

Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

MARCH 1991

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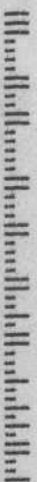
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first class mail

11/91
 WILLIAM N NOLLMAN
 35 NYE ROAD
 GLASTONBURY CT 06033



From The STAFF

AURORA MAY "ROAR" AGAIN SOON...A reminder: auroral DX signal propagation is very likely this month. March--the month of the Vernal Equinox--is the usual high point of such activity. Those in Northern regions are most likely to get in on this unusual DX mode--but large openings have been detected well into southerly regions. If you have never had auroral DX before, expect the unexpected. It is often described as "spooky" and "weird" by those who have observed it, and almost always ties in with the display of "Northern Lights" (the aurora borealis) in the night sky, although the intensity of the visual display doesn't always seem to correlate with the scale and duration of the VHF DX conditions that accompany it. Look for odd telltale signs of auroral conditions as the event commences, such as poor shortwave conditions below 30 MHz, "watery" sounding signals, and sudden-starting E-skip at late hours (often over northern paths). It has been found that the best years for auroral DX do tend to fall before and after the actual peak of sunspot activity--1991 fits into the "after" category quite nicely!

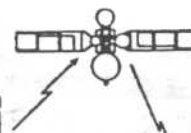
TELEVISION NEWS COLUMN ON "HOLD"...Due to the loss of his entire computer system, Bill Fahber regrets that he must relinquish, at least for the present, his position as editor of TELEVISION NEWS. Should he be able to replace his equipment, he'd be willing to take over the column again. Unfortunately, he doesn't foresee this in the near future. This also means that plans for a second edition of the North American TV Database must be shelved. Bill is still able to do research and analyze the data, if someone else would be willing to do the column. Anyone using Fontmaster 128 with a Commodore 128, or able to convert Fontmaster files to his/her own system, would be ideal for the job. Updating the TV Station data list is, of course, a separate job, but it would be ideal for the same person to do both. That is also on Fontmaster 128. Bill has produced nearly ten years of columns, his first being the May, 1981 VUD. We've gone through the death of STV, the birth of MMDS, DBS, LPTV, HDTV, the busiest decade of UHF in history, commercials on PBS, stations switching affiliation, problems with SIN/Univision, Retrospect articles on TV history, debates on CCI interference patterns, short-spaced VHF drop-in assignments, and much more. Bill wants to thank everyone for their support and comments--and we owe him a great big thanks for ten years' worth of superb work for the club, producing a consistently lively and always newsworthy section of the VUD. The fact remains, however, that there is a great demand in the WTFDA for the information provided in Television News, and somebody has to take it over, at least for the time being. Mail already sent to Bill, as well as all his files and computer disks, will be available to that person.

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Thanks to QSL/LOGOS column editor Tom Yingling, Jr. for the collage on this month's cover.

SATELLITE NEWS



GEORGE W. JENSEN
4604 Anntara Avenue
Baltimore, MD 21206-4220

Changes Continue and will continue for sometime to come.

New Subcarriers - Morelos 1 (SCPC) XEWA - San Luis Potosi new and strong.

On the video services - the following changes have occurred.

Morelos 2 - XPDR 16 - TNT Latin America in MAC scrambling. Satcom 3 is now Satcom 1 and what an improvement.

Several changes have been made on this bird:

XPDR 1 is now American Movie Classics from 14

9 - Travel Channel from 16

21 - Request PPV from 19

Telstar 303

TVN is converting to the Video Pal format and no longer using the hybrid Leitch system. It seems that everyone who has tried these other systems eventually revert to the VC2 plus format or go under financially.

Westar 5 - XPDR 6 - Caribbean SuperStation is now using expanded hours.

Spacenet 1 - XPDR 2 - Univision feeds

13 - Star TV Heaven has gone to TV Heaven and is no more.

Westar 4 - XPDR 17 - Outlaw Music Channel uplinked from Austin, Texas and Nashville, Tenn. and will apparently use a MAC type of encryption. As stated above for TVN I wish them luck since they have effectively locked out the 3 million home dish market. Advertisers take note.

GALAXY 3 - XPDR 2 & 3 - ABC and other Saudi Pool feed
20 - CNN Dharan, Saudi Arabia feed.

Satcom 4 - XPDR 12 - Shop At Home noted here in addition to other transponders they use
XPDR 19 - Satellite City

Galaxy 2 - 21 Spice PPV - omit

15 - Driice-In PPV - omit

Spacenet 2 - 15 - SCOLA from 16 - may change satellite soon.

17 - Telemundo feeds

PanAmSat KU XPDR 4H - ABC Tel Aviv

Intelsat 27.5 W = XPDR 5H - CNN Tel Aviv live

6V - NBC Tel Aviv

That's all for now - see you in 30

George

TELEMUNDO, TU CANAL

siempre



**WKAQ-TV•2
WORA-TV•5**



HISTORY OF SEATTLE TV

[WITH SPECIAL EMPHASIS ON CHANNEL 13]

NBC, BUT NOT FOR LONG: When channel 13 Seattle/Tacoma went on the air August 1, 1953 as KMO-tv it was an NBC affiliate; and the third station in the market, having been preceded by KING-tv (5) [ABC] (Ed note: Channel 5 signed on in November 1948 as KRSC-tv and was sold to the KING organization and changed to KING-tv in August 1949.) and KTNT (11) [CBS/DuMont]. KMO-tv operated 8 hours a day under the direction of Tacoma broadcast pioneer Carl Heymond. When he put the station on the air, Heymond knew that he was playing with fire so far as hopes of keeping the NBC affiliation. It was a gamble that didn't pay off!

MARKING THE TURF: Since 1926, NBC's radio outlet in Seattle had been 50 kw powerhouse KOMO. The Fisher Blend Company, owner of KOMO radio, had applied for a tv license to operate on channel 4 as early as 1949; but was a victim of the 'freeze', and operation did not begin until several months after KMO-tv signed on. KMO radio was a 5 kw regional that had never been affiliated with NBC.

AND THE WINNER IS...!: When it finally got on the air in December of 1953, KOMO-tv exercised a clause in it's NBC contract and was almost immediately granted the NBC television affiliation..leaving fledgling KMO-tv high and dry. "Lucky 13" [a promotional slogan] saw mass advertising cancellations, mass viewer exodus, and a massive stack of bills. To cut costs, virtually all of the staff was fired; and the entire operation was moved to the KMO transmitter building. The loss of the network proved to be more than the station could stand, and Mr. Heymond sold it to another long-time area broadcaster, J. Elroy McCaw. The new owner put special emphasis on locally produced programs, ran a lot of movies, and changed the call to KTVW. More on channel 13 later.

ANOTHER VICTIM: In 1958 a similar situation cropped up when KTNT (11) lost the CBS affiliation it had had since 1953 to newcomer KIRO-tv (7). It was a deja vu situation insofar as the usurpation of network affiliation was almost identical to the 1953 KMO-tv loss of NBC [KIRO-AM having been a long-time CBS outlet with provisions for CBS television service a part of it's contract with the network.]

ROLL CALL: As of mid-1958...KOMO (4) was ABC; KING (5), NBC; KIRO (7), CBS; and KTNT (11) and KTVW 13 were both independents. Note that KOMO (which had snatched NBC from KMO/13) and KING had orchestrated a network swap of their own). At this point not a single network remained on the channel where it had originally started. KIRO's capture of CBS from KTNT created a second independent..something the market couldn't support at the time.

SURVIVAL OF THE FITTEST: Poor channel 13 was about to be kicked in the shins again. With considerably more power, thus a larger coverage area and audience; KTNT led the indy pack with better programming and higher ratings. In fact KTVW was stuck with a vast repertoire of horrible movies, old sitcoms and off network reruns..almost all in black and white. While everyone else was getting into color, the only hue for 13 was RED..on the bottom line. The McCaws finally unloaded the station which then went through a virtual parade of owners; brief dark periods, and finally a complete shutdown in 1975. The license was eventually surrendered to the FCC and the channel remained vacant until 1979.

NEW BALLGAME...OLD PROBLEMS: In 1979 the Clover Park School System was granted the dormant frequency and established KCPQ-tv (Clover Park Quality) as an educational facility. The station supplemented the PBS service offered by non-commercial KCTS (9) but when fund-raising time came the viewers opted NOT to give to KCPQ; thus throwing the station into still another round of financial turmoil.

AN ASTOUNDING TURN OF EVENTS: In an unprecedented move, KCPQ-tv was sold back to a commercial concern; Kelly Television Inc. This made it the first station in the U.S. to go from commercial to non-commercial and back to commercial again. The new owners kept the call but revamped everything else. A new tower and transmitter brought the station up to full power and into a competitive stance. The 'new' KCPQ became the second in the market to utilize MTS stereo and the first to offer 24 hour programming. By this time, Seattle was ready for another indy, and for the first time in 25 years the seemingly jinxed channel was on the road to success.

THIRTEEN...TODAY: KCPQ/13 is licensed to Tacoma but blankets everything from southwestern British Columbia to northern Oregon. After years of struggling, the Fox affiliate is one of the big guns in the market, and in addition to network fare, offers an impressive roster of syndicated programming and recent movie releases. Author Mike Cherry offers the observation that it might just be time for the station to resurrect the once-unlucky "LUCKY 13" slogan!

SUPPLEMENTAL SEATTLE STUFF: After being purchased by the Gaylord group in the early 1970s KTNT became KSTW. Other full service operations added to the Seattle/Tacoma market are Trinity Broadcasting's KTBW-tv (20) and a third independent, KTZZ-tv (22). KONG-tv, licensed to Everett, was scheduled for 1987 startup but never went on the air. KBGE (33) in suburban Bellevue was on the air for about a year as a HSN channel; then went dark in early 1990. Non-commercial/educational KTPS (28) has been added in Tacoma.

VANCOUVER AND VICTORIA, TOO!: In pre-cable days, over-the-air reception of the Seattle stations in Vancouver was 'iffy' if not downright impossible. Now, most of the Seattle broadcasters enjoy a monster bonus in the form of a million-plus viewers on cable systems in the Vancouver and Victoria areas.

PACIFIC NORTHWEST P.S.: There's one other player that needs to be mentioned here...KVOS-tv (12) in Bellingham, WA. With an antenna height of 2370' (ast) atop Mt. Constitution on Orcas Island; KVOS-tv is a major factor in the Vancouver market. Channel 12 was CBS (now independent), and to this day has a business office in Vancouver. Their signal in the Canadian metropolis is city grade, and until the advent of modern cable service, they far surpassed the importance of Seattle stations in Vancouver. The border station has a fascinating history, and Mike Cherry has advised that he will share it with us in this column at a later date.

KING BROADCASTING COMPANY
 RADIO & TELEVISION CENTER, 320 AURORA AVENUE • SEATTLE 9, WASHINGTON • MUTUAL 3555

Thanks again to Mike Cherry for the research that made this month's feature possible. This column welcomes reader contributions...in fact I ENCOURAGE them. Your comments, both positive and negative are also encouraged. Without your input it's difficult to insure a variety of material, or to know your preferences of topic matter.

VIDEO: Highlights of the WTFDA 1990 Convention; WSMV DX-er feature; and '40 Years On 4' (also WSMV) are all available on VHS or BETA. Send a tape and return postage [or \$6.00 and I'll take care of the whole works]. Mail order to: Tom Bryant/849 Todd Preis Dr./Nashville/TN/37221.



