

is the official monthly publication of the MORLD MIDE TV-FM DX ASSOCIATION. Published about the first of each month at Milwaukec. Make: checks payable to the club and mail to WIFDA:, Box 5001, I'm Milwaukee, Wis. 53204, USA UH'+ Samples 30¢ or equivalent for either issue. Regular edition: \$5 outside: North America. In USA, Canada & Mexico: 1 yr/\$4.50, 2 y r/\$8.50, 3 yr/\$12, 4 yr/\$15.

Oversea : Edition: \$3.50 per year or equivalent in US funds. (Five month trial: \$1.50). Special grrangements on request if wish to remit in form other than such as post; eards, stamps. Vol.2 No.7 you cash : such NOTE: to all rates \_add \$2 per year; if first: class postage desired. Glenn Hauser has tried to arrange DX tests with several stations

for the convenience of is and trops DXers on the morn of 12 Aug. 1969: KADX-105.1 IHz, Denver, Colorado probably will test. WCAL-89.3 IHz, Northfield, Linn. letter not answered.
WOI-fm-90.1 IHz, Ames, Iowa probably will test.
KSJR-90.1 LHz, Collegeville, IN. letter not answered.
WILL-90.9 LHz, Urbana, Illinois """ ×11

Wis. State FM Metwork, Wisconsin " ""

KIMEG-channel 14, Sioux City, Iowa probably will test.

Those who have not answered at press time may still do so, so watch for them. You may think his at UHF frequencies is uncommon but it is not too uncommon at all. Very few stations have been IDed but Is does

By the way, KDEN-FE and WEBI-FE said they will not test, but thanks

for the effort anyhow, Glenn.

UPCOLING LETTOR SHOWER:

July 26-31: (Aquarids) 2200-0600 local standard time(max.count 22.) Aug. 10-14: (Perseids) continuous shower but minimum(?) at 1730 LST expected maximum count of 50. Don't miss this one!

NOTE: please advise HQ promptly of any change of address. Third class is not forwarded and is therefore returned to HQ for an additional fee. Remailing fee is 30¢. College students and military beware!!

I don't recall if I mentioned previously that there ere 2 new lo-band TV stations in Iceland on channels E"3 and E4. Roger Bunney has already had some luck with them in Ingland. June OST magazine tells of the aurora reception of BBC-TV in MY state and grammada a a manana Montreal on Feb. 2nd, so Iceland is enother Whauroral DX target for us.

Cover this month by Bill Heusnann.

Elsewhere in this issue there ap-Dears a DK report form which the editors have requested that their contributors use. Some DX reports 

Some of you may have noticed the scarcity of picture pages lately. Our usual source of electronic stencils has been negligent in the maintenance of their machines and subsequently we have been unable to obtain electros of good quality for the fotos we have, & we are running out of fotos, too. Fotos of poorer quality abound but are unprintable. So we shall have to seek a new source.

WTFDA STAFF:

Publisher-President -F.S. Dombrowski Publishing Staff -Gary Olson Morrie Goldman Bill Heusmann Dave Janowiak

GARY A. OLSON, APT. 107 5901 W. BROWN DEER RD. BROWN DEER, WIS.53223 STATIONS OPERATING (AS OF JUNE 4, 1969) UHF ETV 100 VHF ETV 77 UHF Com VHF Com Total Authorized Stations On The Air 860 New Stations Reported On The Air: KDNL-TV, ch. 30, St. Louis, Mo., reportedly took the air June 8th New Target Dates Reported: WAEO-TV, ch. 12, Rhinelander, Wis., will return to the air Aug.15th \*ch. 28, Salisbury, Md., (Md. Center for Public Broadcasting) expected on by early 1971 \*ch. 68, Louisville, Ky. (Kentucky ETV Network) due on by fall, 1969 \*ch. 54, Covington, Ky. (Kentucky ETV Network) due on by fall, 1969 Miscellaneous Changes Reported: WHTV (TV) ch. 24, Meridian, Miss., becomes primary NBC July 1, 1969 KWID-TV, ch. 41, Tulsa, Okla. -- delete CP and call letters as permit was cancelled by FCC due to station's unwillingness to start construction WCCB-TV, ch. 18, Charlotte, N.C., will raise power to 5-million watts in late 1969 WDHO-TV, ch. 24, Toledo, Ohio, primary ABC affiliate as of June 15. FCC COMPLETED ACTION New Grants: Jacksonville, N.C., ch. 19 (L and S Broadcasting) 796 kw. Fort Smith, Ark., ch. 40 (KFPN Broadcasting) 48.1 kw. Call Letter Changes: KMBO (TV) ch. 18, San Bernardino, Calif., granted KIHP-TV KCRL (TV) ch. 4, Reno, Nev., granted KCRL-TV WBAU-TV, ch. 49, Buffalo, N.Y., granted WBBU-TV \*\*\*\*\* \*\*\*\*\*\* New Call Letters Issued: \* THANKS TO: Salem, Ore., ch. 3, granted KVDO-TV \* B. Grant \*Demopolis, Ala., ch. 41, granted WIIQ (TV) D. Pomeroy Bethlehem, Pa., ch. 60, granted WKAP-TV M. Goldman Victoria, Tex., ch. 25, granted KAVU (TV)
Marion, Ohio, ch. 68, granted WMOS-TV
Reading, Pa., ch. 51, granted WRPA-TV (for contrib- \* uting to this \* \* month's column)\* Other Changes Allowed: \*\*\*\*\*\* wBBM-TV, ch. 2, Chicago, Ill., ERP to 35. 4 kw., ant. to 1350' (John Hancock Building) KNEW-TV, ch. 32, San Francisco, Calif., ERP to 1016 kw. WMCN-TV, ch. 24, Macon, Ga., ERP to 430.6 kw. WMAQ-TV, ch. 5, Chicago, Ill., ERP to 42.7 kw.- antenna to 1290! (John Hancock Building) WXEX-TV, ch. 8, Petersburg, Va., ERP to 296 kw.

WBFF (TV) ch. 45, Baltimore, Md., ERP to 1425 kw. - ant. to 900'

KGSL-TV, ch. 24, St. Louis, Mo., ERP to 1094 kw. - ant. to 1100'

WPTZ (TV) ch. 5, Platzburg, N.Y., ERP to 4.27 kw.

WTAP-TV, ch. 15, Parkersburg, Y.Va., ERP to 16.5 kw. - ant to 620'

KFRE-TV, ch. 30, Fresno, Calif., ERP to 347 kw.

WRIV-TV, ch. 55, Riverhead, N.Y., ERP to 41.8 kw.

KSL-TV, ch. 5. Salt Lake City, Utah, ERP to 33.9 kw. KSL-TV, ch. 5, Salt Lake City, Utah, ERP to 33.9 kw. ACTION APPLIED FOR OR REQUESTED

Applications For New Stations:
\*Louisville, Ky., ch. 68, (Kentucky State Board of Education)
1035 kw.

FCC\_NEWS\_AND\_DATA\_\_\_TV\_\_\_/ PAGE T/O /----JULY, 1969\_

TIDBITS AND MISCELLANEOUS ITEMS OF INTEREST TO TV DXERS

# Kentucky, Southern Indiana, and Southern Illinois DXers should be able to get a better signal from Louisville's WFPK-TV, ch. 15 in the near futire. The station is putting up a new tall tower (located in Indiana) which will allow a fantastic improvement in coverage.

# Of all the allocations left in the Top 100 TV Markets, only 81 com. are still left unallocated. All 264 VHF commercial outlets are allocated and are on the air. Of the 298 UHF commercial outlets, 198 are either on the air or authorized to take the air and 19 others have been applied for. Despite the fact that UHF is growing slowly the biggest markets leave little room for growth with

only a few commercial channels left for expansion.

# More and more long-entrenched VHF station operators are coming under fire for mis-deeds (isn't it about time - hi) and trouble surrounds a number of station renewal requests. WHDH-TV has been denied a request for renewal of its license by the FCC; the FCC recently added that no reconsideration will take place. WBBM-TV. Chicago, will retain its license, but the station was severely criticized for falsely depicting a marijuana party as a real (not arranged) news event. WPIX (TV), New York has been condemned for falsifying newsfilm clips as taking place in particular "hot news" locations when they were actually old clips of scenes taken in different places. KRON-TV in San Francisco is under fire as well. Adding fuel to the roaring fire are several applicants interested in capturing the license to operate new stations on these existing channels. If the trend continues a lot of shake-ups in television are anticipated.

# Capital Communications Corporation (headed by UHF buff Villiam L. Putnam) has indicated interest in the acquisition of both MJZB-TV, ch. 14, Worcester, Mass., and now dark WENS (TV) ch. 22,

Pittsburgh, No purchase has as of yet taken place.

TV GUIDE AND TV PROGRAM LISTING EXCHANGE - ADDITIONS The people listed below have requested their names be added to our popular NTFDA "TV Guide and TV Program Listing Exchange". To participate all you need do is send your name and the listing you can exchange with others to headquarters. Those interested will contact you for a copy of your edition; in return they should shpply you a copy of their local TV Guide edition or local program listing.

name and address Richard Clark, 144 N. Dithridge, Pittsburgh, Pa. 15213

Randy Miltier, 1760 Whitwood Lane #3, Campbell, Calif. 95008

Frank Merrill, Jr., 10673 Saline-Milan Rd., Milan. Mich. 48160

edition or listing

- (1) Pittsburgh edition TV Guide
- (2) Cleveland edition TV Guide
- (1) San Francisco metro edition TV Guide
- (2) N. California edition TV G.
- (1) Louisville Courier Journal-2
- (2) Miami Herald 2
- (3) Grand Rapids Press 3
- (4) Minneapolis Trib 1
- (5) New York Sunday News 4 (6) Rochester Times Union -
- Rochester Times Union 3
- Houston Post 3
- (8) Milwaukee Journal- Vis 8
- (9) Detroit- Vindsor TV Guides

We expect an updated complete list of all TV listing traders will be published in a month or two.

Stations operating as of May 7,1969) COMMERCIAL FM. 1,988 Total stations MARK L. LEWIS EDUCATIONAL FM. 371 the air: 2,359 224 Honiton St. FCC COMPLETED ACTION (FINAL ACTIONS) Downsview, 475, Ontario Pocatello Idaho-(potatello Bc.Co.) 93.7mc. 29 kw. Ant 14 ft aat. \*Glen Ellyn Ill., (Glenbard West High School Dist. #87) 88.5mc.3kw ant 294 aat correction: Know Ind., (. Kankakee Valley Bc.Co.) 99.3 mc. 3kw ant 294 aat. \*Bemidji, Minn. (Bemidji State College) 91.9 mc. .01 kw 90 aat. 10 watts. Columbus Neb. (City and Farm Bc. Inc) 93.5 mc. 3kw 252 aat Murphy N.C. (Cherokee Bc. Co.) 103.9 mc. 1.413 kw 413' aat. Lafayette Ind. (Tiprad Bc. Co.) 92.7 mc 165 aat 3 kw. \*Oneonta Ny. (Harwick College) 89.5 mc 10 w minus 107 ft aat. Ada Okla. (Oklahoma Bc. Co.) 93.3mc 100 kw 630'aat \*Springfield S.D. (Southern State College)88.5 mc 10 w 85: aat Geneva Ala. (Geneva County BC.Co) 93.5 mc 3kw 199.75: aat Gulfport Miss. (E.O. Roden and associates inc.) 102.3 mc 3kw 285' aat Jefferson Ciey Mo. (KLIK RADIO 950 inc) 106.9 mc 100 kw 215 ft aat. Mercer Pa.(Fm-104) 103.9 2.9kw 250'aat Athens Tenn. (3 J's Bc. Co) 98.3 mc. 3 kw Ant. 156' aat Ponce P.R. (Voice of puerto rico inc.) 105.1 mc 5kw Ant. minus 160' aat. \*Urbana Ohio(Urbana City Board of Education) 91.7 mc. 1.43 kw ant 95! aat El Paso Tex. (Sun Country Bc. Co) 97.5 mc 60 kw ant 1080' aat \*Killeen Tex. (Central Tex. College) 91.3mc 50 kw 1,170 act Initial Decisions -----Des Plaines Ill. (Edward W. Piszczek and Jerome Westerfield) 106.7mc 50kw 135 aat Webster City, Iowa (PBW BC CORP.) 95.9 mc. 3kw 222 aat. ----Starts Authorized----KBRI-fm Brinkley Ark. Authorized program operation 102 mg. Erp 3kw ant 190 at KPOC-fm Pocahontas Ark 103.9 mc ERP 3kw ant 420 aat WCCO-fm Minneapolis 102.9 mc ERP 2.7 kw ant 420' aat KWFC(FM) Springfield, Mo. 97.3 mc ERP L)) 100 kw ant 480 at KWYN-fm Wynn Ark 92.7 mc ERP 3kw 300 aat WVTS-fm Terre Haute, Ind. 100.7 mc Erp 41 kw 135 aat KOYN-fm Billings Mont. 93.3 mc Erp 26.5 kw Ant minus 68' aat \*KCHO-fm Chico, Calif. 91.2 mc. TPO 10 w . 99 \* KVHS-fm Concord " KRCB-fm Council Bluffs Iowa 98.5 mc ERP 109kw Ant 175' aat KYSS-fm Missoula Mont. 100.1 mc Erp. 2.85kw ant minus 180' aat WBBY-fm Westerville Ohio 103.9 mc 2kw 360' aat -----CALL LETTER CHANGES-----WENE-fm Endicotte Ny. reqsts WMRC(FM) WWOM-fm New Orleans rq WZRD(FM) KPOP-fm Roseville Calif. " KPIP(FM) KACO(FM) St. Louis rq. KGRV(RM) WNEM-fm Bay City mich. gtd.WGER-fm WMSH-fm Elizabethtwon pa. rq. WEPN-fm \* KBMJ-fm Univ. of Missouri St. Louis gtd KWMU(FM) WIBG-fm Philadelphia rq WPNA(FM) WKLF-fm Clanton Ala. rqstWEZZ-fm \*WVMS(FM) Chattanooga rq. \* WKES(FM) KUDU-fm Ventura Calif rq. KGUY(FM) KEBE-fm Rg KOOI(FM) WFMI-fm Montgomery Ala. gtd WFMI(FM) WGAU-fm Athens Ga. gtd WNGC(FM) KIGS(FM) Oak Park Ill Gtd WGLD(FM) WHIR-fm Danville Ky. Gdt WMGE(FM) NEW CALL LETTERS ISSUED---kntu-fm SOUTHERN ill. Univ. gtd WSIE(FM) North Tex. State Univ. Denton Tex. rq. Shelbyville bc co. Shelbyville ill.gtd WSHY(FM) HARAISON\*WASHINGTON School corp Gaston Chester County bc. Chester S.C. gtd WCMJ(FM) Tex Rq. wdhs(fm) VERMONT Tech. College Randolph Conter Vt.\*WVTC(FM) Univ of Hawaii Honolulu rq \*KTUH(FM) Richey Airwaves inc. New Port Richey, fla. rq WGUL-fm John Carroll Univ. Gleveland rq +ARDEN CITY bc.inc Missoula Nont. gtd KYSS-fm \*WJCR( \*WJCR(FM) Dawson Bc.co Dawson Ga rq. WDWD-fm Kankakee Valley Bc. co Knox ind. rq WKVI-fm

Guilford College Breensboro N.C. rq.\*WQFS(FM). Sun Country Bc. El Paso Tex rq.KINT-fm

FM-Park Lane Inc. Del Rey Oaks Calif. Gtd. KPLN(FM)

Clembard West High School Glen Ellim rq. \*WGHS (fm)

OTHER CHANGES

\*KECA(FM) Phoenix ant to minus 31'aat erp to 2.95kw

WFFM(FM) Bakersfield Calif Erp to 48 kw ant to 290:

KUTE(FM) Glendale Calif. Install vert ant Erp to 640w Vert, 630w Horix, ant 2860'

WBIV(FM) Wethersfield Ny. Circular pol ant, Erp to 32 kw, ant 479'

WJIV(FM) Cherry Valley Ny. Circ.pol. erp 7.1 kw ant.1800:

WWJ-fm Detroit ant to 500'

WLAV-fm Grand Rapids Mich. Erp to 28 kw

KDLO-fm Watertown S.D. to 100 kw

KDJW-fm Amarillo Tex erp to 54 kw

WTID-fm Norfolk, VA erp to 9.1 kw,350 vert pol

WBMD-fm Catonsville md.erp to 50 km horiz,5kw vert, ant to 245

WHLS-fm Port Huron Mich erp to 3 kw

WLIR(FM)Graden City Ny. Erp to 850w ant to 300'

WKBN YOUNGSTOWN ohio (aux xmtr)25kw ant to 540'

KEFM(FM) Nacogdoches Tex erp to 100 kw ant to 360'

WREP(FM) Santa Clara Calif to 50 kw, ant to 500'

\*WUSF(FM) Tampa Fla to 85kw horiz &28.5 kw vert.

