

From The STAFF

A SLOW SPRING?...The first part of the spring tropo season may have been slow for many of us, according to several DXers. The exceptions to this were California and the areas near the Gulf of Mexico. Depending upon location, some have complained it's been abnormally cold and rainy, or hot and dry. However, things may be looking good for E-skip. As of this writing, we seem to be having earlier than usual Es activity. Some of it took place as F2 MUFs were rather high, so perhaps we'll be getting word of some interesting F2-to-Es links on some signal paths. The F2 MUFs continue to impress the experts; some now believe that upcoming activity later this year and early in 1990 will be the best since F2 skip was first observed. For now, here's hoping we're all observing E-skip!

EARLY E-SKIP WARNING...Speaking of E-skip, if you monitor the lower bands for signs of openings getting started, there are a few things to keep in mind. Les Remmer points out that much of the 30 to 50 MHz activity in single-hop E-skip range (usually around 1000 miles plus or minus a few hundred) has moved to higher bands, meaning that certain pager frequencies in the lowband VHF range (such as 35.22, 35.58, 43.22, and 43.58 MHz) may not be quite as active as they used to be. Add to this the fact that monitoring the 27 MHz CB band is not always the best way to detect Es activity for several reasons, including the fact that daily F2 skip activity may be in together with the Es, sometimes obscuring the Es stations. Thus, with the lower frequencies not as reliable as they used to be as an early warning for E-skip, perhaps nothing beats the practice of keeping an eye on a TV tuned to your lowest open lowband channel in the likely time periods for E-skip to get started, roughly 10 a.m. to 12 noon and 5 to 7 p.m. local time.

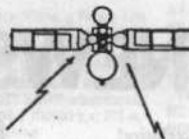
COLUMN NEWS...Maybe it's the lousy spring weather, final exams, extended spring vacations, or editors frozen in hypnotic trances after staring at the "northern lights" too long, but a few regular columns were not on hand at deadline-making for a much smaller issue than we had expected this month! In the case of WESTERN TV DX, Fred sends word that only two reports with a total number of only four (!) loggings were on hand, so he had no June column.

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Thanks to Dave Nieman for this month's cover.

SATELLITE NEWS



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Coming in a few months will be the annual satellite-by-satellite survey of all services as well as sub-carriers. In terms of who watches what - WTBS remains #1 followed in order by ESPN, USA, CNN Headline, TNT, CBN, Nashville, MTV, Lifetime, Nick at Night, Discovery, VH-1, Nickelodeon, A&E, and PNN.

Whats going on of late is the following:

Satcom 5 - Aurora - XPDR 21V - many feeds from Alaska re - The Oil Spill. This is a Continental beam and is visible in Eastern U. S. - one of the few transponders on this bird that can be viewed here.

On Satcom 1 139 W
20H is now WGN Chicago unscrambled for the moment. Why not another IA or San Francisco station
24H is Prime Sports Network

Satcom 3 -
9V - Z Channel is definately OFF replaced by religious channel

IBM - SBS 5 at 122 W has color bars ID at XPDR 9 (21H on my DX)

Telstar 3 - 125 W
19V - Starion parallel to Spacenet 3 19H

Westar 5 - 122.5W
8V - BCO - full time news broadcast from Mexico City for Galavision. Operates when XEW is running usual Televisa Programs on Morelos.

Spacenet 1 - 120 W
9H - National Christian Television has moved here from 5H

Anik C-1 107.3 W is now operational with most xpdr's in operation parallel to C-3. This is putting a power house signal into this area. 1,000 percent better than C-3.

Spacenet 2 - 69 W
3H - Stardust Theatre and Tuxedo Network seem to be here lately
7H - CNN/Telemundo News Feeds
21H - Worldnet - United States Information Agency

Intelsat VA F-13
ITN remains on 14V with possibly Spain the PAL/NTSC color bars and natural sound soccer from Spain on 16. XPDR 12 remains a mystery - though a SECAM feed from France was once noted - it remains NTSC color bars

PanAmSat - 45 W.
13V - CNN/Telemundo News feeds.
K-Band (L on my DX) but ID's as 3 - ESPN INTERNATIONAL in the clear and with good signal here. PLEASE - is anybody else getting anything else off of this. I am not in it's footprint here and do not know what it's C-Band operations are. Chile has vacated Intelsat VA F-11 and I presume has taken up operations here.

That's all for now. See you in 30.

FCC FM NEWS

Readers' Reports—A VUD Exclusive!

Nick Lombardi sent word about two Atlanta area stations applying to be co-owned. Liberalization of FCC rules now enable WEKS 104.1 La Grange and WYAY 106.7 to be under the same ownership. Stations share a 1 mv/m overlap in Atlanta, but not a 3.16 mv/m overlap. So DXers there and elsewhere might get the same programming on both channels—unless the stations opt for continuing their separate ways, programming-wise.

"FM listening is a real mess in southern San Diego!" writes Jim Renfrew, visiting from Rochester NY. "My in-laws' house practically stands in the shadow of the Tijuana FM antennas, but I did go on a few drives into the mountains about 23 km east of San Diego to see what the truck radio would find. Almost everything I heard is as shown in the 11th edition FM Atlas. I look forward to 12 Edition. Along with others, I suggest larger size, as some maps are getting real congested. I like having translators shown in smaller type.

"I like your editorial position about AM radio, as I am and have been primarily an AM DXer. It is certainly true that deregulation has obliterated one of the chief benefits of AM: clear-channel listening. Because of congestion on once clear channels, my long-time interest in trans-Atlantic and Latin America DX has become much more difficult, although if AM is facing its demise, as you claim, perhaps I can look forward to new opportunities in the decade to come. For the moment, everything really sounds like noise at night on most channels. Uniformity of programs—to cut costs and to enhance market size—has reduced much of radio's excitement for me. In recent trips to San Diego, Tampa, Washington and North Carolina, you wouldn't know where you are from the programming (AM and FM, except for a local AM call-in program I heard from New Orleans with the host agreeing with callers about the aims of the KKK!). NPR news programs are about the only programs I listen to for enjoyment (as opposed to DXing), as many news features cover in-depth regional stories."

"FM may have better fidelity, but if the program only plays the music and tells me the news that they think I want to hear according to some consultant, instead of broadening my awareness of music and events, then it is as dead as you claim AM to be!

"I was glad to see, according to hints in VUD from FMedia that Family Radio's expansion is being questioned. We don't need more satellite feeds and tapes; we need locally-produced programs, not only to hear about our own neighborhoods, but also to democratize the skills of radio engineering and programming within diverse communities. The ridiculous local example of this is WMHN in Webster that essentially simulcasts what was already being heard on a translator of WMHR. Both stations operate concurrently in the same community."

John Ebeling questions the new grant at Grand Marais MN. Yes, it's to be on 95.3, not 100.5, as reported in other media. The channel was changed to allow Cloquet to move from 100.9 to *100.5. Now Duluth's been allocated *97.3, so there is a prospect of yet another noncommercial station in this area (Family Radio—here's your chance!). It seems the Minneapolis-area stations are all leaving downtown for the Shoreview antenna farm.

Paul Gaines sent lots of stuff, including an article saying WJZZ 105.9 Detroit is trying too hard to appeal to a mass audience by not "even playing jazz, just this urban disco pop." WDET *101.9 is growing, but still with transmitter on Woodward Avenue, and "the pole is deteriorating so rapidly that it could fall any time."

Bill Nienajadly also sent lots of information, including an article chastising the new WSKQ-FM 97.9 New York

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Contributions invited!



Chuck Wilbur, WDET News Anchor

for excluding the bulk of Latinos in its potential audience by not playing rock. Instead, it features salsa, merengue, samba, reggae and R&B. "The announcers still sound like they're from the '50s." Newark's WHTZ, Z-100, keeps up its first place in the ratings, but only slightly outpacing WPAT-FM 93.1 Paterson NJ, with B. Bill says WJLK-FM 94.3 Asbury Park NJ claims to use DAT as its primary music source. "No major fidelity difference noted. I sold my JVC TX900 tuner, saving for the Onkyo T-9090II, so back for now with Superadio. DXing temporarily on the back burner... My idea of totally revamping the AM band maybe wasn't as radical as you think, but to extend the band to 1700 kHz as a help would be a total failure. I find the idea of various power levels in certain parts of the AM spectrum and channel staggering a far more feasible idea. [There are so many formats not tried on AM] like classic disco, modern new wave classic hits, heavy metal, all CD, all request, AOR on AM. The owners are partly to blame, too. Would you turn to something that doesn't hold your interest? I'd like to see AM saved, but the AM owners have to come up with something better than talk, MOR, ethnic on AM." Bill also sent an article about WBGO 88.3 being 10 years with its all-jazz format. Station is also considered invaluable to local jazz musicians, fans, and the record industry by nurturing the art of jazz. "We're not just going for the people who have converted (to jazz), but we're trying to get new listeners who aren't familiar with jazz."

Doug Allen sent much valuable FM news from CO, and a little card promoting their Pikes Peak Bed and Breakfast, at 719-687-3549. A 10% discount is offered WFTDA members there! It's open year 'round, and you are invited to write for reservations and directions to PO Box 5646 Woodland Park CO 80866.

Richard Reese noticed FMedia! was late last month because of work on the new FM Atlas delaying things. "I am looking forward to getting the new book." Joe Fela, too, noticed things a little hectic in April, with FMedia! not sent out until mid-month. Joe says "nothing new on FM, but I haven't been doing much tuning due to a death in the family in March. With the colder-than-normal weather, I don't think there's been anything to hear any way."

W. R. McIntosh continues to be a good reporter from southern CA. He sent an article about morning dj-wars in L A, with Scott Shannon at KQLZ 100.3 against Rick Dees of KIIS and Jay Thomas of KPWR. KPWR so far is dominating the pack, followed by KABC AM, then it's KIIS-FM, KLOS-FM, KNX AM. KFI AM doesn't even appear in the top 10.

Benn Kobb quotes from an FCC news release that has relevance to DXers interested in bands and services a

FCC-FM

new law may frown upon. "The ECPA does not prohibit the manufacture and sale of scanners, or any receiver based solely on the ability to receive specific frequencies." "I congratulate you for continuing to advocate expanded use and awareness of SCAs as a public resource."

Here's a picture of KPWR's Jay Thomas (see McIntosh report, pre-



ceding page)

Dave Sinclair sent an item from the Burnaby NOW, a community newspaper in that BC town. A student station at "SFU" (Simon Fraser University?). "CJIV," hopes for a wider audience and conversion from cable (94 FM) to regular FM. Station has a \$30,000 annual budget. Student funds are the issue. If it can go FM, an increase per student of one dollar per semester will be necessary. No word yet as to whether an application with the CRTC is about to be filed. "I hope you will find this item interesting for your column," muses Dave.

Now onto stuff which appeared in the May FMedia! newsletter. Look also for the feature, "See Also," in which I mention FCC-FM type of happenings from last month's VUD.

New FM Station, Translator Grants

Selected translators only; more are in FMedia!

- CA Greenfield 107.9 1500 h.v; 728 m
CA Salinas 97.9 3000 h.v; 100 m
CA San Diego KIFM 98.1 28200 h.v; 195 m, KIFM Broadcasting, replacing interim grant
CA Winton (Merced) 98.7 3000 h.v; 100 m
CO Purplegate K210BA *89.9 (KSUT 91.3 Ignacio) (junction
CO Ridgway K201BN *88.1 (KJOL 90.3 Grand/ FL Key Colony Beach (Marathon) 105.5 3000 h.v; 100 m, R. L. Silva
FL Rockledge 102.7 3000 h.v; 100 m
GA Cleveland 101.9 3000 h.v; 100 m
IL Bushnell (Macomb) 104.7 3000 h.v; 100 m
IN Mount Vernon 106.7 3000 h.v; 100 m
IN New Haven 107.9 3000 h.v; 100 m
LA Bunkie 104.3 3000 h.v; 100 m
ME Old Town (Bangor) 107.3 38300 h.v; 171 m, Penobscot Indian Nation (Alive, Inc.
MI Escanaba W218AA *91.5 (WNMU 90.1 Marquette)
MI Marquette W220AJ *91.9 (WNMU)
MI Newberry W216A1 *91.1 (WNMU)
MO Bonne Terre 104.3 3000 h.v; 100 m
NY Clyde 93.7 3000 h.v; 100 m, Kic Radio, Ltd.

