, and British audio on 48.27 were in for days, except that I only caught it at home one weekend. All reception 41-48 MHz F2:

February (EST) 11 F2 0900 French and English audio in at 41 MHz 1045 Video on 45, strong picture very ghosty

1230 Recognizable faces on 45 MHz, strong zero offset (barber-pole writhing thru picture).

1250 BBC newscast on Iran--picture very watchable although ghosted, signals +60db over S9.

1255 Band closed suddenly.

1030 625 line/50 Hz negative polarity video 50 + S9 on 48.25 MHz. Using a scope (at work--TV gear was at home)(\*!#?!) wave form was as follows at right: Evidently a test pattern with horizontal bars, mostly white--any ideas who this was?

1230 48.25 MHz 625 line video, 50 + S9, also 45 MHz 405 line in all morning.

1145 48.25 MHz 625 line video, 45 MHz 405 line all morning.

Back at home, 625 line 48.25 MHz TV rx ready. 1150 Both BBC audio & video with 1 kc heterodyne on 48.25. 48.25 MHz video buzz up suddenly.

1155 Horizontal & vertical lock on 625 line rx!!--picture not recogniz-

able, though.

1205 BBC audio predominant now on 48.25-- 'Tom & Jerry' cartoons 50 + S9." 1212 1 kc & 3 kc whistle on 48.25 BBC ch B2-also two identical stations offset either side.

1228 'Pink Panther' cartoons on BBC ch B2.

1301 BBC1 ch B2 still 50 + S9-note no sign of 45 MHz video all day. 1200 625 line lock again on 48.25, still not recognizable as to picture content.

1330 45 MHz video very strong—ghosty picture—quit—never thought I'd get bored by 3000 mile TV reception!

No F2 activity noted since. Next fall, I plan to be ready with better equipment for all world standards. New rx will be a superhet, tunable from 40 to 65 MHz. Biggest problem here is selectivity, as competition for spectrum around 45 MHz is fierce. New receiver will have a better shape factor filter (allowing as much as a 2.5 MHz video passband conditions allowing) so pictures should be more watchable. Will also try videotaping DX off screen with a TV camera for standards conversion. 73."

Ken Simon 513 6th Avenue South Lake Worth, Florida 33460 (EST) March 8 Tr 0556 WJKS-17 FL Februar 15 Es? 1558 umID-2 CCI 0855 TF1-F2 FRANCE 0634 WECA-27 FL 0645 WJCL-22 GA 0910 BBC1-B1 U.K. 17 F2 0945 TF1-F2 FRANCE 21 1330 TF1-F2 FRANCE 31 Tr 0630 WINK-11 FL\* BBC1-B1 U.K. 0655 (WLTX)-19 SC 0658 WOLO-25 SC 0915 TF1-F2 FRANCE BBC1-B1 U.K. 0704 WFTV-9 FL\* 0709 WEBA-14 SC April 0901 TF1-F2 FRANCE 0715 WJWJ-16 SC 1030 BBC1-B1 U.K. 7 Tr 0630 W33AA-33 FL\* 0728 WCES-20 GA WTVX-34 FL\* 1329 TF1-F2 FRANCE "very tough" 1630 WJCL-22 GA 1200 WJWJ-16. BBC1-B1 U.K. WJCL-22, WJKS-17 0930 TF1-F2 FRANCE 2200 WEBA-14 GA "in for about 35 sec." 9 0558 unID-20 s/on WJKS-17 FL \*--using set's internal antenna. F2 loggings audio only. "I'm back in action again after a few months lay off...a good start 7th, 8th & 9th. "I'm back in the 8th & 9th. 73s"

0726 WSFA-12 AL 325 0731 WDHN-18 AL 250 2200 WWAY-3 NC 440 0012 WALB-10 GA 200 2226 WTOC-11 GA 225 0800 WYBA-38 GA 280 0050 WECT-6 NC 450 2300 WIS-10 SC 350 0829 WJCL-22 GA 225 0105 WITN-7 NC 550 2302 WXGA-8 GA 360 0859 WCIQ-7 AL 20 2359 WALB-10 GA 200 2330 WRLK-35 SC 350 0010 WJHG-7 FL 220 0900 WTVM-9 GA 280 21 28 0001 WATU-26 GA 310 0930 WTOC-11 GA 225 0033 WJCL-22 GA 225

John H	Combs 2485 Ivan C	ourt (	rlando, Flo	rida 3280'	(EST)	
Februa	ry		0828 WNTV-2	9 SC 447	19 Tr	2220 WRJA-27 SC 373
6 Tr	2307 W33AA-33 FL			0 SC 433		WPTF-28 NC 523
	W64AD-64 FL 2312 ZNS-13 BAHAMAS		0829 WYEA-3	2 AL 394		WJPM-33 SC 408
	Nassau 348			5 SC 385	20	WRLK-35 SC 385 1200 WCIV-4 SC 309
12	0758 WJWJ-16 SC 290			8 NC 465	20	2345 WEBA-14 SC 320
	2238 WJWJ-16 SC 290		0831 WRET-3			WRJA-27 SC 373
14	0618 WJHG-7 FL 274		0833 WJHG-7			WJPM-33 SC 408
	0623 WDHN-18 AL 301 0633 WFSU-11 FL 230		0836 WSFA-1	3 FL 263	21	0615 WJWJ-16 SC 290
	0645 "CCI chs 6,10"		0838 WJBF-6			0640 WFSU-11 FL 230 WDHN-18 AL 301
	0646 WMBB-13 FL 263			WDB0-6"		WJHG-7 FL 274
	WYEA-38 GA 341		WTVY-4	AL? T		0650 WMBB-13 FL 263
15	0715 WJWJ-16 SC 290		0844 WAIQ-2			0656 WKRG-5 AL 417
	0749 WDCO-15 GA 294 0754 WYEA-38 GA 341			3 AL 329		WEAR-3 AL 401
	WJSP-28 GA 357		0904 WJPM-3 0906 WRBL-3			0700-0730 "I'm busy"
	0815 WATU-26 SC 337		1057 WALB-1			0730 WMAA-19 MS 479 WALA-10 AL 415
	WEBA-14 SC 320		2054 WMBB-1			WRBT-33 LA 603
10	2030 WITH-7 NC? T			1 FL 230		"opening strength-
18	0929 WCIV-4 SC 309			4 GA 244		ening, but had to
19 ES:	"in brieflymay		WJHG-7 2238 WJPM-3			leave. 0900 check
	have been long MS"		WIS-10			FM in carPACKED with signals, but
Es	1935 KFDX-3 TX 1078		WPTF-2			no time to ID."
	KIII-3 TX 978		2240 WRJA-2		22	0000 WDHN-18 AL 301
00 me	KGBT-4 TX 1023		2241 WJWJ-1			0002 unID-23 N.W.
28 II	2102 WMBB-13 FL 263 2200 unID-4 "strange		2243 WUNJ-3 2305 WWAY-3			0004 WGIQ-43 AL 329
	20 kHz-type bars to		"Evening op			WKAB-32 AL 394 0005 Panana City V's
	W. w/steady, slowly		witnessed b			0800 WABW-14 GA 244
	rising/falling whis-		Simonanot			0806 W33AA-33 FL 191
	tle-seen several		to the 'Law	of Vis-	27	0728 W33AA-33 FL 191
	nights since" 2322 WRBL-3 GA? T	12	2000 WEBA-1			W64AD-64 FL 164
	2324 WGIQ-43 AL 329	-		6 SC 290		W61AA-61 FL 184 W69AA-69 FL 190
March	-9-1 11-4 19 9-3		2050 WRJA-2			1937 WCIV-4 SC 309
	0840 WABW-14 GA 244		WRLK-3			WITY-7 SC 309
7	0756 WABW-14 GA 244		WIS-10			2132 WCBD-2 SC 306
	WEBA-14 GA 320 0757 WJWJ-16 SC 290		2055 WITV-7			2140 WEBA-14 SC 320
	0758 WLTX-19 SC 392		2300 WCCB-1			WJWJ-16 SC 290 2230 WRJA-27 SC 373
	WATU-26 SC? T			5 SC 380		2305 WBTW-13 SG
	0800 WACS-25 GA 302		WJPM-3	3 SC 408		WJPM-33 SC 408
	WYBA-38 GA 341			6 NC 465		WRIK-35 SC
	2251 WRLK-35 SC 385 2252 WJPM-33 SC? T			6 80 337		WUNJ-39 NC
8	1200 WCIV-4 SC 309		2320 WRDW-1			2332 WLTX-19 SC 392 2333 WATU-26 SC 337
9	2130 WEBA-14 SC 320		getting bor			WIS-10 SC
	WRIK-35 SC 385	18	2100 WJWJ-1			WWAY-3 NG 426
	WATU-26 SC 337 WVAN-9 GA 249	19	0627 WJWJ-1			2334 WOLO-25 3C
	"under WFTV"			8 NC 523 3 SC 408	28	0620 WIS-10 SC
	2138 WIS-10 SC 387		0636 WRJA-2			WRJA-27 SC 373 WJWJ-16 SC 290
	2158 WCES-20 GA 329		0702 WITH-7			WBTW-13 SC? T
	2202 WITX-19 SC 392		WCTI-1	2 NC? T		0624 WCSC-5 SC 309
	2227 WRDW-12 SC 337		0704 WYAH-2			0625 WOLO-25 SC
	2237 WNSC-30 SC 433 2246 WOLO-25 SC 380		"in for abo			WATU-26 SC? T
	2247 WRET-36 NC 465		WUNK-2	5 NC		0630 WJFM-33 SC 408
	WCCB-18 NC 465		Greenv	ille		WRLK-35 SC
10	0827 WJHG-7 FL 274		0822 W33AA-			WITV-7 SC 309
	WIS-10 SC 387 WFSU-11 FL 230			61 FL 184		0642 WCIV-4 SG 309
	WEBA-14 SC 320		W69AA-	ood 190		WCBD-2 SC 306 0730 WRDW-12 SC 337
	WJWJ-16 SC 290		0830 WCWB-4		April	01,50 111.011-12 30 331
	WDHN-18 AL 301		0833 WDC0-1	5 GA 294	2 Tr	1950 Charleston V's
	0828 WLTX-19 SC 392		2220 WEBA-1	4 SC 320		WJWJ-16, WRJA-27
	WATU-26 SC 337			6 SC 290 9 SC 392	3 Tr?	0930 unID-2 20 CCI
			11111V-1	J 50 J72	4 53	2050+ "to DE, NM" 19
						10