\*WFCR(FM) Amherst Mass to 35 kw Erp ant to 720'

WLLH-fm Lowell mass. erp to 32 kw

WFPG-fm Atlantic city ERP to 50 kw ant to 300' ACTION APPLIED FOR OR REQUESTED----

\*Riverside Calif 89.7 mc 1.405 kw 72.7ft aat Sarasota Fla. 105.5 3kw 222'aat Humboldt Iowa 97.7 3kw 288' aat Fairment Minn. 106.5 100 kw 217' aat Auburn Netraska 105.5 3kw 300'aat Ellenville Ny. 99.3 3kw minus 316'aat Princeton W. Va. 95,9mc 3kw 286'aat Tucson Ariz.92.9mc 28 kw 86'aat \*Van Nuys Calif 89.7 lowatts 105 aat

\*Alamosa Colo.90.9 50 kw 287' aat Peoria III. 105.7 mc 50 kw 287'aat Naples Fla. 93.5 3kw 300'aat Turney Calif 106.1 mc 100kw 1,055' aat Great Falls Mont. 98.9 mc 25 kw 45'aat.

HERE IS A LIST OF SCA CHANGES \*\* A NEW FEATURE (hopefully) of this COLUMN KABL-fm San Francisco gtd mod.of sca to make changes in programming. WWGO-fm Erie Pa gtd SCA on 67 kc WKWK-fm Wheeling W. Va Gtd SCA 67kc WLEO-fm Ponce P.R. Otd. mod of sca to change freq from 67 kc to 41 kc for program relay and 67 kc for background music service. WNOK-fm Columbia S.C. gtd change freq to 67kd GTD on 67 kc for following stations: WONF(FM) PENSACOLA FLA, WQNZ NACHEZ MISS. WOPA-fm OAK PARK ILL, WELO Tupelo miss. KGMO Cape Girardeau mo., WBCO-fm Bucyrus Ohio WFLA Tampa Fla gtd sca 67 kc WKAQ-fm San Juan P.R GTD for sca 67 kc.

FOR THOSE OF YOU BUGGED BY THE TORONTO 24/hr/day stations, CHUM-fm 104.5 mc \$ leaves the air for maintenance Sunday nights-Monday-mornings from lam to 3, (sometimes till 2), CKFM-99.9 (200kw) goes off on Wednesday morings from 3 to5. Lyons Kan 105.5 3kw 284 aat

\*Senatobia Miss. 89,8 2.58 ke 147'aat. Hammondsport Ny. 98.3mc 2kw 355 aat

\*Bloomsburg Pa. 88.1 mc 83.7w minus 75 aat

\*Pullman Wakh. 90.7 39.48kw 1,219: aat Bath Me. 95.3 3 kw 173.5 aat

\*Wingate N.C. 89:1 mc 5.65kw 264.2 aat Oregon City Ore. 106.7 100kw 550' aat

\* Houston 90.1 47kw 432.92' aat

\*Milwaukee 89.9 mc 24 watts 896 aat Mobile Ala. 94.9 mc 30.7kw 134.0 aat Pine Bluff Ark. 94.9 mc 25.2 kw

\*Ames Iowa 91.9 10watts 100 aat

Following fm's notified FCC that they are now muting in stereo: KBUL MESA, ariz, KFAB OMAHA NEB. KFMW--San bernadino calif, kgbc-fm Galveston tex, KRMD-fm Shrevesport la, Ksyn Joplin mo., kwbe-fm Beatrice neb; \*wbky-fm Lexington ky; wcco-fm minneapolis minn; wdas-fm phillie; wdhf-fm chicaco; whcu tthaca ny; whlf-fm south boston va; wjoy-fm burlington vt., wldr-fm traverse city mich; wmma-fm gretna va; wnor-fm norfolk va; wopa-fm oak park ill:

Over the past 2 weeks, I have heard WWGO Erie Pa. 103,7?) whom I beleive is a new station, they sign off on Saturday nights at 1 am EDT1 and xmt in stereo(so they say) When monitered, they were simulcasting.

THAT'S ALL FOR NOW, 73's and lots of DX

mark Lewis

Estill Thone Hall, Jr., alias WPE4GJC, is a student in astrophysics at the University of Kentucky. He also has time for TV DX on Zenith 23" and Zenith 25" color sets. Expect we'll receive a lot of good DX reports from this 18-year old addition to VTFDA; there aren't too many VHF's around to clog the tuner in Estill's area!

Speaking of younger members, <u>Stan Garfield</u> of Tenafly, N.J., is only 16. Stan is active on BCB and SW as well as TV. His call letters are WPE2QlQ. Stan is also a tapesponder ("cassettes only").

Tom Henry of Staten Island, N.Y., gives us an unusual report. Tom says "I first became interested in TV DX when I heard a letter about TV DX from Mark Lewis broadcast over Radio Canada! (Mark, did you know about this?)

We were overjoyed when King Schafer former American Ionospheric Propagation Association bulletin publisher wrote recently, King enclosed a memorable slip of paper -- a rundown sheet for the TV-FM DX convention to be held for AIPA at the home of Richard Miller in Royal Oak, Mich., on July 29 and 30, 1961. King notes "My stomach has finally repaired itself from an excess of beer, and 'onion rings' Hi!" (referring to one of the main course items of the weekend).

With the good news, however, came the bad. It is with our deep regrets that we must report the death of Art Collins as this passage from King's letter explains: "Art Collins passed away last February after a period of illness. I was out of touch with him about seven years prior to his death, but his memory and all the past club doings made this event a sad one for me."

For those who never had the privilege to know him, we have lost a fine friend. Art provided the backbone of the AIPA for many years. Despite his burning desire to retire from the Presidency he offered is services for several years because no one else was left to do the ob. Between them King and Art virtually carried the headquarters and publishing end with practically no assistance. Finally the burden became too overwhelming and the presidency was shifted out of New York to a new publisher -- the shift sounded the death knell for AIPA as the club fell shortly after. We're sorry to say that Art never had the opportunity to see the new organization - WTFDA - fill the place of AIPA which was so sorely . missed for so many years. We'll never forget him.

For those who care to drop King a line his address is 360 Zimmerman Blvd., Kenmore, N.Y. 14223. Although King hasn't been active on the bands since 1961 he adds "...if I ever get going again you'll get my 34.50 (one case of beer money) -- and I would like hearing from yourself or any former AIPA'ers again."

On that note we'll hang out the mailsack for another monthly pickup. Hope we'll hear from more of you this summer!

Editor ----- P.O. Box 5001 

WTFDA is attempting to locate DXers of the past. If you know where these individuals can be reached, please send us a card with their name and present mailing address. Drayton Cooper, Box 472 Decatur, Ga. (as of 1964)
Arthur Cordts, Glendale, Brooklyn 27, N.Y. (as of 1957) 

Another big month for YTFDA -- several new members, a lot of DX, and a successful convention. Checking back we see the following have joined the UTFDA"good guys" in the past few weeks:

New Members In June Bob Seybold, RD #2, Bennett Rd., Dunkirk, NY 14048 Tom Henry, 96 Sturges St., Staten Is., NY 10314 George Spachman, 7353 N. Rogers, Chicago, Ill., 60626 Roger Brown, 624 Evergreen, East Lansing, Mich. 48823 Estill Thone Hall Jr., McDowell, Ky. 41647 David Hanson, 111 Emery St., Eau Claire, Vis. 54701 Tom Leu, 6653 N. Oketo, Chicago, Ill., 60631 Joseph Gallagher, Box 421, Ipswich, Mass., 01938 Abdul Rehman, c/o Rajasthan Industries, Falma, India James N. Pizzi, 3817 Angeles, Santa Maria, Calif. 93454 L.J. Taylor, 10329 W. Washington St., West Allis, Wis. Larry Addison, 150 Rickard Rd., Fridley, Minn., 55432 Renewals Received Ray Terlaga, (2 years)

Also we forgot to mention last month that Clinton Day and Hal Schrock had subscribed for 3 years and Oliver Ferrell for 2 years!

We're happy to say that we've received several favorable comments about the mailbag feature. (As a matter of fact some wondered why we didn't start such a column a long time ago.) With that encouragement we're proud to say that the mailbag will continue to be a regular column in VHF-UHF Digest -- that is, as long as you continue to remember our address: P.O. Box 5001, Milwaukee, Wis. 53204.

Now to shuffle through the month's mail:

......One of America's long lost DXers has checked in with WTFDA. Bob Seybold, one of TV DX's great ones has signed up for a year's worth of membership. Bob's occupation is radio-TV antenna sales and service. Although he hasn't brought his log up-to-date lately Bob's total logged is around 400. He says "Sure glad to hear about this club. My interest in DX never really died but due to many circumstances I can't spend time DXing as I did years ago when in AIPA. My business, family life, family friends keep me well occupied. However my business being the TV repair business I get to notice DX openings and catch some DX while working".

Our "polarized pal" Joe Gragg of Palestine, Tex., says he's going (gone) to the Army for two years as of June 4 but he adds "...all club bulletins will follow me as I go and I will try to remain active

wherever I am in Vietnam". (Good luck Joe -- our hopes will be with you)
It was fun to see Bill Eckberg at the past VTFDA convention. Bill, who says he hasn't been active in DXing for several years, was last seen climbing a 40' length of Rohn tower dragging a 9-foot parabolic

UHF antenna behind him! (hi!)

<u>David J. Hanson</u> of Eau Claire, Vis., is a surprise addition to the membership. Dave formerly DXed from Vashburn, Vis.; his log is stuck at 171, but he \_ notes he'll be back on the bands in 1970 when his new house on the highest hill in the county is finished. Dave's call letters are K9ZVZ. Besides Radio-TV DX he likes bird watching (he'll make a good pen pal for Bedford Brown!) and photography.

## EASTERN TYDX

Morrie S. Goldman WA9RAQ 8046 South Euclid Avenue Chicago, Illinois 60617

For all television reporters east of the Mississippi River .... JULY .....

August Deadline: July 15

This month has provided a good deal more reports and DX than last months column, but things still aren't stacking up to, or even near, last years great season. In all fifteen reporters checked in this month, and of that total four were from new members giving their first reports. We hope more new members will do likewise and report your activities.

In the future, rather than cutting news from DXers, (i.e. new gear, local news, etc.) this material will be forwarded to the new"DX Mailbag" column. Details regarding UnID stations are forwarded to Bill Heusmann for inclusion in the "CCI" column, and finally all station news is forwarded to the appropriate FCC or DOT news editor. So if you notice that a part of your report isn't there, look around the Digest— it may be in another column.

Es was reported on a total of eight days from last deadline to June 16. Most of the skip seems to have appeared from 5-22 thru 5-28 when Es was reported on six of the seven days. Other Es openings occured on 6-14 and 6-15. Aurora also made a showing this month; reported on 5-14 and 5-15. Trops openings of good magnitude developed on a number of occasions. Bill Heusmann of Steger, Illinois reported lightning scatter on 5-7 and 6-4. Details are in Bill's report. So with the usual MS activity we have five propagation modes represented this month!

Roger H. Brown, 624 Evergreen, East Lansing, Mich. 48823 I'm a 27 year old professional broadcaster, who's had one eye on TV DY since pop bought a set back in 1952. So, on to my report.... Mid-Michigan DXing improved much during the last week in May. Those slow-moving cold fronts produced a couple of mild trops sessions earlier. 5-5, 0715 trops to the east with WIIC-TV (11) Pittsburg edging past WTOL. 5-3,4,5,6, and 14 produced good reception on all channels within 175 miles to the SE. Nothing spectacular. Had fairly good trops on 5-19 and 20. Noted CHCH-TV (11) Hamilton, Ont at Oll5 on 5-20. 5-24, first good E's. Followed one session from East to West, with UN-ID ch 2 (NBC, end of BB game) at 1745, UN-ID 3 (ETV, probably WEDU) at 1758. Then WBRZ-2 Baton Rouge at 1925, WEAR-3 Pennsacola 1930, WWL-4 New Orleans 1930, KBTX-3 Bryan 2000, KPRC-2 Houston 2015, UnIII.2 2310 (Probably KCKT), KWGN-2 2330, KNOP-2 North Platte 2330. 5-25: Strong trops west, no ID (my IHF attn didn't become emplaced until 5-28), then KFDX-3 Wichita Falls at 1200, KNTD-2 Midland at 1230. 5-26: KDKA trops 0530. WSTV-9 Stuebenville 0535. Good trops SE until about 0930. 5-27: DKA-2, WSTV and WTRF-7 Wheeling at 0620. Also, WIIC-11 and WJW-8 at 0530 with a fantastic signal in beecotiful color; WLBZ-2 Bangor 1700, CFCM-4 Quebec City, 1750, CJBR-3 Rimouski 1801, CBFT-2 Montreal, KETS-2 Little Rock 1930, KBTX. 5-28: 1030-1300 KWGN-2, KOA-4 Denver, 1900 CKCK-2 Regina, thru 2245. Also UnID-2, Twins BB (tent KDIX). Antennas here are S & A Electronics exclusively. AT-31 for vhf; UBW-36 for uhf. Two drawbacks: antenna height is restricted, and DXing is done on a relatively beat-up 1966 GE color portable (10 inch. Someday, I'll get everything together! (Welcome to WTFDA Roger. It looks like you captured about all the Es that May had to offer! MG)

Bill Grant, 16 Goulding Street, Worcester, Mass. 01609 (EST)

5-24: 0735 WMOC-16 Slaisbury, Md. Trops, 0735 WPHL-17 Philadelphia trops, 0745 WIBF-29 Philadelphia, 0745 WKBS-48 Philadelphia, 1630 WREC-3 Memphis, Tenn. Es, 1700 WPSD-6 Paducah, Ky. Es. 5-25: Es: 1930 WLBT-3 Jackson, Miss. 5-27: Es: 1800 CKPR-2 Port Arthur, Ont. 1800 KTCA-2 St, Paul, Minn., 1815 KDAL-3 Duluth, Minn., 1905 WBAY-2 Green Bay Wis. 5-28: Es: 1830 WEAR-3 Pensacola, Fla., 2000 WTHS-2 Miami, Fla.

Fred Nordquist, 302 Sandra Lane, North Syracuse, NY 13212 (EST??)