"CJIV" Hopes for FM in BC

NY Elmira *90.3 7000 h.v; 122 m, g, Family Life Ministries (Binghamton)
NY Vestal W208AJ *69.7 (WSKG-FM 89.3/ NC Louisburg 102.5 3000 h.v; 100 m, Franklin Bstg. Co. [Hendersville NC station
SC Greenville WMY1-1 102.5 1000-w-boost or/ TX Galveston KQKK 106.5 100000 h.v; 213 m, KQKK, Inc., final decision
TX Hondo 98.5 3000 h.v; 91 m, Radio Medina
VA Lawrenceville WLES-FM 98.9 3000 h.v, 47 m
WV Danville 92.5 500 h.v; 212 m, Price Bstg. Co. [roes County Bd. of Ed.
WV Lindsay *106.7 3000 h.v; 37 m, Mon-/ WY Kemmerer 107.3 850 h.v; 180 m
NB Grand Falls 105.1 2900 h.v, French community station, La Cooperative des Montagnes Limitees. Other grants are for Edmundtown with 4100 watts at an unannounced frequency, and Saint-Quentin, which application conflicts with another proposal, so the CRTC is deferring action until another frequency is selected (power not announced)

Call Letters Assigned

- AL Bay Minnetta 105.5 WMML-FM (WLPR)
AL Brantley 104.3 no calls (was WHTA)
AL Citronelle 101.9 WKQR (WSYE)
AL Mobile *88.5 WAYF [see AL]
AL Tuskegee 99.9 WACO-FM (AM is in Tallas-/ AR El Dorado 93.3 KLTV [has new calls]
AR Pine Bluff 94.9 KZLR*-FM (KZLR/AM/ CA Barstow 95.9 KXXZ
CA Berkeley 102.9 KBLX*-FM (KBLX-FM; AM has new calls)
CA Cartago 102.9 KWTY
CA Healdsburg 92.9 KHTT (KRED)
CA Manteca 96.7 KIZS (KSJO)
CA Orange Cove 100.3 KMAK
CA Ridgecrest 104.9 KLOA-FM (KFIO)
CA San Jacinto 96.1 KWRP
CO Cortez *91.5 no calls; WSJE set aside
FL Madison 104.9 WWBA (WIMV)
FL Naples 93.5 WLAZ (WRGI); *Laser 93.5*
GA Athens 104.7 WALR (WAGO), 313 m (100000 h.v). New tower tall while workmen were tightening support cables at the top.
IL East St. Louis 101.1 WSNL (WMMR), m, "Sunny-101" (strict), "hourly ID only mentions East St. Louis, not St. Louis MO"
IL Henry 100.5 WRVY*-FM
IA Red Oak 95.3 KOAK-FM (KLRZ)
KS Caneey 101.1 KEQJ
KY Buffalo 101.5 WRZI
KY Shelbyville 101.3 WCKD (WCKP)
LA Berwick 105.9 KPVO
LA Hammond 103.3 WKJN-FM (WKJN)
ME Kittery 105.3 WKCD (WYCD)
MI Ann Arbor 107.1 WAMX (WPAG), m, "Mix-107," and "a blend of new age jazz and the "Quiet Storm" approach... You need a column in FMedia! detailing the death of the beautiful music format. You can title it "FMorgue". These stations are dying off and will become extinct sooner than AM stations, a subject that you cover with much enthusiasm. . . . [WAMX] is the perfect upscale format for this college town/high-tech area."
MI Bay City *90.1 WUCX-FM (TV is in Bad Axe)
MI Glen Arbor 95.9 WTHM
MN Crosby 101.7 KTCF (KCCD)
MO Ava 105.9 KCOA*-FM
MO Cameron 92.3 KDEE
MT Hardin 95.5 KKUL-FM (KBSR-FM), r
MT Shelby 97.9 KYCC
NV Las Vegas 103.5 KLTN (KKNW), m, "New Lite 103.5," and is Stereo
105.1 KKNW (KLTN)
NH Canaan 105.7 WVF
NH Nashua *88.3 WJCF
NY Clifton Park 96.7 WVKZ*-FM (WVKZ-FM; AM in Schenectady gets new calls)
NY Fort Plain 101.1 WLKO
NY Poughkeepsie 92.1 WRNQ (WLMS)

June, 1989

- NY Vestal 103.3 WLBT
NY Waterloo 98.5 WNYR*-FM, on air May 19, \$, m ("light hits")
NC Fuquay-Varina 103.9 WAVQ (WAZZ)
NC Hatteras 97.5 WYND-FM (AM is in De Land FL)
NC Hickory 102.9 WEZC (WRLX), "EZ-102.9"
NC High Point 100.3 WWSB (WOJY), "B-100," still m [FM; AM has new calls]
OH Bellefontaine 98.3 WPKO*-FM (WPKO-/ OH Uhrichville 99.9 WTUZ
OK Commerce 99.7 KCCX
OR Redmond 102.9 KSIJ (KPRB-FM)
PA Avis 99.9 WHOE, ID with Lock Haven PA, \$, should be on by now, simulcasting with WHTO 103.9 Munsey PA
PA McConnellsburg 103.7 WEMX (WCBG)
PA North East 100.9 WKRT-FM (WHYF-FM); to embrace stereo?
SC Aiken 99.5 WKXC-FM (WKXC)
SC Columbia 103.1 WOMG (WPRH), r (oldies), "Majic-103.1"
SC Lake City 100.1 WQTR (WGFQ)
SD Faith *97.1 KPSD-FM (TV is in Eagle Butte)
SD Rapid City 104.3 KTOO-FM
TN Germantown 94.3 WZLI-FM (WEZL)
TX Cameron 101.3 KJKS
TX Corpus Christi 93.9 KMXR (KSTE)
TX Fort Worth 94.1 KLTY (KOJO)
TX Friona 95.1 KGRW
TX Odessa 96.1 KOTX
UT Delta 95.7 KIPP
VT Rutland *90.5 WZRT (WFTF)
VA Buffalo Gap 105.5 WSKO (WSPV)
VA Clinchco 93.1 WDFC-FM
VA Ruckersville 92.1 WXZY
VA Spotsylvania 93.5 WPLC (WYND-FM)
WA Othello 97.7 KZLN*-FM (KZLO)
WA Pullman 99.5 KZZL*-FM (KPNP)
WV Vienna 100.1 WDMX (WBNN)
WV Welch 102.9 WELC-FM
WI Baraboo-Madison 94.9 WOLX (WILV), r, "Oldies 94.3," "A complete surprise."
WI Oshkosh 96.7 WUSW (WAHC)
WI Tomah 94.5 WZFR
WI Watertown 94.1 WTFX (WMLW)

Facilities Changes Granted

- CA Sacramento KOPT 100.5 d-a, adds vertical KWOD 106.5 125 m (50000 h.v) [000 h.v]
FL Daytona Beach WWLV 94.5 448 m (100- / FL Gainesville WYFB *90.5 97000 h.v; 107- / FL Micanopy WGGG-FM 97.7 1250 h.v; 151 m
IL Chicago WUSN 99.5 8300 h.v; 358 m
IL Pekin WGLD 95.5 (from 95.3) 7000 h.v; 189 m, 81
IL Ramsey (new) 93.3 (from 105.3)
IL Rock Island WVIK *90.1 11200 h.v; 334 m
IN Kokomo WWKI 100.5 50000 h.v (143 m)
KS El Dorado KBUS 99.1 (from 99.3) 42000 h.v; 157 m, C2
KY Corbin WKDP-FM 99.5 25000 h.v; 216 m
KY Manchester WWXL-FM 103.1 2650 h.v; 103 m (3000 h.v)
MA Tisbury WMYV 92.7 100 m (91 m)
MN Thief River Falls KSRO *90.1 3000 h.v, v
MN Wroclaw KKWO 92.5 141 m (100000 h.v)
MS Housh WPCP-FM 93.3 550 m (100000 h.v)
MO Gainesville KMJC 99.7 34700 h.v; 180 m
MO Kansas City KCAJ *88.5 1200 h.v; 281 m, d-a, embraces S [tereo]
MO Kirksville KTUF 93.7 (from 93.5) 50000 h.v; 150 m, C2
MT Billings KFBA 94.1 310 m (100000 h.v)
NE Lincoln KUCV *90.9 16000 h.v; 228 m, transmitter Hillam NE, signal in Lincoln to become weaker, with KRNU *90.3 Lincoln interfering, I predict
NV Lida K232BM has KIBS 100.7 Bishop on it, not KPAH 92.7 Tonopah NV, but "is barely audible in Lida, which is just a ranch on NV Rt. 266, but strong near Oasis Junction CA, some 16 km west in the Fish Lake Valley"
NM Carlsbad KCDY 104.1 151 m (100000 h.v)

NY New Paltz (new) *88.7 to be 1000 vertical, 100 wats horizontal (13 meters)
 NC Banner Eik WZJZ 100.7 550 h.v; 231 m
 NC Eden WMY 94.5 296 m, d-a, (100000 h,v)
 OH Toledo WOTL *90.3 700 h.v; (115 m, d-a)
 OK Dallas KFXX 92.1 5000 h.v; 118 m, C2
 PA Dallas WDLZ 93.7 750 h.v; 207 m
 PA Ebensburg WYDQ 99.1 24000 h.v; 217 m
 PA Mount Union WXMJ 99.5 439 m (150 h.v)
 TN Lovellville WST 94.5 (from 94.3) 50000 h.v; 80 m, C2, now \$
 TN Martin WCMT-FM 101.7 100 m (3000 h.v)
 TN Memphis WKNO-FM *91.1 experimental station with 100000 h.v; 176 m
 WSMS *91.7 experimental station with 25000 h.v; 123 m, d-a; apparently to test whether both Memphis stations can coexist with higher powers than their present licenses allow

TX Cameron KCRM 103.9 (from 103.1) 50000 h.v; 150 m, C2
 TX Lufkin KYKS 105.1 325 m (100000 h,v)
 VA Christiansburg 100.7 1850 h.v; 131 m, grant to Niviana Radio Besta., with Valley Radio Corp., withdrawing its application
 WA Wenatchee KSSY 104.9 6300 h.v; 400 m, C2. Correct maps, FMA-12, p. 83 to show correct calls (not KYJR) on primary and translators

Stereo, or to be Stereo

AL Camden WYWC 102.3, s, "Y-102"
 AL Fort Mitchell WAGH 98.3, s, "Magic 98"
 CA Chester KCMT 98.9 mr, ID with Greenville, slogan (not a nonID): "Regional Radio FM-99 KCMT"
 CO Castle Rock KZRZ 92.1, ID with Denver (not "KADX," as in FM Atlas-12, p. 152)
 CO Colorado Springs KTLF *88.7
 KAFA *104.5, p., "apparently DJ's choice; DJs are cadets at AFA. It's weak here (near Pike's Peak), KAMI-FM (Cozad NE) fades in over it from time to time." [go TN
 GA Ringold WSGC 101.9, serving Chattanooga/
 IL Metropolis WREZ 105.5 m, "EZ-105"
 NV North Las Vegas KUJL 104.3, b (although one reporter says they're adult contemporary/rock)
 NV Pahrump KUDA 107.5, "Oldies-108," r, ID with Las Vegas
 TN Kams WCKS 93.1, r, "93-Kiss FM" (strict) Still Monophonic
 AL Cullman WFHM-FM 101.1
 AR Dermott KXSA 103.1
 CT South Kent WGSK *90.1, because of the mountains, and being below average terrain.

Format Changes

Formats are the same as in the "FM Atlas"
 AL Auburn WKRR 97.7 k, "Kicker-97"
 AL Ozark WNER 103.9 s, "Dothan's Energy 103.9" (sic)
 AZ Tucson KWFN 92.9 r (oldies), "Cool 92.9"
 CA Santa Cruz KLRS-FM 99.1 mj, PMN Breeze
 CO Security KBE 105.5 mj, PMN Breeze
 FL Santa Rosa Beach WVAW 102.3 mr, adult contemporary [go's 94 Rock/
 GA Americus WDEC-FM 94.3 rp, "South Georgia/
 Correct FM Atlas-12 p. 157. Calls are not "WMTZ," and nonID is not "94-Gold," which two features are for WMTZ Martinez GA (which is no longer "2-94")
 IL Peoria WSWT 106.9 m, "soft ac"
 MD Federalburg WDFE-FM 107.1 m, "soft ac"
 MN La Crescent KQEG 102.7 to be r, SMN Pure-Oldies [temporary]
 NH Meredith WMRQ 101.5 r, "adult con-/
 NJ Teaneck WFDU *89.1 kf, "mostly old time country and folk music during their brief stay on the air (by 5 p. m., they're gone and WNYU is there)"
 NM Portales KSEL-FM 95.3 rk, s, back on air

NY DeRuyter (Syracuse) WOIV 105.1 g, "seemingly still g format. They always played quite a bit of c, however, like Family Radio and Mars Hill Network (WMHR) do."
 OH Findlay WKXA 100.5 m [never built]
 OH Lima WLSR 104.9 m, "Lite Rock 105"
 OR Ashland KCMX-FM 101.9 m, "soft ac"
 TX Bastrop KSSR 107.1 mj, "new age"
 TX Houston KLTR 93.7 r, "adds jazz 8 p. m. to 10 a. m." [format; K-Love"]
 UT Bountiful KLVV 99.59 m, "mellow ac/
 UT Provo KZHT 94.9 r, CHR, "Hot 94.9 the rhythm of the '90s" [air in mono"]
 UT Tooele KTLF-FM 92.1 r, "top 40, back on/
 VA Berryville WAPP 105.5 m, s, back on air, simulcast with WESI 104.9 Strasburg VA
 ON Toronto CFNY 102.1 rp, with more CHR

See also MAY VUD for

AL Ozark 103.9 calls are WNER (formerly WURJ), Pugh, p. 31 [len, p. 31]
 CO Denver KRFX 103.5 ID with Boulder, Al-/CO Berthoud Pass K224BL 92.7 is a translator of KRKM 106.3 Kremmling; possibly it was carrying some programming through KRKM that originated at KTLD AM Granby, CO, Allen, p. 31 [31, still mono
 GA Blue Ridge WPPL 103.9 P-103, Pugh, p./MA Pittsford WBEC-FM 105.5 Rock-105, Kretschmer, p. 28
 MI Port Huron WSGR *91.3 r, Falconer, p. 25
 WI WROV *91.9 p, Falconer, p. 25
 MN North River Falls KSNR 100.3 ID with Grand Forks ND, Coniglio, p. 29
 MO Cape Girardeau KEZS 102.9 K-103 (from EZ-103), Pugh, p. 31 [p. 27
 NY Brooklyn WKRB *90.9 B-91, Nienojady./NY Lake Placid WLPW 105.5 r, "The New Adirondack 105," Kretschmer, p. 28, has \$ stereo [io, p. 29
 NC Charlotte WMYC 104.7 Mix 104.7, Conig-/SC Cherish-Florence WJMX-FM 103.3 103-X, Coniglio, p. 29 [io, p. 29
 SC Florence WYNN-FM 106.3 FM-106, Conig-/TN Humboldt WLSZ 105.3 has \$, r, "2-105.3," Pugh, p. 30

On Air (Selected)

CA Bakersfield KTOX *90.1, Spanish, 1r, relays KSVJ 91.5 Fresno full time; is it stereo?
 CA Calexico KUBO *88.7, Spanish, 1r, "mixes tapes from KSVJ with local programming," \$7
 KY Pikeville WJSO *90.1 \$, g (Moody), 24 hrs. NY Ithaca W238AA 95.5, but "horribly overmodulated—sounds awful!"
 NY Webster WFRW *88.1, "I'm wondering who's listening to it—though the signal carries nicely as far as Ithaca, they never have any publicity, and after 8+ months on the air, still not listed in the Rochester papers."
 OH Hamilton WHSS *89.5 back on, r, mono, "wds always out better than 89.5 Dayton, and WUPS and WUPR. WUPR now in S, c, still 200 wats."
 VA Elkton WPKZ 98.5 (not 98.3, as listed earlier); is it stereo?