EASTERN TV-DX May 1979

Rich Turcsany 7 Cayer C	ircle Shelton, Connecticut Of	5484 (EST)
December	February	13 F2 1300 ORTF-F2 FRANCE
10 Es 2113 KTCA-2 MN 94	9 Es 1948 unID-3 "WEAR?"	14 1239 BBC1-B1 (Ø)
17 1635 WSB-2 GA 72	2000 WPBT-2 FL 1050	ENGLAND
1700 WSJK-2 TN	WTVJ-4 FL 1050	"promo for
Sneedville 58		'Calling Nation-
1800 WMAB-2 MS 100	1300 <u>BBC1-B2</u> (Ø)	wide' pgm. nx"
1856 WBRZ-2 LA 108	ENGLAND	ORTF-F2 FRANCE
unIDs to ch 4		15 1445 BBC1-B1 (-)
	5 At West Palm Beach, FL:	Llanddona WALES
Tulsa 116		"w/rock music
29 1500 WESH-2 FL 86		1-0-0-
WBRZ-2 LA 108		16 1439 BBC1-B1 (-)
January	, W69AA-69 FL	Llanddona WALES
31 GW 1433 WLIW-21 NY 3	5 10 0830 unID-9 "Cuba?"	"w/" Wonder
"testing new	"CCI w/WFTV"	Woman'!"
xmtr at new	13 Back at Shelton:	ORTF-F2 FRANCE
Location	F2 1230 BBC1-B1(Ø)U.K.	19 1447 ORTF-F2 FRANCE

"Winter DX, of course, is very seldom here, but thank to a Regency 'Touch' scanner I received for Xmas, I'm receiving the audio and video signals of the BBC and ORTF from Europe. Since the audio is AM, the scanner has trouble picking it up. But, by turning up the volume to almost maximum, it can be clearly received. Good to see that Fairfield County may get its first commercial TV station because of two applications with the FCC. It will be channel 43, but really isn't the first station. Channel 43 (as WICC-TV) operated as an ABC network affiliate from 1953 until 1968. Once WNJU-47 and the dark WSNI-67 start their STV systems, New York will have three pay-TV stations (WTVG-68 being the only one now). Visited West Palm Beach early in March, had tried for skip, but ended with good tropo and a possible channel 9 from Cuba which had a color bar test pattern. 73's"

Cicero. 5129 W. Roosevelt Road Apt. B7 Cice 7 Tr 0026 WIPB-49 IN 160 Robert Goodman Tr 2230 WNBO-45 WKBN-2 2300 WJAC-6 WEWS-5 2330 WFM-21 WYTV-33 At Bronx, NY (EST) GW 2000 WEDW-49 CT 4 September (CDT) Tr 2205 WHMB-40 IN 160 0034 WVTV-18 WI WFFT-55 IN 140 WTVP-47 IL 120 WLFI-18 IN unIDs on ch 18 2230 unID-57 WBGU? 0106 unID-4 unIDs on ch 3 9 0903 WKZO-3 MI February (CST) 2257 unID-56 WTVS? October 26 Back at Cicero: 28 At Remington IN (CDT)
Tr 2030 WISC-3 WI 200
2100 WTMJ-4 WI 160
2133 WRTV-6 IN 90
2200 WHBF-4 IL 170
2207 WREX-13 IL 144
WQAD-8 IL 170
2227 WILL-12 IL 80
23304 WWWS-10 WI 16 2302 "CCI on 7, 9" 2323 WKBD-50 MI 240 2330 WFYI-20 IN 140 Tr 2050 WGVC-35 MI 130 WUHQ-41 MI 130 2105 WLFI-18 IN 110 2332 WXIX-19 KY 250 WFYI-20 IN 140 unIDs on ch 2130 WTHR-13 IN WKEF-22 OH 220 IL 140 0730 WTHR-13 IN 140 "slaughtering WZZM-13 MI 0759 unID-35 Ø WGVC 0930 WQRF-39 IL WSBT video" 2304 WMVS-10 WI 160 2343 WKJG-33 IN 140 2345 unIDs on 62 (CST) Rockford "probably WTVQ, WGPR" 0003 WLIO-35 OH 200 0630 WITI-6 WI 160 1930 Peoria, WRTV-6, WKZO-3 0651 WISN-12 WI 160 Rockford stns 0012 unID-43 WUAB? March 0017 KDUB-40 IA 160 17 Tr a.m. "some trops November

0017 KDUB-40 IA 160 November 17 Tr a.m. "some trops 0022 WIKY-32 KY 270 3 At Pittsburgh PA (EST) 22 in mornings" Tr 2200 WTRF-7, WSTV-9

"In Cicero before I left, there was some more tropo (nothing special) on the mornings of September 10 and 26, and overnight October 1-2. The 9/10 a.m. weather report included an ozone yellow alert with an inversion layer at 2,000 feet. The Carson Inn's TVs in Remington are fed (V&UHF) by a multi-element VHF antenna on a tall mast pointed NNV at Chicago. It must have a strong front/back, as evidenced by the paucity of signals from Indianapolis. The desk clerk said 'we don't get UFH (sic)', but South Bend and Chicago U's were in on 10/28. Pittsburgh and New York logs were with indoor antennas. BBC TV audio was frequent in N.Y.C. early that winter. The Pittsburgh trops came during a period of air stagnation, though some of those stations are normal for nearby hilltop locations. I'd seen WSTV at that house (my cousin's) some years ago, but I didn't think they usually get those stations, so I figure they're DX. The 9/7 Cicero logging of WIPB was a valuable catch, though I didn't know that with) after xmtr failure!"