KCC FM NEWS

Bruce F. Elving, Ph.D., Editor
P. O. Box 336
Esko MN 55733-0336, U. S. A.

Readers' News and Reports

Doug Allen kindly wrote and mentioned Castle Rock 92.1, KYB G-FM is indeed stereo. And he recognizes the correct calls for Casper WY 106.9 as KCSR.

Peter Weeks from NB sent word that CHSR has gone from 97.5 to 97.9, in Stereo. "It's transmitting tower is on top of one of the apartment buildings used by University of New Brunswick students on Montgomery Street, fairly high up on the hill on this side of the Saint John River. I have received it on the car radio as far as about 32 km up the Saint John River and also up the nearby Nashwaak River."

A guy just called and said that WROR 98.5 Boston has changed calls to WB MX; although I show WBMX as the calls for an AM on 640 in Zeeland MI; more on this later, as official word comes in.

From Nashville, Peter Bryant confirms that WWTN 99.7 Manchester has jettisoned its stereo, now mono talk fulltime, serving Nashville with a tall tower. Also, he sent an article from "Broadcast Engineering" on the FCC rules designed to crack down on FM translators. DXing them may be more difficult than originally expected, since maximum radiated powers (ERP) will be 250 watts rather than 1,000 watts. And, like pointed out earlier, the advantage to third-party owners will be only to relay a strong, primary station, not a more distant one with unique programming. This will tend to clog the dial for DXers with clones of local programming. In FMedial last month, I summarized John La Tour's petition to the FCC to revisit and reconsider the FM translator proposal.

KCEQ *100.5 Walnut Creek CA only a cable FM station? That's what newspaper ads say, but with a fund drive going on, John Jefferson thinks efforts may be made to revive KCEQ's FM signal. He confirms that KSQO 90.1 Morgan Hill is in stereo, now with ethnic, and that KKIS-2 92.1 Pittsburg CA is on the air, though pointed away from the freeway. And high powered boosters of KFOG 104.5 and KSAN 94.9 San Francisco are on the air. Try for 'em!

Chris Dunne sent some south FL news, including a local bandscan. He has heard WGUF 92.7 Marco, now b, but apparently he is not getting it strongly enough to tell if it possesses stereophony or not. WKLG 102.1 Rock Harbor has been off "for days" now and he wonders, like all of us wonder, "why?"

John Ebeling sent an article about the planned FM tower of WBFX 95.3 Grand Marais being blocked by a judge, because it would be too close to a wilderness area used for canoeing. The station is not sure it will build, even if a different, more environmentally-sited site is found. He sent a letter from member Andy Bolin, 709 Lincoln Ave., Charleston IL 61920. Perhaps some member can help Andy. It involves a process of using two antennas, each on its own tower with its own rotor, for throwing nulls at your nearby stations. Both antennae are hooked up to a two-way splitter, and then the output to your receiver. Then insert an attenuator and play with the attenuator adjustment and the rotor bearing of the one antenna until a null comes. The procedure is very experimental, and before any of you

try it, you might want to wait to see what Andy comes up with. To complete his experimenting, he needs some James Millen capacitors at a fair price. "The factory wants \$19.75 each for a no-frills cap! Here's what I need: Millen No. 20050E and 20100E." Andy is also researching a TV version of his "nullifier." Send help if you know of the location of a distributor who might offer a much lower price for those capacitors. Perhaps Andy can soon write an article advising all of us how we can DX around, or through, our local "friends."

Somebody sent a piece on the "micro" radio movement, started by WTRA 107.1 Springfield IL. A similar FM pirate is said to be operated, snubbing its nose at the FCC, in Decatur IL; frequency unknown. Similar stations are said to be ready to be launched in Chicago, Richmond VA and Birmingham AL, % National Lawyers Guild, % Attorney Peter Franck, 3032 Bateman St., Berkeley CA 94705.

Ernie Cooper got a QSL from KAXE *91.7 Grand Rapids MN thanks to my calling and writing KAXE on his behalf. I am willing to help verify other MN and WI stations (FM) that others are finding hard to QSL. He still wants to see the FM Atlas include program format information by frequency; possibly the new NRC FM list (see last month's VUD ad) might have it that way; I have yet to see that list.

Len Kruse sent a piece about KNEI-FM 103.9 Waukon IA poised to become a C2 in stereo, and more DX ready. Article didn't say, but KNEI-FM will move to 103.5 with the more power.

It was Dan Cashin, who reads this column, who sent the info on the "micro" radio movement. Bill Nienajadly has sent him some filters to modify his Technics ST-670. "It's good!"

Chris Dunne has heard about a new Bahamas station, probably from Nassau, calling itself merely "1-0-4-5," and alluding to Paradise Island and Ch. 13 being on the air. You might want to try to DX 104.5, in case it is a high-powered station.

Tim McVey has confirmed Bill Nienajadly's findings that you can, indeed, modify digital tuners to tune finer, such as 50 kHz steps by diode adding or elimination. A laxative to make tuners perform better, with more regularity, Bill? Anyway, William Hepburn in Canada has also changed his tuner for more precise steps, Bill believes.

Receiving the new Atlas was Todd Brandenburg of Topeka, who sent several KS updates, noting some translators that have never operated. He says KWJC *91.9 Liberty MO will have to stay there and not move to 91.5 with more power because of KANU 91.5 Lawrence KS. I see a station near him is changing frequency and undergoing a modest power increase; it's moving to *89.7 and is KNBU Baldwin City. He's not sure if KKCI 102.5 Goodland KS is stereo or not—Goodland represents real good DX for him, out to the west where tropo is more infrequent.

Larry Fuss got his 13th edition "FM Atlas," and says I've "done a superb job as usual." He took a trip to HI and heard KLUVA in Kailua-Kona on 93.9 ("93.9 Kailua FM" [strict]). I show KKGG, an unbuil CP, on the island of Kauai, "which is not correct. There are three towns in Hawaii named Waimea. Based on the coordinates in the FCC database, 99.1 belongs to Waimea on the island of Hawaii—also known as Kamuela, presumably to distinguish it from the other two Waimeas. I'll look at other states I'm familiar with soon and let you know if I spot any discrepancies."

FCC - FM

See Also February VUD For:

AL Linden WNPT-FM 102.9 KIS, Pugh, p. 35
AR Sheridan KXIX 102.9 KIS 103, Pugh, p. 35
FL Fort Myers WAJY *88.7 is actually gr, Falconer, p. 32 [Marion, "EZ-103.5," Strobel, p. 30
IL Christopher WUEZ 103.5 \$, ID with Herrin-IL
IL De Kalb WDKB 94.9 B-95, Strobel, p. 30
IL Mahomet WHZT 105.9 \$, r, "The Heat," ID with Champaign-Urbana, Strobel, p. 30 [bel, p. 30
IL Shelbyville WEJT 105.1 ID with Mattoon, Stro-IL
IN Roanoke WQTX 105.1 apparently talk, mono, but with \$[tereo] capability, Strobel, p. 30. Watch to see if it should return with pr and glorious \$!
MI Hastings WBCH-FM 100.1 I list as k; perhaps it was still m when Hall (p. 29) heard it in Nov MI St. Johns WGOR 92.1 Mix 92.1 (from "The Ape"), Falconer, p. 32 [Rocket KTCC, Allen, p. 33
MN Minneapolis KTCC 97.1 still "Cities 97," not NM Farmington KSJE *90.9 ct, Allen, p. 33
NC Murfreesboro 98.3 calls are WBCG, not "WBOG," Hall, p. 29
OH Coal Grove WXVK 97.1 Stereo? Strobel, p. 30
OH Crestline WAPQ 98.7 \$, r ID w Mansfield, "The Apple," Strobel, p. 30
OH Crookville WYBZ 107.3 \$, q, Strobel, p. 30
OH Logan WLGW-FM 98.3 still mono? Hall, p. 29
OR Portland KB 00 *90.7 not in Stereo any more? Cherry, p. 28 [bel, p. 31
PA Media WKSZ 100.3 r, Hall, p. 29 [each, Stro-SC
SC Conway WYAV 104.1 ID with Florence-Myrtle/SC
SC Kingstree WNK 98.3 \$, Hall, p. 29
TN St. Joseph calls on 101.5 are WJDR-FM, is \$, q, Pugh, p. 34
TX Georgetown-Austin KHFI 96.7 r, Pugh, p. 35
VA Suffolk WAFX 106.9 op, Nieman, p. 28
WA Aberdeen KDUX 104.7 r, Cherry, p. 28
WA Forks KLLM 103.9 still mono? Cherry, p. 28
WA Pasco KEYW 98.3 [not "KEYQ," even though it uses a "Q-98" mis-ID; has j or call it r, Cherry, p. 28
WA Wenatchee KPQ-FM 102.1 r [Lite"], [Cherry, / AB Edmonton CKRA 96.3 Lite 96 (from "96 K-BC Prince George CIRX [not "CBRX"] 94.3 r, Cherry, p. 28 [101"], Around the Dials, p. 28
ON Smiths Falls CHEQ 101.1 Q-Country (from "Q-ON Wingham CKNX-FM 101.7 r, Strobel, p. 30
Thanks to Jerry Monroe (p. 32) for his nice words on the "FM Atlas."

Now on an interesting letter from Edward R. Cotten of Chesapeake VA:

"I've noticed the controversy over WHRO and WHRV FM in FM News lately. I'll try to clear it up, if I can.

"A few years ago when WHRO-FM decided to put on a second station they had to have a frequency. The only one available was 88.7, which belonged to a small high school station in Portsmouth. They couldn't use it for a full power station because of interference problems. The only one available then was 90.3, which was used by WFOS, the Chesapeake Public Schools station, and I might say one of the best-run high school stations I know of. Well, they petitioned the FCC to have WFOS moved to 88.7, delete WNHS 88.7 Portsmouth and put the new station on 90.3. They also donated a new transmitter to WFOS and increased their power from 1500 to 15000 watts. Eventually everything was OKed. Last year, WFOS was moved to 88.7 with 15000 watts [licensed Chesapeake from Portsmouth]. The new station, WHI-TV (ex-WHRO-FM), moved to 89.5 and WHRO-FM was moved to 90.3. WHRO-FM and WHRV are licensed to Norfolk VA [but I see where WHRO-FM would be licensed to Driver VA—see if they ID

city on the hour—b.e.]. WFOS [on 88.7] is licensed to Chesapeake.

"WFOS programs classical music and is listened to by many people who like it. The power increase was welcomed by many. Now there are some listeners in Virginia Beach, though, who are upset because they can not receive WFOS now but could before. Now they have to protect a small religious station WODC *88.5 in Virginia Beach. So goes it. I hope this clears up this mystery."

[It sure does, but now that you mention WODC being on the air, I'd like some more information on that station—does it have stereo, its hours on the air?— b.e.]

Now on to a paste-up of part of last month's FMedial since my computer printer is temporarily out of service.