Off Air or Not Yet On

CO Greeley KDHT 92.5, "first noticed off the air as of April 5, 1989"
 VA Broadway WLTW 95.5, "long overdue"
 VA Charlottesville WVTV *89.3
 VA Crozet WJLT-FM 102.3
 VA Staunton WTON-FM 94.3
 VA Waynesboro WQOR *90.1
 WV Saltum WITB *91.1
 WV Sursum WCKA 97.1
 WI Merrilli WZKZ 93.5 (to go to 104.1, but not there either)

Deletions

AZ Prescott K244CN 96.7, a c-p never built.
 K00L-FM 94.5 Phoenix now on K285CW there (see "Facilities Changes," in FMAtlas last month) [never built]
 CA Mammoth Lakes K218AK *91.5, a c-p/
 MI Port Huron 102.3—both PH Family Radio (grante) and L&K Bestg. found "unqualified"
 TX Jacksonville (former c-p) 102.3
 WA Goldendale KIVS, "c-p is cancelled 4-6-89"

F Mistakes, FM Atlas-12

CA Morgan Hill (new) 96.1 out of sequence, p. 162 [p. 161]
 CA San Jacinto (new) 96.1 (not "Jacinto"),/IN La Porte WCOE 96.7 not on p. 45 (or 44)
 IA Algona KJLA-FM 92.7 1150 h.v (not 150), p. 154
 MN Little Falls KFML 94.1 list as stereo, p. 157
 NC Southport delete listing on 107.3, p. 188; is on 107.5
 OH Tulsa KMDD 97.5 power is 100000 (w,v), p. 165
 TX San Antonio KQXT 101.9 is 100000 (not "1000000"), p. 175

Save this list and correct your 1989 FM Atlas (12th edition), should you be ordering the book. The books are expected to be available by now, and you may order this 192-page FM station reference from me at Box 336, Esko MN 55733-0336. Price for one copy \$11.00, including shipping, while two or more books will be \$8.50 plus \$1.50 per order [thus, two books would cost \$18.50 with the shipping].

SCServices, 67 and 92 kHz

CA Angwin KCDS *89.9 +M[usic], 67 (from data)
 CA San Diego KSDN-FM 97.3 tX, 67 (Telemet Packet Quote, mark/space), tR, 92
 CA San Francisco KOFY-FM 98.9 no 67 (had music); tR, 92
 KEAR *106.9 has music, 67, data 92, with a reporter asking: "If a station says 'entirely listener supported Family Radio', but has profit-making SCServices, are they lying?"
 CA San Jose KSJQ 92.3 tX, 67 (in addition to tX data, 92)
 CT Hartford WLHV 93.7 tE, Italian Radio, Inc., replacing tC. "We're a new company, only in business for six months, and not satisfied with the SCA radios we have gotten from Panasonic. We plan to install circuit boards in regular FM radios."
 FL Miami WQBA-FM 107.5 tX, 92 (in addition to tC, 67; see FM Atlas for key to SCA abbreviations, p. 8)
 GA Atlanta WAPZ 99.7 92 kHz discontinued; 67 changed to tZ
 KS Pittsburg KRPS *89.9 tX data, 67, tT, 92, "Audio Reader," to start by July 1
 MO Springfield KWTF-FM 98.7 tPaging, 67
 NY Albany WGNJ 107.0 no SCA, carrier only, 67. Had tQ, Physicians Radio Network. Off air in market "because we are reorganizing our program, offering a tape every two weeks of our programming." PRN has relocated to 13 Roszel Road, Princeton NJ 08540.
 SC Anderson WANS-FM 107.3 tC, 67 (relaying of WANS AM 1280)
 WI Superior KUWS *91.3, "It looks good for legislative approval for the upgrade there. 1 am going to recommend that the SCA at 67 kHz be added at this station. . . I am a new subscriber, and kind of like your newsletter. How do you find the time to do it?"
 ON Windsor-Detroit (MI) CJOM 88.7 tR, 92, "light rock"; no 67

AUSTRALIA. "For your information, the SCA service in Australia has only just started and it is still in the experimental stage. We want the SCA decoders to experiment with and maybe

do some business in the future with this system."
 "I'm glad FM Atlas-12 is now at the printer, but six weeks (that means it won't be ready 'til June) strikes me as a bit slow."

NonIDs, Not Just Slogans

AL Selma WALK 100.9 Stereo-101, r
 CA Ridgecrest KZIQ-FM 92.7 Q-Lite
 NY Cortland WNYP 99.9 The New Power 99.9 (strict, r, [hits])
 NC High Point WWNB 100.3 B-100
 OH Ottawa WQTL 106.3 Classic Hits 106, ID with Lima-Findlay
 PA Nanticoke WEAY 92.1 Oldies 92
 WV Clarksburg WVHF 92.7 V-93 FM

Multi-City IDs In Use

IN Crawfordsville WIMC with Lafayette, "1-104"
 MD Mechanicsville WQMR 98.3 adds Waldorf, "98 Star FM" [Steubenville
 OH East Liverpool WELA 104.3 w/PA Tamaqua WMGH 105.5 with Pottsville
 VA Suffolk-Norfolk WAFX 106.9 with Virginia Beach

AM Happenings Most Likely Caused by FM (selected; more are in FMAtlas)

AL Calera WBYE 1370 silent
 AZ Tucson KTKT AM quits music for CNN
 Headline Radio News "with some local content dropped in."
 NY Baldwinville WSEN still daytime on 1050, not having activated 780 c-p
 NY Syracuse WAQX still 1 kw 1490, not yet having activated 670.
 NY Trumansburg (Ithaca) WPIE 1160. "This long-time (1986) c-p still not activated."

FM Translator Abuses

NM Carlsbad *89.3, WMBI-FM 90.1 Chicago, via satellite
 Comments by Chuck Crisler, AZ and AR translator owner (see these in FMAtlas)

.try to pick up or "DX" out-of-town stations, as you just get the same stuff you have on the local affiliate. In this regard, I guess replacing land-based radio with DBS will be a savings in electricity and duplicated facilities—we are going to get the same bland "researched" programming no matter which way it goes.

FM Rulemakings Proposed

Selected only; first date below is deadline for filing comments at the FCC; second date is for replies. Stations affected, if any, are listed below the dates.
 AL AL Brantley (new) 104.3C1 from A, counterproposal [26, June 12
 AZ Casa Grande 105.5C2 for A, KBBT, May/AZ Claypool 106.1A for 105.5A, with Kearny VA White Stone 100.1A, counterproposal

FM Rulemakings Finalized (Selected)

Dates are when FCC filing windows are open
 AK Sitka 103.1C2, June 6-July 6
 CA Ridgecrest 92.781 from A, KZIQ-FM in promoting FM-SCA—a vast undertaken resource.

FCC Issues List of FM Stations Qualifying for Upgrades—Mostly from A to C3

Here's the list of tentative upgrade possibilities to Class C1, as released by the FCC:
 *88.3 WAAA Interlochen MI, *91.5 KANU Lawrence KS, 97.3 KDMI Des Moines IA, 105.3 KCMS Edmond WA.

To Class C2: 101.1 KMZU Carrollton MO.
 As you read before, the FCC has authorized a class of stations with coverage between A and B1 (or C2), with up to 25000 watts at 100 meters. The new class, C3, could be enjoyed by the following stations (tentative list; there could be more—but this is what the FCC is saying for now): *88.1 KDPS Des Moines, KBBG Waterloo IA, KVSC St Cloud MN, KCEP Las Vegas NV, WCGS Asheville, WPAR Claremont NC, KXTX Lubbock TX, WJTY Lancaster WI. *88.3 WTLG Starke FL . . . [due to the length of this list, you'll have to see the rest of it in last month's FMAtlas newsletter, which I publish. DXers: subscribe at \$18/year.]

Other Small-Print Happenings and FM Industry News

Broadcast totals from the FCC as of Feb. 28, 1989: AM radio 4948, FM radio 4174, FM educational (88-92 mZ) 1383. Total stations licensed and on the air 10,505; of which 5557, or 53 percent, are FM. The FCC also shows 1689 FM translators licensed.
 In a public notice the FCC has advised parties wishing to take advantage of the Commission's changes in the rules pertaining to short-spaced FM applications that all such applications will be returned if filed prior to the effective date of the rules. The effective date has not been announced; it will "be the same as the approval date for the pertinent amendments of FCC forms 301 and 340 by the Office of Management and Budget."

Making it more difficult to challenge stations is a series of reforms instituted by the Commission. These will 1) ban all settlement payments in return for withdrawing competing applications prior to the initial decision stage of a comparative hearing, and thereafter, limited to the actual expenses of the applicant; 2) limit payments in exchange for withdrawing petitions to deny to the legitimate and prudent expenses of the withdrawing petitioner; 3) require prior FCC approval of all citizens' agreements reached in exchange for withdrawing petitions to deny; 4) eliminate the Cameron Doctrine, which allowed competing applications in a renewal proceeding to presume that they could acquire the incumbent's transmitter site.

The National Association of Broadcasters, not exactly fans of FM translators, has filed comments with the FCC questioning the rules, adopted last year, allowing noncommercial educational FM translators to pick up signals by any possible means, including satellites. NAB fears such rules would create a "national low power FM radio service on those 'reserved' frequencies." The NAB also asked for minimum distance requirements, clear limits on effective radiated powers and antenna heights, and equipment performance rules to ensure against interference. NAB's comments came in response to a proposed "compromise" filed by National Public Radio, the National Federation of Community Broadcasters, Intercollegiate Broadcasting System, Moody Bible Institute, and Family Stations, Inc. "The compromise addresses some of NAB's localism concerns, but fails to address—let alone resolve—questions of technical interference."

From the classifieds: Liquidating low-power radio station, EV mics, carts, spring booms, shock mounts, CD players, etc. all in excellent condition. Make offer. Also Tape-caster 700 RP cart machine, excellent condition, \$375. Panax stereo compressor/limiter, built recently, \$310. 10-watt FM transmitter, recently built, excellent range and sounds great! Mounted in 19-inch panel and chassis, tunable from 89 to 108 mZ, asking \$450. Call Jim at (518) 792-9290.
 Invited journalists attended from as far away as California and Florida. Transportation expenses were paid by the Bose PR firm. The presentation was kept secret from BTP, and its existence was denied by Bose even when confronted by BTP a few days before. Finally, BTP attendance was prohibited until a legal appeal was made to the president of MIT. Following his formal presentation and in response to a reporter's question, Bose acknowledged that a radio manufacturer that he would not identify "wanted this." "You know them," he said. "Everyone in the industry

55414.
 Looking for AM, FM or CP in east for right price/terms. H. Kozlowski, 703-631-0197.
 Wants tax-deductible FM transmitter 250-1000 watts, J. Sencer, Christian Enterprise Ministries, Box 93, Brookfield MO 64628; (816) 376-2502.
 1 to 1.5 kw FM transmitter needed by nonprofit station for a tax write-off. Pat Layman, WEAX, Stewart Hall, W. Park St., Angola IN 46703; (219) 655-3114. See above, "FM mistakes," where WEAX's potential to receive interference from Fort Wayne *88.3 is mentioned. Are both stations planning a power war?
 For sale New Jersey, 100,000 watt FM, super-demographic, excellent educational band frequency, low operating costs, Asking \$490,000 with outstanding terms. Reply to Box 4-A, NRB, PO Box 1926, Morrisstown NJ 07962-1926.
 Quite a price for a station that legally is supposed to be not only "nonprofit" but "noncommercial." Could it be off-air WKTV *91.1 Dover Township

Bose/MIT Study, FMX Come Under Attack

A lot of FMX material has come from people representing both sides in the controversy. One critic of the system says to use a list of criteria to sort out the validity of the claims and counterclaims. The "vested" (monied) interests are: 1) FMX technology is owned by a group of investors (BTP) who, if the system is adopted, will collect royalties on decoder chips and use of their trademark; if FMX is not successful, they could lose their investment. 2) Receiver manufacturers can make more money adding features, like FMX, to their radios. If the feature doesn't "sell or work, their opportunity is missed. 3) If FMX works, stations may be able to reach more listeners with a satisfactory signal, with either more ad revenue or happier existing listeners due to better signal quality. If FMX worsens multipath interference, the broadcaster could lose listeners to another station, or have to put up with listener complaints. 4) Listeners, if FMX is workable, would enjoy a better signal; if not, they derive either no benefit, or degraded reception. "Such a score card will allow you to read between the lines of the comments by the various interested parties and, hopefully, end up with the truth."