May 1979

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

Deadline: 5th

There are three reporters this month. One is of recent DX and the other two are of 1978 DX. John Anderson had trouble with the mail last year and none of his reports reached Bill Block. He has forward his loggings to me, and I have condensed his loggings, listing all mention of Es and including all of his best loggings, some of which were very good. Pat Dyer provides some 1979 Es loggings. Hopefully Es should be occurring more frequently soon, especially in the south. Let's have lots of reporters next time!

New	New Mode_	_ Tentative - t Unidentified - unid	
John F. Anderso	n, Box 186,	, Lowe Farm, MB ROG.1EO (204)-746-8887	CT
December 1977		June 1978 August 1978 (cont.)	
26 Es 2000 unid 27 Es 1900 WDTN 1915 KTVI (MUF May 1978 2 AE 0059 CFAC	2 OH 2 MO ch 4)	21 30 KARK 4 AR 24 Es 1100 KORK 3 NV 24 tr 2300 KYIF 24 IA KMID 2 TX 25 tr 0000 WHY 15 WI	392 405 405 470
0130 <u>CFJC</u> 0132 <u>CHBC</u> CHKL	4 AB 2 BC t 5 BC t 6 BC 4 NB	July 1978     00115 WREX 13 II       11 Es 2200 unid - 2 se     0130 WISN 12 WI       22 Es 1300 KPRC 2 TX     0150 WTHR 13 IN       KOAI 2 AZ     0210 WIJK 11 WI       KDBC 4 TX     0225 WBBM 2 II       KVX 4 UT     1830 WDSE 8 MW	630
10 AE?2338 CFAC			
0010 KREM 0013 KXLY 0030 (MUF 0108 KCBI 21 Es 1400 WMAB 24 tr 0003 KOLN 2141 WEAU	107.9) 2 WA 4 WA 107.5) 2 ID 2 MS 10 NE 530 13 WI 416	### 4 Property   4	
2127 WSAU (CKY 29 Es 0000 KWGN	7 WI 470 off air) 2 CO 765 2 BC 1095	1900 KTTC 10 MN 432 1940 KIIN 12 IA 600 2002 WAEGO112 WI 450 9 Es 0000 WMAB 2 MS 1 5 17 tr 0024 CBC st ch12 ne 31 AF70224 CFTK 2 BG 0105 WEAU 13 WI 416 (PRAIs Queen Charlett Islands)	1150

Tropo on August 25 and September was just great! WIRE-13 Indianapelia is my best ever trop logging at 857 miles. There was also some interesting skip openings to the extreme east and west of Canada during this reporting period.

At the moment, my CM preamp is inoperable (possibly a bad transistor) due to a faulty RG-11u adapter at the pre-amp end. It seems to cause shorts as the antenna is rotated. I think I'll be able to remedy the situation by using RG-59 from the preamp to the tower and leave the RG-11u stationary. 73 and Good DX

Thomas Payne, 8430 West 35th St., St. Louis Park, MN 55426

CST

### August 1978

13 tr 1126 WTVO 17 IL 270 I use a Channel Master 4251 7 foot parabaloid WMTV 15 WI 230 dish.

1240 WIRL 19 IL 350

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228

CST

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

March 1979 March 1979 (cont.) March 1979 (cont.) 4 Es 1725-5 Es 0915 KNXTt 2 CA 1190 9 tr 0150 KFDM 6 TX 1755 unids 2-5 0925 XHBC 3 BCN1010 KSLA 12 LA 350 2245 KNXTt 2 CA 1190 0929 XETV 6 BCN1100 0510 KNOE 8 TA 440 2250 KNBCt 4 CA 1190 2259 KORK 3 NV 1050 KOAI 2 AZ 855 7 Es 0935-KLTV 7 TX 280 2259 KORK 3 NV 1050 1130 unids 2,3 0525 KOAI 2 AZ 855 0955 WBAYT 2 WI 1190 5 Es 0000 KUTVT 2 UT 1080 1100 KDALT 3 MN 1250 11 Es 1030-0525 KTRE 9 TX 265 KLFY 10 LA 395 0050 apx f/outs КТСА 2 MN 1110 1100 unids 2,3 west 0850-9 tr 0035 WRBTt33 LA 450 KNXTt 2 CA 1190 0955 unids 2-6 325 26 tr 0529 KPLC 7 LA 0059 KPLC 7 LA 325 0855 KORKt 3 NV 1050 0100 WAFB 9 LA 450 28 tr 0110 WAFB 9 LA

A lot of trop in month, but most of it in-state variety. The Es levels up a bit from what one expects in the lowest month of the year. Maybe some Eslinked TE next time. 73. WA5IYX

Now my loggings:

Fargo: Equipment - Broadmoor 9" B&W, Heath GR-2000, Winegard CH-7078

CS

March 1979

April 1979

16 F2 1120-1330 BBC1 41.50 audio 5 Es 1120-1200 KPRC 2 TX 1195

It was a very slow DX period. Considerable auroral activity was noted, but no ID's. The F2 skip seems to have ended. Early Es was surprising, but it was very poor with about ten minutes of viewable signal during the period.



Here's an interesting extract from the March '79 Broadcast Communications magazine:
"South Africa - Letters from viewers who reported the reception of unknown TV signals were received by the South African Broadcasting Co. (SABC). After an investigation, the SABC announced that the strange signals were being received from the USSR's EKRAN satellite launched in 1976. The pictures were visible on ordinary television sets; and although of poor quality, the pictures were easily identified as coming from the Soviet Union."
That's DX!

-contributed by Rod Luoma



To get your copy, send a S.A.S.E. to WTFDA HQ

# TO-NEWS

Jim Alexander 4 Brook Court Parsippany, NJ 07054

May, 1979



KIMT- 3 Mason City, IA 1,265 mile E-skip (Combs)



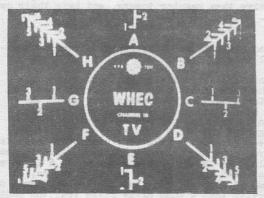
WILL-12 Urbana, IL 300 mile tropo (Gaines)



KARD- 3 Wichita, KS E-skip (Barber)



WCBS- 2 New York, NY meteor scatter (Simon)



WHEC-10 Rochester, NY 280 mile tropo (Gaines)

Don't miss Ken Simon's photo of WCBS by meteor scatter (above) ...

### Contributors:

John Combs, Orlando FL

Paul Gaines, Detroit MI

John Barber, Carolina RI

Ken Simon, (photo taken at West Palm Beach FL)

73 and good DX, Jim



### **TECHNICAL TOPICS**



Q: "I'm considering putting up a stack of four FM yagis (quad stack) for DXing purposes. Can I use a regular TV antenna rotator for such an array, or should I use a special model?"