New FM Station, Translator Grants

AL Huntsville (north) WKOD-2 93.3 20-watt booster of Tullahoma TN station Huntsville (south) WKOD-1 93.3, 20-w booster AL Northport (Tuscaloosa) 100.7 3000 watts h.v.; 100 m, Warrior Bcstg. (see also "Deletions," below)
AK Payson (S&D) of Fairbanks at intersection of Hwy. 8 and 4 K292AR 106.3 (translator of KIAK-FM 102.5 Fairbanks)
AR Harrison K2158R *90.9 (KCMH 91.5 Mountain Home) [loc Bcstg.
AR Little Rock 99.5 3000 h.v.; 100 m, Name-AR Wrightsville (Little Rock) 107.7 3000 h.v.; 100 m, W. Communications Co.
CA Avalon 92.7 200 h.v.; 304 m, Catalina Radio CA Independence 106.3 3000 h.v.; 493 m, Bennett Kessler [Grand Junction]
CO Craig K2118S *90.1 (KPRN 89.5/DE Dover W216AM *91.1 (WFSI 107.9 Annapolis MD) [m, W. L. Diluceto
FL Cape Cove (Sarasota) 107.9 3000 h.v.; 100/FL Edgewater 93.1 3000 h.v.; 100 m, DeHaro Radio [106.3 Melbourne)
FL Merritt Island W203AC *88.5 (WCIF/FL Port St. Lucie W216AM *91.1 (WRMB 89.3 Boynton Beach)
GA Cartersville W215AG *90.9 (WMBI-FM 90.1 Chicago IL, via satellite)
GA Hardwick (Milledgeville) W220AM *91.9 (WFCH 88.5 Charleston SC) [Columbus]
GA La Grange W220AN *91.9 (WFRG 90.5/ GA North Canton W206AE *89.1 (WCCV 91.7 Carterville) [Des Moines)
IA Ames K206AW *89.1 (KDFR 91.3/ KS Hutchinson *91.7 10000 h.v.; 293 m, g. KS-NE Christian Bcstg. (see also "Deletions")
KY Irvine 106.1 670 h.v.; 199 m, KY River Bcstg. KY Louisville 100.5 50000 h.v.; 150 m, L. Bcstr., Ltd. [m, Ladin Bcstg.
KY Reidland (Paducah) 106.7 3000 h.v.; 100/ KY Williamsburg W216AL *91.1 (WMBI-FM 90.1 Chicago IL) [anne Warnock
KY Wilmore 96.3 3000 h.v.; 100 m, Marl- MN Moorhead *90.3 100000 vertical only; 151 m, MN Public Radio
MS Flora (Jackson) 97.5 3000 h.v.; 100 m, Crossroads Communications
MT Emigrant (SE of Livingston) K216CH *91.1 (KEMC 91.7 Billings) [Miles City)
MT Terry K220DF *91.9 (KECC 90.7/ NJ Asbury Park *88.1 100 watts h.v.; 30 m, Evangelical Crusades of Fishers of Men NM Clovis K204BP *88.7 (WMBI-FM 90.1 Chicago IL) [A. Soliday
NY Copenhagen 106.7 200 h.v.; 374 m, Tia/ NY Montauk 94.9 3000 h.v.; 38 m, Women Bcstrs., Inc. [R. Delaware, Inc.
OH Delaware 107.9 3000 h.v.; 100 m./ OH Greenfield 97.5 2800 h.v.; 93 m

March, 1991

OH Manchester (there are two Manchesters in OH—this is the one on the river near Maysville KY) 101.3 3000 h.v.; 100 m, Jewell Schaeffer Bcstg. [Gourd City Bcstg.
OH Mount Gilead 95.1 3000 h.v.; 100 m./ OH Wauson 96.9 3000 h.v.; 100 m, Steamboat Radio Partnership
OR Florence K211- *90.1 (KRVM 91.9 Eugene). This translator is used to feed KSYD *92.1 Reedsport OR. KSYD will also have some programming from Reedsport High School. SD Gettysburg K2148B *90.7 (WMBI-FM 90.1 Chicago IL)
TN Bolivar 94.7 6000 h.v.; 100 m, the Shaws TN Dyersburg W2144J *90.7 (WMBI-FM 90.1 Chicago IL)
TN Jackson W201AM *88.1 (WMBI-FM) TX Brenham K2148G *90.7 (WMBI-FM) TX Hustavia K2188I *91.5 (WMBI-FM) TX Jacksonville 102.3 3000 h.v.; 100 m, R. W. Shively [m, Trinity Valley Bcstg.
TX Woodville 94.7 5000 h.v.; 150/ UT St. George 99.7 10000 h.v.; 301 m, Ear, Inc. VT Morrisville 93.9 3000 h.v.; 37 m, Radio Vermont, Inc. [Billings MT)
WY Worland K2038I *88.5 (KEMC 91.7/ ON Belleville 92.3 50 watts h, Loyalist College 102.3 3000 h.v.; \$, r, Twigg Communications

Call Letters Assigned or Changed

AL Fort Rucker 100.5 (facilities change from 93.1) WXUS
AZ Bullhead City 102.7 KFLG-FM/
AZ Tucson *89.1 KUAZ
CA Fort Bragg 96.7 KLLK-FM (KZPB); AM is in Willets CA [r, "Power 102"
CA Fresno 101.9 KOPW (KOOO-FM) CA Morro Bay 99.7 KWVD
DC Washington 100.3 WJZE (WJZY), j, "Jazzy 100," will facilities to 36000 h.v.; 175 m
FL Key West 107.9 WWFT
GA Hinesville 92.1 WSKX (WXLIQ)
GA Pearson 101.9 WSPF
GA Toccoa Falls *90.9 WRAF-FM (WRAF); AM is a commercial station in Alpharetta GA
LA Monroe 104.1 KJLO-FM (KJLO; AM gets new calls)
ME Biddeford 94.3 WSTG (WYJY), "Star 94.3"
MI Adrian *107.9 WVA-C-FM (WVAC); AM is a commercial station in Norwalk OH
MS Kosciusko 103.3 WWFS [105"
MS Moss Point 104.9WZBA (WUNI), k, "Bay/ MD Potosi 97.7 KWVB
MO St. Louis 102.5 KEZK-FM (KEZK; AM is in Wood River IL), mr. Its former b format goes to its AM. The AM's previous all-business format worked out "pretty well for us from a revenue standpoint, but it was no secret that the ratings weren't there."
NV Las Vegas 103.5 KMMK (KLTN), now r
NY Homer 101.5 WXHC, to 1300 h.v.; 149 m
NY Jamestown *89.7 WNJA
NC Charlotte 95.1 WGKL-FM (WZZG), "Cool 95.1," still oldies
NC Old Fort 104.3 WOLF
NC Rocky Mount *90.9 WESQ (WUIE)
ND Minot 106.9 KHRT-FM
OH Hamilton 96.5WZBQ (WBVE), p, "Z-Rock"
OH Norwalk 95.3 WLKR-FM (WLKR-FM; AM gets new calls)
OR Bend 98.3 KTWS (KIDD-FM), op, "K-Twins," simulcast with Warm Springs
OR Eugene *88.1 KWVA
OR Lake Oswego 106.7 KMXI-FM (KMXI; AM is in Vancouver WA) [KWSI)
OR Warm Springs 96.5 KTWL, op, "K-Twins" (Waz/ SC Columbia 93.5 WAAS (WCEZ), rm, "Star 93.5" (from "EZ-93")
SC St. Matthews 93.9 WQKI-FM
SD Brookings 93.7 KBRK-FM (KGKG)
SD Martin *102.5 K2SD-FM
SD Redfield 103.7 KOKO-FM (KVCU)
TN Manchester 99.7 WNTN (WTSN-FM)
TX Bloomington 106.9 KVMK
TX Dallas 97.9 KLRX (KKWM-FM), m, "Lite 97.9 FM" (strict).
VA Vinton 106.1 WWFO

Format Changes

Formats are the same as in the "FM Atlas"

AL Jasper WZBO-FM 102.9 rp
 AL Linden WNPT-FM 102.9 s; SMN R&B oldies
 AZ Green Valley KGMS 97.1 gr
 CA Dimube KJDI 98.9 mr, "Lite FM 98.9"
 CA Porterville K100 99.7 r, dropping jazz/new age
 CA Weed KWHO 100.9 k
 CT Stonington WVVE 102.3 o, SMN Pure
 DE Bethany Beach WVTR 95.9 rp
 DE Georgetown WZBH 93.5 rp
 MI Muskegon Heights WQFN 101.7 l, dumping rock and simulcasting with WQWQ 1520; may change its calls. Its "b" format "is very traditional, too!"
 FL Jupiter WTRU-FM 99.5 now Spanish, "Radio Triunfo"
 FL Marco WGUW 92.7 rm, "Lite 92.7"
 GA Brunswick WIOI-FM 100.7 o [dies]
 GA Milledgeville WLRR 100.7 r, "Light Rock" (also has oldies)
 GA Washington WLOV 100.1 o, SMN Pure
 IL Carlinville WCNL 95.9 [country]
 IL Carriers Mills WBVN 104.5 rp, contemporary Christian; ID with Marion
 IL Ramsey WJLY 93.3 g, Moody
 IA Bettendorf KQCS 93.5 gr
 IA Fort Dodge KUEL 92.1 o
 KS Burlington KSNP 95.3 kr, \$
 KS Kingman KTCM 100.3 g, "adult Christian... All of us here at KAPH have found other jobs. They will be bringing in their own staff."
 KS Winfield KWKS 94.3 o, SMN Pure
 KY Burnside WJDJ 93.9 r
 KY Louisville WLRS 102.3 r, "Mix 102"
 LA Baton Rouge WGGZ 98.1 o [simulcast
 MD Baltimore WYST-FM 92.3 o, AM-FM/
 MN New Prague KCHK-FM 95.5 kr, some rock oldies; polkas most of the day Sundays, "KCheck," or maybe it's "K-Czech." They "are being heard throughout the Twin Cities, including 1.6 km from KNOF 95.3 St. Paul (on a NAD 4300 tuner). KNOF gave them permission to interfere with their signal in some areas. KCHK-FM was delayed getting on air as some nearby residents fought it, saying they feared harmful radiation."
 MS Indiana WOLJ 96.9 rp
 MS Mississippi Public Radio stations go c-jazz after midnight; each station now IDs separately, with a three-second ID using taped voices of the announcers on duty. "Very sharp!"
 MS Mantee WROD 102.1 k
 MO Willow Springs KGAR 100.3 k, parallel to KWPM 1450 West Plains [cast with AM
 NH Concord WXKL-FM 102.3 rm, simul-/
 NH Hillsboro WRCI 107.7 rm, simulcasting WJYY 105.5 Concord; WXKL AM there to simulcast FM, laying off three people. "We're generating much more revenue on the AM station than on the FM. We haven't been able to translate good listener response on the FM into sales success." WRCI will lay off six part-time announcers and its office manager.
 NM Armiijo KMYI 107.1 m
 NY Albany WROW-FM 95.5 still b, and topping the fall Arbitrons at 10.9, up from 7.9. Second is WFLY 92.3 at 10.2, then WGNA 107.7 at 9.8, down from 10.0, and WPYX 106.5 9.4, down from 10.2.
 NY Buffalo WUFX 103.3 c, still "The Fox"
 NY Glens Falls WYLR 95.9 rp
 NY Little Falls WQWB 105.5 rm
 ND Jamestown KSJZ 93.3 rm
 ND Langdon KVLK 95.7 rm, "KV-96"
 OH Cadiz WWYS 106.3 rm
 OH Cleveland WGAL 104.1 r, "10-104"
 OH Crestline WAPQ 98.7 r
 OH Toledo WXUT "88.3 p
 OK Durant KLAB 97.5 k, "K-Lake" (not strict)
 OK Sand Springs KTOW-FM 102.3 s, "Mix 102.3" [mercal KWBX]
 OR Bend KOAK 105.7 o (was noncom-/
 OR Creswell KAVE 95.3 rp
 OR Prineville KJKJ 95.1 mr, "Magic FM"
 SC Darlington WDAAR-FM 105 5 r