Finally there was some TV DX noted in Syracuse area. Total logged now up to a meger 17, with my first 5 stations via Es using rabbit ears. Down to DX: 5-24: Es opening on chs 2-4, but no IDs between 1700-1745. 5-27: Es to west. KFEQ-2 St. Joseph, Mo., ID at 1902, 1906 KCKT-2 Great Bend, Kans., 1910 UnID bars CCI on local WSYR-3, 1930 WDAF-4 KC, Mo. 5-28: Es to S. Fla. WTHS-2 Miami, ID at 1900. 1901 - 1900 UnID-4 CBS. WESH-2 Daytona Beach, ID at 2000, then announcement to viewers of TV interferance due to atmos. CX, Hi. Es fadeout shortly thereafter. These are only Es openings noted thus far this year; very poor indeed. I should have the deep fringe log-per ant. set up in about 3 weeks, when we'll be completley moved into our house that we can call our own. 73 (We'll be looking forward to your DX results with the new antenna, Fred. Good luck in new DX location! MG)

Frank Wheeler, 6589 Wattsburg Road, Erie, Pa. 16509 This has been the worst spring for TV DXing in a long time, but I rovd the following: 5-19: 9PM trops WPBN-7 Traverse City, Mich (338), 5-20: 5:40AM trops WTHI-10 Terre Haute, Ind (441) (New - and nice letter verie in 4 days), 6:25AM WFBM-6 Indianapolis, Ind. (357), 5-24: (First Es of Year): 9PM WKY-4 Oklahoma City, Okl. (1040), 9:25PM KCKT -2 Great Bend, Kans. (1015), 11:55PM KTVS-3 Sterling, Col. (1188). 5-25: Es 8:44PM KARD-3 Wichita, Kans. 953, KCKT-2 (again at 8PM), 5-28: Es 9PM KNOP-2 North Platte, Neb. (1066). 5-30: Trops WDHO-24 Toledo, Ohio (185) (New). 2 new thus far this year and 1 new verie bring my total up to 218 rovd with 187 veries. "Getting back to the reports in the Digest, I like to see the mileages given of the stations rovd; it makes it a little more interesting. I realize that takes up a lot of extra space, but maybe the new ones roud by the various ones the mileages could be given. Just a suggestion. Sure hope skip is a lct better in June than in May. I bought myself a used set (1965 23" Zenith, ) it seems quite good on UHF, better than any I've ever had, now to get a good UHF aerial." 73s Frank Wheeler. (Thanks for your comments, Frank, they're always welcome. As per your request I will include mileages when they are included in a report. To conserve space they will simply be given as as a number, such as in your your report. My main objection to including mileages was not really due to the space aspect, but more to prevent use of some distance figures that are nowhere near correct and often misleading. In the past some mileage figures have been given in reports that would make them records, but when the distances were actually checked, its been found that some weren't even close. However, on a trial basis I'll give it another try. MG)

Richard Clark, 144 North Dithridge Street, Pittsburgh, Pa. 15213 (EST??)

Greetings DXers! This will be my first report to the TV side. I really had a good time at the convention meeting Morrie Goldman, Bill Heusmann, Mark Lewis and the others. It

was well worth going. This month is all trops; 5-12: WGAL-8 Lancaster Pa. and WXEX-8 Petersburg Va. @ 2200, WTVN-6 Columbus Chio vs WJAC-6 Johnstown Pa with 10kc offset, Is CFPL-10 London Ont. 20kc offset with WFBG-10 Altoona? Does any one have a list of offsets for Canada? Also WHTN-13 Huntington W. Va. vs WSPD-13 Toledo Chio with a 20kc offset. 73's, Richard Clark. (Welcome to the club and the column, Rich. It was good meetyou at the convention. A Canadian offset list will be included in the WTFDA station list when released. MG)

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

The skip season opened here on the fifth anniversary of my first skip (5-23-64). However, this time the Es remained UnID. Trops have been good, and North Carolina came thru again with the help of the 6ER5 booster. 5-15: Trops WGAL-8 (120), WAVY-10 (270), WTOP-9, WBAL-11, WJZ-13 (all 180). 5-23: trops WGAL-8, WXEX-8 (290), WAVY-10, WWBT-12 (290), WJZ-13. Es: 2020 -0- offset on chs. 2&3, 10kc on 4&6. 5-24: Es 1735 Strong Es CCI on chs.2-6. 5-27: Es 1930 First stable Es: KUSD-2 rolled in for a new state. 5-29: Es 2113 10kc CCI on ch 2. 6-3: Es 1730 10kc offset on ch2, NBC pgm (WESE); educational UnID on ch.3 (WEDU?). 6-6: Trops o612 strong -0- offset on ch7 from the south. TP sliding over WABC (running a dead carrier at the time) (WITN?) WNHC-8 (80) local quality. WTOP-9, strong signal WNCT-9 (400) w/tp came in well to weet (WNCT-9 is southhere, but so is WTOP.) It was only weak CCI without booster. WAUY-10 was in well; WBAL-11 had 10kc CCI (probably WTVD-11, NC) WWBT 12 had -0- offset CCI (WPRI ?). 1800 WTEV-6 (100) was in better than local WFIL, from 2½ X the distance. The trop opening is not dead yet, so I hope to have more to report for next time. 73's Jerry.

Dave Pomeroy, 3516 Lansdowne Dr., Apt.B, Lexington, Ky. 40503 (EST)
5-21: Trops 8AM WHIS-6 Bluefield, W. Va. 5-25: Es 11PM KTWO-2 Terre Haute, Ind., 5-27
trops: 7:30AM WSIX-8 Nashville, Tenn., 7:40AM WLBC-49 Muncie, Ind. 5-29: 6:55AM WHTN-13
Huntington, W.Va. 6-7: 12:30AM WKEF-22 Dayton, O.; WKTR-16 Kettering, O.; 1AM WLBC Muncie
Ind.; WTOL-11 Toledo, O.; WSBT-22 South Bend, Ind. 6-8: 8AM WTVW-7 Evansville, Ind.,
IISH-8 Indianapolis, Ind.; 8AM WTHI-10 Terre Haute, Ind. There have been numerous other
trop reception from points in Chio and Indiana (Indpls., Columbus, etc.) that are not included because they have become nothing unusual. I evidently missed out on a good Fs
opening on May 24 & 25 when I was in K.C.. Although, I did get in on the tail end of
the opening; a friend from Shelbyville, Ky., reported KOB-4 on the 24th and other low
band V's all day long. Sorry about not making the convention. Dave. (Its too bad you
missed the convention, Dave, but there's always next year and the ANARC convention this
year hosted by Wayne Plunkett! MG)

Gary Olson, 5901 W. Brown Deer Rd., Apt. 107, Brown Deer, Wisc. 53223 (CST) 5-4: evening trops: WMKG-54, WNDU-16, WHA-21, WSBT-22, WCEE-23, WCIU-26, WKOW-27, WSJV-28, WFLD-32. Also sync bars and barely visible PETMA TP on c. 60 - tent.-WLXT-60. 5-19: Unusual evening. Ferdie called me in late aftn to say that he was getting great UHF to east from Chio. I turned on the set and couldn't get anything at all. Since Ferd and Dave Lanowiak are on the south side of Milw. (abt 10mi. from me) I conclude that there must have been some odd shaped high pressure front which includes their locations and not mine. 5-20: eve trops: WMKG-54, WLXT-60 (positive for a new station), WCIU-26, WFLD-32, and UHF stations from Rockford, Madison, South Bend, etc. 5-24: Es: 1st openinf of season. 8:30PM ch2 NBC Apollo pgm on moon pic.-- strong signal but faded by ID time. 5-25: Es ch2 at 10:35AM and in aftn; no IDs. 5-26: trops on all bands - short range. WPBN-7 was the only stranger logged. 5-27 skip in eve on ch 2, 7:20PM-8PM. No IDs.

Gary also reports an addition to his Barrington log: 5-29: late afth logged: WLXT-60 (new) - signals so strong it cast image on ch 45. WCAE-50 w/nx pgm.

Rod Luoma, 15437 Ashbery Park, Detroit, Mich. 98227

-19: Proved to be one of the better trops openings of the year for me with 25 UHF stations thru the snow barrier. At one time three ch16 signals were trying to outdo each other. New was WCMU-14 from Mt. Pleasant. Also new was WEHT-25 Evansville Indiana at about 375 miles. Excellant video signals were roud from WSBT-22, WVIZ-25, WAKR-23, WUAB-43, WKBF-61 and WLWI-13 at South Bend, Cleveland, and Indianapolis. In fact WLWI-13 was so good I thought it was WPSD-13 Toledo at first. Lesser grade signals were roud from

15, 21, 33 in Fort Wayne, 16 & 28 in South Bend, 35 in Lima, 26 in Springfield, 0., 19 in Newport, Ky., 8 in Indianapolis and 12 in Cape Girardeau. Two ch16 signals were in unID as well as chs 18, 20, 49, 26. I suspect some of these were old timers returning. I noticed an interesting article in the March issue of RCA broadcast news. The antenna atop the John Hancock Bldg in Chicago was featured and much to my dismay the proposed radiation patterns of WFLD-32 and WSNS-44 showed some deep nulls in my general direction. Maximum radiation will occur from about 15° west of north, thru west and south 30° south of due east. The reduced radiation occurs durring the remaining 135°. The deepest null is at about 30° north of due east. This will certainly reduce dxing these signals in this direction, even the tower height will have been increased about 500'.

Ron Azarkiewicz, 8453 S. Hermitage, Chicago, Ill. WASR. (CDT)
Well this should be my last report with my 21" Admiral with its 3 stages if IF and lousy
horz. sync and weak picture tube. My next set in line is a Stromberg-Carlson 21" with
4 video IF stages. I have had it here for about a year but never looket at it. One of
these I'll take a picture of how many TV's I have; I think I have one for every VHF
channel - if only they would work! On 6-9: trop looked good, but school is still there
and I had to leave. 6:40AM WLWI-18 Lafayette, Ind. (110); 6:41AM WTTV-4 Indianapolis,
Ind. (130); 6:42AM WLWI-13 (180); 7:30PM WLXT-60 Aurora, Ill. (40). WLXT just went on
the air and have a good signal, but programing needs alot of improvement! 73 Ron.
(One question Ron, with all those TV sts, which one do you look at ID time!?! HI! MG)

Paul Ciceri, 750 Champlain Avenue, Windsor 21, Ont. (EST)

During the past eight years that I've been a dxer I confined most of my loggings to che 2-6, but for the first time I got some strong DX in the high vhf band. Here's my report: My first opening of the season came on May 19 at 2035 with ch12 Cape Girardeau, Missouri booming in until 2130. From 2200-2225 WLWI-13 Indianapolis Ind., was revd with a good picture but no audio. Indianapolis is in a direct line from here with Tolcdo where WSPD-13 is located. So, I had fun separating the two. 5-24: the action came from the SE. My second logging of WPTV-5 Palm Beach, Fla. from 1550-1630 was the first indication of an opening that day. There was good A and V almost the entire time and color at times was excellent. At 1640 WESH-2 Daytona Beach was revd. Local Detroit CCI made reception of the V rough, however audio was great. Durring the same time period I also revd an unid-3. On the morning of 5-26, WTRF-7 Wheeling W. Va., WBNS-10, and WSTV-9 Steubenville-Wheeling all came in strong at 0600. On 5-27 from 1700-1745 CJBR-3 Rimouski, Que. came in w/periods of grade A picture. At 2000 KWGN-2 Denver was revd o/top of WJBK-2 with from exc. to poor video and no audio. WMAQ-5 Chicago was very garbled at 2220. (Thanks for your report, Paul and welcome to the club. Your UnID data has been relayed to Pill Heusmann for the CCI column. MG)

Bob Seybold, Bennett Rd., Dunkirk, N.Y. This is my first report, as I just joined the club. It's been a long time since I did any serious dxing, but never lost interest and will try to catch as much dx as possible. Equipment includes Winegard SC-54 antenna, Alliance rotor and 4 bowtie UHF antenna. I DX from 3 locations: home, my repair shop and in hills about 4 miles from here. Revrs include RCA color set, RCA portable B&W and Sharp 12' AC-DC model. Now to recent DX: 5-22: Es: KCKT-2, KARD-3, several Okl., Tex., Nebr., stations. 5-23: About the same as 5-22. 5-24: Trops: WILX-10, WJIM-6, WTVN-6, etc., WFMJ-21, WKBN-27, WAKR-23, WDHO-24, WUAB-43, WKBF-61, WTVS-56, WVIZ-25, WGTE-30. 5-29: WSBT-22, WPTA-21, WKJG-33, WANE-15, WKNX-25, WDHO-24, WGTE-30, WXON-62 (perfect), WKBD-50, WXXI-21 and others closer. 5-30: VHF to 400 miles & more: WFB -6, WJRT-12, WILX-10, WBNS-10, etc. UHF to 400 miles or more. WNDU-16, WSJV-28, WDHO-24, WSBT-22 (perfect), WKJG-33, WPTA-21, WANE-15, WXON-62, WTVS-56. 6-7: WKON-62, WKBF-61, WUAB-43, WTVS-56 all in excellent; plus others. 6-9: WIVS-56, WXON-62, WXII-21, WKBF-61, WUAB-43, WVIZ-25, WBCD-50, WAKR-23 and others; all good to perfect. 6-10: Best opening yet: UHF to 500 miles: WANE-15, WNDU-16, WAND-17 (new), WTVO-17 (new), WLFI-18 (new), WFMJ-21, WPTA-21, WXII-21, WSBT-22, WAKR-23, WDHO -24, WVIZ-25, WKBN-27, WSJV-28, WGTE-30, WKJG-33, WUAB-43, WKBD-50, WTVS-56, WKON-62, WKBF-61; alsoch15 o/ WANE: CBS ch23 o/WAKR-23; ch 35 o/ local WSEE-35. 6-11: WKNX-25, WTVS-56, WUAB-43, WKBF-61, WGTE-30, WDHO-24, WFMJ-21, WKBN-27, WKJG-33, WTVS-56 & others. Last summer had some UHF openings with new ch70 Bowling Green, Ohio, Cleveland, Akron,

and Youngstown UHFers in most days with varying signals; also WPSX-3 Clearfield, Pa. (new) on many occasions with good signal. 73's to all and Good DX, Bob Seybold. (It's good to see you're still active Bob, and getting some great catches too. Welcome aboard! MG)

Bill Heusmann, 3116 Sangamon St., Steger, Illinois 4-20: 0025 W71AE La Salle, Ill., second time seen w/ snowy signal; 0033 WEEQ La Salle, Il: 5-7: 2200 WMVT-36 Milwaukee; 2220 My first lightning scatter. For a half hour or more I watched WFIE-14 pop in. Frequency of good bursts varied somewhat - generally a couple minutes apart. It looked like weak MS, only more frequent. 5-15: Auroral hash noted around 1500, peaking about 1530 and still strong at 1730. 5-24: First good Es opening! From 1655 on I had an UniD station o/ WBBM-2; 1702 NBC baseball on 3, KYW; 1727 hvy CCI on 3 Spanish audio noted. 1729 WEDU-3 Tampa; 1758 WWJ-4 Detroit by trops. 5-25: Es 1200 KMID-2 and KFDX-3. 5-26: trops 0515 and 0530 noticed WHAS-11, Louisville, WLBC-49 Muncie, WANE-15 Ft. Wayne, WHO-13 Des Moines. 0542 WTHI-10 Terre Haute in w/intense 10kc offset. 0545 KWWL-7 Waterloo Ia. (new), 0547 WROC-10 Rochester, Mn. in w/ RETMA and Polka Music. 0630 WEAU-13 Eau Claire. 5-27: CJBR-3 Rimouski, 1823 Es back to E on 2-6. 1827 0/WBBM revd CKCW-2 Moncton, (new) and CFCM-4 (new) Montreal. 5-28: Es KID-3 Idaho Falls, Idaho. Also KTWO-2 Casper o/WBBM. 6-4: 2315 LS: Excellent bursts of WKBD-50, Detroit. When first seen, strong bursts were coming in every 10-15-20 seconds. Some bursts approaching a snowy/grainy level eith some audio. Bad storms and tornadoes had just passed to the north of me. As storms moved out, bursts of WKBD weak-6-6: 1100 WHO-13 w/fair signal thru WREX. 2215 WKBD-50, tent. WXON-62 Detroit, WMUB-14 Oxford, O. CCI on WSBT-22. WLBC-49 Muncie; WKRC-12 Cizcinnati; 2223 WTHI-10 Terre Haute, Ind. in like local: 2228 fairly hvy CCI on local WCIU-26 to SE. Prob. WSWO Springfield, O.; 2229 WXIX-19 Cincinnati; 2253 WKEF-22 Dayton u/WSBT. 2305 WUSI-16; 2310 after WUSI s/off WKTR-16 Kettering, O. (new); WLEX badly CCIed by WLFI, but (new) at 23'10; 2357 WBLG-62 Lexington Ky (new). 6-7 0008 WICD-15 in perfect w/ mod IH TP. 0013 CCI on local WFLD-32--- WLKY-32 Louisville in after WFLD s/off. 6-12: MS WMAR-2 t 0513 Baltimore (new); 0517 tent. WXYZ-7 Detroit w/ shading bars; WTOL-11 weak by trops; MPSD-13 Toledo in Fairly well. 6-13: 2110 WMKG-54 Muskegan, MI fair. 6-14: 0456 MS WCBS-2; 0508 WKYC-3 Cleveland w/tp; 0507 tent KSD-5 w/tp; 0546 KMOX-4 St. Louis w/s/on; 0552 KFVS-12 Cape Girardeau w/tp; 0602 WHO-13 Des Moines w/ rock solid picture. 0631 KHQA-7 Hanibal, Mo w/ CBS TP. Also logged are 2 new locals: W72AN (WCAE-50's transl.) and WLXT-60 Aurora, Ill. Neither new local blocks a dx channel and add 2 more stations for my totals, so I'm happy.