A: You'll need a good heavy-duty rotor, not the cheaper type of consumer TV/FM antenna rotor that's usually adequate for turning one or two antennas. Look for a model that's recommended for the largest arrays. A good quad stack of FM yagis can present a load of as much as 75 lbs. or more to be rotated, and wind loading is enormous, putting a large amount of stress on the rotor. The best choice of rotor for this kind of array would be one of the amateur radio/CB type units. These are more expensive (they start in the \$100-\$200 range, as compared to the \$50-\$100 range for most TV/FM rotors), but they are worth the price if they save such an array from high wind damage. In addition to being designed to handle the larger loads, they generally have much better braking action than a cheaper TV/FM consumer-type unit. You need this to prevent the array from "windmilling".

Q: "What should I use for mast supports in a quad stack?"

A: Don't use cheap masting materials! If you do, it won't be long before the stack is literally "bent out of shape"—remember, wind loading characteristics are very large for this type of antenna configuration. As a bare minimum, you should use 1½ inch 16 gauge seamless steel mast to support the antennas themselves, and the whole array should be supported by nothing less than steel pipe (such as water conduit) obtainable from plumbing supply outlets. In fact, some DXers use quad stacks employing an H-frame (vertical and horizontal supports) made entirely of such pipe. This makes the array quite heavier than it would be using conventional TV masting—but it also makes for a very sturdy quad stack!

Q: "Do I have to have a tower to put up a quad stack? Can't I mount it on a roof tripod?"

A: This type of array is very difficult to put up. You can put a quad stack on a good roof-mounted tower or tripod tower, but getting it up there may pose a problem. It's necessary to build the quad stack on the ground, and most (if not all) such arrays for FM cannot be carried up a ladder, so they must be "winched" up by some method, such as a crane if you're able to use one. If you have a flat roof, you can assemble it on the roof. Otherwise you may have to devise your own method of roof mounting one of these monsters! Obviously, a tower is much more pratical for a quad array, and just about the only way to support it. The ultimate in towers for such a stack would probably be a tilt-over or crank-up model. These would make installation and maintenance quite easy—but they are much more expensive than regular towers, and have their own special set of problems themselves.

Q: "What are the advantages of quad stacks? Are they really worth the trouble? How much additional gain will they give you?"

A: The primary advantage is the increased directivity and very deep nulls that are created, something that the DXer is often in need of even more than increased gain. To the TV or FM DXer, they are most definitely worth the trouble involved, as they will add some stations to the log that just would not have been detectable with a single antenna. If you are serious about meteor scatter (MS) DX on FM or highband VHF TV, a quad array will give you above average results. The very deep nulls will make some semilocals easy to live with, and even possibly give you some DX on local channels, depending how far you're situated from your locals. In theory, you can get up to 6 db more gain (over that of a single antenna) with a quad array, but in practice, it will be more like 4 to 5 db, because of combiner and feedline losses. Even so, together with the excellent directivity that a quad array gives you, the additional gain makes a quad stack a really high performance DX antenna system. There's a considerable cost involved, but for the DXer with the space and resources available, a quad stack is well worth it.

TECHNICAL TOPICS May 1979

q: "Why don't they include coverage of the VHF aviation band (108-136 MHz) on programmable scanners such as the Bearcat 210 and Regency Touch? They seem to be ignoring this band. Is there some way to modify a programmable scanner for coverage of the aviation band?"

- A: Most of the programmable scanners on the market today are designed for monItoring the narrow-band FM transmissions on the public service bands. Since
  PSB scanners are FM receivers, attempting to convert one to receive the VHF
  aviation frequencies would be a poor idea, since the most widely used type of
  modulation in this range is AM. Fortunately, it would appear that the programmable scanner manufacturers haven't forgotten this band. Regency has come
  out with a new digital readout programmable scanner designed for the VHF aviation band. The unit is the ACT-T-720A, and it's similar to regular programmable PSB FM scanners, with a SEARCH function and a 16-channel memory, LBD
  readout, keyboard, priority channels, etc. The Regency unit is called the
  "Digital Flight Scan"--and it's similar in appearance to their "Touch" PSB
  scanners. It retails for around \$350; hopefully other scanner manufacturers
  will provide competitive units, and prices will come down. This type of scanner could prove to be a great "DX machine" for the 108-136 MHz band--Regency
  claims 1 uV sensitivity and 55 db adjacent channel rejection. When used with
  a good yagi (such as a modified FM antenna), such a receiver should give you
  great DX results.
- Q: "Why are many UHF TV stations reducing power?"
- A: In most cases, they're not reducing coverage—just using more antenna height above average terrain at lower effective radiated power (ERP). One very dramatic example of this is the way that a UHF translator with 1 kw transmitter power and an ERP of only 20 to 40 kw or so can actually have wider coverage than a regular TV station on UHF with an ERP of 500 kw. The "secret" is in the height of the transmitting antenna, as UHF stations are finding out. Some of the "super" translators are sited on top of mountains, with heights of 2000' AAT not uncommon, while many regular UHF TV outlets have urban locations, and antenna heights of less than 700' AAT. As the cost of energy increases, it's to the advantage of a UHF outlet to go to a higher tower, because of the money saved in reducing power. New UHF high-gain transmitting antennas have made this transition possible; U's can now get more ERP out, versus transmitter input power.
- Q: "If F2 skip conditions keep improving, will we be able to see co-channel interference from other continents here in North America? How will we be able to tell that it's foreign CCI?"
- A: If the F2 MUF reaches high enough, you will. For instance, channel 2 in North America (ch A2) has the same video carrier frequency (55.25 MHz) as channel 3 in most of Europe (ch E3), with the exceptions of the British Isles, the Soviet Bloc, Italy, France, and Monaco. New Zealand's channel 2 also has the same video carrier frequency as channel 2 in North America. Like North American channel 2, most of these areas are using offset frequencies, so the video carriers may be plus or minus 10 kHz above or below the nominal 55.25 MHz spot—and in some cases, "odd" offsets of 5 or 7 kHz are in use. In Europe and New Zealand, stations using 55.25 MHz for video carrier frequencies are transmitting 625—line pictures; the North American outlets are transmitting 525—line video. Because of the differences in standards, CCI from a 625—line video signal on a 525—line North American TV will look "weird"—it will look "slanted", and the picture will be hard to lock into sync. The weird CCI effects are due to the fact that the 625—line video has a different horizontal or line rate of 15,625 lines per second (North America's 525—line video has a line rate of 15,625 lines per second). This due to the fact that vertical rate (field rate) in North America is 60 Hz, and is 50 Hz in most of the rest of the world (based on local electrical standards). North American DXers may be able to lock 625—line video into sync by careful adjustment of vertical and horizontal sync controls on their sets, and should be able to see "most" of the picture, CCI and MUF conditions permitting. If you see foreign video via F2, there will be little doubt that what you're watching is "different". The "strangeness of the CCI" and "fuzzy picture" due to sharp MUF cutoff, together with the often extreme ghosting conditions, will make it quite obvious. Most of the 625—line systems use negative video modulation, as North America does.