SC Pamplico WMXT 102.1 rm, "Mix 102"
 TN Henderson WHHM-FM 107.7 k
 TN Oak Ridge WKNF-FM 94.3 rm
 TX Beaumont KQXY 94.1 rm, "94-0" (from "Y-94")
 KZZB 95.1 r, still "B-95"
 TX Belton KYZZ 106.3 o, SMN Pure, no nonID
 TX Conroe KJZS 106.9 j, uses call letters. KGLF 103.3 Freeport retains the religious format and greater Houston's "Joy of Jesus" (from "The Christian Leader")
 TX Denison KTCY 104.9 s
 TX Eastland KEAS-FM 96.7, normally country, heard with c, Metropolitan Opera, one Saturday afternoon. "This seems so outrageous that I am going to write the station to see if this is normal policy or if it was just a special broadcast for some reason. Eastland is the last place I would expect to hear opera being broadcast, especially on a country-western station."
 TX Galveston KRTX 104.9 rm, "The Breeze"
 TX Georgetown KHFI 96.7mr, "K-96.7"
 TX Houston KHMV 96.5 rm, "K-Mix" (not strict; also "Mix-96.5-an identity crisis")
 KODA 99.1 no longer carries the Houston Oilers. "Last season, the games were heard on AOR/news KLGL 101.1 and KTRH 740."
 KODA again known as "Code 99" (stict).
 TX Marshall KEEP 92.3 rm, \$
 TX San Antonio KSTX "89.1 t, NPR news and talk, presumably with some music to justify a [terse] listing
 TX Springtown KMGX "89.1 k, mono
 TX Texarkana KKYR-FM 102.5 k, no nonID, "simulcasts AM, but only mention of AM is on hour during legal ID."
 TX Weatherford KYDQ "89.5 r, mono, and normally separate in its programming from KMGX Springtown
 TX Winfield KALK 97.7 rm
 VA Windsor WXR1 107.7 gr
 WI Wisconsin Public Radio stations (network which was in its format) drop classical, now cj, with only occasional stereo on weekends (some folk). Properly removes \$ carrier when mono, except for WHBM "90.3 Park Falls, which keeps its \$ on all the time.
 PR San German WRPC 95.1 rt, adding Business Radio Network, presumably some English
 VI Frederiksted WVIS 106.1 sr, \$, had been off
 NB Neguac CBAF-22 "97.9 is English, tm, despite use of French call letters, claiming 100000 watts, which may be hype for their 50000 horizontal and vertical; transmitter is in Allardville NB.
 NS Halifax CKDU 97.5 rc, adding two new classical music programmes produced by Dalhousie University students
 BN Tijuana XHTIM 103.3 m, \$: "American music with Spanish spots and IDs mostly English." Is causing second-adjacent channel interference to KJQY 103.7 and KSDO-FM 102.9 San Diego. "FCC sez they shouldn't be there because they're in violation of 1972 U.S.-Mexican Agreement... We're fighting. [Also] expect major changes at KKKY (94.9 San Diego)—new general manager, probably new format."

On Air (Selected)

CA Pasadena KPCC "89.3, now 600 hz; 891 m, giving KCRW "89.9 Santa Monica public radio competition
 IL Chicago WSSD "88.1, newspapers listed it as doing a marathon; where its signal is received and when it is on remains a mystery
 ME Lewiston WXGL 93.9, with WTME AM sold to Richard Gleason, is the object of a suit by Peoples Heritage Savings Bank of Lewiston for \$1.3 million. Owners John Pineau and David Dulac signed a note in 1988 for \$1 million to buy WXGL. The suits asks a receiver be appointed by the court to continue the station's operation and that the FCC license be transferred to the bank.
 ME Mexico WTBM 100.7, now owned by Richard Gleason, fires seven, and simulcasts

WOXO 92.7 Norway ME fulltime, "except for AM drive." Gleason paid \$300,000 for WTBM from T. Barton Carter, who is on the faculty of Boston College.
 MO Kirksville K220CN "91.9, planning to go to 250 watts at a higher elevation. Hanging on the same tower will be another translator to relay Moody programming from WMBI-FM "90.1 Chicago via satellite.
 NE Blair KBWH 106.3, \$
 NH Berlin WZPK 103.7 closed its Portland ME office, seeking ads only from NH. Rumors that it has sought Chapter 11 bankruptcy protection are unfounded, the station alleges.
 OK Stillwater KOSU "91.7 should be on now with 100000 h.v.; 308 m from a tower 10 km west of town. Expecting its audience to increase five times, and claiming some audience in Oklahoma City and Tulsa, despite KMAA's 92.1 signal in latter city. Its mate on the new tower, KSPI-FM 93.7, is already there with 16000 h.v.; 270 m.
 TX Eastland K220BB "91.9 owned by the First Baptist Church of Eastland. "Uses 30-second spot at ID time to invite listeners to attend Sunday services at the church."
 TX Kilgore KTPB "88.7, public radio, exact format, stereo status unknown
 TX Tyler K203AO "88.5, "dual KVTT-K203AO ID at noon daily."
 WI Milwaukee WMMK "88.1, triplexed into the WUWM/WYMS antenna on the channel 6 tower. "A small studio has been constructed at the WITI-TV transmitter building for local origination of programming." "I volunteer there weekends. WVCY 107.7 is not very pleased with us, but we add a new dimension to religious programming. We use our stereo more than WVCY does."
 BAHAMAS "1-04-5," on air, CNN news and local ads; power, stereo status, exact location unknown, except saying "Paradise Island"

AM happenings Most Likely Caused by FM

CA Santa Barbara KIST 1340 has had its old tower atop the Ben Franklin Building torn down; had been in several movies, one of which I remember seeing as a kid. Station "literally owned the market, and in the 1970s and early 1980s it had 15 mobile units on the street."
 Rebuilding tower on land close to where it was. CO Monument (Colorado Springs) KCBR 1040 silent again (was on briefly with talk)
 ID St. Anthony KIGO 1400 silent; had been k
 IL Chicago WPNT 820 off the air "indefinitely." It was costing \$400,000 a year to keep on the air, considering taxes on the land, electricity and engineering.
 IL Springfield WMAV 970 goes from country to oldies. WFMB 104.5 trounced them in the ratings. Hoping its better signal will enable it to win the oldies war with WCVS 1450, which also has that format.

FM Rulemakings Finalized Dates are when FCC filing windows are open

CA Garberville 103.7C1, Feb. 26-Mar. 28
 CA Yuba City KXCL 103.9B1 from A
 FL Rockledge WHKR 102.7C2 from A
 IL Morris 103.1A, Feb. 20-Mar. 22
 IL Pontiac WJEZ 93.7A from 103.1A
 KS Copeland 99.1C1 from C
 KY Hardinsburg 104.3A, Feb. 12-Mar. 14
 MI Glen Arbor WTHM 95.5C2 for 95.9A
 MI Osoda WCLS 100.7C3 from 100.1A
 MI Pickford 105.5A, Feb. 26-Mar. 28
 MI Scottville WKZC 94.9C3 for 95.9A
 MS Pearl 93.9A, Mar. 1-Apr. 1
 MO Bourbon 96.7A, Mar. 1-Apr. 1
 MO Columbia KCMG 96.5C3 from 96.7A
 VA Marion 103.5A, no dates announced
 VA Orange dismissed WJMA-FM's bid to move to Gordonsville
 VA Rural Retreat WCCR-FM 95.3A for 103.1A



IN THIS ISSUE:
 -Bill Hepburn logs IL NWS at over 600 miles!
 -Mystery calls revealed.
 -A wrap-up of the editor's 1990 loggings.
 -TV Time Tunnel's editor checks in with some tropo... and much more!!!

Matt Sittel
 PO Box 21347
 303J Wood Hall, NCSU
 Raleigh, NC 27607
 (919) 833-1153
 Deadline: 4/1/91 for the 5/91 column

There's a little bit to report this month, so it won't be a long column. The address above will be valid until the first week of May; after that time I'll have another new address, so stay tuned...it seems like when I get my new address in print it changes! Let's get on with the column shall we?

William R. Hepburn, 1211-1547 Mississauga Vly, Mississauga, ON L5A 3X8 Canada
 Equipment: Realistic PRO-2004, 12th floor balcony vert. dipoles w/20dB amp

NOVEMBER 1990

21 tr 0354 WXL43	162.550	PA Wilkes-Barre	260	NWS,15dB
22 tr 2054 DKK	116.200	NY Dunkirk	78	VOR - CW ID only, no voice
2150 WXM49	162.425	IL Goreville	645	NWS Paducah,KY
2325 WXJ47	162.475	OH Zanesville	280	NWS Akron-Canton, 35 dB!
23 tr 0018 KYNG	119.750	OH Youngstown	169	ATIS
0105 KTH35	162.550	PA Pittsburgh	230	NWS
0603 GEE	980.000	NY Geneseo	110	TACAN
0638 WXM70	162.500	WV Spencer	345	NWS Charleston

Comments: Great tropo on the 22nd-23rd! Reception of WXM49 with a fairly decent signal - still blew me away. With only a miserable wire dipole strung up on my balcony, I can only imagine what a nice big yagi on a rotor would have brought in! Lots of interference from data and paging network on 162.420 MHz was ruining reception on 162.425 about 60% of the time. 162.475 Zanesville was strong enough to be all over local XMJ-225. The GEE TACAN was the first non-local to be received.

For those that don't have freq. tables for the TACAN channels, they are as follows (spaced 1.0 MHz apart)..
 Ch. 1-63 962-1024 MHz Ch. 1Y-63Y 1088-1150 MHz
 Ch. 64-126 1151-1213 MHz Ch. 64Y-126Y 1025-1087 MHz 73s, Bill

(Bill, did WXM49 mention Goreville? My list says it is licensed to Marion,IL. WXJ47 is licensed to Caldwell,OH, not Zanesville. What does TACAN stand for? Also, when did you add the 20dB amp? How is it? -mcs)

Matt Sittel, NWS News Editor

OCTOBER 1990

02 tr 0741 WXL42	162.400	NC Winston-Salem 88	17 tr 0813 WXL42	162.400	NC Winston-Salem 88
0813 WXL59	162.475	NC Rocky Mount 66	0815 KHB37	162.550	VA Norfolk 156
03 tr 0807 WXL42	162.400	NC Winston-Salem 88	20 tr 0812 WXL42	162.400	NC Winston-Salem 88
0849 WXL60	162.400	VA Roanoke 124	31 tr 0703 WXL42	162.400	NC Winston-Salem 88
04 tr 1718 WXL42	162.400	NC Winston-Salem 88	01 tr 1006 WXL42	162.400	NC Winston-Salem 88
05 tr 0721 KHB31	162.550	NC Wilmington 116	26 tr 0832 KHB31	162.550	NC Wilmington 116
0838 KEC85	162.400	GA Savannah 298	0832 KEC95	162.400	SC Myrtle Beach 123
06 tr 1011 WXL42	162.400	NC Winston-Salem 88	1011 KHB29	162.550	SC Charleston 200
1011 KHB29	162.550	SC Charleston 200	07 tr 2243 KEC95	162.400	SC Myrtle Beach 123
07 tr 2243 KEC95	162.400	SC Myrtle Beach 123	2245 KHB31	162.550	NC Wilmington 116
08 tr 0010 WXL42	162.400	NC Winston-Salem 88	0841 KIG77	162.475	NC Cape Hatteras187
0650 WXM57	162.400	VA Heathsville 195			

There really hasn't been much DX since. I'm 2 floors lower in my new room, so I have not been able to determine how much DX will be affected. It's hard to tell as this time of the year doesn't usually yield much DX as it is. I did log WXM72 162.425 WV Hinton at 125 miles, from Kingsport,TN at 0657 on 1/4/91.