In attacking the Bose-Short/MIT paper, an engineering contact who reads FMAtlas and who demands anonymity, says "is FMX so finicky that not just any radio transmitter can be used to broadcast it? Isn't that a defect in FMX? Has the MIT station [WMBR *88.1 Cambridge MA] experienced complaints prior to or since the FMX tests? . . . Note that the FMX proponents identify Drs. Bose and Short as 'Mr.' In that the 'Dr.' carries a certain prestige, what motive might there be to omit this complimentary title? Drs. Bose and Short have stated they each had phone calls from FMX lawyers trying to dissuade them from making public their threats. The FMX proponents have denied making any 'threats.' Why would Bose and Short misrepresent this?"

The opposition paper, "The Bose Sophistry, in Brief," says "with his own faulty mathematics Bose 'froze' what is properly a time-varying function. He then proceeded to make sweeping conclusions about the overall performance of the system, totally omitting any mention of the statistical probability of whether his model would ever be represented in real-life reception."

Invited journalists attended from as far away as California and Florida. Transportation expenses were paid by the Bose PR firm. The presentation was kept secret from BTP, and its existence was denied by Bose even when confronted by BTP a few days before. Finally, BTP attendance was prohibited until a legal appeal was made to the president of MIT. Following his formal presentation and in response to a reporter's question, Bose acknowledged that a radio manufacturer that he would not identify "wanted this." "You know them," he said. "Everyone in the industry

does". Just hours later the MIT story was covered on a Paul Harvey newscast. The sponsor of the program was the Bose corporation."

Meanwhile, Motorola says it is evaluating FMX, "and although not currently supporting FMX, Motorola hasn't ruled it out as a feature to be integrated in future IC designs." Another manufacturer of high end stereo tuners confided to me that it is not enthusiastic about FMX, and would rather continue building good quality FM stereo equipment with an audio-blend circuit.

WNIB 97.1 Chicago is reported to have turned off its FMX, because there are "no receivers out there." This caused one reporter, in a telephone call, to muse: "Why would they take it off the air if it's totally compatible? My conclusion is that it did cause problems with their signal, and they're afraid to say anything about it—afraid BTP would go after them." As a manufacturer, "our concern is that our customers will be upset with it. [The paper you sent is] a definition of the current FMX system, and is better than the older system. They made a major improvement in how it handles multipath. They have reduced multipath, but not eliminated it. The question is how annoying it is going to be to the listener. . . . Bose has nothing to gain by discrediting FMX. Bose is like Dolby, a complete system. Both protect their quality images. His motive was to see if FMX was something he wanted in his receivers—no collusion."

Later, an FMX proponent in MI called: "I'm very suspicious of Bose's methods, and why they would fly in journalists to see FMX scotched. It makes business sense what he is doing."

Small Tells How To Make SCA Work, Issues Caution About Data SCAs

Both FMX and FM-SCS might cause broadcaster opportunities or headaches. Here's word on FM subcarriers from one of the people who is at the forefront of the business.

"Enjoyed reading the FM Atlas. Keep up the good work. Enclosed you will find 'Making SCA Work in the Real World', writes Eric Small, Modulation Sciences, Inc., 115 Myrtle Ave., Brooklyn NY 11201. The paper, copyrighted 1987, I'd call almost a bible of the industry, and you can probably get a copy by writing Small, and inclosing a dollar for shipping and handling. It defines terms all broadcasters should know, such as crosstalk, birdies, pre-emphasis, SCA frequency response, distortion, injection, and SCA frequencies.

It then discusses "gremlins," like multipath, gassy tubes in a transmitter, and differences in receivers. "The best technique for ranking receiver performance is to compare receivers side by side. . . ." Of course, the firm's Sidekick SCA generator is touted, but I found the cautionary words about data SCA of great interest: "No generally accepted technical standards, even informal ones, exist for data SCA transmission. Each new service seems to invent its own data format and modulation scheme. And citing the need for 'security', many are unwilling to disclose any technical details of the operation or performance of their system. All of this 'do it yourself' technology results in data SCA systems that often cause birdies in the main channel's stereo and are susceptible to errors from multipath. Some data systems occupy more spectrum on the baseband than one conventional audio SCA, thus making it impossible for the station to lease its other standard SCA channel. Others, in needing a 'perfect' SCA channel from the broadcaster in order to deliver reliable data, make it difficult for the main channel to do enough signal processing to remain competitively loud. . . ."

Data SCA is in its infancy and anyone getting into it as either a user or a broadcast lessor needs to understand that data SCA is not a mature technology. Any proposed system must prove non-interference with the main channel stereo as well as with other SCA channels. This should be an on-air demonstration, not a lab test.

"The standard parameters of SCA may be difficult to measure for some data systems. Injection is a stable, well-behaved parameter only for an FM SCA. Many data systems employ AM subcarriers, thus making injection a messy dynamic measurement. . . . Another gremlin is that a potential user of data SCA should be aware of is that some data systems become riddled with errors in the presence of even a small amount of multipath. For example, this effect tends to make SCA paging systems unreliable in any urban area. Readers interested in more information regarding data SCA should contact Modulation Sciences for a copy of 'Data SCA: Some Real World Experiences.'"

FM FORUM COMMENTS FROM READERS

"The aftermath of the Lockerbie radio-cassette-bomb has some unpleasant implications for those of us in the radio industry who pack this kind of equipment as we travel. For example, in heading for San Francisco for the Gavin Report convention, I took along three cassette recorders and about 100 blank tapes (to record the S. F. stations). In today's more repressive climate, I'd be an immediate suspect. And if the airlines choose to restrict carriage of electronic equipment, I'll be driving! (Although it's not supposed to be done, I have flipped on the Walkman occasionally while flying. The sensation of hearing FM stations from all over the country SIMULTANEOUSLY has no equal! But I'll never do this if seated near the cockpit.)"

Bob Rini of Brown Finn & Nietert, attorneys, Washington DC, has filed an application for extension of expired permit for W280CT Hermon-ton MN after the primary and my father-in-law, on whose property the tower is located, came to a rental agreement. Such applications are said to be difficult to get granted, in view of the FCC freeze on commercial translators: W237AM Gulfport MS is also filing for replacement of expired c-p.

"I am enclosing copies of our TV radio guide [in the Philippines]. I prepare the information and articles and submit them to TV Guide [and] they send it to Stars and Stripes to distribute to military members in the P. I." The guide has a one page listing of FEN FM stereo, which seems to be a variety format ranging from drama to country, easy listening and rock music. Ninety-five point one is in use in four places in the Philippines (750 watts ERP at Clark Air Base, while others have 50 watts), and 101.5 is at Camp John Hay. Korea is listed as having eight FM stations, while Japan has none on FM, but five on AM. Probably because of Japan's limited FM band, you don't find U. S. military stations there.

Writes broadcaster Robert Larson, who will soon be discharged and starting KTRQ 104.3 Tri-Cities OR: "The Far East Network-Philippines is a 24-hour, seven day a week radio and television service for more than 50,000 Department of Defense members and their families stationed in the Republic. Studios are at the west end of Clark Air Base. FEN does not seek to compete for audiences with any other broadcast facility in the Philippines. The fact that others may receive these low-power broadcasts is the result of expensive antennas and amplifiers and a great electronics know-how.

Newscasts are sent hourly for radio via satellite and include all the major networks, and the mail is used for weekly programs and public service announcements. There are also live sporting events, current news features and entertainment specials via satellite. These programs are generally taped because of the time difference between the States and the Philippines. There are also locally-produced programs, mainly during morning and afternoon 'drive' times.

"Although the Air Force is some 20 years behind the times as far as FM programming is concerned, they have the best equipment in town. With a new Air Force broadcast service commander, they are making great strides to put primary radio programming on the FM dial in the Philippines. New satellite programming for radio from AFRTS and major syndicators in the States will bring all broadcast outlets that the military runs into the 1990s. This process is expected to happen by the end of this year. Over the years as more and more interference and static fills the air on the AM band, reception around military installations is poor at best. On the FM band, the signal is loud and clear, in the Philippines, even with low power. The local Philippine stations on FM are really bad compared to the Air Force station (which goes by FCC rules and regulations). A local FM station sounds like it really wants to be American. Programming is directed to the rich Filipino on Luzon and the Americans. They tout their high wattage—65,000 watts."

"I recorded the first commercial FM network sponsored program," writes Max Engel from Brooklyn. "This was in the late '40s on the FM Continental Network. The program was sponsored by Stromberg Carlson and featured the Rochester Symphony Orchestra. Major Edwin H. Armstrong was the guest speaker, and the last words of his speech were 'nothing will stop FM now.'" Max's remarks went out on the former WEVD 97.9 New York (now on 1050 AM). Max is a WTFDAer, and hopes to be at the Syracuse convention.

WNVC-FM *93.9 New York has started selling paid commercials to nonprofit groups. It's legal for them to do so, and the spots sell for \$75 each during news programs and \$50 during cultural offerings. Carnegie Hall and the Brooklyn Philharmonic have so far signed on. "Each promotion identifies the sponsor as a non-profit group."

"I'm no fan of Madalyn Murray O'Hair and her atheism, but I think her views on the religious broadcasting petition drive which resulted in literally tons of mail being dropped on the FCC, has an element of truth in it: 'If you will look and see when the first evangelical radio station went on, particularly with the Moody Bible Institute, you will see that they were fighting the FCC for ownership, religious ownership of radio and television stations, where a church, or an evangelist, or whatever, actually owned the physical station and had the airwaves registered in their particular name. I think this whole FCC petition thing was to so batter the FCC that they had to give in to every religious request down the line. I think that there are as many religious radio stations as there are today, and as many television stations which are opening up for religious broadcasting, simply because of the FCC petitions. Incidentally, all of the cable access is absolutely flooded with religion right now.'" [From *The Freedom Writer*, a newsletter "that defends the separation of church and state," March, 1989.]

"Was surprised to see ARI system dropped from 57 kHz in NJ/PA area. I guess I don't need a 57 kHz SCA adaptor now!" writes a reader. Another sent word about a hand-held calculator-like device for obtaining stock quotations. It receives FM stations via SCA. 73,

ANARC UPDATE

NEW ANARC AWARDS

After much discussion, the ANARC awards have been expanded. It was felt that the previous awards were biased towards Shortwave interests, and lacked recognition of the contributions of the ANARC Clubs and their members. The new awards are:

Article of the Year—the best article that has appeared in an ANARC Member Club Bulletin.

Broadcaster of the Year—to recognize the broadcaster who assisted in publicizing the activities of ANARC.

Radio Hobbyist of the Year—for recognition of a member of an ANARC club for their contributions to the hobby.

The Executive Council Award for Excellence—for recognition of a non-club member hobbyist for their contribution to the hobby.

The other awards, Shortwave DX'er of the Year, Specialty Band DX'er of the Year, International DX'er of the Year, and International Broadcaster of the Year remain the same.

SPRACHMAN'S CORNER

New York Metro Briefs

W44AI Hicksville NY, now has a "translator" in Brooklyn. The station is W54AY in Brownsville. Some of the ID slides have "TV 44-54" on them, while others still have "TV 44". They still have a very eclectic mix of religious, ethnic, business, public affairs and strange programs.

What's going on with W53AA? Nothing! I haven't seen them since January.

W1IG-55 Riverhead NY is having financial problems. On the station's fourth anniversary, they fired the entire news staff and replaced it with CNN *Headline News*. The owners of the station tried to sell the station to a religious group, but the deal fell through.

Another station that seems to be having hard times is W1CT-16 Hartford CT. Their entire daytime schedule is filled with the Home Shopping Club. Their weekend schedule is filled with half hour commercials for remedies to baldness, get rich quick schemes, and weight loss diets.

The ratings came out recently. The most popular station in New York City is WPAT-AM and FM, that's only if you count the rating points for both the AM and the FM stations together!

The argument of AM vs. FM will continue for years to come. But there is one area where AM is still king. AM is where you will find all the strange, eclectic, and extremely local commercial radio stations. There are many examples of this in the New York Metro area. Here on Long Island, we have WNYG 1440 Babylon. They broadcast from a converted house in West Babylon. The format is Oldies, from Doo Wop to the 70's. Some of their announcers are former Doo Wop stars. All the ads are for local businesses and the style of the ads is reminiscent of the 1960's. Weekends on WNYG include the Italian Show, and the Wrestling program. It is a very different type of local radio station.

Well, that's it for now. Until next time,
73's and good DX,

Steven P. Sprachman



PHOTO NEWS

JUNE 1989

Mailing Address:

PHOTO-NEWS - P. O. Box 150 - Clarence, NY 14031-0155 U.S.A.

Photos submitted to PHOTO-NEWS become the property of this column and will not be returned.