Dave Janowiak, 3661 South 46 Street, Greenfield Wis. 53220 (CDT) 5-14: 1730 E's on ch 2.3, no ID, 1730 Trops imprived on all bands, esp. to SE. Usual 200 mi. UHF revd w/exc. quality. Also WCAE-50 St. John, Ind. (new): 2200 WLXT-60 w/ RETMA TP. 5-15: 0635 to 0645; Good UHF trops to east & SE: WIMA-35 exc., WKNX-25, etc. In eve aurora hash noted, but no IDs. 5-19 1730 WKJG-33, 1800 WIZ-25, 1820 WGTE-30, WSW0-26 (new), 1830 WUAB-43 (new). 5-24; Es 1630 to 2100 KIIIat 1630; WUSN-2 at 1730; WEDU-3 w/CB pat. at 1720. Also weak WEDU-3 WUSN-2, KMID-2, etc. 5-25: 1100-1400 weak Es on 280 / KMID-2. 5-28: real: ch.2 and 3 Es at 1730: off and on all evening. 2200 KMID-2 ID on vertical antenna only. 5-29: good UHF trops to SE with good pix from MGTE-30, Toledo. Could DX only for 15 minutes so I missed others in the Ohio area. Summary: Es so far is very disappointing. A good start (April 22,23,24) then long dry spell, then seven straight days before the convention, but only weak stuff since. Trops OK on some days.

Dave Cox, Box 16, Carrolton, Alabama, 35447
Well, DX is off to a lousy start for me. Es openings seen on May 23, 24, 25, 26, and 29 bringing in XEW-2, KWGN-2, WTIC-3, WCBS-2, WALB-5, (new tation) and several UnIDs. No other DX seen til June 12 when received ITVK-3 Phoenix for another new station for a few secon s with ID; also had XEW w/soccer game. This is the worst season I have seen yet. While my DXing time is limited to after 1700; in the previous years this has been the time most often affected. Since I have started using my rotor I have not been able to determine even the general direction of Es openings. Can anyone tell me how to determine the direction of an Es opening.

# convention , 39 Highrites

MTFDA's first convention was held over Memorial Day weekend in Mattesom, Illinois, (May 30-June 1). Actually, the Covert Mot el was in Matteson but the meeting hall was in Steger at Dettmering's Tavern. The meeting hall was to be in Matteson also, but a few days before the Convention the hall was flooded and alternate facilities were hastily found. Members began to trickle in Friday afternoon and trickle out again Sunday afternoon.

Most of Friday afternoon was spent in making new introductions and renewing old acquaintances. More than half of those in attendance were members of the old AIPA and had not seen each other since way back in 1962 or earlier. So there was much talk of the AIPA and what each person had been doing since then, as well as showing DX photos, logs, etc. Talk continued thru dinner which was eaten at Dettmerings. After dinner, the first part of Bob Cooper's tape and slide talk was presented, covering his ultimate DX installation in Oklahoma City. After the "show", members returned to their motel rooms and were greeted by some fair color trops DX from Green Bay and Hilwaukee.

Saturday's first order of business back at the meeting hall was to view the end of Bob Cooper's tape/slide show, highlighted by detailed descriptions of his equipment and taped audio of UHF DX from Illinois, Indiana and Visconsin! A planned barbecue was rained out at the Heusmann residence (thanks to TFDA weatherman Bedford B rown) but John Hansen's mother stepped in and saved the day with lunch at her house. And the DX talk went on, and on. A brief visit ti Bill's house produced no DX, but in color. After a short break, and more talk, we sat down to our banquet back at D ettmerings, complete with Gary Olson and his blinding movie light. The rest of the evening was spent viewing various movies and slides of TV DX, and some weird non-DX slides furnished by John Hansen. Highlight of the slide show was the non-DX collection of president F erdie Dombrowski.

The final day got started with an open discussion on improving the club and the DIGEST which was quite helpful and informative. The past history of the club and its problems, and the forecast future were both discussed. Discussion of test pattern types and contest rules were raised briefly, but time did not permit as lengthy a discussion as HQ had wanted. As the meeting broke up, most members went to C hicago to see Morrie Goldman's DX shack, and then on to shop and sightsee at Allied Radio's main store and/or warehouse. It may have been a small convention compared to many, but it was well worth it for those in attendence, and I doubt that anyone regretted coming.

Those in attendence were:

Bill Heusmann and John Hansen (co-hosts) from Steger, Illinois. Morrie Goldman and Bedford Brown from Chicago. Rich Tidberg and Bill Eckberg from other parts of Illinois. Ferdie Dombrowski, Gary Olson, and Dave Janowiak from Milwaukee. Mark Lewis and Jayne Plunkett from Toronto, Ontario. C arlon Howington from Uniontown, Ohio. Richard Clark from Pittsburg, PA.

Bill Grant from Norc ester, Mass.

(Bill Grant's car converters provided the only skip heard during the convention---paging stations. Dick Clark had just joined the club and when he heard of the convention at virtually the last minute, he hopped in his car and drove right over--from Pennsylvania! Dave Cox phoned during the convention to say he couldn't come after all, and so did Dave Pomeroy. But we hope to see them--and YOU--at the next c onvention.)

A major session at the 1969 WTFDA convention was dedicated to a

group discussion "Improving Your Club And Monthly Bulletin".

A wide range of topics was covered. It was hoped that the airing of a diversity of viewpoints would help make TTFDA a better organiza-tion while at the same time fostering ideas to improve this club's publication.

The following is a summary of the discussion:

In regard to the club itself:

Expanding Membership - Although WTFDA membership has increased steadily since the formation of the club and recent efforts haved added many additional people to the ranks, several ideas were forthcoming for continuing to reach those unfamiliar with VTFDA. Richard Clark agreed to forward a recently published "master list of DXers". Vayne Plunkett will send a CDXC membership list. Efforts will be made to contact personnel from other clubs such as RLA, CIDX, etc., in order to locate those with potential interest in our organization.

Dues Raise - General approval was expressed over the recent dues raise placed in effect June 1. It was agreed that the raise was

regretable but necessary.

Proper Representation of Members - A question was brought forth as to whether or not western WTFDAers had a true voice in both the operation of the organization and a true representation in the number of bulletin columns. It was agreed that if the emphasis is somehow more toward Eastern and midwestern DXers, it is only because more of the active club members are from these areas. was further pointed out that the organization is best run by those handling the management and publishing duties rather than by people who have little or no understanding of the problems in running WTFDA -- despite their willingness to help. In regard to the club bulletin:

Bulletin Covers - Bill Grant offered assistance in developing ideas for VHF-UHF Digest covers -- a constant source of problems for headquarters. At headquarters we are always short of good visual ideas to liven up the bulletin and additional ideas and materials are needed. Members are encouraged to forward their own ideas to assist in this area.

Bulletin Photos - Photographs for VHF-UHF Digest picture pages are needed badly. Several recently submitted prints of ID slides and test patterns have not reproduced well and therefore could not be used. High-contrast prints (and better yet, negatives) are requested for your bulletin picture page; everyone is encouraged to send them in to headquarters for use on the picture page. (As a matter of fact the reason pictures have been recently lacking in the bulletin is due to the fact that we do not have high contrast, recent photos which we can use; if you will send them they will be used!).

New Column Ideas - Much discussion was held over the addition of new columns to VHF-UHF Digest. Most prominently mentioned were a tape-sponder column (Tommy Buchanan has volunteered for this), an FM Records column, a Rank (listing of number of stations received by DXers) column, and a bi-monthly "DX Data" column (to include verie signers, non-verifying stations, station sign-on and signoff times, etc.,). Also mentioned were ideas for features subcarrier DX and offset interference reading. Anyone interested in editing or writing in any of these areas should forward his request and a rough idea of how it will be done to headquarters.

Existing Columns - A switch in column editors was agreed upon as Nayne Plunkett agreed to write an occasional Mexican Station News feature. Mayne will continue with Canadian News. Mark Lewis will take over FCC FM NEWS AND DATA effective immediately.

Discussion was held regarding an extra DX report column editor (either South or Midwest) to siphon off some reports from the sometimes overleaded Eastern DX column -- primarily during the summer months. No decision was reached as the matter was not yet regarded as critical.

Several comments were heard regarding the need for editing of reports by report column editors. Particular concern was stressed over a lot of "non-DX report information" being left in Western

DX column reports.

Confusion over various DX reporting symbols used by different people in reporting to columns has been a problem. It was agreed that preparations should be made to publish an official list of recognized symbols in VHF-UHF Digest within the next few months for everyone to use so that this problem can be eliminated.

It was voiced that the "European Scene" column should contain actual European DX reports in the future and not just items in

general from overseas.

A meteor burst count will regularly appear in the Eastern TV DX column from now on.

It was agreed that the CCI column should not be run unless there are unID TV and FM DX loggings. Column editor Bill Heusmann added that submitting pictures and drawings of mystery stations to the column would be helpful in IDing unID stations. The CCI editor also noted he will attempt to organize a master set of TV Guides to aid in the identification of unID reception.

It was noted that the VHF Radio editor is in need of more reports. The lack of reports is causing the editor to have second

thoughts about running the column on a regular basis. In regard to other items of interest:

TV Maps - John Hansen, Bill Grant, and Mark Lewis will work together to develop a series of TV maps which will be later provided to club members at minimal cost. It is hoped the maps can take a format similar to those printed in the 1964 edition (red cover) of the Jones log.

Report Forms - Morrie Goldman will work on developing a standard report form which can be used by all TV/FM/VHF DXers in reporting

to the various columns.

Station List - Some work has been done on the master station list. Some work remains but due to the growing load at headquarters completion of this project has been delayed. There is a possibility that when the maps and station lists are completed, one channel per month of each could be mailed with the bulletin. New Product Information - Despite the excellent technical data now being published in the bulletin, the complaint was raised that we are still not getting enough "New Product News". Some believe a special column should be devoted to this area. We hope to be able to properly fill this need in the near future. Related would be articles on how to start minor technical projects for the individuals' DX dens.

The session was concluded after almost two hours of worthwhile, constructive and free-wheeling discussion. It is hoped that the ideas produced in this session will be beneficial to our organization in the years ahead.

(Summary prepared by Gary Olson, session discussion leader)

TECHNI/CORNER

3661 South 46 Street Greenfield, Wisconsin 53220

### EVALUATION OF CONSUMER REPORTS DX EQUIPMENT RATINGS (CONTINUED)

### TV VHF ROOF ANTENNAS; FEBRUARY, 1968

It was stated last month that suburban and near fringe VHF antennas only were tested. Actually, CU termed them "suburban" and "fringe", but the fringe antennas tested were not necessarily the largest in a class.

Of the suburban models, the Channel Masters 3614G, Jerrold PIX-45, and JFD LVP-TV60 rated tops. In the fringe class, the Jerrold PIX-135, Channel Masters 3611G, and JFD LVP-TV130 rated tops. Larger models (more elements) were not tested.

### ANTENNA ROTATORS; AUGUST, 1966

Tested were automatic types such as CDR AR-10 and AR22R, Alliance C-225 and U-100, and Channel Masters 9524 and manual types such as Alliance T-45, Channel Masters 9520, and Wards 9514. Although there are more models on the market now to choose from, check this article before purchase. The CDR and Alliance rotors tested have been the most popular among DXers, and they are available from all large electronic warehouses.

### OTHER ARTICLES OF INTEREST

The following list of articles may be of interest to some members.

- Tuned On, Tuned Off FCC; Oct., 1968 (About FCC's reluctance to do something about poor TV/radio programing)

- AM/FM Stereo Radios; Sept., 1968 (Complete packages, priced from about \$100 to 200, not in Fischer and Scott class.)

-- Trouble with Color TV; May, 1968

- Layayette AM/FM/Stereo; March, 1968 (A best buy)

- Stereo Tape Decks; March, 1968

- B/W TV Sets (Medium Priced); March, 1968

-- Large Screen Color TV; Jan., 1968

-- Heathkit AR15 AM/FM/Stereo Receiver; Jan., 1968 (If you want the best, this is it; tested separately since it wasn't available built when others were tested.)

- AM/FM Stereo Receivers; Nov., 1967 - Stereo Headphones; Oct., 1967

- The CU 1969 yearbook (buying guide) contains ratings and articles on the following items (some mentioned previously):
- CU selected audio systems using various components for high, medium, and low prices.
- Pickup Cartridges
- Compact Loudspeaker Systems
- Stereo Headphones
- FM/AM Stereo Radios
- AM Portables, Big and Little
- TV Roof Antennas
- B/W and Color TV

- Compact Stereo Systems
- Record Changers
- Stereo Receivers
- High-Priced Loudspeaker Systems
- Stereo Tape Decks
- Small FM Table Radios (Some are good DX receivers)
- FM Roof Antennas
- Antenna Rotators

Items of interest that are tested currently will be referenced in this column. For example, the June, 1969, CR contains ratings for Radio-phone consoles, some of which are getting rather good, although they still lag the hand picked component systems.

73's Dave

End of Series

# WESTER! TY

Dennis Park Smith
321 Santa Barbara St.
Santa Barbara, California
93101 U.S.A.
Deadlines: 12th of each month

As feared, this summer's skip season is very poor, as Es seems to be adversely affected by high sunspot levels. Best openings were on 25 and 29 May. There was good Midwest trops 19 May. Dates with at least some Es activity noted: May 13,20,24,25,26,27.28,29,31, June 3,4,7.