# VAF WITLITY DX

MAY 1979

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

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Neil Dickerson, 426 State St., Sharptown, MD 21861 Realistic PRO-1 with Channel Master #5094 at 50 ft; Bearcat 12 for hi-VHF; EST used
1210 KND555 46.14 Sunset Beach,

1213 KND597 46.38 San Pablo, "

1215 KOK388 47.54 Lynden, WA-vh

1220 KMH304 47.66 S.F., CA-amb

1221 KXA236 "Burbank,""

1225 KRX477 47.42 L.A., "-1g

1227 KRJ722 46.38 Cypress,"-f
                                                       1010 KUV684 45.98 Castaic, CA-p
1014 KXM824 " SantaRosa,""
                                                                                  SantaRosa, ""
                                                       1014 KXM824
                                                       1030 KMG853 46.06
                                                              KMH292
                                                                                  Eureka, CA-f
                  47.42
                                                       2-21:
1100 KMA526
                           Somerset,""
1230 KQY870
                  46.42
                                                       1106 KIB295
                                                                        46.00 CasaGrande, AZ-1g
                          Salem, OR-f
                                                       1115 KCS579 47.54 Amarillo,TX-vh
1121 KKE609 48.10 Eagle Pass,"-lg
       KVG822
                 46.58
1231 KME358 46.06
                                                       1125 KKA790 45.90 River Oaks,"-p
1136 KKS287 " Grapevine, ""
1233 KYK434 46.10 Newport, OR-f
1240 KMB591 46.38 ElSobrante, CA-f
1243 KMH260 46.42 Stratford, " "
                                                       1200 KIT960 47.50 Gainesville, FL-vh
                           Pollock Pines,""
Sanger, ""
                                                       2-25:
1130
1250 KVN526
                  11
        KNF94
                           Sanger,
                                                              KOF346 44.66 Tucson, AZ-p
                  11
1254 KGP693 " McMinnville, OR-f
1256 KYL589 46.48 Hunt. Beach, CA-f
1258 KOL924 45.64 McMinnville, OR-p
1259 KEC895 46.58 Portland, OR-f
                                                       KCI703 " Kingman," "
1145 KOB639 " Parker, " "
1151 KOB565 " Bisbee, " "
1200 KDP351 46.38 Carrollton, TX-f
                                                       3-2:
0800 KYE994 154.19 NY,NY-f
1300 KSQ948 47.58 Bakersfield, CA-
                           amb
                           BuenaPark," "-f
       KMJ434 46.32 LaHabra,
KMG853 "BuenaPark
KMA466 "Pleasant
                                                       3-3:
1009 KGA346 154.19 UpperDarby, PA-f
1026 KGA853 159.09 " " "-p
1730 KEB842 155.37 Oakhurst, NJ-p
1301 KMG853
                           Pleasant Hill,""
       KMA466
1307
                  46.02 Sonora, "-p
       WSB48
                           Flagstaff, AZ-p
                                                       3-4:
0708 KIC548 154.19 Norfolk, VA-f
1309 KBB851
1312 KIB294 46.04 CasaGrande,"-lg
1316 KCN660
                  46.42 CrystalBay, NV-f
                                                                         156.80 HamptonRds, VA-cg
                                                       3-13:
0800 KIK537 155.37 Williamsbg, VA-p
1320 KMJ456 46.26 GardenGrove, CA-f
1323 KMH904 47.54 SanMateo, "-amb
1327 KXX608 47.46 ScottsValley,"-p
                                                       3-16:
1332 KOL887 47.50 Olympia, WA-vh
                                                                         156.80 Norfolk, VA-map
1334 KBR864 47.58 WallaWalla,""
                                                       2132
                                                                                    CapeHatteras, NC
1335 KMF876 46.38 Pittsburg, CA-f
                                                                                    -cg
                 47.66 Ferndale, WA-1g
                                                      (amb-ambulance, f-fire, cg-coast
guard, lg-local government,
p-police, vh-veterinary hospital,
1341 KCI607
1346 KML703 46.50 MillValley, CA-f
1349 KFG460 47.58 Santa Ana, " "
1400 KGW765 46.02 Pasadena, "-p
                                                      map-marine police)
(several hi-VHF loggings under 100 miles were deleted - pjd)
Martin J. Theil, 12 Princeton Dr. E., Holiday, FL 33589 is still very anxious to hear from other members regarding the Bearcats and various
indoor antenna systems; Bearcat 210 with rod antenna, typical March
loggings (EST)
```

March 10.7-cm solar flux average down to 188, but when put into the calculations for the smoothed level the Cycle continues to rise well. Due to seasonal changes and magnetic activity, many things occur that didn't with much higher flux levels earlier in the year.

1700 KTY214 39.50 Cut Bank,MT-cp 1706 KOA216 39.82 Great Falls,MT-cp 1710 KMA268 39.82 LA,LA-cp 1722 KOA722 39.82 Missoula, " " 1724 KOG902 39.82 Twin Falls,ID-p 1726 KOG986 39.82 Gooding,ID

```
MAY 1979
VHF UTILITY DX
Randall B. Clark, Route 5 - Dutch Ridge, Parkersburg, WV 26101 GMT used
BBC Ch B-1 41.5 (TV audio):
                                     14: 1430-1925 (1815-1915, Divis & Crystal Pal.)
3-2: 1440-1842

3: 1510-1922

7: 1302-1910

8: 1320-1615
                                    15: 1318-2026

16: 1330-2021

19: 1530-1705

20: 1415-1740, 1810-1925
 13: 1415-1915
BBC Ch B-1 45.0 (TV video): 15:15-1530 1725-1748 15: 1400-1703
                                                            (No BBC Ch B-2 48.25 audi
                                                          or any 48.25 Ch E-2 video
                                                                  noted in March)
       1805-1838
BBC Ch B-2 51.75 (TV_video): 3-15: 1502-1555 (first ever)
                                                  16: 1540-1645
TF Ch F-2 41.25 (TV audio):
In on most days B-I In and alone on 3-9: 1330-2030
During March 13-16 BBC video noted in early in the morning while the
audio did not appear until the afternoon hours.
Now, my loggings. Hallicrafters SX-62, Hammarlund SP-600-JX-10, Allied
A-2586, Patrolman (c. 1967); two 30' long-wires at 12' ne-sw and nw-se runs; 49.5+ loggings on Swan 250 with Ameco nuvistor preamplifier and 5-el horizontal Cushcraft Yagi at 23' with rotor; all F2 unless noted (* Es, bs-backscatter) with daily MUF peaks given; new underlined, GMT
1755 low-33 US
1825 mid-45 Carrib.
                                                         1300 KCD498 33.70 Sandwich, MA-f
                                                         1345 TF 41.25, 1359 US 39
                                                         1430 BBC 41.5
1433 ---- 35.58 Scranton, PA-VP
2000 KH6NS 50.1+ Oahu, HI-a
2140 45.25 New Zealand (TV video)
3-7:
1401 KCH677 33.70 Fitchburg, MA-f
                                                         1440 hi-39 Canada, 1920 nr 48 Span.
                                                         2100 45.25 N.Z. (all 3 off-sets)
                                                         2310 38.87 Russian
2311 KOB238 37.48 Seattle, WA-light
        KCB404 " Ashburnham," "
KCG342 " Barre, " "
                                                         3-10:
1328 D.Welle 30.30 (Carib.relay)-ha
1430 49.98, 1625 39 US (Mass)
1720 50 bs CA
                      11
        KCB778
                            Berlin,
                            Bolton, " "
                   11
        KBA887
        KCF337
KCA395
                    11
                          Boylston, " "
        KCA395 " Gardner, " "
KCD582 " Harvard, " "
KCC705 " Holden, " "
                                                         1950 50.75 N.Z. (TV audio)
                                                         2050 51 bs CA
                   " Hubbardstown,""
Paxton, " !!
                                                         2100 ZLIAVZ 51.1+ Auckland, N.Z.-a
        KCB364
 1402 KDN599
                   " E.Princeton,""
" Rutland, " "
                                                         2215 45.25 N.Z.
        KCN575
                                                         3-11:
1443 Wilkes-Barre, 1532 39 US
        KCH585
                   " Sterling,
                                          11 11
        KCD537
KCH239
                                                         2015 50.76 N.Z. (TV audio)
                   " W.Boylston," "
" Winchendon," "
                                                                51 bs CA
        KAV942
 1443 TF 41.25 (French TV audio)
                                                          3-12:
                                                         1350 TF 41.25, 1405 40.05 Russian
 1515 50.075 Colombia
 1525 50 bs OH, OK
1600 BBC 41.5 (England TV audio)
                                                         1448 KCA305
                                                         1450 KCA346 37.54 Ellsworth, ME-he
2250 45.25 N.Z., 2325 49.6
2330 mid-39 Russian
 1735 39 US, 2350 45.25 N.Z.
 3-8:
                                                         3-13:
1352 TF 41.25
        38.18 Russian, 1250 low-30 Rus.
 1314 KCD472 33.94 WindsorLocks, CT-f
1400 KCA305 37.54 Eddington, ME-u
1440 TF 41.25, 1447 mid-40 Canada
                   37.54 Eddington, ME-u