Tom Bryant writes..."After using Matt Sittel's Realistic portable Weather Radio on the trip to and from Manassas last August, I was sufficiently impressed with the unit that I picked one up when they had them on sale for about \$13. Since then I have not heard any Es WX stations, but some rather unusual results via Tr. Of course the Nashville station is always dominant, with the Waverly repeater and the Murray, KY satellite of Paducah in most of the time. Also heard have been Florence,AL and Paducah,KY; and on the evening on 1/2/91, the local station could be nulled to hear BOTH Tupelo,MS and Somerset,KY. Also heard for the first time that evening was the Bowling Green NWS station. Sorry, but I neglected to log the calls and frequencies.

Thanks, Tom! Keep us posted. I caught an ID off of Myrtle Beach,SC NWS, and the calls for 162.475 Cross,SC are WXM93. Check for NWS DX, and report it here to NWS NEWS!!! 73's,Matt.

NORTHERN FM-DX

FOR DXers In: Canada, ME, VT, NH, MA, CT, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, and OR

GREG CONIGLIO
5100 GLENWOOD DRIVE
WILLIAMSVILLE, NY 14221

NORTHERN FM DX

MARCH 1991

RICH SHAFTAN's REPORT continued.....

MARCH 1991

DEADLINE: the 1st

Not a whole lot of DX to speak of this time. DXers continued to do well with meteor scatter loggings during December and January, and there were evidently a few short e-skip openings, nothing major though. Some more reports from Thanksgiving tropo fest as well. Thanks to Bruce Hall for sending a list of meteor shower events for 1991, and Rich Shaftan for sending a map of his daily tropo-scatter.

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041 (ELT)

Equipment: Receiver: Carver TX-11a modified with five 150 khz IF filters. Antenna: Two CM Stereo Probe 9's HORIZONTALLY stacked at 35' AGL, CAC-11 75 ohm coax- Home brew tuneable band pass filter. Underlined new to log. Dashed underline new propagation mode.

OCTOBER 1990 DX

11 Tropo
2291 WOMP 100.5 OH Bellmare, finally in WYOR null 321
NOVEMBER 1990 DX
20 Es to Florida 10/24-10/31. MUF 90.7 MHz
1854 WCIE 91.1 FL Lakeland, ID
1058 WSPF 90.1 FL Ft. Myers, classical, ID 1187
DECEMBER 1990 DX
2 MS
2220 WQKX 99.1 FL Jacksonville, ID (prev via Es) 936
18 Tropo
1900 WFMJ 91.1 OH Alliance, Mt. Union College 297

OCT 19 Tropo

2205 WYBG 99.3 OH Youngstown, Oldies JD oWSEE 271
13 MS
2300 KSMU 91.1 MO Springfield, ID, prev Es 993
14 MS (Heavy Gemini) in MS hard to catch
0059 WUKY 91.3 KY Lexington, ID, * 562
28 Tr (Es) Ottawa in short 1890
0032 CBOF 91.5 ON Ottawa, ET, I, RS-17 EE (?-gc) 159
0058 CBOF 90.7 ON Ottawa, w/ bmx FFC 159
28 Tr
0110 WYKX 91.3 NY Poughkeepsie, *p, JD 150
0208 WBPW 91.3 NY Kingston, B94, callers 140

*Central NY PBS stations WCNY/WUNY/WJNY/WRVO/WVEV/WRVN sign off at 0000, clearing up these channels for MS DX etc. Totals at 1533. Happy New Year and good DXing in 1991. 73-Fred

RICHARD K. SHAFTAN - 101 OAKLAND AVE - ROCKAWAY, NEW JERSEY 07866

Equipment: JVC JR-S201 receiver, Radio Shack FM Antennas (2) stacked at 35 feet AGL, 150 filters. Phone #: (201) 586-3563

OCTOBER 1990 DX

7 tropo (Longwire)
2248 WCRB 102.5 MA Waltham, solid w/WOLC
2249 WWRX 103.7 RI Westerly, solid. WNNJ is 12 miles away at 20,000 watts.

8 tropo

0015 WWMX 106.5 MD Baltimore
0040 WJFD 97.3 MA New Bedford, Portuguese
0119 WNTX 96.3 MA Nantucket, Oldies 96
0122 WPFW 89.3 DC Washington, ID
0123 WGBH 89.7 MA Boston, local

NOVEMBER 1990 DX

17 tropo-scatter
1747 WQSR 105.7 MD Catonsville, ID
2013 WCNY 91.3 NY Syracuse, classical, ID
18 groundwave (Rooftop system)
2350 89.4/89.6 unID on carrier of WSOU. ID was WRMM New York

19 GW/Tropo

0035 WLFR 91.7 NJ Pomona, ID, Lite 91.7
2327 WDVN 89.7 NJ Stockton, ID, now regular.
I don't know why I never picked this up one mile away

20 tropo

1026 WHLM 106.5 PA Bloomsburg, ID, another station I could rarely get a mile away.

22 tropo

1244 WJFM 100.1 PA Lebanon, ID, Bright 100
1258 WAFL 97.7 DE Milford, top 40, ID
2050 WAAJ 100.9 MD Hurlock
2052 WNNN 101.7 NJ Canton, rare, religion
2055 WZBH 93.5 DE Georgetown, The Beach

NOV. 22 tropo cont

2056 WGMD 92.7 DE Rehoboth Beach, Sunny 92.7
2121 WCEI 96.7 MD Eastern, local ad, thru WQQQ
2159 WVBF 105.7 MA Framingham, Local talk show

ID as Boston 105

2212 WAQY 102.1 MA Springfield, Rock 102, Stones
2340 WROR 98.5 MA Boston, local mentions
27 TrS/GW
0049 W244AS 96.7 NJ Oakhurst, WHTZ translator
1432 WARY 88.1 NY Valhalla, ID
1454 WKRB 90.9 NY Brooklyn, ID thru WHY Y
1512 WHKS 94.9 PA Harrisburg (Rich, calls are now

WKLL-gc), also 97.3 WXBB in.
1615 WXLO 104.5 MA Fitchburg, ID, this comes in fairly regularly here.

1644 98.1 & 97.3 New Bedford in. Also 98.5, 96.1, 92.9

102.5, 103.3, 105.7, 94.5 Boston area
1830 WSNE 93.3 MA Taunton, ID
1858 WFNX 101.7 MA Lynn, u/WBAZ, ID promo

METEOR SHOWERS IN 1991

Shower	Date	Hour (UT)	Rate (#/hr)	Viewing Circumstances
Quadrantids	Jan 4	03	60	poor
Lyrids	Apr 22	14	10	fair
Eta Aquarids	May 5	14	35	fair
delta Aquarids	July 29	04	20	poor
Persids	Aug 13	04	75	excellent !!
Gammaids	Oct 22	07	25	poor
Taurids	Nov 4	...	10	good

11/27/90 Tropo
1939 unID 104.9 classical, likely WBOQ
1945 WBCN 104.1 MA Boston, Radio 10-4 WBCN
1958 WCGY 93.7 MA Lawrence, thru WZMX
2115 unID 99.3 ment. Heritage Mall thru WMID
2236 WGTY 107.7 PA Gettysburg. This one came in quit often in December
2252 WYFI 99.7 VA Norfolk, trace
28 Tr
0759 WQXA 105.7 PA York, top 40
1605 WCOD 106.1 MA Hyannis, WXLO in again too

DECEMBER 1990 DX

2 tropo
0142 WOHQ 104.7 MD Ocean City, strong, Q-105
1206 WRPR 90.3 NJ Mahwah, thru WHPC, ID
1510 WDSI 100.1 NY Woodstock, classical, ID
1600 unID 100.1 Philadelphia vs Buffalo NFL game (WUFM a good possibility-gc)
4 Tropo
0019 unID 102.5 Little Richard thru WRFY (Rome?)
5 MS/TrS
0131 unID 91.9 Family Radio (MS)
2232 WMRV 105.7 NY Endicott, heard several other times during December

7 TrS/MS

0910 WDNH 95.3 PA Honesdale, ID, WMRV in
2051 unID 95.3 Mount Pleasant? (MS)
2313 WCTX 92.1 PA Palmyra
8 TrS/MS
0001 WDLS 93.7 PA Dallas, ID, possible sign off

12/8/90 MS/TrS
0018 unID 107.3 Cool 107 FM (MS)
0217 WARM 103.3 PA York, Warm 103, WPRB off
0230 WEAY 92.1 PA Nanticoke, Eagles, ID
10 TrS
0832 WSEN 92.1 NY Baldwinsville, WCNY in too
1455 WKOJ 92.7 NY Middletown, ID in car in N. Bergen on side of hill facing west
14 TrS
1008 unID 93.3 lame/C&W u/WMMR, to NW
17 Tropo
0741 WRGN 88.1 PA Sweet valley, Bible Quiz
0751 WCTX 92.1 PA Palmyra, ID as X-92
0800 unID 107.7 Y-107.7 to Northwest Tunkannock? (Yes, WYMK-gc)
0808 WVOR 100.5 NY Rochester, local promo
0811 WKLX 98.9 NY Rochester, Simon/Garfunkel
0828 unID 94.9 Steve Miller, maybe Utica
1300 WFCR 88.5 MA Amherst, ID
1307 WPOB 88.5 NY Plainview, Frank Lorenzo
2124 WQKX 94.1 PA Sunbury, top 40, ID
2200 WCEI 96.7 MD Eastern, ID
22 TrS
0649 unID 103.3 WARM/WODS/WESR, WPRB off
28 TrS
1402 WJFF 90.5 NY Jeffersonville, ID with Sullivan County Weather, PSAs
30 GW
0930 WMUH 91.7 PA Allentown, Spanish prog.

Had to move on Sept. 4 to this new location after an attic fire forced us to move. The timing during my busy season and with the XYL 8 months pregnant couldn't have been worse. After living here two months and getting past election day (our company handles media and strategy for political clients), I put up a pair of Radio Shack cheapies stacked five feet apart. The results are amazing. I have picked up 15 new tropo and ground wave catches in just a month and a half, despite this new location being 120 feet lower in elevation and with sharper rises to the North and West. The two antennas far outperform the Wineberg I had at my old house, particularly with nulls and front to back ratio. I also put up a longwire stretched NW/SE which measured about 100 feet with a terminating resistor of 560 ohms fed to a ground on the Northwest side. While this antenna has sharper gain to the Northeast than the stacked antenna. According to what I have read, shouldn't this gain be highest to the North and West? I would appreciate more information on other members' experiences with longwires. I have lots of room in the woods here to string all kinds of antennas.

BRUCE HALL - 141 KING GEORGE ROAD - BRANTFORD, ONTARIO N3R 5K7

Equipment: same as before, distance is in kilometers.