Randy Miltier, 1760 Whitwood Ln #3. Campbell, California 95008 DX finally started to pick up here with a skip noted on 5/25. At 0808, KCKT-2 Kan. was seen w/Rocky & His Friends; reception was poor with occasional pixture and audio. An unIDed was found on ch. 6 at 0843 with a western type movie, in with a beautiful picture. KFDX-3 Tex. was seen at 0859 with "Playhouse 3"; reception was good at times. A good picture was taken of KNOP-2 Neb. ID at 0958; they were only in for about 10 minutes. I had a mystery station going on ch. 4; I didn't figure out who it was until after I got my film back and studied the ID for a couple of days. The ID showed the call letters KOTA, KHSD and a third call I couldn't make out, which was the unIDed ch. 4. The unIDed turned out to be KDUH-TV ch 4 in Neb; reception was at 1028 with no audio and a picture that appeared in a negative form-is there a name for this type of picture? Still 5/25, another unIDed was seen on ch 6 at 1035 with some sort of agricultural program. The announcer mentioned Iowa when discussing hog prices; I think this was WOW-6 Neb. or possibly WOC-6 Iowa--tentatives sent to both. Reception was excellent. After they faded out, KPLO-6 S.D. faded in for a log at 1040 with an excellent picture—a program on juveniles was seen. On 5/26, "Concentration" was seen at 0734; no ID was seen as reception was poor and brief. KMID-2 Tex. was in on 5/29 at 0728 with a commercial on Hellman's Mayonnaise. At 0729 a picture was taken of a KMID ID; at the same time KTWO (I presume) audio broke in with an ad on Casper Electronics in Casper. MS has been seen occasionally on ch. 2 in the mornings before local KTVU comes on. Light skips have also been seen occasionally off and on throughout the past couple of weeks.

I found Jerry Pulice's report in the 5/69 VUD on "KSTL" very interesting as I encountered the same situation, only on ch. 2. My "KSTL" turned out to be KCKT-2 Great Bend, Kansas, who I suspected it was. It took me only a year (through Jerry's fine efforts) to confirm my suspicion. Hope to report more next month. 73's.

As you can see in the following, Randy, skip has been slow all over. I don't know of a particular name for negative video reception and I'm not entirely sure of the cause unless it is a type of phase reversal due to such as a superimposed ghost one complete frame to the side of the original?? I saw that result in Wasco when KOVR-13 had their transmitter on Mt. Diablo years ago. Yes, KOTA-3, KDUH-4 and KHSD-11 identify on the same slide (last two are satellites of KOTA-TW)

Alc William G. Hauser, AF 15935294, Box C 8638, Lowry AFB, Colorado 80230 Sporadic E has been slower this year than any I can remember. Openings were noted only on 13 and 25 May and 3-4 June. However, I am rarely at home during the day, even on weekends, and I was completely out of touch during a trip 27-31 May. All stations mentioned are new at this QTH; all of the definites have previously been seen in Oklahoma.

Date 13 May 25 May	CST 1555 0930	Call WOAI?	Ch 4e.	Location Dis San Antonio TX Georgia area.	tance
	0952	XETV	6	Tijuana BCN	835
	1029	WRBL KPIX	3.	Columbus GA San Francisco CA	1210 945
3 Jun	1111		3 2eve	Sacramento CA	885



(3 Jun) 2340 unID 3

2354 off,

Northeast? Also ch 2even, and ch 5 unIDs. 4 Jun 0011 CKPR 2 Port Arthur Ont 980 in clear when KWGN s/off. Blackface movie, end 0016, ID, s/off, GSTQ w/EIIR portrait

There hasn't been much interest in my DX testing proposal. I wrote to WJJY-14 for the Perseids, but no reply. I see now they probably won't be on by August, since CP has been extended to November. I am now using a Channel-Master 7008 lowband tunable trap, but it seems little, if any, better than the Jerrold equivalent. One or other is a must, tho, in a metro area! Let's hope the DX picks up soon. Until the next, 73.

You probably didn't miss much, Glenn. Even the following exhaus-

tive report is indicative of a just plain bad Es season.

Bob Cooper, Jr., 6221 Norman Road, Oklahoma City, Oklahoma 73122 There is apparently a valid inverse correlation between the peak sunspot activity year and the frequency of sporadic E skip. Es so far this year has been well below normal. Oh well, there is always tropo! Some of the highlights of the past season (through June 7th) are (times CDT):

May 9 0745 KHNE 29 Hastings, Nebraska (365 miles) excellent

0750 KXNE 19 Norfolk, Neb. (430 mi.) fair

0755 two translators, one on about ch. 75 due north (relaying KAKE Wichita) and one on 80-81 NW (for KARD Wich). 75 probably Arkansas

City, Kan., 130 mi. 80-81 unknown. Both out around 0910 CDT

May 13 0800 tropo up in 300-mi. range to NW, N, NE on VHF. UHF normal.

May 14 0730 tropo up again, KAYS-7 noted, UHF near normal.

2200-2300 tropo up again, KUPK-13 Garden City in, high-band up, low-b. normal

May 18 0900 KUPK 13 Garden City still in, with KGLD-11, others.

1500 KTSB 27 Topeka (247mi.) lost its usual tropo scatter flutter, good signal

1747 KCSD 19 Kansas City, Mo. (297 mi.) good

1800 KHNE-29 and KXNE-19, very good to fair

1930 KTMC-27 Springfield excellent, wiping out KTSB-27 when KTSB usually dominant on channel on scatter

KUHI 16 Joplin, Mo. fair level 2000 KETV 7 Omaha (405 mi.) VG level

2105: UHF band tropo bending suddenly opened up.

2105 WEEK 25 Peoria, Ill. (561 mi.) good

WMBD 31 Peoria, Ill. (561 mi.) good 2128 WCIU 26 Chicago, Ill. (690 mi.) good 2145 WFLD 32 Chicago, Ill. (690 mi.) good 2151 WCFL 38 Chicago, Ill. (690 mi.) VG 2159 WTVO 17 Rockford, Ill. (651 mi.) VG

WCEE 23 Freeport, Ill. VG

2206 KSEL 28 Lubbock, Tex. Exc. off of back of 7-foot dish. 278 miles!

2217 KMEG 14 Sioux City, Iowa (488 mi.) VG

May 19 0004 WKOW 27 Madison, Wisc. (680 mi.) VG after KTMC-27 Springfield sign-off

Ollo KMBR 9 Kansas City, Mo. (297 mi.) Exc. after local KWTV sign-off KMTV 3 Omaha VG at sign-off KHQL 8 Albion, Neb. good with delayed ABC net movie

KLOE 10 Goodland, Kan. good with same movie

0635 WICD 15 Champlaign, Ill. (598 mi.) fair with test pattern 0650 WSBT 22 South Bend, Indiana (742 mi.) good to after 0800

0653 WEEK 25 Peoria good. 0655 WMBD 31 Peoria VG. 0657 WICS 20 Springfield, Ill. (523 mi.) good 0737 WIRL 19 Peoria fair with call slide photo 0746 WEEQ 35 La Salle fair

0755 WAND 17 Decatur, Ill. fair to good

0815: band died.

2245 "local" UHF'ers normally received, within 250 mi. lost their tropo scatter flutter and began to stabilize.

```
WEHT 25 Evansville, Indiana (576 mi.) VG
(May 19) 2332
              WKLY 32 Louisville, Kentucky (675 mi.) VG through sign-off WFIE 14 Evansville, Indiana (576 mi.) fair to good
May 20 0001
         0015
              10-kc co-channel noted on KUHI-16 Joplin, from same dish heading as
                            Evansville. Station under KUHI still on at 0025 with
                            movie after KUHI sign-off. Humm. WUSI?
              Tropo gone; only MS bursts noted on low band.
              weak Es noted, channel 2 NE for 5 minutes
              KSEL 28 Lubbock VG signal, no flutter fading
        2045
        2340 KKBC 34 Lubbock (278 mi.) fair signal
May 21 0001 WDTV 39 Dallas, poor level, with co-channel, probably from Houston
        0930 WDTV 39 better than average level; other UHF stations in 250-mile
                           range up with tropo bending signals
              KKEC-34 and KSEL-28 very good
        1145
        1700 wesk Es on channel 2, NE
        1730
              Es stronger, channels 2 and 3
        1745 WSAV 3 Savanna, Ga.
                                     1814 WESH 2 Daytona Beach, Fla.
        2000 weak Es back to east, channels 2 and 3
        2230 Spanish-speaking station, ch. 3, no ID
        2320 Es still in, channels 2 and 3, east, south and west; no ID's
May 25 1025 weak Es showing east on ch. 2
        1102 solid signals on Es, channels 2 and 3, east and north
        1320 CBC station on channel 2, NW
        1342 CHCT 2 Calgary, Alberta logged
              KOOK 2 Billings, Montana logged
        1430 Es gone all directions
        2100-2245 Es on channels 2 and 3 from NE
        1845 Es noted, channel 2
May 27
        1850 CFCL-TV-2 ch. 2 Kearns, Ont. identified (sat. of CFCL-TV 6 Timmons, Ont.)
                   2 Buffalo logged. 2045 WJBK 2 Detroit logged.
        2120-2140 Es on channels 2 & 3 from north, Canadians. No ID's.
May 28 2155 WUSN 2 Charleston, S.C. at tune-in; WRBL 3 Columbus, Ga.
        2220 WESH 2 Daytona Beach, Fla.
        2255 KFWT 21 Fort Worth with much better than average signal
        2335 Es, channel 2, W/SW weak
May 29 0010 several weak in-and-out Es stations channel 2, after KV00 sign-off
        0045 KBOI 2 Boise, Idaho ID'ed
        0100 still weak Es in and out, west, NW, when I quit for night.
        1245
             WUSN 2 Charleston very good, all alone
        1858 XEW-TV 2 Mexico City VG
             XHP-TV 3 (this may have been XHQ but call looked for world like
        1915
                           XHP; will have to wait until photo is developed)
              WRBL 3 Columbus, Ga. VG 2032 KTVN 2 Reno, Nevada VG
        2000
        2110 KCRA 3 Sacramento VG
                                        2107-2125 KTVU 2 Oakland good
        2131
              last of Es for date, west, channel 2, CBS
       1750
              same XHP-TV slide again
              XEW-TV 2
              NBC news, channel 2, Es, east
       1010 tune-in, strongest signals noted to date from under-250-mile UHF'ers.
       1038 KDNL-TV 30 St. Louis, Mo. (458 mi.) TP. Co-channel on 36 Fayetteville
       Ark. at same time, probably 36 St. Louis 2200 UHF signals local to area up VG again, but no DX seen.
```

June 7 1450 weak Es to west on channel 2; no ID

2205 tune-in, Es, NBC movie ch. 2 west; no ID

As you can probably tell, I am concentrating on UHF when tropo is good, and on FM wherever there are signs of Es. The frame to stack a pair of seven-foot UHF dishes is built, but will have to wait my return from California late in June for installation. They will be side by side at 50 feet. Best to all, 73.

## डीनिडीडि:

EDITOR: Glenn Hauser Box C 8638, Lowry AFB Colorado 80230 USA

JULY 1969

more

New records, lots of them, this time, thanks to our faithful reporters and some research of our own. We hope to uncover even more in some more thorough checking of old AIPA bulletins and other sources. Bob Cooper ties or possibly edges out the previous UHF distance record of 735 miles (wGBS-23) and he's expecting even better UHF DX with his super-UHF receiving station in Oklahoma City.

Ch	Call	Location	Miles	_DXer,_Location	Comments
5	WCSC	Charleston SC	1260	Larry Godwin, Amarillo TX	_OUITHETTUS
- 5	WRAL	Raleigh NC	1300	Larry Godwin, Amarillo TX	1 100
5	WCYB	Bristol TN		Larry Godwin, Amarillo TX	100多种"水
6	WTVN	Columbus OH	1075	Larry Godwin, Amarillo TX	
6	"CBLT"	Toronto Ont	1310	Larry Godwin, Amarillo TX	产业 化
8	WITW	Mt Washington NH MS	1325	Bedford Brown, Hot Springs AR	
8	WMTW	Mt Washington NH	155	Bill Smith, Uxbridge MA	1 - 1 - 2 - 32
10	WKNO	Memphis TN	75	Jerry Drott, Charleston MS	
14	WFIE	Evansville IN	THE STATE OF THE S	Robert Cooper, Oklahoma City OK	4 The
14	KMEG	Sioux City IA		Robert Cooper, Oklahoma City OK	Total Control
14	WMUB	Oxford OH	370	Bill Draeb, Kewaunee WI	
15	WICD	Champaign IL	610	Robert Cooper, Oklahoma City OK	
15	KLNI	Lafayette LA	495	Robert Cooper, Oklahoma City OK	
17	KRTV	Little Rock AR	45	Jerry Don Burch, Hot Springs AR	now off
17	WAND	Decatur IL	560	Robert Cooper, Oklahoma City OK	110000
17	WTVO	Rockford IL	645	Robert Cooper, Oklahoma City OK	$\gamma \rightarrow \gamma$ .
17	KGTV	Des Moines IA	290	Carl Lupton, Shelbyville IL	now off
19	KXNE	Norfolk NB	465	Robert Cooper, Oklahoma City OK	
20	WBBH	Fort Myers FL	95	Allen Napier, Tampa FL	LY SALE OF
22	KFSA	Fort Smith AR	95	Bedford Brown, Hot Springs AR was KNAC	now ch 5
22	WSBT	South Bend IN	735	Robert Cooper, Oklahoma City OK	
23	WCEE	Rockford IL	645	Robert Cooper, Oklahoma City OK	
25	WEEK	Peoria IL	<b>ラララ</b>	Robert Cooper, Oklahoma City OK	To the second
25	WEHT	Evansville IN (KY)	570	Robert Cooper, Oklahoma City OK	
26 T	WCIU	Chicago IL	685	Robert Cooper, Oklahoma City OK	$\epsilon = 1/\mu H$
26	MOWW	New Orelans LA	580	Robert Cooper, Oklahoma City OK	
	WATU	Augusta GA (SC)	15	Morrie Goldman, Au usta GA	
27	KTSB	Topeka KS	465	Morrie Goldman, Chicago IL	
28	WKOW	Madison WI	675	Robert Cooper, Oklahoma City OK	J. C. C.
	KSEL	Lubbock TX	280	Robert Cooper, Oklahoma City OK	

WKNO and KTSB had been erroneously attributed to Bill Draeb. Unless otherwise specified lowband records are assumed to be skip, highband and UHF trops.