EDITED BY
David J. Nieman

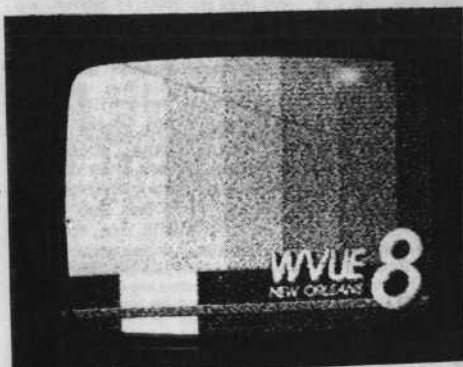
John F. Combs - Jacksonville, Florida is the sole reported this time. He checks in with some photos of that great gulf tropo opening he reported in the May VUD. John's X set-up has a 4-bay UHF antenna, Archer V-110 VHF antenna at about 30 feet above ground, turned by an Archer rotor; Winegrad AC4990 UHF preamp, Winegrad UT-2700 UHF tuneable trap, channel 14 trap, FM trap Sears SR1000 9" B&W TV.



KIII-3
Corpus Christi, Texas
974 mile tropo
seen March 13, 1989



KRGV-3
Weslaco, Texas
966 mile tropo
seen March 13, 1989



WVUE-8
New Orleans, Louisiana
492 mile tropo
seen March 13, 1989



KSAT-12
San Antonio, Texas
991 mile tropo
seen March 13, 1989

PHOTO NEWS

JUNE 1989 Page 2

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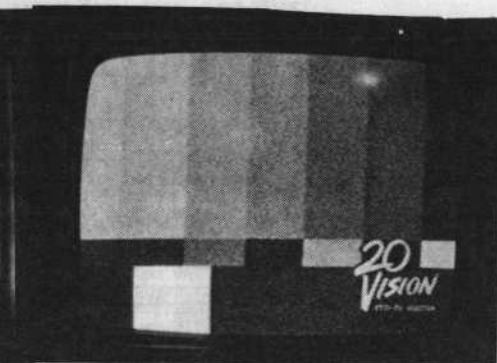
EDITED BY
David J. Nieman

(do you believe the distances on the low band tropo!! that must of been some opening... djn) and on we go.....



WCEU-15
New Smyrna Beach, FL
84 mile tropo
seen March 13, 1989

"this is not a very hi-power UHF, and it's rare to see it at this strength"



KTXH-20
Houston, Texas
825 mile tropo
seen March 13, 1989

more to come from John and the tropo opening next month....



WLTV-23
Miami, Florida
313 mile tropo
seen March 13, 1989

DARN!
I SHOULD
OF SENT
THEM IN
SOONER.



I would like to thank Rich Wertman - Lockport, New York. Rich sent some photos that did not fall within the 18 month old limit of PHOTO-NEWS. Some of them were from the Thanksgiving of 1986 tropo opening.

If you have some fantastic catches you would want to share with us; don't wait; send them in now. We'd all like to see um.



Till next time....

EASTERN TV-DX

"Fascinating"
—USA Today

"Irresistible"
—Anne Rice, NY Times Book Review

"Not to be missed"
—Florence King, Newsday

EDITOR: John F. Combs, 1308 Willow Branch #24, Jacksonville FL 32205

Reports from TV-DXers in the states of AL, CT, DC, DE, FL, GA, IN, KY, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, VT & WV, the provinces of NB, NF, NS, ON, PEI & PQ, and all of the Caribbean.

JUNE 1989 Next Deadline: July 1st
Carlton Howington's ch. 63 KTN-6 translator logging (see last month's VUD) has been listed as K63DL in Bryan TX. Together with his logging of TBN xtr K17BP in Palestine TX, they represent the most distant translator loggings known to me, at 843 and 818 miles, respectively. Carlton also reported by phone that he logged several Cuban stations via tropo in April, as well as many of the Florida Keys translators. What makes the latter feat even more remarkable is the fact that Carlton's QTH lies almost 90° off the beam headings of those translators! Hopefully we'll have details on all of this soon.

Otherwise, it's been a slow month for reports.

Mike Reid, 1408-65 Spring Garden Ave., North York ON M2N 6H9	MARCH 1989	MARCH 1989	MARCH 1989
9 Tr 0730 WJET-24 PA	9 Tr 045 CBLFT11-55	10 Tr 2247 WUAB-43 OH	11 Tr 0218 CIII1-22 ON
0730 CICO32-32	10 Tr 210 WSYT-66 NY	11 Tr 0145 CBEPT-54 ON	0222 CICO59-59ON
0745 CBLN4-45 ON	2 Tr 244 CBLFT9-53 ON	0155 CBLN5-45 ON	13 Tr 2301 WNPE-16 NY
0745 CICA51-51 ON	2 Tr 245 CBLN4-45 ON	0208 WOIO-19 OH	

EQUIPMENT: 1977 Zenith 21" VFW, RS 15-623 2-bay and Winegard AC4990 preamp in 14th floor apartment (105' AG)

The above are all I've had since the mid-November. Mid-April has seen some Lake tropo, nothing more. A few comments about some things I've seen in the column the last several months:

On August 3, Joel Rosenberger saw an unID-54. This was definitely W54AF, which I saw as well. They were doing a locally-produced morning news show at the time. In order to get the phone # of an LPTV, it helps to know the station's slogan. Then you have to hope their studios are in the town they're licensed to (assuming they have studios and a phone, n!). Bill Hepburn has seen CKVR on ch. 23. I don't know of any way this could happen. I phoned CKVR about it and they said "no way!" The ch. 69 xtr Dave Nieman and I saw on September 12 was W69BP Stamford NY, a one for one for WSKG-46 with 8.64 kw ERP at 3300' ASL. On July 18, Bob Seybold (and others) saw a TVQ on ch. 27. I can explain this one. CICO28-28 in Paris ON, which is normally fed by satellite, was using an off-air feed last summer due to the installation of CBLN1-56 on the same tower. I noticed CICO28 repeating WOIO-19 several times. On the date in question, it was probably repeating a TVQ channel 18 (most likely Peterborough) on channel 2. (A phenomenon that has been noted on other translators and repeaters with wide receiving bandwidths---jfc)

On the morning of September 12, Bill Hepburn and I noted an FF station on ch. 64. I have no doubt it's W64AK (Commeau OH) repeating something other than WVIZ-25. The question is: who? They had a rock news show in FF, with EE interviews subtitled in FF. This does not match CBLFT-25's schedule. The signal through W64AK was clean, with no CCI from CBLFT. Who could it be? CBOT4-51 (Mayrath ON) was snowfree at the time, showing that a path to the Northeast existed. (The only other FF possibility would be CFVS-25 in Val D'Or PQ, which repeats CFJP-35 Montreal. But that still wouldn't explain the lack of CCI from CBLFT. Any DX detectives that can solve this "mystery of the month," please write---jfc)

Lastly, "WNEU"-63 Pittsburgh PA is not in the TVG there, but is in the local paper. This is apparently just a slogan for W63AU, like W58QAV Buffalo NY, which uses "WBCT." (Even if LPTVs are not required to formally ID, which I doubt, surely the use of what amount to bogus call letters should be verboten. I'd love to hear what the FCC would say, assuming they even care about LPTVs. The more I watch LPTVs, the more I'm convinced that as long as they don't interfere with a full-power station, they pretty much have free rein---jfc)

Matt Sittel, 220 Brookfield Ave, Kingsport TN 37663 (address for the summer)	MARCH 1989	MARCH 1989	MARCH 1989
DX FROM RALEIGH NC:	15 Tr 36 WUNL-26 NC	15 Tr 2058 WXII-12 NC	17 Tr 2025 WBRA-15 VA

That's it! Some great reports on 3/30-31 yielded FL on NWS, but nothing on TV! Hopefully I'll have some time to DX this summer and get back to those lengthy Es reports! I might make it to Syracuse in August...it depends on what kind of job I get for the summer (hopefully, my boss will be understanding and sympathize, n!). Have a great Es season everybody!

Frank Wheeler, 6589 Wattsburgh Road, Erie PA 16509	MARCH 1989	MARCH 1989	MARCH 1989
3 Au 2100 KSNC-2 KS	1009	3 Au 2300 KMTV-3 NE	817
		3 Au 2305 KMAP-2 NE	1059

All via the Northern Lights, which were beautiful and showed up pretty well here in Erie. I've received stations before via the Northern Lights. Hope this is a good omen of a good DX season.

EASTERN TV-DX

Bill Nieman, 98 Highland Ave., Clifton NJ 07011

MARCH 1989	APRIL 1989	MARCH 1989
13 Es 2015 unID-6	20 Tr 2345 WTNH-8 CT	
APRIL 1989	2048 WTVS-26 CT	
20 Tr 2234 WBCT-43 CT	2257 WEDN-53 CT	
2236 WDEW-49 CT	2309 WVIC-61 CT	
2329 WTXK-20 CT		



EQUIPMENT: Hitachi color TV (late 70's), UHF 4-bay (5 feet above roof line), 10db bullet-type amp, rotor, RG-59U (rel cheapo) coax, splitters, variable attenuators.

Don't TV-DX much, but getting the bug! Local area is quite lower than the rest of Clifton. Can't wait to get in on those Atlantic coastal tropo! Until then, good DXing!

Greg Coniglio, 5100 Glenwood Drive, Williamsville NY 14221	MARCH 1989	MARCH 1989	MARCH 1989		
FROM MYRTLE BEACH SC:					
MARCH 1989	26 Tr 2058 WCES-20 GA	200	28 Tr 2021 WIYE-55 FL	382	
25 Tr 1720 WNFT-47 FL	292	2220 WDEA-14 SC	154	2236 WJXT-4 FL	292
2000 WXGA-8 GA	270	27 Tr 2218 WCPX-6 FL	390	2236 WJCT-7 FL	T
2010 WTLV-12 FL	292	2335 WKFL-8 ? FL	T	2330 WJBT-6 (SC)	182
2021 WCTI-12 NC	140	2335 WTSP-10 ? FL	T	2330 WAGT-26 (SC)	T
2022 WFLA-5 NC	140	28 Tr 0715 unID-20 religious		2337 WRDW-12 (SC)	182
2025 WTVT-11 NC	155	2000 WXGA-8 GA	270	29 Tr 0000 WOFL-35 FL	190
26 Tr 2000 WJWJ-16 SC	140	2001 WCJB-20 FL	350	0001 WFTV-9 FL	390

VACATION EQUIPMENT: Sony FD-421 flat B/W TV (portable) w/bowtie UHF & dipole VHF antennas

We were lucky to have a beautiful, warm, sunny week in Myrtle Beach; a few days before we arrived, they had freezing rain! And once again, the tropo was amazing, with FM better than TV (the opposite of last year). Also, somewhere in there I caught tentatives on 44 and 50 from Tampa, but I forgot to write down when! Anyway, hope tropo and E-skip have picked up for everyone by now! 73's, Greg.

John F. Combs, 1308 Willow Branch #24, Jacksonville FL 32205	APRIL 1989	APRIL 1989	APRIL 1989
APRIL 1989	25 Tr 0628 unID-45 ID 3/4 cb	0427 Miami 33, 39, 45	

14 Tr 0930 WLTX-19 SC	267	2125 WJKA-26 NC	334	0430 WFLX-29 FL	272
0930 WOLO-25 SC	262	2202 WHNS-21 NC	341	0430 W19AQ FL	267
0930 WNEH-38 SC	282	2218 WKFT-40 ? NC	T	0430 WFEC-12 FL	263
0930 WAXA-40 ? SC	T	2220 WPCQ-36 ? NC	T	(Station #300!)	
2220 W42AM FL	84	2240 WFLX-29 FL	272	0435 W24AT FL	T
Daytona Beach (LPTV)		2240 WKEL-42 FL	272	0437 W5FAJ FL	175
15 Tr 2120 WHMC-23 SC	293	2301 WLTV-23 FL	313	0437 W61BL FL	169
19 Tr 0552 WHNS-21 NC	341	2327 WDZL-39 FL	312	0437 WYHS-69 FL	312
22 Tr 0055 WLTX-19, WOLO-25		26 Tr 0019 WHFT-45 FL	311	0438 W19AX ? FL	T
0753 SC U's 19, 23, 25,		0019 WYHS-69 FL	312	0451 WSNV-7 FL	313
27, 35, 38, 57		0045 WSVN-7 FL	312	0455 WPBT-2 ? FL	T
0800 WKFT-40 NC	392	0102 WBFS-33 FL	312	0601 WYEL-42 FL	272
0800 WPDE-15 SC	312	0102 W35AJ FL	175	0601 WPLG-10 FL	312
0827 WJKA-26 NC	334	0110 W61BL FL	169	0608 W10-41 AL	390
1358 WJKA-26 still in...		0610 W35AJ FL	175	0931 WAKA-8 ? AL	T
2038 W6SE-43 SC	295	0610 Tampa (Univision)		0931 WA1Q-26 AL	306
2045 WUNJ-39 NC	334	0610 Miami 23, 33, 39, 45		29 Tr 0355 W19AQ FL	267
2130+ SC 19, 25, 27		0610 WSCV-51 FL	311	0355 WFLX-29 FL	272
23 Tr 2315 WPMI-15 AL	354	28 Tr 0033 WSRE-23 FL	329	0355 W16BJ FL	169
2320 W35AJ FL	175	0033 WLTV-23 FL	313	0358 WTBS-17 GA	286
Tampa (LPTV)		0055 WEAR-3 (AL)	352	Es 1428 KMID-2 TX	1217
2323 WFSG-56 FL	251	0100 WKRG-5 AL	365	Tr 2305 WJKA-26 NC	334
2349 W61AK FL	106	0427 W16AJ FL	169	2305 WUNJ-39 NC	334
Inverness (WTOG-44)		Meibourne (WESH-2)			
2351 W49AI FL	110	0429 W27AE FL	197		
Inglis (WQFL-35)		Sebring (WTOG-44)			
24 Tr 0021 WCOV-20 AL	304				
0105 W5FA-12 AL	287				
0125 WJKA-26 NC	334				



No super-tropo this month, but some much-needed nearer stations and some interesting xtr/LPTV loggings have enabled me to top the 300 station mark.