JANUARY 1991 DX

3 MS (Quadrantids meteor shower)
2212 unID 94.3 CJSB or CHIQ. Ad for Bargain Harold's with no GST tax on clothing. Wrote CJSB Thunder Bay to verify ad. If not played there I'm sure it's CHIQ Winnipeg, MB.
2241 WJFK 106.7 VA Manassas, John Cougar mx. tried for this since convention. Convention 91? (Dunkirk, NY-gc) 552
2339 KFQU 99.1 MO Clayton, Classic 99 KFQU-FM 29th state logged 989

4 MS

KYPG 99.1 KS Girard, r, calls, ex: Y-101. 1389

STATION NEWS: 95.1 in Charlotte is no longer top 40 WZZG: They are now WGKL, Kool 95, and oldies. 107.3 in Anderson, SC is rumored to be going to WWWW and adult contemporary.



PETER Q. GEORGE (N1GGP) - 25 COLUMBIA ST 3rd floor - BROCKTON, MASS. 02401

(508) 584-0374, no collect calls please.

RECEIVER: SONY STR-VX750, modified with 150 khz filters

ANTENNA: FM transmit "halo" at 60 feet AGL, 6 element yagi (both fed w/RG8U coax into CM amp.

- 11/22/90 DX (Thanksgiving Day) (all stereo)
- 1115 WMBR 100.1 MA North Adams, beautiful mx-wanted
- 1121 WRTC 89.3 CT Hartford, black gospel mx
- 1124 WRCH 100.5 CT New Britain, AC/EZL, Lite 100.5
- 1125 WXGL 93.9 ME Lewiston, Eagle 91, oldies
- 1126 WCDQ 92.1 ME Sanford, AORIG old, 92-CDQ
- 1128 WQYR 100.1 MA Southbridge, local football game
- 1155 WHCF 89.5 ME Bangor, religious talk
- 1200 WAQY 102.1 MA Springfield, Rock 102
- 1202 WRM 95.1 CT Broadfield, Classic AOR, I-95
- 1211 WBLZ 98.3 RI Block Island, FI ads
- 1212 WCLZ 98.9 ME Brunswick, new age, EZL
- 2211 WQCB 106.5 ME Brewer, Country, Q-106
- 2219 WNYC 93.9 NY New York, Piano classical mx
- 2220 WVIC 96.5 CT Hartford, CHR and a ROYAL post!
- 2223 WYJY 94.3 ME Biddeford-Saco, EZL, Joy 94.3
- 2225 WKCR 89.9 NY New York, folk, acoustic mx
- 2229 WBLB 107.5 NY New York, urban contemporary

- DEC 13 MS DX (Geminids) (all stereo except CBRN's)
- 2140 CBRN 20 89.3 ON Thunder Bay, prev ES, CBC FF Mon
- 2142 WSKG 89.3 NY Binghamton, prev trope, NPR
- 2158 WJZQ 95.1 IL Decatur, country mx
- 2211 KXTR 96.5 MO Kansas City, classical mx
- 2259 WAY Y 95.1 NJ Atlantic City, CHR, top 40
- 2339 WXIL 95.1 WY Peakersburg, "Jack Gordon 95XIL"
- 2349 CBRN 17 95.1 ON North Bay, CBC FF Mono
- DECEMBER 14 MS
- 0842 WAJR 95.1 IN Fort Wayne, "man on the street on WAJR"
- 0851 WLSI 95.1 WI Mainette, "pharmacist in Mainette"
- JANUARY 12, 1991 Tr-S
- 1700 WQNA 107.7 NY Albany, Country Favorites 107.7
- 1705 WRCH 100.5 CT New Britain, Lite 100.5 WRCH



Some fantastic tropo on Thanksgiving Day added zest to wonderful feast!!! Much wanted WMBR 100.1 MA, WKCR 89.9 NY, and WBLB 107.5 NY were heard at varying strengths throughout the day. It was truly an event that kept me "swooshing" up and down the band into the wee-hours of the next morning. But the real event was the Geminid Meteor showers on the night of 12/13/90. I found that for my use, a ground plane cut for the FM band located well below rooftop level on a 3rd floor balcony far outperformed any rooftop antenna for meteor scatter reception. The reason being that by lowering the height AGL, many semi-local which would otherwise slatter were effectively weakened to make MS reception more accessible especially on first adjacents. Needless to say I was not disappointed. In fact I gained two new states, Michigan and West Virginia.....I have recently moved, believe it or not to the house right across the street. Once again I lucked out with even better antenna privileges with a very sympathetic landlord. Day one of my new antenna farm yielded WQNA/107.7 NY and WRCH/100.5 CT. Surprisingly, these two signals are audible here almost 70% of the time. Considering that WXKS/107.9 (the famous "Kiss 108") is only 20 miles away, WQNA is truly one of my better achievements plus the fact there were less than favorable conditions at the time. Well that's it for another edition. Hope everyone had a wonderful holiday season. Not to be political, but.....whether or not you agree with the war in the Persian Gulf please remember our servicemen as they perform their duty for our country in Operation Desert Storm. Let's hope for a lasting peace on all sides in 1991. Until next time. 73!!!! Pete

MIKE CHERRY - BOX 631 - GANGES, BRITISH COLUMBIA V0S1E0 (604) 537-5201

Equipment: see previous VUDs @ = mobile, Toyota FM stereo receiver

DECEMBER 1990 DX

- 8 Aurora
- 2229 CBX 90.9 AB Edmonton, stereo service, 544
- 12 MS
- 0012 KYCS 95.1 WY Rock Springs, at all Southern Wyoming Suba...(ru)
- 13 MS
- 2048 KCMX 101.9 OR Ashland, (over CFUV) "ner at KCM..."
- 2155 KEMI 96.3 CA Eureka, "showers and an overnight low of 45 to 50 at Eureka's Lite"
- 14 MS
- 0614 KCQR 90.7 ID Twin Falls, "...oil of Jerome Co Churches are presenting their annual performance of Handel's Me." prev Tr

- December 15 MS
- 0743 unID 106.9, 4 bars of Paul Simon's Kodachrom over semi-local KKNW Seattle, \$
- JANUARY 1991 DX
- 3 MS
- 1913 CKRA 96.3 AB Edmonton, "bare and wet on the Yellowhead, McLead trail has..."
- 2017 KZIN 96.3 MT Shelby, "of 1990, on Z-96 your"
- 14 Tr
- 2236 CBRN 90.7 BC Boston Bar // 690 CBU rare direction and station, 110 miles
- 15 MS
- 0023 KYYZ 96.3 ND Williston, prev Es, Lazer 96



This has been one of my best winters for FM DX's via MS. There has been a little Es this winter, but MUF's never reached 88 MHz. Numerous unIDs during the Geminids and Quadrizoids. The next major showers will be the Lyrids in April. Postal rates have gone up to 50 cents in Canada, with sales tax being charged on stamps!! hope no club members will be offended if I cut down on my correspondence to individual members because of this. The "FM Atlas" is indispensable when it comes to IDing stations during brief meteor scatter bursts. 2 stations above would't have been IDed without this info. Good DX...73's Mike

MIKE BUGAJ - 69 SHERMAN ROAD - ENFIELD, CONNECTICUT 06082

OCTOBER 1990 DX

- 7 Tr
- 2040 WFAZ 93.3 CT Danbury, 63 watts relaying a SW Portuguese broadcast (sounds like they held a mike next to a SW radio speaker). Then into Family Radio at 2300. A weak station on a rough frequency.
- 30 GW
- 1853 WBRQ 99.7 MA Springfield, PIRATE with k or bluegrass and Mutual News. Sounds professional

NOVEMBER 1990 DX

- 21 Tr
- 1947 W202?? 88.3 NY West Hurley, Translator of WFME with WFME/WFRS ID. This was mixed in with WRGN 88.3 PA which is also g
- 23 GW
- 1016 WRNX 100.9 MA Amherst, new station. Still can null them to get WKLI 100.9 Albany.

DECEMBER 1990 DX

- 13th-14th
- lots of MS bursts on 92.9 and 99.7. Heard WAPW (Power 99) ID and Z-93 (92.9) from Atlanta.
- 18 Tr
- 2135 WMYX 97.3 NY Schoharie, k, "My Country"



This report will make me up to date through the end of 1990. I have just noticed that CKUE 101.1 has changed over to country music (Yep, but calls are CHEQ-gc). Also that WSHQ 103.5 (and 98.3) "Show FM" have switched to solid gold oldies. WGY-FM is also oldies. Can the market take two oldies stations?? Seems like the hottest formats right now are country and oldies. It will be interesting to see which way radio goes in the 90s. Happy New Year to all! Mike

ETV-DX Editor Bill Nienajady of Clifton, New Jersey is kind enough to write to give us an update on what DX he has had recently. He was able to summarize January 1991 DX activity very quickly: "ZILCH! NOTHING! NADAI". Well, hope your DX fortunes have changed for the better by the time we read this, Bill. Bill also mentions working on more modifications that can be done to certain tuners, specifically: changing the digital step and

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NY 14221

Equipment: Pioneer TX-9100 tuner (mod w/4 150 filters), Archer 0-10-20 db FM only amp, Archerrotor and CAC-11 coaxial cable also used.

DECEMBER 1990 DX

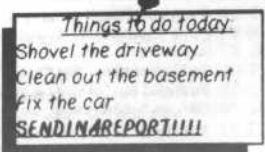
- 14 Tr
- 2325 CKWR 98.7 ON Kitchener, rap\$ show Heard before but never IDed. 92
- 17 Tr
- 1016 WCIK 103.1 NY Bath, g\$ // 88.5, 89.1, etc One of my closest unheards until now Very tough cause of CFMX-FM, even though CFMX is 100 miles away, but its 115,000 watts 87
- 31 TrS (local WHIT-104.1 off)
- 1439 WIOF 104.1 CT Waterbury, Magic 104 303
- 1450 WNNK 104.1 PA Harrisburg, Wink 104 214
- +unneeded WAEB, CKTF, WQAL, WXTR, WVGR
- 22 TrS
- 1526 WJFK 106.7 VA Manassas, calls heard 300

JANUARY 1991 DX

- 9 MS
- 1217 WDEF 92.3 TN Chattanooga, "here this weekend at the U.T.C. Arena" 652
- 10 TrS
- 2313 WXRK 92.3 NY New York, The Classic Rock Station 92-3 K-Rock. Trying for MS. 278
- 11 TrS
- 2351 WLGL 92.3 PA Riverside, ment of WYGL (100.5) then apparently signed off. Both this and WXRK were heard in the "wrong" direction: ENE plus WCOL-FM Columbus, Ohio was in ENE. Have anything to do with antenna iding? 172
- 73, Greg

Not too much DX since the November tropo openings. There was some brief FM E-skip on December 26, to the Canadian Maritimes. I hear there was some good tropo on February 8/9 that I missed. I hope other got in on this and look forward to hearing from reporters on this opening.

STATION NEWS: WLSR 102.3 in Louisville, Kentucky is now "Mix" 102... In the Houston area, 106.9 is now KJZS: jazz. KGLF 103.3 takes on the KJOJ calls... WEYE 104.3 Surgoinsville, Tenn. is on with oldies, WJDT 106.5 Rogersville, Tenn. is also on, with country. In Texas, KQXY 94.1 is using "94-Q" as a slogan. 96.5 in Hamilton, Ohio is now Z-rock. Thanks to George Greene and Matt Stitel for some of this info.



SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

March 1991

DEADLINE: 14th

SOUTHERN FM DX IS FOR REPORTERS FROM: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT AND ALSO DC. Happy DXing!