### CHANNEL 11 TVDX RECORDS (SKIP)

CHCH CMJV	Los Angeles CA Hamilton Ont Matanzas Cuba TOTAL for 3 stations	Aur	1610 Barney Rauch, Peoria IL 415 Carl Boecher, Milwaukee WI 1440 Ed Sparks, Odessa TX 3465	now? CMGH
KTHV KTTV KNTV K11FU KIVA KKTV WINK WAII	Little Rock AR Los Angeles CA San Jose CA Springville CA Yuma AZ (CA) Colorado Springs CO Fort Myers FL Atlanta GA		CHANNEL 11 TVDX RECORDS  955 Alberto A. García, Mérida México 225 Bill Fulton, Yuma AZ  180 Dennis Smith, Wasco CA 45 Dennis Smith, Wasco CA 225 Dave Beal, Tucson AZ 415 Glenn Hauser, Enid OK 120 Jeff Kadet, Miami Beach FL 750 Robert Cooper, Oklahoma City OK	of KSBY-6

	STATIS	TICS AND A CONTRACT OF THE PROPERTY OF THE PRO		PAGE 2 JULY 1969
	WTOC	Savannah GA	450	Carlon Howington, Homestead FL
	KLIX	Twin Falla ID		Morris Foote, Middleton ID
	WTTW	Chicago IL	450	David Nieman, Buffalo NY
	WHAS	Louisville KY (IN)	670	Robert Cooper, Oklahoma City OK
	9		tie	Glenn Hauser, Enid OK
	KDIN	Des Moines IA	360	Bill Draeb, Kewaunee WI also as KDPS
	KGLD	Garden City KS	730	Gary Olson, Barrington IL
	KTWU	Topeka KS	245	Stu Grade, Sioux City IA
	WBAL	Baltimore MD	960	Bedford Brown, Hot Springs AR
	WJAR	Providence RI (MA)	410	
	WTCN	Minneapolis MN	710	
	WTOK	Meridian MS		Carlon Howington, Homestead FL
	KPLR	Saint Louis MO	495	Carlon Howington, Uniontown OH
	KGIN	Grand Island NB	480	Bill Eckberg, Walnut IL
	WENH	Durham NH	155	Claude Kumjian, Orient Point NY
	WPIX	New York NY	600	G. W. Lowther, Alexandria IN
	WTVD	Durham NC	605	Gary Olson, Barrington IL
	KTHI	Fargo ND	245	Larry Addison, Fridley MN
	WKRC	Cincinnati OH	350	F. J. Glaub, East Moline IL now ch 12
	WTOL	Toledo OH	740	Clarence Fleagle, Abilene KS
	Klige	Gage OK	105	Glenn Hauser, Enid OK
	KOED	Tulsa OK	725	Bill Draeb, Kewaunee WI
	WIIC	Pittsburgh PA	575	B. J. Bingham, Festus MO
	KELO	Sioux Falls SD	675	Bill Meers, Lagrange KY
j	WJHL	Johnson City TN	855	Glenn Hauser, Enid OK
	KFJZ	Fort Worth TX	760	Bill Meers, Lagrange KY now KTVT
N.		Galveston TX	1245	Robert Seybold, Fredonia NY now KHOU Houston
	KCBD	Lubbock TX	505	Bedford Brown, Hot Springs AR
	WMBV	Marinette WI	505	Louis Matullo, Washington PA now WLUK Green Bay
11	CBHT3"	Yarmouth NS	300	Bill Grant, Worcester MA
	CHCH	Hamilton Ont	435	Dave Janowiak, Joliet IL
	CKWS	Kingston Ont	385	Frank Merrill, Milan MI
	CKVR1	Parry Sound Ont	35	Morris Sorensen, Emsdale Ont properly ChVR-TV-1
	WKBM	Caguas PR	90	Robert Cooper, Frederiksted VI
		TOTAL for 41 stations:	19665	Average: 480
	Anal ve			
	for Ser	bold 1630 for Havington	on top,	with a total distance of 2045 miles; then 1955
	3 Coo	per 3 Unrecorded are K7AS	Mogala	for Cooper. Hauser holds 4 records, Howington
	KHSD L	ead SD, KBYU Provo UT, KTNT	Moderre	s AZ, WFSU Tallahassee FL, KCBY Coos Bay OR,
	KIIOD TK	sad ob, RDIO 11000 OI, RINI	. racoma	WA, "CBVI" Quebec PQ.
100		A STATE OF THE STA	CHANNEL	30 TVDX RECORDS
	KFRE	Fresno CA		
	WHNB	New Britain CT		
	WETV	Atlanta GA		Dennis Smith, Little Creek VA was WKNB Bill Heusmann, Jonesboro GA
	WTIU	Bloomington IN		Bill Draeb, Kewaunee WI
	KDNL	Saint Louis MO		
		Portsmouth OH		Robert Cooper, Oklahoma City OK Frank Merrill, Milan MI
		Toledo OH		Morrie Goldman, Chicago IL
X		TOTAL for 7 stations:		
N				Average: 262
		1650 4640 11300	CHANNEL	31 TVDX RECORDS
	VAAY	Huntsville AL	675	Bill Draeb, Kewaunee WI
1	WMBD	Peoria IL	565	Art Collins, Buffalo NY
- 64			tie	Richard Nieman, Buffalo NY
	25%		tie	David Kanaar, Buffalo NY
	WTAF	Marion IN	285	Bill Draeb, Kewaunee WI
1	MNYC	New York NY		Carlon Howington, Uniontown OH was WUHF
1	1.00	TOTAL for 4 stations:	1910	Average: 478 more

4.7.

### CHANNEL 32 TVDX RECORDS

KSAN WFLD WIKY WRLP	San Francisco CA Chicago IL Louisville KY (IN) Greenfield MA (NH) TOTAL for 4 stations:	685 670 350	Dennis Smith, wasco CA now KNEW Robert Cooper, Oklahoma City OK Robert Cooper, Oklahoma City OK Hank Holbrook, Fair Haven MD Average: 482
		CHANNEL	33 TVDX RECORDS
WCFT	Tuscaloosa AL	√30	David Cox, Carrollton AL
WCHU	Champaign IL	300	Bill Draeb, Kewaunee WI
		September 1984	now WICD-15 merged with WICD-24 Danville
WK JG	Fort Wayne IN	340	Mark Lewis, Downsville Ont
233	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	tie	David Kanaar, Buffalo NY
WYTV	Youngstown OH	415	Bill Draeb, Kewaunee WI was WKST
WITF	Hershey PA	265	Mark Lewis, Downsville Ont
KMEC	Dallas TX		Glenn Hauser, Enid OK
WMTV	Madison WI		Richard Nieman, Buffalo NY now ch 15
1 12	TOTAL for 7 stations:		Average: 306 Average:

Analysis. On 30 Dennis Smith leads, with 2 records at 560 miles. On 31 Draeb has 2 at 960 miles. On 32 Cooper has 2 at 1355, and on 33, Draeb has 2 at 715, Lewis 2 at 605.

Comments on Standards. Morrie Goldman: "I really don't see where any problem exists. The standards set forth in your column were established as a standard for a rank list. This way all reporters are in on common ground.... For a dxer's own uses he can count stations anyway he chooses, but for the rank list he would abide by the clubs standards." Bill Draeb: "I agree 100% on the standards you have for counting stations in the WTFDA. To make my total comply with these standards I would have to make very few changes." Bob Cooper: "My feeling about translators is 180 out with that of Gary Olson, apparently. A translator is a licensed transmitter. It receives its programs from another station, just as do satellite stations or those that operate as part of an educational net. It may have weird call letters and it may be low power, but it is a station, licensed as such, subject to many of the same stringent technical regulations placed on regular telecasters. ... In my station totals... I lump them together because I fail to see where one differs from the other. As a practical matter, I am prouder of my 200-250 mile UHF translator hauls... I agree with the majority on call letters... A change in call letters does not represent a new station to me. A new station is one that has changed its transmitter location by at least 25 miles or changed its channel or frequency (since a change here introduces an entirely new set of interference conditions for its reception.)" John Ebeling: "I don't agree with Hank Holbrook or Bruce Elving on their theory of "not counting a station twice if it changes channels" (frequency). I happen to believe it should be counted twice for 2 reasons: 1. Each frequency has it's own (somewhat unique) propagation characteristics. 2. Local station interference (or operating hours) may make it impossible to log the station on it's new (changed) frequency. I don't believe a call letter change only (unless deletion had occurred) should be counted as a new station. I also do not believe too much in verification, since this is not proof positive." Bill Heusmann: "...counting a channel change as a new station is about the only fair way of doing it. ... To count a station with changed call as a new one is ridiculous. I agree that logging a station is the main consideration and, as in counting records, the believability of the DXer is the most important thing. Worrying about veries can only cause mucho trouble. ... I personally feel that translators should be counted equal to 'regular' stations. I'm a bit leery of CATV leakage.... Suggestions to have a half-dozen listing covering all the possibilities, stations verified, stations seen, offset changes, off air stations logged while under the influence of LSD and so on, might be the fairest way, but such an arrangment would get extremely cumbersome." Glenn Hauser: "I think we're about ready to settle this and get underway." Until the next, 73 de Glenn

## THE EUROPERIN SCENE

Roger Bunney, Trelawne, Cupernham Lane, Romsey, Hants, England SO5 8JH

As our members will by now know, Iceland has opened 2 transmitters in Band 1. These are located at STYKKISHOLMUR, E3, 90 kw erp, horizontal polarization, and at SKALAFELL E4, 300kw erp, again horizontal. These stations are located in the NW and SW Iceland respectively. Already the E4 transmitter has been received on test card, using an electronic type. Members in the East may stand a chance of these; remember that it is 625 lines, with 50 cycle field.

The Émley Moor transmitter was back on the air within a few days, after the 1250 ft. mast fell. A temporary 650 ft. mast is in use, until

another mast of orginal height can be erected.

The 'Short Wave Magazine' for May reports that G3JVL near Portsmouth received the Rhodesian Beacon station on 50.046 mc., and propagation was by TE rather than F2. This on March 20. Later, on April 4, ZS3B on 50.04 mc. was heard in contact with ZB2BC.

The aurora of March 23/24 was observed by a number of amateurs from the U.K. into Scandinavia and mid Europe; no reports have been forth-

coming of DX/TV via this opening.

To summarize the DX events of April and May, the first month was extremely quiet, with the usual MS observed, but the period 8-10 April did give some trops down into France, although nothing to shout about. The first Sp E activity of the season occured on May 2, with a 2 hour opening up to Scandinavia. The 4th gave further activity South into Spain, Italy and Portugal. Activity between the 5th and 17th of May was quietat the times I was watching, but there were spells during this time. Already there was a trend for the Scandinavian countries to predominate this season over the other areas. The first big opening occured on 18th May, with USSR 1,2; Sweden E2/3; Czech O1, and the usual unIDs on OIRT channels. On this day I stayed for a time with another DX friend at Buckingham during which time some DX was missed, including a big opening on the 20th, whilst we were at Stratford-on-Avon. I arrived back on the 22nd, ready for a big opening into Scandinavia, with Norway E2/3/4, Sweden E2/3/4. The following day, a visit to Charlie Raferal's (PTV DX writer) was preceded with more Scandinavian activity, with Finland E2, a rare one at 10 kw. The following day (24th), the opening lasted from 09:30-22:00. USSR 01,2,3,4 (the last 2 new), Poland 01,2,3; Czech 01,2; Yungary 01; Yugoslavia E3,4; Spain E2,3,4; W. Germany E2; Norway E2; Sweder E2 and of course the usual unIDs. The good spell continued, with a similar opening the next day, the 25th: Norway E2/3/4; Sweden E2/3/4; Poland 01/2; E. Germany E3/4; USSR 01. UnIDs this time predominated from OIRT channels. The next few days passed with some low level activity. The 29th brought some fantastic patterning over Band 1, with Radio Telephone traffic, something not unlike SSB, but I was unable to resolve it. This is the first time that I have noted this reception from the South. We often receive USSR type voices on links, with RTTY. However no signals made themselves known. The 30th brought in Hungary O1, Italy IA, Czech O1 and Spain (TVE) E4. The final day of May was one to remember! Sweden E2x2, E3, E4, Norway E2/3/4, USSR O1, Poland O1, Yugoslavia E3/4, and Iceland E4. It is interesting to note that when Iceland came in, there was very little activity elsewhere, only a weak Norwegian on E3. From this I would expect the signal from this island to be in when there is little else doing from other parts of Europe, and similarly in the USA. We only want a high powered transmitter to open up in Greenland now!

This has been a very good start to the E season; lets hope that you

are sharing similar results.

Good DX, Kook

BCB'S TECK NOTES
uly 1969 - Page One

# Sold TECH-1197ES

The 1968 Es Season

Part Cne - The FM Scene

Utilizing the reports of FM and TV DX, via E skip, appearing in the Bulletin and covering the reporting period April 1 through August 31, 1968, a series of charts and graphs have been prepared to give us a "picture" of just what the Es season did this past summer - 1968.

A similar set of graphs are being prepared for the current summer Es season, as it progresses, and later this fall the 1968 and 1969. Es seasons will be directly compared.

The value in graphic illustration is considerable. Unfortunately graphs per se do not reproduce well in the bulletin, so we will be able only to extract the "number totals" from these graphs for further study here. Primarily, hundreds of individual raw reports are listed in sequence, under any given date, and then under a time scale for that date (ie. a logging at 1701 EST would come just ahead the Bulletin have been converted to EST (Eastern Standard Time) to provide a time base for the chart entries.

Since the <u>cause</u> of E skip is unknown, our best source of information about its mysteries is found in the study of what it does. There is a great deal to be learned about its action(s) just by studying the effects associated with  $E_{\rm S}$ .

### FM First

It takes a very good Es opening to cause FM band (88-108 MHz) signals to "skip" to a distant point. So when we study only the FM Es reports, we are in truth taking the very top slice off of TV DX openings for the same dates, and times. These are the peak TV DX periods, and the peak TV DX times; when FM is hot, TV is notter yet!

The reports of FM DX in the 1968 Bulletins, covering the period April 1 through August 31, told us the following:

### Total Dates Open

April	3 4027	14		with the King W	
June	o days	May	• • • • • • • • • • • • • • •	8	dave
June August	9 days	July		14	down
August	2 days.	1 G.A		Т.	uays

Total Minutes Open

April	nationwide nationwide	Per Opening/DX'er 24.66 minutes 32.42 minutes 74.23 minutes 47.22 minutes 56.50 minutes
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While the total number of calendar dates during the month that FM Es was noted is of interest, of perhaps greater importance is the number of minutes, total for the month, that FM Es occured in the measurement period.

From the "Total Minutes Open" chart we find that while July had more open dates, the June openings tended to last longer. The average for each opening (measured as total minutes open for each observer and each opening) was longest in June, shortest in April. August was "out of line" with the curve (starting low in April, peaking in June, going down in July), but there were only two open dates in August - not nearly enough to be demonstrative of a trend since both tended to last a relatively long time.

### When Was The Band Open?

All openings were converted to EST (Note: It is important that reporters to the bulletin specify their time standard used each month so we know how to convert your particular time to EST). If you live in California, for example, where DST is observed, merely add two hours to your own local time to obtain EST for the period.

Gold Comment Comment	Extremes Reported (EST)	Highest % Openings
June July	1230 - 2130 EST 1030 - 2315 EST 1115 - 2115 EST 0900 - 2245 EST 1015 - 2245 EST	1630-2115 (60 %) 1630-2000 (62 %) 1230-1600 (35 %)

### Dates Cpen

The "open dates" and times reflect intense sproadic E (Es) clouds, in formation or singly, at some point in or close to the USA. Since DX'ers active in FM are not spread well geographically (ie. there were non in 1968 reporting from the SE or NW USA), nor are they expected to be active 24 hours per day (with the exception of Glenn Hauser last summer who apparently never slept!), it is meaningless based upon those reports that did come in to attempt to find which regions of the United States profited most from these extra-dense Es clouds. Dates with an asterik (\*) indicates two or more DX'ers geographically spread by 250 miles or more, reported the band open on the date shown and/or at the same time shown. In most of these instances, it would appear that the cloud or clouds that formed were providing DX loggings nearly simultaneously for two or more well spread observers. In effect, this then is a measure of how large the dense E layer cloud was at the time.

April (1968) - All Times EST 19 ... 1537 22 ... 2120 30 ... 1248-135

May (1968) - All Times Est 3 ... 1800 15 ... 1639

24 ... 2114

Bob's Teck Notes		
Bob's Teck Notes July 1969 - Page Thre		
May (1968) - continue		
25 1041-1148	26 1411-1426	28 * 1108-1330 1830-1945
30 2315	31 time unknown	1953 <b>-</b> 2058
June (1968) All Times	Est	
5 1224	. 7 time unknown	8 1223-1400
20 * 1645-1715 1655-2000 1708-2109 1730-2028 1759-2017 2025-2058	21 * 1412 1525-1901 1636-1823 1645-1700 1740 1825 2013	22 * 1323-1330 1343-1518 1829
24 1339-1411	29 * 1801-2034 1830-2000	30 * 1139-1203 1219-1300 1447-2045 1915-1930
July (1968) All Times	Est	
2 1406	4 1042-1114	5 0902-0915
3 1327-1347	9 2137-2209	11 * 1321-1402 2229-2245
15 1700-1800	17 1738; 1800 (2)	23 1852-2050
26 1304-1330	27 * 1111-1124	28 1214-1542 1646-1658
29 1958-2025	31 1602-1045	
<u>August</u> (1968) All Time		
	11 1929-2007	

For the total summer of 1968, there were eight (8) dates when more than one observer observed Es on FM, from receiving locations apread by 250 miles or more. Five of these eight dates came in June.