1422 KCC405 37.54 Bangor, ME-he
1424 KCC405 37.54 Bangor, ME-he
1447 BBC 41.5, 1505 40.05 Russian
1725 KOA796, 2130 45.25 N.Z.
35.22 Wilkes-Barre, PA-vp 2313 49.6, 2345 mid-39 Russian
 1535 39 US
 1549 ----- 35.22 Wilkes-Barre,F
1600 BBC 41.5, 1710 49.995 se
2130 45.25 N.Z.
                                                        3-14:

1309 KC1299 35.22 New Haven, CT-tp

KEA860 " N.Y., NY- "

1328 TF 41.25, 1335 BBC 41.5

1550 R.Moscow 38.87-ha; 39 US
 3-9:

0015 mid-39 Russian ?

0057 KOA796 35.58 Portland, OR-tp
```

```
VHF UTILITY DX
  (Dyer. cont.)
  3-14:
  1755 KUA288 35.22 Portland, OR-tp
  1813 KOB238, 2230 49.6
2309 KOP303 35.46 Langley, WA-mp
2348 KLF527 35.22 Honolulu, HI-tp
2355 mid-37 Russian
 3-15:
1350 TF 41.25, BBC 41.5
1427 R.Moscow, 1433 KCA305
 1427 R.ROSCOW, 1499 RCA909
1455 BBC 45 (TV video)
1555 44 Russian
(1558-1635, local power outage)
1628 KCI299, 1700 44+ Spanish
 0110 37.80 Russian
 1355 BBC 41.5, 1357 W.-Barre
1402 39 US, 1425 TF 41.25
1425 mid-40 Canada
  1520 BBC 45, 1715 49.6
 3-17:
0020 KUA288
 1331 KCG491 33.66 Wallingford, CT-f
 1708 Scranton, 1710 39 US
 1940 50.76 N.Z., 2247 49.81 se
  3-18:
 0018 mid-37 Russian
 1319 KC1299, 1320 KEA860
1600 mid-36 Russian, 1835 49.6
2000-2115 50 bs FL,OK,Mex,CA
 2125 45.25 N.Z.
 3-19:

0000 hi-37 Russian

1348 Scranton, Wilkes-Barre

1440 KCA346, 1800 49.68

1855 50 bs CA

3-20:
 1600 mid-37 US ne, 1915 low-46 Span. 2010-2125 50 bs TX, WA, MO
 0000 low-38 Russian.
0000 10W-30 Russian.
1350 35.03 ", 1537 KCA346
1915 49.6, 1940 45.25 N.Z.
3-22:
0005 10w-37 Russian
1803 KCA695 33.78 Manchester, NH-f
 1815 low-35 US, 1920 49.6
 3-23:
1335 low-35 US
 1431 KCA378 33.82 NewHaven, CT-f
 1440 36 Canada, 1528 46.8
3-24:
1505 49.6, 1816 KOB238
3-22:
1405 low-35 US ?, 2305 49.6
2350 low-38 Russian
3-26:
1327 D.Welle, 1748 49.915
1815 35 US nw, 2350 45.25 N.Z.
3-27:
1810 35 US nw, 2005 49.80 se
3-28:
1900 (apx) 35 US
2000 KH6IAA 50.1+ Hilo, HI-a
KH6NS, KH6EQI (Oahu)
```