W35AJ and W42AM are affiliates of Channel America. For those who've never seen this network, let's just say it's almost worse than the shopping channels! W61AK was seen for only the second time ever, and W27AE hasn't been seen in a long time. The only Es noted was KMID-2 on the 29th.

My annual trip to the mountains was unfortunately cancelled. My truck had an altercation with another vehicle (mine lost), and between paying a large deductible and a careless driving ticket (gee, all I did was rear-end someone...) the funds for the trip were gone. I hope by November to be able to finance another trip, this time to either the Keys or the Gulf coast. It's been real...! jfc

South Florida's News Station
.....WSVN 7.....

WJKA-TV 26
CBS - WILMINGTON

WRAL-TV 3

25

WPBF abc

4

13

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

JUNE 1989

For me DX reporters from: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV. Also DC.

APRIL TR IN FROM A VARIETY OF LOCATIONS

Doug Allen, w2crs, P. O. Box 5646, Woodland Park, CO 80866
 Equipt.: Denon TU 800 & Stereo Probe 9 at 25'
 4/7 ms & trs
 1604 KOELT 92.3 IA Oelwein-Waterloo, news 10 sec. burst
 1608 KRST 92.3 NM Albuquerque, ads, 20 sec.
 4/9 tr
 1048 Wichita, KS stations in at 417 miles.
 4/10 tr
 0800 KOEZ and other Wichita stations.
 4/11 gw & trs
 1122 KIMX 105.5 WY Laramie, fair local off
 1530 KRWN 93.1 NE Lexington 314
 4/12 gw, trs 191
 0726 KGCC 107.7 KS Goodland, g,w/KIMN slop
 0900 KTFK 106.9 KS Topeka, no ID, short burst : from Topeka KS" 500
 2100 KMOY 104.5 NM Bloomfield, many "Gameo FM 104.5" IDs
 4/16 tr
 2000 KZSN 102.1 KS Hutchinson--Wichita 399
 "Kissin FM 102"
 2007 KRKS 102.9 KS Hutchinson, "the all new 102.9 KRKS", ex KHUT
 4/17 ms & trs
 1456 KTYL 93.1 TX Tyler, short burst, "on KTYL"
 1530 KQIZ 93.1 TX Amarillo 315
 4/19 tr, ms
 0900 Wichita stations full quieting at 417 miles for 2 hours, KEYN strongest
 0912 KPTY 97.7 NE Holdrege 310
 0950 KAML 96.9 WY Gillette 365

hearing KHOY perhaps. 50 MHz skip into Houston area at this time. And 4/30 0900 Wichita stations in at 417 miles.

Unseasonably hot weather in April brought the best tr we've heard in our year here. And, by the way, unless some of you midwesterners (middle America?) turned your antennas west and picked up the front range stations (did you?) we won the challenge we presented last month. Most stations including the two IA were full quieting at times on April 26th. Some of the 300-400 mile stations were as strong as Colorado Springs and Denver! First Es of season 4/28 with station in for half hour, nothing else heard. Am now working 44 hours a week in Springs (thru September) which will cut down on DXing time. 73.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74075

Equipt.: Onkyo T9090, Probe 9 at 34' with rotor
 4/29 tr 2100 KUAJ 91.3 AR Fayetteville, ID, \$, ex-10 watter on 88.1, logged then.
 During a visit to Oklahoma City I traveled close enough to Norman to determine to my satisfaction that my mystery KNYD translator on 88.1 formerly logged in Stillwater was indeed from Norman as suggested in FCC FM News. While on the way back home, I monitored signal to see how long it would last. Starting in southern Oklahoma City, the signal was fairly good. Later on, in north OK the signal came in bits and pieces due to overload interference from the mighty CAC antenna farm. Further north in the rural portion of the metro area, where the scrub oaks grow thick like a forest on the Plains, the signal reemerged in steady shape. Finally, it died out without returning while driving downhill near the south Guthrie exit on the interstate. So the translator got out to around 40 miles. The late evening hour and no interference from any stations helped.

As you know I'm pro DX reporting in the DX columns. I acn't wish to get into the hand-scanning business. Maybe the hand-scanning enthusiasts would be better served if a separate column was started entirely devoted to hand-scanning as suggested to me by a member. Pro or con thoughts on this can be directed to club hq.

Finally, I wish to find a 12v to 117v inverter to power my home tuner in my car during

SOUTHERN FM DX

Buntin, cont.

JUNE 1989

DXpeditions to the Oklahoma hills. An inverter using reviewer of a 1975 report on the Pioneer TX-9100 claimed to be the first to DX meteor scatter at 55 mph in a VW. He suggested "beg, borrow, or steal an inverter, hook up your tuner, and try DXing with a Doppler shift!" So where does one find one of those things in this day and age. Using a car FM for a hill top DXpedition is for the birds.

Geoff Wolfe, 40 Charlton St., Mt. Waverley, VIC, Australia 3149

TIME	CALLS	FREQ	ST	CITY	DIST	REMARKS
1/25	all tr				1/30	
	7NT 104.1 TAS Savage River	257		5ABC 92.1 SA Adelaide		404
	7NT 106.3 TAS Rosebury	279		5EBI 92.9 SA Adelaide		404
	7XS 107.1 TAS Waratah	258		5MMM 93.7 SA Adelaide		404
1/26					3/3	
	7ABC 93.9 TAS Hobart	377		7THE 92.1 TAS Hobart		377
	7WAY 105.3 TAS Launceston	278		7NT 104.7 TAS Queenstown		300
	7LTN 103.7 TAS Launceston	278		7NT 106.3 TAS Rosebury		279
	3MFM 104.1 VIC Foster	95		7NT 104.1 TAS Savage River		257
	7NT 106.3 TAS Rosebury	279		3MFM 92.3 VIC (pirate relay)		?
				7XS 107.1 TAS Waratah		258

3-3 was one of the biggest tropo openings I've ever noted from Tasmania.

John E. Jefferson, 4104 Spyglass Court, Antioch, CA 94509-6051

The band has come to life here the last few days, with tropo from Oregon to Los Angeles. Hope it's the start of a big year. This site is hot for tropo - no question about that! Already I've had Redding's KSHA 104.3 in like a local at 180 miles this month, and K202AP McCloud was good enough at 225 miles to make a clean stereo tape of two jazz cuts. From the other direction, the FM hasn't been spectacular - just a weak KJDI 98.7 LA - but KDOB-45 Bakersfield was nearly flawless at 240 miles. Anyway, here's the '89 crop. Everything was done with the newer MR80 using the S/probe at 30'. The aux antenna in the garage is now fixed - just a poor connection between balun & antenna - & delivers fairly decent signal levels to the older MR80, but so far nothing new there. As usual, new are underlined; @ denotes a station new to Antioch.

TIME	CALLS	FREQ	ST	CITY	DIST	REMARKS
1/7/89	MS				750	Calls
0400	KTRAB	102.1	NM	Farmington		
1/16/89	SL & IR				140	Testing; ID
0050	KRKC	102.1	CA	King City		180 KFMM ID
2358	K296CE	107.1	CA	Central Valley		
1/17/89	MS				990	Calls
0250	KSLT@	107.3	SD	Spearfish		1005 Calgary ref
0305	CKIK	107.3	AT	Calgary		
2/4/89	IR				220	ID & "The thrill of variety w/o the agony of repeats..."
2200	KFMI@	96.3	CA	Eureka		
2/6/89	IR				Y-97	
0031	KHTY?	97.5	CA	Santa Barbara		
2/20/89	IR				140	// KUNR
0030	K219AR	91.7	NV	Verdi		130 KUNR s/off (ex-K217BA)
0120	K212??	90.3	NV	Incline Village		120 KEAR ID
0130	K212AJ	90.3	CA	S. Lake Tahoe		
3/11/89	IR				375	Coos Bay ad
0938	KYTI	98.7	OR	Coos Bay		
3/12/89	SL				100	Testing; ID
1501	KMRJ	105.9	CA	Ukiah		
4/3/89	IR				180	S/off
0102	KCBX@	90.1	CA	San Luis Obispo		255 ID
0107	KHTY	97.5	CA	Santa Barbara		
4/4/89	SL				150	New; calls & "Regional R."
1727	KCMJ	98.9	CA	Chester		
4/5/89	IR				225	KSOR ID; usable!
2157	K202AP	88.3	CA	McCloud		

The tentative for KHTY is a minor mystery. At both 0031 & 0130 I heard what sounded like KCYY calls, but the tropo fading

strongly suggested KHTY, which is indeed Y-97. There was also reference to Space Pirate Radio, which is KHTY's early Monday show. The dj was a substitute. Could he have slipped twice & given the calls for his prior station??? KJOI was heard 4/6 am, but I neglected to record the time: at 320 miles they're my 2nd-best tropo from here, but that's at least the 4th time I've IDed them. Now if the rest of LA would please follow...

I called KUNR Reno to report hearing K219AR - which was extremely weak, by the way - and the announcer mentioned that the Incline Village xlator was on 90.3. KDVS Davis was at low power, so I checked it out & had a surprisingly easy logging. K212?? covered K212AJ completely, & the latter was quite readable once K212?? was off.

KRKT is the only reasonable possibility for the extremely weak k station noted on 99.9, but it was probably too weak to have made out talk even if there had been some. Too bad: would've been my best tropo logging.

According to FMedia! the xlator noted last time on 90.3 is K212AU (KUNR) Incline Village. It's located at some 7200' at the former site of KLKT 100.1 (now on 9600' Slide Mtn.). Per conversations with the station personnel, K257BX is relatively low - 20 miles s of Redding, while K257CA is on Mt. Shasta about 4 miles from K202AP. It's at 6700' and was usable for a time. K204AA is on Shasta Bolly at 6200', with KRCR-7, KIXE-9, & KNCG 97.3, whereas K296CE (KFMM) Central Valley - on my previous report - is on 3700' South Fork Mtn. with KSHA 104.3 Redding. K257BE, incidentally, is on Monument Peak near Fremont. That's 2000' aat & the site of KICU-36, KSTS-48, & KTEH-54.

If the last few days are any indication, it could be a banner year! No skip noted so far, but tropo have made this my best April ever with 7 loggings so far. The hot station here has been K202AP (KSOR) McCloud. It's been in almost daily since 4/5, with at least a readable, if not always listenable, signal. K202AL (KEAR) Richvale is weaker than it used to be, apparently due to reorienting the antenna, which helps. K202AP's 8000' elevation on Mt. Shasta also helps a bit!

Table with columns for call sign, frequency, and location. Includes entries like 4/17/89 SL, 0057 KSCU@ 103.3 CA Santa Clara, 0422 K257CJ 99.3 CA Davis, 2300 K240AU 95.9 CA Ukiah, 0210 K280CR 103.9 CA Garberville, 0132 K257BEE 99.3 CA Pleasanton, 0153 K257BX 99.3 CA Red Bluff, 0159 K257CA 99.3 CA Mt. Shasta, 0210 KRKT? 99.9 OR Albany, 0259 K204AA 88.7 CA Redding, 1000 K202AP 88.3 CA McCloud, 1012 KSOR 90.1 OR Ashland.

Don't know what's with KJAX Stockton. They've logged almost 0 downtime in 22 years & suddenly are off 2 straight nights. Wonder if they're losing money on their b format & getting ready to sell out. If so, maybe they've dropped the 24-hour schedule. KVVN may not be 24 hours: with KJAX always there, I haven't paid them much attention. Anyway, I'm grateful for 3 new loggings they allowed me (& a relog of what was a prime pain in the rear in Pleasanton).

Greg Coniglio, 5100 Glenwood Dr., Williamsville, NY 14221

Equip.: JVC RC-W44 boombox or Sharp WQ-272 boombox VACATION DX REPORT

Table with columns for call sign, frequency, and location. Includes entries like 3/24 Trs (Car radio), 1120 WSIP 98.9 VA Haintsville, k 173, 1125 WOLA 92.3, WFVR 94.9 VA Roanoke 143, 3/24 Trs (car radio), 1415 WDJQ 92.5 OH Alliance, calls 219, FROM CHARLOTTE, NC, 3/24 TR, TRS (boomboxes) 139, 1950 WYAV 104.1 SC Conway, ads, Wave 104, 2008 WYKZ 98.7 SC Beaufort, 98.7 Kiss FM, first thought this to be closer WWSI 98.7 Kiss FM, Greensboro but local ads, and adult contemporary showed otherwise 195, 2030 WRDU 106.1 NC Wilson, rp 164, 2105 WBBQ 104.3 GA Augusta, The Q, rp 131, 2110 WDOG 105.1 NC Durham, r\$, G-105 125, 2117 WAKG 103.3 VA Danville, k 126.