We will have a similar study of TV DX for the same summer period of 1968 for you in a subsequent issue of the Bulletin.

### 12 Aluminum Jacketed 75 ohm Coaxial Cable Available

I have recently picked up a limited supply (about 1,000 feet) of 12 (ie. 412/1,000's of an inch in diameter, or just under 1/2 inch) ohm CATV solid aluminum jacketed coaxial cable. I have been using this cable on my own UHF antenna installation for several months now,

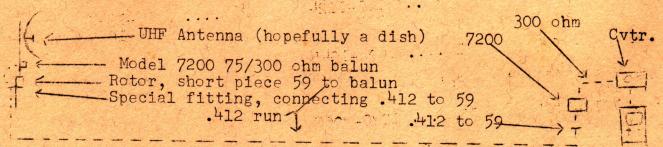
and if you are serious about UHF, I will part with some of this coax at my cost. I took the entire 1,000 feet, when offered to me, because I suspected that others would like to give it a try also.

Here are the rules:

- (A) First come; first serve ... but serious UHF'eer DX'ers will have first preference in case the demand exceeds the supply.
- (B) Carefully calculate the exact amount that you require, from just below your rotor housing, down your tower (sorry, but this stuff is so heavy that a TV steel mast will not support it safely), and into your TV set. Tell me:
  - (1) How long this run (for the .412) will be ... (2) How much (flexible) RG-59/U cable you will need to run from the top of your .412 coax around your rotor, and to your UHF 75 ohm to 300 ohm balun...
    (3) How much flexible RG-59/U you will run from the bottom of your .412 run (TV receiver end) to your .75 ohm to 200 ohm UHF halm

300 ohm UHF balun.

I will supply the .412 cable, two (\$5.00) connectors at ends (already mounted since this requires a special tool), and the two short lengths of RG-59/U to connect to antenna balun on top and TV set balun (or converter input balun) at bottom. You will have to supply your own Channel Master model 7200 UHF balun (Matching transformer) to connect your UHF antenna into the .412, and your TV receiver or converter out of the .412. See sketch below.



This .412 CATV cable has approximately 2.4 db loss per 100 feet at channel 14 and 3 db loss at channel 40; wet or dry. Instructions for installation will accompany each roll.

Naturally this is excellent for VHF also, but the supply is limited and I would like to see it put to use for UHF first since this is where the action is:

For each 25 feet you order, include \$1.00 postage; all will be shipped via parcel post. If you want to see what this is all about, send a 9 by 12 inch self addressed stamped envelope with 30 cents postage on it for a short sample of this coax.

Remember please the supply is limited - when it is gone, that is it. Ch yes, the price is \$.20 (twenty cents) per foot. Bob Cooper, Jr., 6221 Norman Road, Oklahoma City, Cklahoma 73122.



FM Deadline:
10th of month

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

JULY 1969

Richard Clark 144 N. Dithridge Street Pitts burgh, Pa. 15213

Greetings DXers. This will be my first report on the FM side. The equipment used is a Pansonic AM/FM/SCA/SW and an Ameca FM pream and 2 archer FM antennas horizontal and vertical polarization. Weak stations don't fade out as much. Well here is what I've gotten. 5/3 WCLT 100.3 Newark, Ohio @0630 and WNPQ 95.9 New Philadelphia, Ohio @1000. 5/4 WCWA 104.7 Toledo, Ohio @0700 and WKLO 99.7 Louisville, Ky when WJAS was off the air. 5/10 WBBY 103.9 Westerville, Ohio testing. 5/11 WFIL 102.1 Philly @0100, WIBG 94.1 @0600. 5/25 WWGO 103.7 Erie, Pa @1400 very clear station o/local WSTV 103.5 with little QRM. Well, that's it for now. 73(s. (Welcome to the column Richard, report often please) RW

Glen Hauser Box C 8638 Lowry AFB, Colorado 80230 CST

So far I've caught only one Es opening that reached the FM band on May 25. This correlated with a TV opening from the SE, but a simultaneous TV opening from California didn't produce any FM DX. All May 25 WTOC 94.1 Savannah, Ga @0935 WTOC wx. 1420 mi, tied w/Montreal to Enid for my greatest FM distance. WIIZ 96.3 Albany, Ga @0942 w/soul, EDT, ID, strongest of the opening and stayed in longest. WHHY 101.9 Montgomery, Ala @0949 triple spot and ID jingle. WDEC 94.3 Americus, Georgia @0959 ID, in/cut occasionally only 3kw. WRBL 102.9 Columbus, Ga @1002w/spots and promo for Braves BB @2:00. WRBL-3 also in. UNID 92.1 w/Lifeline. QRM from mx stn. WKEU 97.7 Griffin, Ga. @10:39 w/WKEU Newsreel, calling for people if they have any news. (They didn't) 3kw. WGKA 92.9 Atlanta @1050 TC WGKA time, PSA then plug "adult stereo station in the city of higher learning". WQXI 94.1 Smyrna, Ga @1059 WQXI-FM salute to a citizen. WAVO 94.9 AVondale, Ga. @1100 AM/FM ID 1:00, long loud tone, WAVO nx Capsule. Nothing in the realm of trops, but some local notes. KFBC 97.9 Cheyenne, Wyo. h/b running program tests for some time, but I didn't know it since they are 0900-1100 LT M-F only! KIAK 107.5 Lakewood, Colo formerly // 1600 CW AM in mid-May split to MoR stereo as KJAE (Kay-jay). Until the next, 73.

Fred Nordquist 302 Sandra Lane North Syracuse, New York 13212

No Es noted as yet this year, but EGW CX are improving. Only the twin-lead antenna on back of FM console used for DXing. Total logged is up to 55. New stations logged were as follows: 5/29 CHFI 98.1 w/nx 2200, CKFM 99.9 w/Air Canada ad, MoR mx 2215--both Toronto, 170 mi. 5/30 CFMO 93.9 Ottawa wx check 0752 165 mi., WBLK 93.7 Depew, NY w/rr mx 0756 130 mi., WROW 95.5 Albany, NY MOR mx 0820, WDKC 106.5 Albany w/nx/wx 0844, both 125 mi., WRPI 91.5 Troy, NY w/way-out mx for engineers, rr 1819, 5/31 CJET 101.1 Smith Falls, Ont. 125mi mx for Saturday night @2135. CKQS 94.9 Oshawa MoR mx, AM-FM ID 2346. 6/1 CFRC 91.9 Kingston MoR mx, ID @0030, CBL 94.1 Toronto s/off 0010, noted w/11kw, CHUM 104.5 rr ID @0032, Some s/offs noted: WROC 97.9, WHFH 98.9, WONO 107.9, WSEN 92.1, WAER 88.3 about or on 0000. WDDS 93.1 noted ON after 0030, w/all other Syracuse stations off. That's all for now, 73. (ALL off?? Grrrrrrrrrr.)

John Ebeling 9209 Vincent South Bloomington, Minn. 55431

Having just joined the club, let me introduce the equipment I am using. The tuner is a Sherwood 52200V, 9 years old now, but peaked for maximum sensitivity and selectivity. Antenna is a 10 element Channel Master FM yagi, also 9 years old, using a roter with a Jerrold FMX booster. Height is about 20 feet.

Ebeling (cont'd). Since my time has been limited for some time, and reception has not beed good. Since I began DXing here in Minneapolis 12 years ago, I have logged approximately 450 stations. I do not verie, since response was poor many years ago and it consumes too much time. Receptionwise, nothing to report except local activity. KEEY 102.1 100kw is now on the air, XR in St. Paul. WCCO-FM 102.9 power never announced, but must be about 3kw, finally is on the air after holding CP for ever 5 years. (John, VJ #5 lists 2700 watts RWW). The band here is pretty crowded with locals, hard to get any real DX as in years past, besides, I am only about 5 miles away from a couple of 100kw locals. Will write more in the future if I have any reception.

Hank Holbrook 7211 Chestnut Street Chevy Chase, Maryland 20015

The following stations were added to the log in April and May. All stations listed were reported. WCHR 94.5 Trenton, New Jersey ex WTTM 0857-0935. Some QRM FROM WDAC. This on 4/19. 5/10 WSFA Georgetown, Delaware 93.5 1948-2015 w/initial ET. Local-like reception @70 mi. Letter of verification stated in part "Undoubtedly you were the first person outside the station staff to hear WSFA". 3kw. 5/47 WING 92.1 Sag Harbor, NY 0603-0630 finally now on air on RS. Noted a number of times. 290 mi. WHUS 91.7 Storrs, Conn. 5/18 0904-0930 poor/good depending on CX. 5/24 WROR 98.5 Boston, Mass ex WRKO. Logged 0513-0536 @380 mi. 5/24 WFGU 10 7.1 Urba na, Illinois Es. Earliest skip opening noted by this listener and also this is highest frequency skip noted from this location. WPGU in 1650-1703. Also KASI Ames, Iowa and KDSN Denison, Iowa, both 107.1 taking turns dominating this channel. KASI 1658-1710, KDSN 1704-1731. KFMD 92.9 Dubuque, Ia 1732-1737 was last station noted on this opening. Total QSIs now total 521 stations from 31 states, 3 Provinces plus Bermuda, Cuba and Puerto Ricc. Hope everyone has a good DX season. WE've gotten off to a good start here and just hope it continues.

Bob Seybold Bennett Road Dunkirk, New York

This is my first report on FM, as I just joined the club. You will get plenty of reports from me in future, but this one is short. (Yea baby) Have done very little FM DXing since 1962 until lately. I just got several setups working. Have Motorola new home stereo with FM with Finco FM-4 and rotor at our home. Delmonico 4 band with FM portable, their super transoceanic model w/Finco FM-5 10 element antenna with rotor. Also us e TV antenna on rotor for FM at times, using a Winegard SC-54 26 element TV antenna. Get good to excellent results from all systems. Recent DX included June 8-9. Signals good to fair out 400 miles including WKAR 90.5 E. Lansing, Mich. and CKWW 88.7 Windsor, Ontario at 220 miles and many more. Will have a more complete report next month plus my station total to date. Fine with me Bob. RWW.

Bob Cooper Jr., 6221 Norman Road Oklahoma City, Oklahoma 73122

Greetings all. FM is off to a poor start for season here. All of the date live seen indicates Es is not likely to be a world beater like last years. Trops have been only fair too, so we can only hope for beter things to come. Some of the highlights of May and early June have been: 5/15 KFAB 99.9 Omaha steady @405 mi, instead of usual tropo scattering. KWBE 92.9 Beatrice, Neb @0915.5/18 KFAB again without flutter 0900, stereo quality @1500, KOWH 94.1 and KGBI 100.7 excellent 1500, KWWL 107.9 Waterloo, Iowa VG 1528 @559 mi., KICD 107.7 Spencer, Ia. VE 1747, KWOA 95.1 Worthington, Minn good 1817, WHHI 91.3 Highland, Wis. good 2030, WIVC 106.9 Peoria, All. good 2054; KROC 106.9 Rochester, Minn good 2257 @675 mi., KWMT 94.5 Ft. Dodge, Ia good 2317 WTAD 99.5 Quincy VG@2341.

Cooper (cont'd.) 5/20 KGMO 100.7 Cape Girardeau, Mo good 0045CDST and WMC 99.7 Memphis excellent 0050 @420 mi., No sign of usual tropo scatter flutter. Hmmmm. 5/24 2050-2058 first sign of E8 on FM this summer, from NE/E up to 93.5 MHz, no IDs 2245-2300. Mexican on 88.5 and 90.3, taped, but no IDs. 5/25 1305 first sign of Es for day, from west. KUOP 91.3 Stockton, California @1330, also KSJO 92.3 San Jose. KABL 98.1 San Francisco 1338 (note the call Bob, per VJ RWW). 5/27 WJTN 93.3 Jamestown, NY @1900 Es. WATZ 93.5 Alpena, Mich 93.5 also Es. 6/6 KCFM St. Louis 93.7 @1110 good @458 mi., WMC again @1115. I missed an apparent pretty fair trop opening before 1100 on the 6th, catching only the tail end of it. Signals were dropping when I tuned in, about gone by noon here. KCFM @0740, KRMS 93.5 Osage Beach, Mo. good, KESM 107.1 El Dorado Springs, Mo. good @0750, KLTB 106.3 Bolivar, Mo. fair @0752, WHBQ 105.9 Memphis, Tenn good @ 0803, KVEE 105.1 Comway, Ark. good @0820, KLYX 10d.1 Memphis good @0858 and WMC 99.7 still the loudest of the Memphis signals @0910. So, except for the opening of the 18th, things have been pretty quiet. Most disturbing is lack of decent FM Es this season! (Bob, have you taken a look at the sunspots this year, tremendous amoint of them! RWW)

Joseph Fela 167 Goodwin Avenue Newark, New Jersey 07112

Recent DX has been quite good. Here's a rundown of what's been heard: all times EST. 5/4 WRLC 92.1 Pa 2259 s/off, didn't answer report though, as curious if they are now using higher power and 2304 s/off WIBF 103.9 Pa. 5/5 WPGC 95.5 DC noted at 0008 w/WABC off, apparently NSP. 5/18 2222 WASH 97.1 DC finally IDed, 2235 WFRO 92.3 RI good, 2234 WLPL 92.3 Md weak w/antenna in other direction. I listed this one under its old call, WSID, in my last report. That's what I get for not waiting for a call letter ID, hi. and WRPI 91.5 NY @2328 for surprise. 5/23 2110 WFMZ 100.7 Pa o/WINA NY (a semi-local), 2133WESU 88.1 Conn. verie sez 1850 watts since Nov, so NOT 10 w as VJ has listed. 2302 s/off on 92.1, sure they said WRCM which is in NC, but call given only once and no location given. Then they went into an ET mx until 2312 when they left the air w/o any further ID. Tape of the portion caught sent to them, but no answer yet. This would be my far best trop if confirmed. 2359 s/off WMSH 106.7 Pa. 5/24 0026 WGH 97.3 Va good, 0040 WCMS 100.5 Va also doing good, 0102 WXYW 92.9 Va excellent, said 24hrs, 0107 WVEC 101.3 Va on AN, // to 1490 AM, 0506 s/on WEZR 106.7 Va (ER-Z radio"), 0515 WGAL 101.3 Pa. thru much slop WCBS 101.1, 0517 WNAV 99.1 Md pinning the meter while WXTC 107.9, same city only a "1" (scale goes up to 10), 0519 WTVR 98.1 Va way o/completely knocking out much closer WCAU 98.1. 1614 some Es in the form of WQNZ 95.1 Miss o/WGPA Pa Ex WNAT-FM. 1625 WMC 99.7 Tenn, a small miracle considering WBAI's messy signal on 99.5 (WBAI's mono signal causes the stereo light to flicker on/off during periods of heavy modulation which means something isn't right. Also WOOR 97.5 Oxford, Miss thru WTOA/WALK @1629, 1703 WSIU 91.9 Ill w/BB, 1711 KSYN 92.5 Mo, 1713 KWKI 93.3 Mo w/cw , "Quickie", 1721 Kansas sports on 91.5, guess KANU, 1729 KCKN 94.1 Kansas, and finally KOFO 95.7 Kansas @1732 w/nxcast being read by IRCAer Bob Davis, who signed my KOFO 1220 verie. 6/1 1950 WSTW 93.7 Del, ex WDEL-FM, 1959 WKCI 101.3 Conn, 2037 WMGM 103.7 NJ, no longer // to AM apparently, 2040 new WLNG 92.1 NY noted, 2159 2 stations on 99.1 IDed as WPIM Mass and WNHC Conn. WNHC dominating. 2208 WRPI 91.5 N Y in again, and unless my ears were playing tricks on me, NRCer Chris Lucas was at the mike, 2301 s/off WBSM 97.3 Mass, 2311 WROR 98.5 Mass, ex WRKO, very strong in spite of WOR 98.7, 2345 WCCC 106.9 Conn fair, and 2353 WBUR 90.9 Mass good. 6/2 0000 WBCN 104.1 Mass weak and 0001 s/off WFMN 103.1 NY, 6/11 0513 WESR 103.3 Va noted, VJ shows this as a CP. Locally WRVR 1067 NYC off AN, while WRLB 107.1 NJ is generally AN, but not every nite. WEEX 99.9 Pa is now AN-6 // to AM 100%. On trip noted WRKC 88.5 Wilkes-Barre, Pa on RS, 10 w surounded by mountains, also WWUH 91.3 W. Hartford, Conn. on RS. 73 to next.