```
3-28:
  2100 ZLIACL 51.1+ Auckland, N. Z .- a
  2110 50.74/.75/.76 N.Z.
  2200 49.6 se
  3-29: (magnetic storm)
 3-29: (magnetic 500...)
1955 49.6 se
3-30:
1555 mid-37 US ne, 1558 KCI299
1935 LU8DIN 50.1+ Mar del Pl.,Arg-a
2110 50.74/.75/.76 N.Z.
 3-31:
1950 LU8AHW 50.1+ B.A., Arg.-a
 2110 45.25 N.Z. (1600, hi-33 US)
  4-1:
 1500 KUA288, 1720 KLF527
2125 50.74/.75/.76 N.Z.
2203 ZL1AVZ 51+, 2305 50 bs TX
  2100 49.955, 2340 45.25 N.Z.
 4-3:
1615 35 US nw, 1905 49.6 se
2110 50.74/.75/.76 N.Z.
 0020 45.25 N.Z.
 1240 KOE257 35.22 Phoenix, AZ-tp *
 1425 PY2XB 50.057 Sao Paulo, B.-a
                             (cw beacon)
 1644-1742 50 LU4HLM, LU8DIN, LU8EEM
 1858 KUA288, 2128 45.25 N.Z.
2130 46.25 Australia (TV video) 2225 50.74/.75/.76 N.Z.
0310-40 CE3TS 50.1+ Santiago, Ch.-a
0400-45 CE4CP " Talca, Chile- "
 1915 US 30-31
 1935 LUSEEM 50.1 Lincoln, Argetina-a
2050 KH6EQI, KH6NS, KH6IAA
2120 50.74/.75/.76 N.Z.
2140 45.25 N.Z., 46.25 Australia
 2210 ZL1AVZ 52+
2215 ZL2CD 52+ Wellington, N.Z.-a
2250 51.75 Brisbane, Aust. (TV audio)
2330 VK4PU 52.05 Woombye, Aust.-a
 4-6:
 0000 YJ8PV 51.998 New Hebrides-a
                        (fsk beacon)
 (a-amateur, f-fire, ha-harmonic,
he-hydroelectric, mp-mobile phone,
tp-tone pager, u-tutility,
vp-voice pager)
ZS6 beacon heard in Japan & Dom.Rep.
PYl beacon (50,004) into Greece
ZE (432) into Greece
52 Australia to Florida, Mexico, C.Z.
51 N.Z. to Puerto Rico
```

50 Florida to Fiji

50 TX hrd in Darwin

WA5IYX

50 W5,6,7,VE7 hrd in Tasmania

# Don Blevins 1715 Earhart Road Baltimore, MD 21221

IN SEARCH OF PSB.....This information about low band government comes to us from George Du Bois of Portland, Oregon. George will explain this information himself. I sincerly hope this information is of help to you.

Most of the activity in the government portions of the VHF-low band (29.8 to 50 mhz) is done by the Department of Defence, which should come as no suprize. There is some Marine Corps activity, but the vast majority of the spectrum is used by the Army (our own and other countries). This list details the most used frequencies for Army air support. It is by no means complete, nor does it include the great number of frequencies used for maintenance or other ground support activity.

FREQ NAME-LOCATION ACTIVITY 30.25 Holman Field St. Paul, MN National Guard Operations McGuire AFB, NJ Feucht AAF, West Germany Finthen AAF, West Germany Coleman AAF, West Germany Furth AAF, West Germany Grafenwohr AAF, West Germany Hersfeld AAF, West Germany 30.50 Army Operations 31.20 Army Hadar 31.20 Army A /G 31.80 Army Tower 31.80 Army Tower 31.80 Army Tower Army A/G Kirchgoens AAF, West Germany Kitzingen AAF, West Germany Robert Gray(Ft. Hood) TX Army Tower Army Tower 32.10 Army Tower Army Operations Grey AAF (Ft. Lewis) WA Wildflecken AAF, West Germany Army Range Amberg AAF (Dofering) West Germany Army A/G Coleman AAF, West Germany Erlangen AAF, West Germany Army Radar 33.20 Army A/G Fluda AAF, West Germany Kitzingen AAF, West Germany Wertheim AAF, West Germany 33.20 Army Tower 33.20 Army Tower Army A/G Wertheim AAF, West Germany Army A/G
Finthen AAF, (Mainz) West Germany Army Tower
Friedberg AAF, West Germany Army A/G
Darmstadt AAF, West Germany Army A/G
Springfield, OH
ANG "wolf ct 33.20 33.60 33.70 Army A/G ANG "wolf cub" 34.15 34.50 Biggs AAF(Ft. Bliss) TX Army weather 34.70 Indianapolis(Brookside) IN AH Operations Karlsruhe AAF, West Germany Sabre AHP(Ft. Cambell) TN 14.80 Army Tower 14.80 Winder, GA Hanau AAF, West Germany Capitol City, KY Hood AAF(Ft. Hood) TX 15.00 NG Operations 15.40 Army Radar 16.20 NG Operations 16.30 Army Range Helena, MT Biggs AAF(Ft. Bliss) TX 16.50 NG Operations 16.70 Army Tower 36.70 Lawson AAF(Ft. Benning) GA Army Tower Mueller Muni. (Austin), TX Grayling AAF, MI 36.80 NG Operations 37.00 Army Tower Troy Municipal, AL
Bad Kreusnach AAF, West Germany Army Tower
Bayreuth AAF, West Germany Army A/G 37.00 Army Tower 17.40 Army A/G "Carlilse" Army Radar Army A/G Fulda AAF, West Germany 17.40 Heildelburg AAF, West Germany Ludwigsburg AAF, West Germany Schweifurt AAF, West Germany Babenhausen AAF, West Germany Furth AAF, West Germany 17.40 17.40

IG- National Guard ANG Air National Guard Ak-Army Reserve A/G Air to round AAF- Army Air Field AHP- Army Heliport

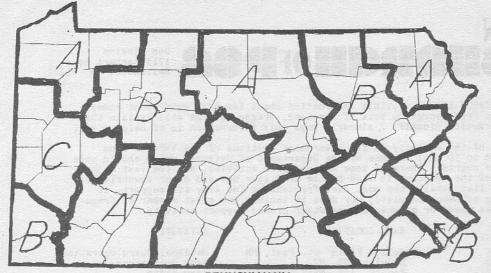
Army A/G

Army A/G Army Tower

7.40

7.50

7.50



Highway Maintenance

Statewide 47.30 Base 47.38 Mobile West 47.38 Base & Mobile East 47.14 Base & Mobile

### PENNSYLVANIA -

STATE POLICE Base Mobile A 155.58 155.79 B 155.67 155.91 C 155.505 155.85

154.755 Car to Car 42.60 Barrack to Barrack

Thanks to: Craig G. Willard G-33 Montgomery Court Narbeth, PA 19072

\*\*\*\*\*\*\*\*\*\* Kevin L. Slater 1167 Ring Street NE Salem, OR 97303 reports:

Salem Memorial Hospital:

155.34 KXC 851 Primary Ambulance and Fire Rescue Mobile to Hospital Channel 155.385 KJJ 463 Paging only 155.40 KXC 851

Salem Police Department: (both use morse code ID's)

F-3 460.075 KTB 200 Main Channel Repeater F-1 460.475 KVA 537 Auxiliary channel repeater

Marion County Fire Channel utilization:

South Marion County 154.415 North Marion County 154.16

Marion County Fire District #1 154.385

Bryan Ross 128 Primrose Chatam, Ontario N7L 4N7 reports:

Chatam City Police 142.185 Ontario Provincial Police 166.64 168.74

RCMP..... .42.84 41.82 Ontario Provincial Police 42.06

42.22

Chatam Ambulance 150.10

International Harvester: Security 163.20 Managment 457.7375

452.725 Stock Dept 475.60 454.20

Thomas J. Yingling, Jr. 221 Pinewood Road Baltimore, MD 21221 reports:

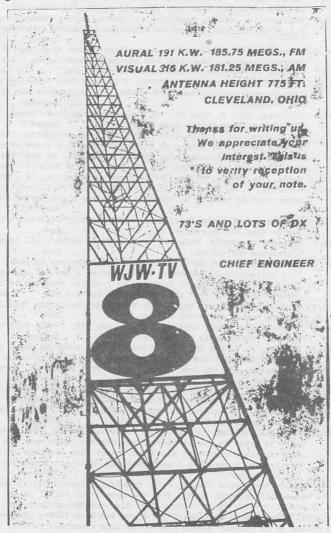
"It seems as though Virginia State Police are undergoing a change to VHF-High" 158.985 159.00 159.135 159.165....most with repeaters, and similcast with old Low Band VHF.

# Memorabilia

tay 1979

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

This month, MEMORABILIA presents a grand old QSL card of WJW-8 (now WJKW-8) in Cleveland OH, sent in by Tom Yingling, Jr. Thank you very much, Tom! Mucho gracias!!!



That's it for this month, guys. See y'all in 30, amigos. 73s, gmd MK,

Bob

# QSL CORNER

Thomas J. Yingling, jr. 221 Finewood Road Paltimore, NP 21222

FM-	OSL		Haltimore, EP 21222
CO	KRUO	95.1	Colorado Springs, Send letter in week from Ed Wittrock, Manager confirming
CA	USOJ	96.3	recertion. Also send a complete rate/ad folder. Dalton Jessup, Raymond B. Forehand, Manager verifies saying this was the longest
		OF EX	distance they have been heard. Elving
	ABBM	101.7	
ŢΝ	VTMS	95.5	Indianonlis, 2255 M. Hawthorne Ln, 46218. Letter from Norman Philips, CE "it is the most distant verification letter we have ever received."  Sawatsky
	nunk I		Kokomo, 304 M. Main, 46901. Handwritten letter from Charlie Cropper, Program Director. Pescribes his own radio experiences & state that several perople at the station are ham radio operators. Sawatsky
	WMDH		New Castle, P. O. Rox 690, 47362. 2 letters from Randy Henderson, CE "WE like to show our stations off-especially to perople who listen to us from far distances."
	MRIA	101.3	Richmond, 2301 W. Main St, 47374. Letter from Chuck Yount, Chief Operator, "It is our first letter from Canada." Sawatsky