Table with columns for call sign, frequency, and location. Includes entries like 3/25, tr, 0608 WZLI 106.1 GA Toccoa, k\$ 148, FROM MYRTLE BEACH, SC, 3/25 tr (boomboxes), 1721 WQIK 99.1 FL Jacksonville, k\$ 292, 1830 WSGY 100.3 GA Tifton, Y-100, ads 310, 1847 WBYZ 94.5 GA Baxley, Z-94, k\$ 245, 1912 WLOW 107.1 SC Bluffton, b\$, wx 155, 1914 WOCL 105.9 FL DeLand, oldies, 360, Cool 105.9, amazing the amount of time this was in here at that distance! 2000 WQFW 95.7 GA Valdosta, r\$, Power 96, 1g1 ID, this could be the 95.7 Power 96 unID I heard at home via Es in Dec. 320 2108 WSTH 106.1 AL Alexander City, k, 408 South 106, ads, American Country Count. 2112 WVFJ 93.3 GA Manchester, g, heard this several times at home via Es 332 2145 WBJW 105.1 FL Orlando, r\$, B-105 390 2149 WDIZ 100.3 FL Orlando, rp\$, DIZ-FM 390.

Table with columns for call sign, frequency, and location. Includes entries like 3/26 tr, 1803 WIOI 100.7 GA Brunswick, classic r, serving Jacksonville (ID w/there too), W-101, ex WGIG, "Bulldog Country" 238, 1930 WLPT 88.3 GA Jesup, g\$, ment. of WLPE 91.7 & 92.7 translator of WLPE 230, 2002 WBYZ 94.5 GA Baxley, KR, ID 245, 2239 WZNY 105.7 GA Augusta, Sunny 105, 185 in despite adj to strongest WNMB 105.5.

The weather in Myrtle Beach was beautiful, with sunny and warm days. Once again this year, the tropo were amazing. It seems to happen most every night after a sunny day. Stations from central FL (300+ mi.) would come in PERFECT for hours! Many of the stations from FL to south GA in my report were local-like at times! I have never heard tropo like this at home, even with the Pioneer and roof antenna. I would love to bring a good tuner and antenna down to Myrtle Beach some day! Even regular reception was very good; in the inland window, Columbia, Greenville-Spartanburg, Charlotte, Winston-Salem, Raleigh-Durham and points in between were regular. On the ocean balcony, Charleston was perfect, with regulars from Savannah, coastal Carolinas and Georgia. Jacksonville was not too unusual either! Many changes on Carolina FM. Info sent to FCC-FM News. 73.

Gus Mancuso, 5615 Inwood St., Hyatts, MD 20785 From Nicholas Co., WV Equip: Pioneer SX-40

Table with columns for call sign, frequency, and location. Includes entries like 4/13 tr, 1532 WRRR 93.9 WV St. Marys, ex 101.7, 1730 WRVQ 94.5 VA Richmond, 1800 WAYZ 101.5 VA Waynesboro, 1801 WRZZ 106.1 WV Cowenswood, 1810 WBYZ 102.1 CH Marietta, from 94.3, 2001 WBES 94.5 WV Dunbar, new, 2101 WFCO 94.1 NC Lexington, 2100 WFLS 93.3 VA Fredricksburg.

Table with columns for call sign, frequency, and location. Includes entries like 3/27 tr, 1800 WMLV 94.5 FL Daytona Beach, b\$, local nx 342, 1802 WRHT 96.3 NC Moorehead City, has moved here from 95.9, ID w/WMBL AM 740 and Jacksonville and New Bern, r\$ 142, 1808 WFFV 104.5 FL Atlantic Beach, rp\$, Rock 105, o/WDXZ, hrd tent. last year 287, 1828 WHTQ 96.5 FL Orlando, rp\$, Q-96 390, 1930 WAPE 95.1 FL Jacksonville, r\$ 292, 1941 WMMZ 93.7 FL Ocala, r\$, Z-93.7 370, 1914 WAEV 97.3 GA Savannah, rm\$, The Wave 175, 2202 WJOY 107.7 FL Mount Dora, rm\$, Joy 108 380, 2251 WNFI 99.9 FL Palatka, I-100, ID w/Daytona Beach, o/WVBS Burgaw, NC 339, 2255 WYNF 94.9 FL Tampa, rp\$, 95YNF 451, 2300 WFLZ 93.3 FL Tampa, oldies \$, Z-93 451, 2326 WFTQ 101.5 GA St. Simons, 101-Q, r\$, ID w/Brunswick, adj to strong WKQZ 101.7 234 W/WHLY106.7 FL Leesburg, r\$, Y-107 385.

Table with columns for call sign, frequency, and location. Includes entries like 3/28 tr, 0002 WMPQ 92.9 FL Ocala, b\$, nx items, briefly o/local WZNS 92.9, WMMZ 93.7 VERY loud now 370, 0647 WKTK 98.5 FL Crystal River, seemed to be a/c, classic hits mix, KTK slogan, ID WRUF 103.7 FL Gainesville, rp\$, Rock 104 350, 0655 WANS 107.3 SC Anderson, r 222, 0732 WAIV 96.9 FL Jacksonville, a/c 292, 1911 WJHM 101.9 FL Daytona Beach, sr\$, 102 Jams 1926 WIVY 102.9 FL Jacksonville, rm\$ but seemed to have Jazzy lt./rock in FM 292, 1928 WBCA 102.5 GA Waycross, rm\$, Class 102.5, o/WXTC 270, 1929 WHFX 103.3 GA Waycross, r\$, slogans, Power and the "The Hot Fox", heard between WYAK 103.1 & WBLZ 103.5 270, 1932 WEAS 93.1 Savannah, rs\$, E-93, wonder if they're really 100 kw; while other Savannah stations in most of time, this very rare 175, 2250 WSLF 106.5 NC New Bern, r\$, o/WSYN lcl 140, 2347 WKBX 106.3 GA Kingsland, r, k-Bay 106, w/calls, semi-lcl seemed to be off. 264.

Table with columns for call sign, frequency, and location. Includes entries like 3/29 tr, 0014 WAXC 99.5 SC Aiken, k\$, fix 99, wxXI299.3 2054 WNGD 100.1 GA Statesboro, jingle o/WGFG 195, 2100 WZKS 98.3 GA Jesup, rm\$, 98 kiss FM, o/WKRT Kinstree, SC, ID w/Hinesville 233.

Precision frequency offsets of European low-band VHF TV stations

Ulrich Onken, Postfach 101, D-7850 Loerrach 7, West Germany

With the currently high (and still increasing) levels of solar activity, Transatlantic F2 skip openings on the low-band VHF channels are likely to occur more frequently than ever in the past decade. As in North America, TV stations in Europe are using precision offsets of their carrier frequencies in order to reduce co-channel interference. These offsets may be useful as an additional information to identify TV stations (see Rich Turcsany's DX report in VUD 2/89, p. 26).

Most of the frequency offsets used by European stations are multiples of a twelfth of the line frequency (15.625/12 kHz ≈ 1.302 kHz), this means the deviation of the vision carrier frequency from its nominal value usually is 1.3, 2.6, 3.9, ... kHz. The European Broadcasting Union (EBU) publishes a TV station listing, including the carrier frequency offsets. The following table is a revised edition of Hans v.d. Heidjen's excellent list of European low-band VHF TV stations (VUD 5/88 and 6/88). The columns refer to the ITU country code, the powers for vision and sound (in kilowatts), the location and the precise carrier frequencies for vision and sound (if known) in megahertz. Two entries in the sound power column indicate stereo/two channel sound transmitters. The second sound channel is at 0.242 MHz above the first sound channel frequency.

System B channel E-2 (48.25/53.75 MHz)

D	100 ⁺	5/1	Biedenkopf	48.247	53.747
	100	5/1	Göttelb. Höhe	48.240	53.736
	100	5/1	Grünten	48.260	
SUI	48	2.4/.5	Bantiger		
NOR	60	6	Greipstad	48.253	
	30	3	Gulen	48.246	
	100	10	Melhus	48.257	
	60	6	Steigen	48.260	
	30	3	Varanger	48.249	
S	60	6	Örebro	48.240	
	60	6	Vännäs	48.250	
POR	40	8	Muro	48.248	

System B channel E-2A (49.75/55.25 MHz)

AUT	60	12	Jauerling	49.750	
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System B channel A (53.75/59.25 MHz)

I	34	3.4	Monte Nerone	53.740	
	34	3.4	Monte Caccia	53.760	
	35	3.5	M. Cammarata	53.760	

System B channel E-3 (55.25/60.75 MHz)

BEL	100	10	Liège		
D	100	5/1	Kreuzberg/Rhön	55.260	60.764
DNK	10	1	Fyn *	55.240	
FNL	20	2	Tervola	55.251	
ISL	90	9	Stykkishólmur	55.249	
NOR	10	1	Bagn	55.251	
	60 ⁺	6	Gamlemsveten	55.260	
	60	6	Hemnes	55.249	
POR	60	12	Lousa		
S	60	6	Skövde	55.260	
	60	6	Sveg	55.240	
SUI	56	2.8/.6	Uetliberg	55.240	
YUG	50	10	Kum		
	50	10	Kapaonik	55.250	

System B channels E-4 and B (62.25/67.75 MHz)

AUT	30	6	Patscherkofel	62.262	
D	50	2.5/.5	Flensburg *	62.189	67.670
	100	5/1	Raichberg	62.240	67.736
	100	5/1	Ochsenkopf	62.253	67.753
DNK	50	5	København *	62.260	
FNL	40	4	Vuokatti	62.249	
HOL	100	5/1	Lopik	62.214	67.702
I	100	10	Monte Penice	62.260	
	40	4	Monte Faito	62.250	
ISL	80	8	Gagnheidi	62.245	
	300	30	Skálafell	62.251	
NOR	100	10	Kongsberg	62.240	
	30	3	Bremanger	62.254	
	30	3	Hadsel	62.249	
S	60	6	Stockholm	62.250	67.750
	100	10	Östersund	62.260	67.764
	60	6	Älvsbyn	62.240	
SUI	264	13/2.6	La Dôle		
YUG	100	10	Psunj	62.250	
	10	1	Pelister	62.260	67.760
	15	1.5	Labistica	62.240	

System B channel C (82.25/87.75 MHz)

I	16	1.6	Torino		
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System I channel I-B (53.75/59.75 MHz)

IRL	80	16	Gort	53.758	59.760
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System L channel 2 (49.25/55.75 MHz)

F	10	1	Bastia		
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System L channel 3 (54.00/60.50 MHz)

F	30	3	Besançon		
	100	10	Carcassone	54.000	

System L channel 4 (57.25/63.75 MHz)

F	20	2	Serres		
	10	1	Ajaccio		

System D channel R-1 (49.75/56.25 MHz)

HNG	50	5	Nagykanizsa	49.745	
	150	15	Budapest	49.740	
POL	100	10	Bydgoszcz	49.749	56.248
	35	3.5	Siedlce		
TCH	200	80	Praha	49.740	
	100	40	Ostrava	49.760	

System D channel R-2 (59.25/65.75 MHz)

HNG	60	6	Pécs 1	59.258	
POL	50	5	Pila/Walcz	59.254	65.755
	100	10	Warszawa	59.260	65.764
ROU	15	1.5	Turnu Severin	59.242	
	100	10	Bucuresti	59.250	
TCH	100	40	C. Budejovice	59.258	
	150	60	Bratislava	59.250	

System D channel R-3 (77.25/83.75 MHz)

POL	200	20	Zielona G6ra	77.253	83.753
	100	20	Kielce	77.259	83.762
ROU	120	6	Oradea	77.254	
	15	1.5	Semenic	77.246	
	15	1.5	Dobrogea	77.250	

I have omitted the stations in Spain, Tunisia and Albania, since they do not specify their offsets (if they use them at all). For stations in these countries as well as for information on networks and the ITU codes, refer to Hans' listing in VUD 5&6/88, please. In the meantime, the East German station on channel E-4 has been downgraded to a low power repeater (100 watts) and a high-powered UHF transmitter at the same site (Cottbus) has taken over. A few stations (marked with an asterisk *) will be shut down within the next few years. Denmark will abandon VHF altogether and switch its government-run network "Danmarks Radio" to UHF transmitters, co-sited with stations of the new commercial network "TV 2". This change will allow the West German station Flensburg (at the Danish border) to switch to channel E-7 and to reach more viewers in Denmark with an increased power on the new channel. (Source: REFLEXION published by the UKW/TV-Arbeitskreis der AGDX)

Many of the TV stations listed are using directional antenna patterns in order to protect other stations from interference or to provide certain target areas with higher signal levels. Stations with a power reduction towards northwesterly directions (+) are less likely to be received in North America than it might be expected from their maximum radiated power.

During last summer, exceptional Transatlantic openings on the North American TV channels A2 to A5 were observed by a number of European DXers. Conditions peaked on 06-06-88, when North American TV signals showed up until well after local midnight in Europe. The identified stations include CJCN-TV-4 Grand Falls NF, WTKR-TV-3 Norfolk VA, WWAY-3 Wilmington NC and WCBD-TV-2 Charleston SC (Source: report by Garry Smith in Teleradio-News). The discussion on the propagation modes involved is still open; both sporadic E and tropospheric modes might have contributed to the unusual opening.

Good DX and 73,

Ulrich



HAWAII BROADCASTING GUIDE



FRANK ADEN, JR.
5147 MORRIS HILL APT. 133
BOISE ID 83706

The 1989 edition of the HAWAII BROADCASTING GUIDE will be available on June 1st. This is the first edition to be published. The guide is similar to my IDAHO BROADCASTING GUIDE and contains AM, FM & TV station listings with addresses, frequencies, powers, networks, formats, schedules, owners, officials & other important information. Also included are listings for FM & TV Translators & station location maps.