## WHERADI

Robert B. Cooper W5KHT 4007 N. Pennsylvania Oklahoma City, OK. 73112

### CHANGES IN RADIO PAGING STATIONS:

Your editor currently has access to weekly reports from the FCC listing new stations, applications and changes affecting the paging facilities on the four low-bend channels: 35.22, 35.58, 43.22, 43.58. From these reports starting with the week of 28 Farch we've gleaned:

KGH860, Corry, PA on 35.22 iHz.
CP for 35.58 at Great Falls, Nort. (Will move to 158.70 iHz). KOH280, Phoenix, AZ, (moving to 152.74 IHz).

NEW APPLICATIONS: KMD986 in Sacramento, CA, now licensed on 43.58 1Hz asks for change to 43.22 LHz. Salem, OR Radio Paging (new) asks for stn on 43.22 SW of Salem.

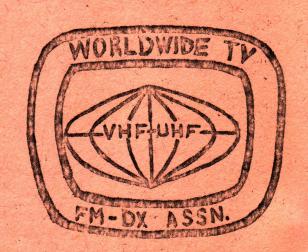
MEM STATIONS: KGI779 at Erie, PA on 35.58 lHz. Who'll be first to hear?

There has been a strange shortage of mail for this column the past 45 days, perhaps caused by my move from the Virgin Islands to Oklahoma City. If there is a lack of interest in this material, (there has been a bad shortage of reports for this column from the very beginning), we will suggest the the HQ Staff that the column be dropped. Your comments ere needed, and we will be persuaded not by passion-filled letters but only by volume. The majority will rule. If you care, at all, write now.

### Strictly personal

I have at last received the water/truck shipment of my goods from the VI. It took over 2 months for our belongings to make the trip. So the paging monitoring gear is now back in operation. I had shipped considerable amount of gear via air freight, but this water/truck ship-ment was additional. I have a vertical dipole cut for 35.58 IHz hanging on the side of one tower, and it appears to do a satisfactory job on both the 35 and 43 IHz channels. The local "Oklahoma Radio Page" on 35.58 lHz wipes out this channel for me, (this stn was always the first heard and last heard while in the Virgins, and was in daily for up to 10 hours), so I am concentrating on 35.22 and the 43 lHz chappels. I sort of miss 35.58 as it use to be my Favorite channel for monitoring.

Remember, if we don't get some interest and mail for this column, it will be dropped forth-with, pronto & fast. If you care, or don't care, write. The bulletin is growing so rapidly each month that the pages normally consumed here can be just as easily utilized for other more appealing material. If to drop it turns out to be the decision, we could and would still run features 3 or 4 times annually for those who do have an interest in this facet of the hobby. In other words, perhaps monthly is too darn often? 73, bob



EUROPERIN

SCENE

Roger Bunney Trelawne, Cupernham Lane, Romsey, Hants, England, -Zip So5 8JH

This time I will start with some details of East Germany, one of the Iron Curtain countries still using Jest European channel allocations. This is probably to enable West German viewers to see their programmes, in a form of visual propaganda.

There are only two transmitters operating in Band I in East Germany at present and we have recently heard that these have both

increased their powers from a mere 6 kw., to 100 kw. each.

Helpterberg ch. E3 100 kw. Vert.

Cottbus ch. E4 100 kw. Vert.

At the present time they do not use a test card as we understand it, but have a test pattern, which consists of horizontally placed frequency response gratings. Towards the bottom in a black bar, in which is the caption - DFF Berlin. Under sath this is a contrast grating, and beneath this is two other videa test sections. A print of this rather distinctive pattern will be shown shortly. The other pattern used extensively is one consisting of a test grid, with a contrast wedge across the centre of the pattern.

Prog. times approximate:

Mon.-Fri. 1000-1400, 1800-2300

Sat. 1000-2400 Sun. 1000-2300

I have recently written to the East German authorities in order to obtain latest data relating to their program times and transmitters. If they reply I will pass on all relevant data.

\*\*\*\*\*\*\*

The Austrian TV service also has two transmitters likely to be received overseas. These are:

Jauerling ch. E2a 60 kw. horiz. Patscherkofel ch. E4 60 kw. horiz.

Special note: ch. E2a is the same vision frequency as ch. 01, that is 49.75 mc. The test card in use is similar to the one used by some of the 4. German stations. It can be differentiated from the latter in that it carries no identification, whereas most of the W. Germans do. Also the contrast wedges in the circle are reversed with the black at the bottom of the vertical left hand wedge.

Test card is radiated from approx. 0900-1730

Approx. prog. times:

Mon., Tues., 1730-2215 Wed. 0900-1200 Thurs. 1000-1130, 1730-2215 Fri. 0900-1200, 1730-2215 Sat., Sun.

1600-2215

Rather a complicated programme system; apparently it allows shift workers to see some of the programmes they would normally miss. This is the only country that I know that makes provision for such workers.

More news of our stations will be coming shortly.

Till then - Good TV/DX

### MEXICAN FM STATION Ronald F. Reprinted from "Medios Publicatarios Mexicanos" (excluding S.T.Ls). 88.0 XHCM-FM Tikw Cuernavaca, Mor. 11-23 90.5 91:3 Mexico, D.F. "Radio Trece." Mexico, D.F. "Radio C. N." XEDA-FM XHRSM-FM\* Mexico, D.F. 5kw 92:1 XHFO-FM Mexico, D.F. "Radio Triunfadora en F.M." 1kw 06-03 92.5 Monterrey, N.L. "Stereo Rey." Monterrey, N.L. XHSRO-FM 18kw 07-01 93.3 93.7 93.7 XEH-FM 3kw XHPX-FM\* Ciudad Juarez, Chih. "Canal de Oro." 5kw XHPA-FM Acapulco, Gro. 250w. XHNOE-FM Nuevo Laredo, Tamps. "Radio Rama." lkw 95.3 Mexico, D.F. "Radio Amistad." Guadalajara, Jal. "Stereo Rey. XHSH-FM 1kw 08-24 95.5 XHRO-FM\* "Stereo Rey." 20kw 07-01 97.1 XEBA-FM Guadalajara, Jal. "Bellas Artes en F.M." 2kw 07-01 97.9 98.1 XETIA-FM Guadalajara, Jal. "Formula Melodica 98" 07-23 XHMLS-FM Matamoros, Tamps. ·5kw 98.5 XELA-FM Mexico, D.F. "Buena Musica en Mexico." 4kw 99.3 XHMS-FM Monclova, Coah. 250w. 99:3 XEN-FM Mexico, D.F. "Radio Mundo." 3.8kw Mexico, D.F. "Radio Maranatha Lexico." XHMM-FM lkw 09-23 100.3 XEAV-FM 🦠 Guadalajara, Jal. lkw XHMG-FM\*\* Monterrey, N.L. 100.5 20kw 100.9 XEOY-FM Mexico, D.F. "Estereo Mil." 20kw 101.9 XEAD-FM Guadalajara, Jal. 20kw 24hr.

\* indicates station is not yet on the air.

Mexico, D.F. "Radio Caravana."

Mexico, D.F. "Radio Seiscientos Sesenta."

20kw

lkw

lkw

24hr.

Times (local)

## LAJE HO DEWS...

Sabinas, Coah.

Merida, Yuc.

103.3

104.9

106.5

?

XERPM-FM

XHRPE-FM

XHMR-FM

XHGL-FM

XHEC-FM\*

We are sorry to announce to old AIPAers that we have just learned that Art Collins passed away in February. Some of us had the pleasure of talking to Art only last Winter on the phone fow awhile. Art was the last president of the AIPA and one of history's all-time great DXers and I might add a real nice guy to know. We'll miss him.

DXers and I might add a real nice guy to know. We'll miss him.

Nould someone care to make a list of regional networks and their stations for our benefit? There are numerous state ETV, sports and other networks or groups of stations that ID as a "network" or group: Kansa State Network, Lionel Network, baseball networks, etc.

HQ has available a photocopier and can copy pages from backissues of WTFDA, AIPA, DXing Horizons, and other publications for a
fee. A complete set of WTFDA digests and DXing Horizons is available
but a complete file of other publications is not available—only certain issues. Prices are 15¢ for the first pages up to a maximum of 5,
and 10¢ for each additional page. Prices of paper have recently gone
up so a price increase was necessitated even before the service was
first offered. (If you do not know the exact issue and page of the
desired article, please add 10¢ research fee per article or item.)
This is a service of WTFDA headquanters for those who have requested
unavailable back-issues of WTFDA, DXH, AIPA, etc. Selected WTFDA artiicles will be reprinted eventually in booklets but not in near future.)

Bill Heusmann 3116 Sangamon St. Steger, IL, 60475

with skip slowly trickling in, so are the CCI reports. Many of these-have been gleaned from

reports to the EDX column (Thanks Morrie:). Often this means that we don't have too much information to go on. So, if you've run across any mysteries in your Dxing, send full details to CCI. You will then have the top Dxers in North America helping you out! Those reports which have come directly will generally be quoted directly to lessen the chances of omission or distortion of facts.

- -GLENN HAUSER (Box 8638, Lowry AFB, CO, 80230) has two unIDs. On Tues., June 3, at 2340 CST Glenn had a 'channel 3 from NE (only station Ided... CKPR-2): syndicated series; 2348 '5 Minutes to Live By', an antiwar meditation; 2353 SSB (Wha'? bh), 2354 off; no IDs or s/off anmt! And an FM unID on Sunday, May 25 at 1037 CST. On 92.1 mHz 'Lifeline' from Georgia-Alabama area. Anybody have a Lifeline log? Or possibly California
- -MARK KOZLOWSKI (306 Riverside Ave., Buffalo, NY, 14207) took time to write about his unID on Sat., June 14 at 0705 to 0715 EST. 'On ch. 4.... I received a strong signal from a N-NW direction (Propagation??). The station was running a station ID ... about

0708 EST the Frank Curto Show, an agricultural program about home gardening came on. At 0715, local 4 came on.

horse & rider symbol? -ROGER BROWN (624 Evergreen, E. Lansing, call MI, 48823) on Weds., May 28 had Twins & city baseball on channel 2 at about 22:45 EDT(?). CKCK-2 was also seen; unID is possibly KDIX, Dickinson, ND.

- -PAUL CICERI (750 Champlain Ave., Windsor 21, Ont.) Sat., May 24. UniD ch. 3 w/ABC Wide World of Sports. At 18:35 EST ads for 'Barnes', Hot Shot & Tide. 18:50 program called 'Wagon Wheel'. Not certain all from same station. Also seen, WESH-2 (16:40) and WPTV-5 from 15:50 to 16:30.
- -BOB SEYBOLD (Bennette Road, Dunkirk, NY, 14048) May 29 (time??) un ID NET station, OH, IN, MI area, w/movie. (Try WUCM-19, Bay City, MI. bh) About 22:00: a weak ch. 31 (WMBD-31? Peoria, IL. bh) Also ch. 32 with 'Movie 32' ad during break in movie. (Sounds like WFLD-32, Chicago. bh) At time, UHF to west 'super', WXON-62 excellent, WKNX-25 and WDHO-24 knocking out closer stations on channel. On June 11(?) at 09:00 (presumably all times EDT), ch. 14-15, un IDed IHTP. To west(?).
- -MORRIE GOLDMAN (8046 S. Euclid Ave., Chicago, IL, 60617) phoned in his mysteries along with others'. May 24, 16:40 CDT, channel 3, SE. 'Jonathan Winters Show' and also ABC Wide World of Sports. IDed at 17:07 (see sketch) WRC-4 logged at 17:41. (Your editor also saw this unID, but failed to log needed WRC!) June 14, skip on 3 to E-SE. At 19:30 CDT, 'My Three Sons' and ad for First Merchants National Bank.

  June 15, ch. 4, skip to west. At 23:12, the ABC Sunday Night Movie. Unless delayed broadcast, would have to be Pacific Daylight Time. At time,
- KOTA-3 extremely strong, KDUH-4 strong and KTWO-2 seen in Steger. -Finally, your editor, BILL HEUSMANN (3116 Sangamon St., Steger, IL, 60475) can use some assistance. Sat., May 24. Skip on ch. 2 under local WBBM. From 16:55 on, the movie 'Anastasia'. 16:57 Quasar and Safeguard ads. 17:43 break, promo for 'Radio 106.5, Parlaiment, D-Zerta and Yuban ads. UnID station has 2- offset, WEDU-3 and Washington-Philly area in at time. WFMY, Greensboro, NC says not them. Same day, on ch. 3 at 17:50 CDT, 'One Moment Place' slide and rock music (possibly from another station) for saysons minutes. On Weds. June 18 sibly from another station) for several minutes. On Weds., June 18,

during a strong so p opening to the south, two or there unIDs were glimpsed under local WBBM-2. At 20:57 CDT, saw a slide reading 'Trouble on the cable', with word 'cable in white letters on black horizontal bar stretching across screen. At 20:58 NET logo and station ID. Glimpsed 'channel 2' written across black, somewhat shield shaped blob. Then 'World Press' title with letters formed into a circle. UnID NBC and baseball also on 2.

In order to forestall a possible CCI report on a mystery during that June 18 opening, I might add that station running a tiny 'W' in a box located on the lower left of the screen from at least 22:30 CDT on is KGNC-4, Amarillo. We don't know yet what the 'W' is for, but it sure was an easy way to tell if KGNC was still in.

There you have it, mystery fans. Check your notes, search your memory; see if you can't help your fellow DXer out. If you have any ideas about these unIDs, please write directly to the DXer himself and/or to the CCI column, so that we can share the information. And next time one of those eternal un IDs pops up, send full details to CCI! Keep those cards and letters coming in. I especially want to thank that Dier in What Cheer, Iowa who sent a present that has me all choked up....a shirt with a size ten collar!

73 and less CCI to all,

Those reports do keep flooding in! Just as I finished typing the column, MORRIE GOLD-MAN called with this unID: Thurs., June 19, meteor scatter, ch. 5, antenna SW. At 02:00 CDT sharp an ID burst in w/photo of Paul Harvey on right side of screen. It isn't much, but can anyone help?

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the state of the state of the state of WORLDWIDE TV-FM DX ASSN. SERVING VHF-UHF DX ENTHUSIASTS P. O. BOX 5001 HARBOR STA. MILWAUKEE, WI. 53204, U.S.A.

excellent, the Seed Williams

of the folia (1) if and is placed to



1990 Al inquoidly provi Mr. Albert D. Kopec RD 1 Himrod, NY 14842



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