MM	KRWG	90.7	Las Cruces, Lon: letter from Fredric Dabney, Production Director, com- firming recepti n. Dabney is a dx'er & related a story of a regular listener in San Antonio (Pat Dyer, I presume?). He also told of 2 reports from Newfoundland-I would like to know who did this!!! Dalton
ME	K000	104.5	Omaha. Pox 17W.D., 69131. Letter from Larry Selyle, CE Eddie
	мыдо	93.1	Syracuse, P. O. Fox 1212, 13201. Send me 4 FM Dial Card, obviously they never read my report, so you'll have to try a bit harder for this station.  Sawatsky
OK	KOSU	91.7	Stillwater, OK State Univ, School of Journalism & Broadcasting, 74074.  Letter from Dan Schroeder, CE. Zank
	KTEN	92.3	Ada, Box 10, 74820. Nice letter from James Lollar, CE, incuded rate card & coverage map folder.
SC	WEPR	90.1	Greenville % South Carolina Educational Televison Network, Drawer L, 2712 Millwood Ave, Columbia, 29250. Letter & network coverage map from John C, Rich, Sr. Studio Engineer in 2 weeks. Mentions he is an swl & reports that WMPR 88.1 has been heard in FL & WI. Sawatsky
VA	WCMS	100.5	Norfolk, 5600 Curlew Dr, 23502. Very specific letter from Jim Wadiak, CE, but took a follow-up report. Zank
	WFLS	93.3	Fredericksburg, 616 Amelia St, P. 0. Box 597, 22401. Report signed J. William Poole, reply in 14 days. Sowinski
W	MABB	91.7	Report & letter signed by H. Leon Drye, Jr, CE in 12 days. Sawinski
	WKEE	100.5	Huntington, 623-4th Ave, 25701. Letter from Raymond R. Thompson, Chief Engineer.
	MALM	88.9	Buckhannon, West Virginia Wesleyan College, 26201. Letter back in 26 days from Ronald E. Roth, Dir. of Broadcasting Sawatsky
WI	WLSY	95,1	Marinette, Jim Callow, CE mentions using non-ID FM95 as the station identities except for hourly legal id.  Elving
	Plwinin	95.9	Minocqua, Michael Hofmann, (Lee Michaels) writes, but wonder how I got his name to write to, as he never gives his real name over the air (I got it from a Chiago broadcast annoucing school from which he graduated-their

Reporters are: Mike Dalton, Bruce Elving, Peter Sawatzky, Richard Eddie, Neil Zank, Robert Sowinski. This was an all fm month again. With one note of tv osl, I got my second BBC-TV osl back for ch.2 48.25Mhz for North Hessary Tor. Also the 79'convention is well into the making here in Paltimore, so be looking to for info. And also I need some more osls reports to make this column go on without always having the same reporters report. 73's

newsletter) & verifies & apologies for their not answering the 2 previous

### **ALASKA MINI-TV**

### by Rod O'Connor

An unusual aspect of television broadcasting is taking place throughout the great Northland, with the growth of small 10-watt TV stations. As of November 1973, there were over forty "MINI-TV" stations on the air, scattered through-out the state of Alaska. Upon taking a look at the accompanying map, one can see that most of the stations are located over remote North Slope, and Interior sections of the forty-minth state.

Unlike commercial repeaters and translators, each Mini-TV station consists of a ten-watt transmitting unit. Each unit has had it's receiver replaced with a modulator, which accepts base band audio and video inputs.

There are two seperate systems of program origination. As of November 1978, twenty-two communities were receiving their programming via satellite. Four and a half-meter earth station antennas receive the satellite signal at each community. The satellite delivery system is funded by the state of Alaska, under a project to demonstrate the feasibility of satellite TV in remote sections. Most of the earth station dish antennas were originally installed for telephone communications, with the TV-receive capability added within the past few years.

The other system of program origination consists of individual stations receiving the programming through a system of video-tape recordings. The three-quarter inch "U-Matic" type casettes are mailed to the communities from the Alaska Public Broadcast Commission, and played back over the local station.

For the DXer, identification of some of these stations can be very difficult. The tapes which are sent out to the local stations are recorded directly off the air from commercial stations in Anchorage, as well as from Public Broadcast Stations in Bethel and Fairbanks. It is very easy to confuse the Mini-TV stations with the many commercial translators operated by the Anchorage and Fairbanks commercial stations.

On a personal note, while I was stationed aboard the Coast Guard Cutter IRONWOOD this past fall, I was watching KØ2HO at Unalaska, while our ship was moored at Dutch Harbor. After watching one show, which was played by tape, I was surprised to see a KIMO TV 13 ID, as well as network and Anchorage commercials being broadcast over the air!

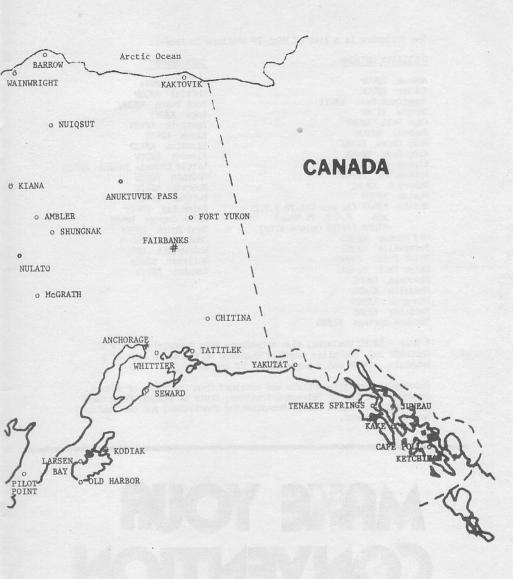
The next day I visited KØ2HO, whose studios are located in the local Unalaska School, and got to see the station in operation. There I learned the basics of the Mini-TV networks. It is not unusual at all for the Mini-TV stations to broadcast programming from Anchorage, complete with commercials and IDs over the air. It probably would be illegal anywhere else, but with the remoteness of the Aleutian Islands to consider, it is unlikely the F.C.C. would take much action.

Once again, it would be wise to remind DXers of the extreme difficulty in IDing these Mini-TV stations. A couple of points to bear in mind though: Mini-TV stations only broadcast for a few hours during the late afternoon and evening. The commercial translators usually stay on the air for much longer hours, as do the commercial stations in Anchorage and Fairbanks: Also, the Mini-TV stations usually do ID after each cassette runs out, and a new one is played. If you are one of the lucky people who does catch a Mini-TV station, feel proud that you have captured a rare station!

LOCATIONS OF ALASKAN MINI TV STATIONS

LOCATIONS OF STATIONS SHOWN ARE APPROXIMATE. POINT LAY o POINT HOPE & KTVALINA NOATAK NOORVIK LITTLE TO DIOMEDE IS. GAMBELL o SAVOONGA 0 EMMONAK CO Scale of Miles Bering Sea SHAGELUK MEKORYIIK HOLY o 0 o SAINT PAUL O SAINT PAUL o SAINT GEORGE Attu \*Shemya O Kiska Amchitka

Pacific Ocean



The following is a list of Mini-TV stations in Alaska:

### SATELLITE NETWORK

Amanak KØ7OP
Ambler KØ7CM
Anaktuvuk Pass KØ4IX
Barrow K11NN
Cape Poll KØ9NP
Gambell KØ7ON
Holy Cross KØ9NJ
King Cove KØ4HR
Kipnuk KØ7OL
Larsen Bay KØ7OO
Mekoryuk KØ9NI
Noatak KØ9NG
Nulato KØ4JF (As per Oct.78 V.U.D.
and F.C.C. TV News)

Kl2KS (AFTV8 Galena xltr)
Old Harbor KØ9ND
Perryville KØ9NK
Pilot Point KØ9NO
Saint Paul KD+HM
Savoonga KØ9HL
Shageluk KLØKH
Shungnak KØ9NH
Tatitlek KØ9NE
Tenakee Springs KlØKG

### TAPE SYSTEM

Angoon KØ2JI Chitina · KØ9NF Fort Yukon KØ2HQ Kake KØ2?? Kaktovik KØ4IU Kiana KØ4IG Kivalina KØ4IG Klawock KØ2TW Little Diomede Island KØ70S McGrath KØ2IE Noorvik KØ4IK Nuiqsut KØ4IS Point Lay KØ4IT Saint George KØ4IE Sand Point KØ4HV Unalaska KØ2HO \* Wainwright KØ4IR Whittier KØ2IM Yakutat KØ2TD

\* Note - KØ2HO Unalaska, also broadcasts over translator KØ8IW at Captains Bay, two miles south of Unalaska on the south side of a mountain. KØ8IW has a power output of one watt.

Information for this article was obtained from the State of Alaska, Governor's Office of Telecommunications; State of Alaska, Department of Education, Alaska Public Broadcasting Commission; and the Unalaska School Department.

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