The guide is available for \$3.50 postpaid in the US, \$3.70 in Canada & \$4.50 outside of North America. Checks & or money orders should be made out to Frank Aden, Jr.

SPECIAL REPORT

A "BANDSCAN" FROM THE
TOP OF NEW HAMPSHIRE'S
MOUNT WASHINGTON!

Westinghouse Broadcasting Company, Inc.

BILL KRETSCHMER AND KURT RICHARDSON - BANDSCAN

Prepared by GREG CONIGLIO

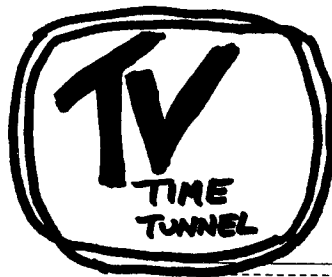
LOCATION: Mount Washington, New Hampshire
DONE on June 14, 1986

88.5 WHCF ME Bangor	94.9 WHOM NH Mt. Washington
WFCR MA Amherst	95.1 WHOM
88.9 WERS MA Boston	95.3 WHOM
WJMJ CT Hartford	95.5 WBRU RI Providence
89.1 WNPR CT Norwich	95.7 WWHJ ME Ellsworth
WMHT NY Schenectady	95.9 WHYR ME Saco
89.3 WRTC CT Hartford	96.3 WWMR ME Rumford
WHSN ME Bangor	WXJY MA Nantucket (now WNTX-gc)
89.5 WPKN CT Bridgeport	96.5 WTIC CT Hartford
90.1 WMEA ME Portland	96.7 WCNE ME Boothbay Harbor
90.3 WZBC MA Newton	96.9 WJIB MA Boston
90.5 WPKT CT Middlefield	97.1 WBGW ME Bangor (now WYOU-gc)
WICH MA Worcester	97.5 WOKQ NH Dover
90.7 WTCC MA Springfield	97.7 WCAV MA Brockton
90.9 WMEH ME Bangor	CHOM PQ Montreal
91.3 WMEW ME Waterville	97.9 WJBQ ME Portland (now WWTG-gc)
91.7 CBMP PQ Sherbrooke	98.1 WJJR VT Rutland
92.3 WRDO ME Augusta (now WMEH-gc)	CHOI PQ Quebec City
92.5 WWYZ CT Waterbury	98.5 WROR MA Norway
CFQR PQ Montreal	98.9 WQCR VT Burlington
92.7 WOXO ME Norway	99.1 WPLM MA Plymouth
92.9 WPBC ME Bangor	99.5 WSSH MA Lowell
WBOS MA Brookline	99.9 WEZN CT Bridgeport
WEZF VT Burlington	WKZS ME Auburn
93.1 WMGX ME Portland	100.1 WPNH NH Plymouth
93.5 WMMV NH Conway	100.3 WHEB NH Portsmouth
noisy, probably CBN-FM Montreal	100.7 WZLX MA Boston
93.7 WGBY MA Lawrence	101.1 CBF10 PQ Sherbrooke
WLVH CT Hartford	101.3 WKCG ME Augusta
93.9 WAYU ME Lewiston	101.5 WLKW RI Providence
94.1 WHJY RI Providence	101.7 WFNX MA Lynn
94.5 WZOU MA Boston	
94.7 WHOM	

WHCV

106
MAINE'S
HOTTEST

102.1 WAQY MA Springfield
102.3 WKXL NH Concord
102.5 WCRB MA Waltham
WESK ME Camden (now WODS, were they on then-gc?)
102.7 CITE1 PQ Sherbrooke
102.9 WGAN ME Portland (now WTHT-gc) noisy, probably WDRC Hartford
103.3 WHTT MA Boston (now WODS-gc)
103.7 WKNE NH Keene
104.1 WBCN MA Boston
104.3 WABK ME Gardiner WBCN 104.1 CCI
104.7 WKPE MA Orleans
105.1 WWLI RI Providence noisy, probably WTOS Skowhegan, ME
105.7 WYBF MA Framingham
105.9 WIGY ME Bath WYBF CCI
106.1 WCOD MA Hyannis
106.7 WHJX MA Boston
106.9 WCCC CT Hartford WMJX CCI
107.1 WERZ NH Exeter
107.3 WAAF MA Worcester
107.5 WBLM ME Lewiston noisy, probably WFCC Chatham (don't think they were on yet then. Maybe something else-gc)
107.9 WXKS MA Boston



TELEVISION a service of (RCA)

Submitted by Tom Bryant
849 Todd Preis Dr.
Nashville, TN 37221

KO's & WO's IN THE ALLEGHENIES:

KDKA may have had the first commercial AM station in the U.S.; but KDKA-tv is a relative newcomer! Channel 2 in Pittsburgh was founded by the Allen B. DuMont Laboratories in 1949 as WDTV. DuMont was an early manufacturer of studio and transmission equipment and home receivers, and also operated the short-lived DuMont TV Network. When Westinghouse Broadcasting bought the operation from DuMont in 1955 it had the call changed to KDKA-tv. Interestingly enough, WDTV is still alive and well...and not all that far from its original city of license. WDTV, now channel 5, is the CBS/ABC affiliate in Weston-Clarksburg, West Virginia; it's original call WJPB-tv was dropped and never re-assigned.

KWICK!...WHERE WAS KWK?:

You won't find KWK-tv in your database today, but in 1954 it became the second station in St. Louis. Radio old-timer KWK opted to dump the fledgling tv operation in 1957 and sold it to CBS, Inc. The new owners promptly changed the call letters to KMOX-tv, teaming them with their phenomenally successful AM operation. Now, KMOX-tv is history; and the Viacom owned channel 4 facility that began as KWK-tv is currently KMOV-tv.

7 COME 11 - [but start on 2]

While many early tv stations borrowed the call letters of their well-established and often nationally famous older-brother AM stations...such was not the case with Chicago's early network owned and operated outlets. NBC had a 'thing' about the letters N and B being the second and third letters in the call sign of almost every OSO [likewise with R and C - as in RCA]...thus channel 5 in Chicago was originally WNBQ-tv. The current WMAQ-tv evolved in the early 70s. The ABC OSO broke with tradition in the market and added -tv to WENR when channel 7 signed on in 1948. Old-timers will recall that WENR shared AM clear channel 890 with WLS, which at that time was owned by Sears. In the mid 50s WENR-tv became WBKB-tv (after channel 2 dropped that call...more later); and finally WLS-tv came about in the 70s. WBBM-tv, channel 2, didn't get that call sign until 1953 when CBS, Inc. bought the station. Prior to that it had been WBKB-tv since 1946; and experimentally W9XBK beginning in 1940. So, the WBKB call that graced both channels 2 and 7 in the 'Windy City' has 'skipped' across the lake and landed at Alpena, Michigan where it's going strong on channel 11.

YOU CAN HELP!

If you've researched this sort of material, you know there's a lot that's next to impossible to learn from readily available publications. In many instances I have been relegated to memory; and that may not always be accurate. If you spot an error in this column, please let me know and I'll see that the correction is made. If possible, please supply documentation to support your claim. Finally, any input or ideas for future editions are more than welcome. Please send all correspondence to the address at the top of the page.

Weather conditions seemed to be normal that day atop Mt. Washington, NH. It was a typical summer day with a temperature of 75 F at the base of the mountain with partly sunny skies. The weather conditions at the summit were: 38 F and light snow grains/ice pellets reported. The winds were NW at 40 MPH with gusts to 55-60MPH. The cold front passed the day before and the observatory recorded gusts to 75 (a typical day!). That day Kurt and I could see Mt. Marcy and Whiteface in New York State. The DX conditions were normal and didn't appear to have much troposcatter. Kurt Richardson DXed mainly TV while I did FM. He received most Montreal TVs local and CIVQ-15 Quebec City snow free. Kurt used a 9" battery operated Radio Shack B & W TV and UHF corner reflector. The TV DX was awesome with others like WCFE-57 Plattsburgh and WGBY-57 Springfield beating each other severely! All Boston's, Augusta and Bangor TVs local on a VHF whip antenna. We did bring other outdoor antennas but they could not be erected due to high winds. As for FM, all stations received were only on a 31" whip antenna! Occasionally I had to shorten the antenna due to strong TVI from WMTW-8 only 300' away! WHOM 94.9 also xmts from here but only caused interference from 94.7 to 95.3 Mhz. The radio used was a G.E. Portable and Car radio. If I ever go back to Mt. Washington, I'm bringing my good tuner and Stereo Probe 9! All those empty frequencies on the bandscan would have been filled up! While driving home we heard WHOM clear to Central Vermont and still in 9 in Glens Falls, NY. We must have caught some TrS because we heard them down the street from Kurt's home in North Syracuse, a good 240 miles away on a car radio! If you have an older edition of the FM Atlas, it shows the stations primary and secondary coverages. WHOM's primary is 63 miles and secondary is 116 miles! If you're ever planning a vacation, visit Mt. Washington! You'll be glad you vent! 73's Bill and Kurt

INTERNATIONAL NOTES

conducted by Ronald Stock

Many thanks to "Jersey" (the state not the island) DX'er BILL NIEUAJADLY for the photocopies of the TV program schedule from GERMANY! Sorry I can't run any of it in the column but its small and the photocopy is a bit smeared and dark.....this brings up a question for you members in Europe and those who specialize in DX'ing "across the pond", namely is there such a thing as a "European TV Guide"??? (Bill says the copies he sent are from a TV-RADIO magazine for Germany.)

A reminder....the last week in June and the First week of July are famous for multiple hop trans-atlantic E-skip, mainly for those DX'ers in Atlantic Coastal Canada and New England in the U.S. GO FOR IT fellows, and keep in mind.....theres not much of anything out there to let you know that the E-skip is opening in that direction, but beware of a day when not much E-skip seems to be in over the usual North American paths, because there have been days like this when trans-atlantic paths are open for E skip.

So you think that HIGH DEFINITION TELEVISION is a new thing, eh? Well take a look at the ad below, its from the AUGUST 1951 copy of WIRELESS WORLD magazine from ENGLAND. Now the British have often been on the "cutting edge" of electronics [remember, they pioneered RADAR, microwaves, and it was author Arthur C. Clarke (2001: A SPACE ODESSY) who came up with the idea of the Geostationary communications satellite].....but did they have HDTV way back in 1950? Well.....sort of! The "High Definition" referred to in the ad is actually the now-defunct 405 line Black and White service which used to operate sound on 41.5 MHz and picture on 45 MHz, among other channels. I checked.....they called it "high definition" because it was MUCH better than the other primitive broadcast TV systems that other countries were still experimenting with when BBC-TV started regular service in the 1930's. Early experimental U.S. TV systems were pretty lousey compared to the British 405 line standard of the same era.....and, U.S. 525 line TV broadcasts didn't really get started until well over a decade after England's. And England's standard TV today is 625 lines, STILL better than what we have in North America! Thaks again to ROBERT HORVITZ of A.N.A.R.C. for the copy of the ad below:

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WIRELESS WORLD

AUGUST, 1951

You must **SEE** more of
SOUND SALES'

High Definition

Television Receiver, 15 inch Tube Console

Price £115 Plus P.T.

SOUND SALES LIMITED

DEMONSTRATIONS at our London Showroom:
 LLOYDS BANK CHAMBERS, 125 OXFORD STREET, W.1
 (ENTRANCE IN WARDOUR ST.) Telephone: GERard 8782
 (Works: West Street, Farnham, Surrey Telephone: Farnham 6461)

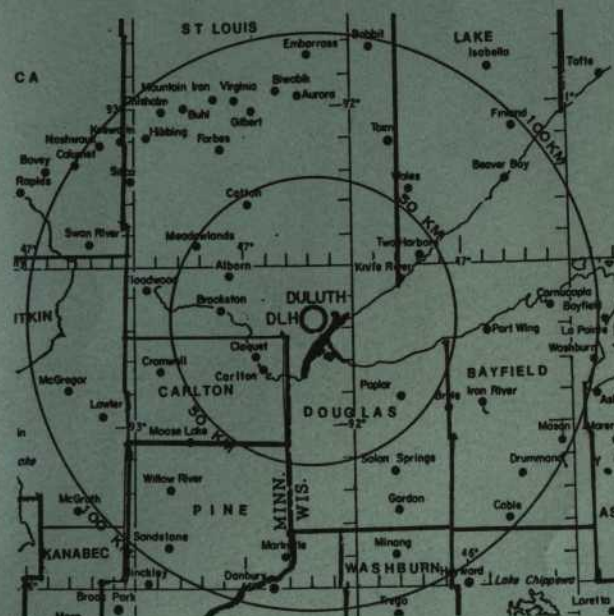
Thats about it for this time around. I hope your getting good E-skip conditions about the time you are reading this. Things here in New York have been chilly and rainy so far this Spring. Lets hear from you WTFDA DX'ERS outside North America!!!!

NOAA WEATHER RADIO

Station **KIG-64**, Duluth

Frequency **162.55MHz**

LOCAL BROADCAST AREA



A Public Service Providing
Continuous Weather Information
U.S. DEPARTMENT OF COMMERCE - NOAA
NATIONAL WEATHER SERVICE

FOR DETAILS, SEE
MAY VUD, P. 42

NEWS