Some reporters continued to have some luck with the tropo and meteor scatter going into the new year. Farthest tropo ranges out to around 500 miles this month. On 2/11 there was a rather brief encounter with off season skip. It won't be long now. The new DX season for 1991 is just around the corner and will be time to start checking DX conditions more regularly.

Matt Sittel, P. O. Box 21347, 303J Wood Hall, NCSU, Raleigh, NC 27607 (919) 833-1153

Equip.: Yamaha TX-900U tuner w/modified filters, Archer 6-bay FM antenna, rabbit ears, Archer FM signal amplifier.

-DX heard in Kingsport, TN 12/18/90 - 1/8/91.

The above equipment except 6-bay were used.

TIME	CALLS	FREQ	ST	CITY	DIST	REMARKS
10/31/90	GW					
1649	KTID	100.7	CA	San Rafael	36	From 100.9
11/4/90	MS					
0430	KVXD	103.9	WA	Sookane	685	KAAR (primary)
0319	KSWO?	105.5	??			Tent calls
11/25/90	IR					
0602	K220CO	91.9	CA	S. Lake Tahoe	120	// KNIS; KLVR off
11/28/90	IR					
0201	KAVC	105.5	CA	Rosamond	295	Calls
12/1/90	MS					
0147	KCLK	94.1	WA	Clarkston	635	Calls
1114	KKMR	100.9	NV	Soarks	150	Calls; KSGO off
12/2/90	MS					
0412	CISN	103.9	AT	Edmonton	1155	Red Deer; Kissin'
12/2/90	MS					
0006	KTIE	107.1	CA	Bakersfield	230	Calls
12/13/90	MS					
1044	CKIK	107.3	AT	Calgary	1005	107 Kick FM
1104	KSLT	107.3	SD	Spearfish	1000	Calls
12/14/90	MS					
0700	KUGN	97.9	OR	Eugene	430	Calls
0715	KCCY	97.9	CO	Pueblo	930	"
2300	KWHO	100.9	CA	Weed	225	ID; KSGO off
2306	K265CV	100.9	CA	Fremont	40	// 91.9
1/6/91	SL					
2100	KSQW	96.1	CA	Morgan Hill	50	ID (new)
1/8/91	IR					
1013	KLCX	104.7	OR	Florence	440	Calls; KSNM off

SOUTHERN FM DX

MARCH 1991

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

Well, 1990 ended a bit better than it started. A few items from here plus a visit to my brother's in Alexandria to report on. All Antioch loggings were done with the main system - MR80 & Channelmaster S/probe-9 at 35'. @ indicates new to Antioch; # indicates the Blaupunkt car radio, in Castro Valley - a new logging, but non-counting as it's outside of the Diablo Region. The site was my Dad's driveway, & couldn't get the station on his JVC receiver with a 6-element FM yagi aimed right at it. Too much overload from KOMA 98.5 & KRQR 97.3, apparently.

TIME	CALLS	FREQ	ST	CITY	DIST	REMARKS
10/31/90	GW					
1649	KTID	100.7	CA	San Rafael	36	From 100.9
11/4/90	MS					
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11/28/90	IR					
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12/1/90	MS					
0147	KCLK	94.1	WA	Clarkston	635	Calls
1114	KKMR	100.9	NV	Soarks	150	Calls; KSGO off
12/2/90	MS					
0412	CISN	103.9	AT	Edmonton	1155	Red Deer; Kissin'
12/2/90	MS					
0006	KTIE	107.1	CA	Bakersfield	230	Calls
12/13/90	MS					
1044	CKIK	107.3	AT	Calgary	1005	107 Kick FM
1104	KSLT	107.3	SD	Spearfish	1000	Calls
12/14/90	MS					
0700	KUGN	97.9	OR	Eugene	430	Calls
0715	KCCY	97.9	CO	Pueblo	930	"
2300	KWHO	100.9	CA	Weed	225	ID; KSGO off
2306	K265CV	100.9	CA	Fremont	40	// 91.9
1/6/91	SL					
2100	KSQW	96.1	CA	Morgan Hill	50	ID (new)
1/8/91	IR					
1013	KLCX	104.7	OR	Florence	440	Calls; KSNM off

Never thought I'd hear KWHO here. To begin with, they had been off for years, and their -360' aat didn't sound promising. Turns out they've been back for over a year with an all-new facility. They now have 100 watts 1440' aat (over 6000' amsl). They're coisted with K257CA Mt. Shasta, which I heard in April '89.

Very kind of KSGO Tracy to die 12/1 (not to mention 12/14!). Eric Sundius was over to test his modified receiver against the MR80, so both of us listened for KROI Soarks for about 45 minutes. Finally got 3 KKMR calls in rapid succession without the city, & called Soarks information to confirm the call change. Gone is the new age format, replaced with earwash.

Didn't catch much in Alexandria. My brother's Kerwood was a fair receiver in '67, but these days it can't get the DC stations 5 miles away in decent stereo. I think there's a broken wire in the antenna input. Did log 73 stations with my Sony ICF-2001. Those who are familiar with the 2001 will probably agree that's a pretty good 1-week (winter) catch for such junk. Best was WMYK 93.7 Elizabeth City NC at 180 miles (heard at 93.5 as WKYS 93.9 DC, totally swallowed 93.6 as well as 93.7). Wish there were a way to get the MR80 back there for some serious logging!

And I accidentally forgot the best logging of all, from 1/2/91:
1121 WAZF 93.7 MS Yazoo City, calls 514

The tropo that I heard over the holidays in Kingsport was definitely the best stretch of tropo DX I've ever heard! The opening on 1/2 is 2nd only to the great Thanksgiving '86 DX in strength of signals from so far away. I finally heard my most-wanted state, Mississippi, which has eluded me for years. WAZF is my furthest tropo ever from Kingsport, and is the furthest FM tropo I've ever DX'ed from any location! All of this using mostly just the rabbit ears and the amplifier!

I guess this made up for the November tropo I must have missed, because I didn't bring my tuner home over Thanksgiving!

Not much to report from Raleigh as of yet. My new room is 2 floors below my old location, so there could be very well be some loss of DX. Hopefully not, though!

Best of DX to all and 73's, Matt.

Doug Allen, W2crs, P. O. Box 5646 Woodland Park, CO 80866

Equip.: Pioneer TX 9800 (IF modified) & stacked Stereo Probe 9's at 25".

1/3 ms
0000 KABL 98.1 CA San Francisco, ID
0227 WQLR 106.5 MI Kalamazoo, "Lite 106.5
WQLR", possible new freq. DX record! 1049
0231 WLJY 106.5 WI Marshfield, local
Marshfield ads
0719 KMFY 96.9 MN Grand Rapids, ID
0730 KQXL106.5 LA New Roads, "music
station Q-106"

1/3 ms
1152 ? 97.7 ? "Midway 97-0"
1200 ? 97.7 "laser sound W???..Wooster
Braun"
1205 KLGR 97.7 MN Redwood Falls, local wx
1/21 tr & ms
0910 KDLYT97.5 WY Lander, most wanted occ.
over KBOO slop
0912 KHTYt97.5 CA Santa Barbara, "Y95"

Except for the Quadrantids shower, I did little FM DXing, but a lot of ham DXing on 40, 80, and 160 with a Hytower put up just before Thanksgiving. Occasional enhancement noticed out to 400 miles, and the Wichita and Enid regulars came through as usual. For the first time, I taped some ms January 3rd while running ms on two meters. The "Midway 97-0" occurred as I was working a Green Bay station on a good burst. Unfortunately, my two meter signal interferes with the FM, so I have some garbled stuff on the tape during many bursts.

Welcome to new member, Connecticut FM and TV DXer Ed Hanlon, who may have come up with a better FM antenna than the Probe 9 standard. He's taken two Antennacraft 10's and made one long boom Antennacraft 13 out of them. He's had one up for 10 days and reports superior gain and directivity compared to his old FM 10. (Good, we could use an alternative to that costly wind catching \$445 Smith Aerial, now. DB) He'll have a second one up soon. Since I would love to have an antenna with the Probe's gain (or better) and with the good front-to-back of the Antennacraft 10, I'm eagerly awaiting your report to VUD, Ed! I solicited information and comments on meteor scatter DXing from several prominent DXers who use the mode a lot. Thanks for your replies which will be incorporated into an article next month. Would love to hear from others about ms DXing on FM or TV. 73.

Keith D. Pugh, 227 Martin St., New Hope, AL 35760

Equip.: McIntosh MR-78, Probe 9

1/10 trs
1401 WSCZ 96.7 SC Greenwood, k, ID
2/1 Es
1916 unID 90.5 g.\$, west
1925 KZDR 94.1 NM Hobbs, ID
1927 KTXI 88.1 TX Lubbock, rp
1942 KTYM 99.9 NM Clovis, Magic 99
1946 KQIZ 93.1 TX Amarillo, r, Z-93
1948 KZCV 89.9 TX Amarillo, pr

2/1 Es
1950 unID 103.3 SS.\$, KY Fried Chick.ad
1954 KLYT 88.3 NM Albuquerque
2012 KFLQ 91.5 NM Albuquerque
2014 KBACT 98.1 NM Las Vegas, ment xltr
on something ".5" in Albw. NM

2/4 tr
1800 WLNE 96.1 AL Montgomery, b. \$

Christopher S. Dunne, 21500 Johnson St., Box 533, Pembroke Pines, FL 33029

Equip.: GE Superadio II mod w/ 150kHz filter/whip antenna/Radio Shack 6-element antenna.

1/18 tr
1200 G.U. 104.5 BAHAMAS Nassau,
"1-ob-4-5" * 235

1/20 tr
2059 WPCSt 89.5 FL Pensacola,
ment. "8 o'clock" (CST) 500
2159 WMEZ 93.7 FL Ocala, ID 230

*Thanx, Matt Sittel! I have a foreign FM right under my proboscis & didn't even know it! Matt mentioned hearing the Bahamas @ 104.5 & I thought it should've been Jamaica instead. Sure enough @ 12 noon (!) I heard mention of Bahamas & local ads when they weren't relaying CNN Gulf War news. I called ZNS Nassau & spoke to Charlene who explained that this station is a.k.a. "Radio New Providence" and that it runs "about 10,000 watts". This is Country #9 for me! Thanx again Matt...

Quickly, some FL FM news. 94.3 Marathon now WGMX, still b. WGFU 92.7 now b. (Marco is near Naples; 2 FM's in same market with b format 1171) 99.3 Ft. Myers Beach now op, I dunno if calls have changed. WEEJ 100.1 called "Coast" - that sounds familiar! WKLG 102.1 has been OFF the air for days now. Don't know why. Dr. Elving should have the other particulars.... (c.u. = Call Unknown.)

73a in '91,
SPM's editor's comments: It will be interesting if some body ever tries out the Galaxy 23 Smith Aerial. I don't want it since I'm afraid the massive thing would blow down in the event of a windier than usual Oklahoma thunderstorm. Naim Audio offers a smaller very similar Smith model for \$195. It's specs still well outdo the Probe 9 though the beamwidth is little better.....Local ROSU has yet to move to it's new tower as of Feb. 15.....Hope-everyone is preparing for the new DXing season, if not ready, ready for it. 73.

WESTERN TV-DX

Fred McCormack
Box 17860
St. Paul MN 55117-7860Deadline: 04-11-91
Cut-off: 01-01-91

March 1989

CLARIFICATION - Mike Reid has advised me that he was misquoted in the December 1990 column. According to Mike, he did not say that W69BP was the only WSKG translator on channel 69. What he said was that he believed the W7IAI group in New York was gone and that W7IAI itself is gone.

New ___ New Mode ___ Tent. - t Unidentified - unid S/On - + S/off - =
ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &
Parallel Programming - // MTS Stereo - \$

BN Baja California Norte

Jeff Kruszka, 2824-E Steamship Circle, Harahan LA 70123

CST

Equipment:

Sylvania 12" black and white, quad loop cut for channel 2, Radio Shack U-75 corner yagl. Mitsubishi HS-U31 VCR.

November 1990	1 tr 1857 KLRT 16 AR 361	2 tr 0025 WHOA 32 AL 286
25 tr 0913 WCOV 20 AL 283	2200 KETG 9 AR 322	0029 WPTY 24 TN 363
0931 WDBB 17 AL 294	2202 WJQT 41 AL	(New state)
unid channel 17	2224 KXLN 45 TX 319	0030 WDBB 17 AL 294
(See Note # 1)	2228 unid 49 Spanish	0046 unid 46 religion
	unid channel 52	0602 KLRN 16 AR 361
January 1991	2339 KBVO 42 TX 454	0626 KLTN 18 LA 170
1 tr 1845 KTHV 11 AR 361	2 tr 0016 AXANT 36 TX	0700 WJSP 28 GA 380

From Elyria OH (EST)

Equipment: Panasonic CTF-1011 10 1/2" color TV, rabbit ears

December 1990	26 Es 1500 CJCbt 4 NS	26 Es 1541 unid ch 2 French
26 Es 1452 unid 2, 4, 6 CTW	CJCbt 6 NS ATV	(w/"Smurfs")
(Channel 4 // 6)	1534 WLBZ 2 ME 685	1800 CKND2 2 MB 1060
		1900 KGFE 2 ND 870

Note # 1 - Saw what looked like "2-WLTW" on bottom of screen - doesn't make much sense, though.

Saw a nice E skip opening to the Maritimes while I was at my parent's house, and a great tropo opening to start off the new year (I only wish it would have come one day sooner!). Needless to say, I was pretty tired my first day back at work the following day. The Tourist Channel is operating on channel 55 here, with calls K55EX. They have a pretty good signal now to Harahan. Happy New Year to all.

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

Equipment:

1980 model 9" J.C. Penney b&w (with VHF/UHF tuner from 1976 unit), sometimes RCA 13" (1987) color model EMR350E for UHF. Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

November 1990	23 tr 0935 KPLC 7 LA 340	22 Es 1827 WCIA 3 IL 930
1 tr 0128 KPLC 7 LA 340	December 1990	1830 KGAN 2 IA 960
0159 KFDM 6 TX 280	6 Es 2229 KVBC 3 NV 1050	1929 WFMY 2 NC 1175
Es 1201 WBAY 2 WI 1185	9 tr 2359 K33CK 33 TX 15	1952 WSB 2 GA 885
1209 KGAN 2 IA 960	(San Antonio LPTV)	

A really poor winter E skip season in these parts. The morning of December 9th the 9" black & white developed power supply problems, and a Wards 12" black & white model GEN11235 (1984 vintage), with much poorer selectivity, has since been in use. 73, Pat, WA51YX

John Jefferson, 4104 Spyglass Ct., Antioch CA 94509 (415-778-8727)

PST

Equipment:

Hitachi CT-932 fed by a Channel Master UHF Quantum 4257 @ 35' and a Channel Master VHF/FM Quantum 1110 @ 32' on the same mast. Separate downloads with a Channel Master booster on the UHF. Panasonic VCR.

November 199015 tr 2128 K15CX 15 CA 130 Chico KRCR IDDecember 19903 gw 2013 K52CK 52 CA 28 Stockton Calls; TP

KBCP-30 Paradise took to the air in late October testing, and has been running Home Shopping Club since November. Channel 30 had to be the worst possible channel for me (other than the Sacramento channels, which FCC spacing rules preclude using), right between KCMY-29 and KRBK-31, as well as cochannel with KFSN-30 Fresno. Paralleling KCMY certainly doesn't make them easier to spot! For those reasons, K15CX is far easier to pick out than cosited KBCP. K52CK is a new local (sigh), still running their test pattern over a month later. At least the calls are big and readable, though no hint of city. Maybe they'll fold without ever finding something to broadcast, as K61DW Sacramento appears to have done.

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment: February 1991 Western TV-DX

<u>December 1990</u>	1 tr 0300 WAAY 31 AL 503	1 tr 0505 WZDX 54 AL 503
31 tr 2210 KPOM 24 AR 513	0325 WXMT 30 TN 408	0508 WHNT 19 AL 503
2215 KHOG 29 AR 463	0410 WWSB 27 MS 558	0600 WAFF 48 AL 503
1 tr 0205 WTTO 21 AL 582	0455 <u>WBKO</u> 13 KY 359	13 tr 0315 KSNF 16 MO 413

Had tropo on New Years Eve to nearly 600 miles. Finally logged Bowling Green channel 13 at 359 miles. They run color bars and ID from 0455-0500. Five closer channel 13 stations were absent. 550 mile lower powered Asheville channel 13 has been seen many times at nearly the same heading. They run test pattern and ID earlier from 0415-0430.

Dennis Park Smith, 3703 Dixon Street, Santa Barbara CA 93105-2419

First, an update on Wasco observations: On a weekend there on 29-30 December 1990, K66CQ O'Neills (HSC for Fresno area) was noted using "KHST TV-66" ID, quite frequently. If it's used this ID before, it is first time I've run across it. It still IDs real call in Morse Code.

Santa Barbara is somewhat limited by geography, particularly along north side with a 3000 foot wall over our heads, the Santa Ynez Mountains of the coastal ranges, but ocean from west through south to southeast.

Santa Barbara DX efforts are kind of hit and miss as we don't have outdoor antenna yet. Indoor antennas are rabbit ears and bowtie. Locals include Santa Barbara's KEYT 3 (15 miles), K24AO (for KEYT 3), K59CD (KSBY 6 San Luis Obispo), K61AI (KCET 28 Los Angeles), K65BP (FamilyNet) (all approximately 3 miles), and nearby west Santa Barbara/Goleta K55AP (KCET 28) (15 miles). Only KEYT 3 has enough punch to be snow free indoors; others can be very good but are snow free only if TV is taken outside on extension cord.

All Los Angeles Vs and Us are practically nonexistent on indoor antennas at street level; there can be a little more signal in a second story indoor level from extra height and less ground absorption, but still quite weak over irregular terrain at 95 miles: KCBS 2, KNBC 4, KTLA 5, KABC 7, KCAL 9, KTTV 11, KOOP 13, KWYH 22, KCET 28, KMEX 34, KTVN 40, KHSC 46, KVEA 52, KLCS 58. These are good with three and four bay conicals and similar all channel fringe antennas, with some variation in different parts of town.

Also in, but always weak, is K53AT Buellton (KTVN 40) (15 miles); I think transmitter is with K55AP, but is directional the other way. And, KADY 63 Oxnard (35 miles) is fair, but not watchable on present set-up; it is probably good outdoors.

Then there is San Diego/Tijuana, a virtually all-water path which, along with air inversion layers, allows fairly strong signals quite often. (Even 5 KW San Diego AM radio is consistently stronger than 50 KW Los Angeles at half the distance.) With indoor antennas, they can be not quite snow free, but it wouldn't take much of an outdoor antenna. KFMB 8, KGTV 10, (175 miles), KPBS 15 KNSD 39 KUSI 51 KTTY 69 (185 miles), and XETV 6, XEWT 12 Tijuana (200 miles); somewhat weaker on average (but stronger audio)

Dennis Park Smith (continued) are XHAS 33, XHBJ 45 Tijuana (200 miles). Also in occasionally is CCI on local 59, probably from K59AL (for KPBS 15) University of California-Diego/Torrey Pines (170 miles).

The Juke Box Network hit this area on 1 December 1990 with K150B Santa Barbara. Although legally distant enough from other channel 15s, they couldn't have picked a worse channel because of propagation. KPBS 15 San Diego comes in often and strong enough that the CCI can be tremendous. K150B had a good signal strength, at approximately 3 miles. I say "had" because, around 16 January 1991, it went off the air and hasn't been back on. See Television News column for interesting details.

Next time, a look at my new Realistic battery LCD TV receiver. Best of DX.

Mike Cherry, Box 631, Ganges BC V0S-1E0 (604-537-5201)

PST

Equipment:

Kenwood RZ-1 receiver, channel 6 crystal trap. Hitachi 5" black & white monitor, Sony Beta Hi-Fi MTS VCR. Antennas: VHF - Lindsay CC-30 22 element log-periodic with Dalco EID-3SV 28 dB mast-mount preamplifier @ 38 feet with "ARM-strong" rotor. UHF - Radio Shack 4 bay with 15-1108 adjustable mast-mount preamplifier @ 57 feet asl/agl. Archer 15-578 variable signal attenuator.

December 1990

19 tr 1124 K54AO 54 WA 96	10 tr 2340 KTNW 31 WA 279
(Bremerton KIRO-7)	2357 KEPR 19 WA 275
8 F2 1712 NZTV 45.240 MHz	21 Es 1000 KLNE 3 NE 1311
11 F2 1650 NZTV 45.240 MHz	31 Es 2000 KNOP 2 NE 1224
1723 TVQ 46.170 MHz	4 ms 0300 CFAC 2 AB 438
1732 unid 46.25 MHz	9 tr 0611 KNMT 24 OR 234
13 Es 1100 KMTV 3 NE 1428	0631 KUTF 32 OR 335
1159 \$KTVS 3 CO 1150	0657 KPDJ 49 WA 232
1200 KWGN 2 CO 1096	(Local LPTV ch49
(Over CBUT-2)	off for 3 days)
1930 KSNW 3 KS 1502	10 tr 2329 KPDX 49 WA 232
ms 2127 <u>KDLO</u> 3 SD 1245	2334 Yakima & Tri-
14 ms 0700 KTVU 2 CA 769	Cities 25,42,35,
0833 <u>KOTI</u> 2 OR 476	and 47 - weak
	12 F2 1544 45.240 weak
	16 tr 2200+ Yakima & Tri-
	Cities UHF's
	17 Es 0700 KTVS 3 CO 1150
	unids chs 3 & 4

F2 noted also on January 10th and 11th, but high MUFs and long-haul conditions weren't possible. Video sync buzz only on all F2 loggings.

Channel 2 meteor scatter loggings are thanks to the recent cutbacks at the CBC - local CBUT doesn't sign-on until 0900 local. Even the colour bars don't show up until about 0845.

Winter E skip was better on TV than last year. Congrats to all members who have been logging this mode at Halloween and other abnormal times! E skip never hit FM - it's been since winter 1987.

Postal rates in Canada have gone up to 46¢ + 4¢ sales tax to the US (was 45¢). Because of this, I will be drastically cutting back on personal correspondence to various WTFDA individuals. Sorry people.

My ham calls still haven't arrived. I am acquiring an ICOM 6 meter (50 MHz) rig and plan on building a video-demodulator for TV DX between 40-56 MHz. The ICOM will have much better sensitivity and selectivity than my Kenwood RZ-1 which will then be primarily used for E skip on VHF-lo and UHF TV. E skip this morning (January 17th) was a nice treat. 73's, Mike

Fred McCormack, 135 Prairiewood Drive, Fargo ND 58103

CST

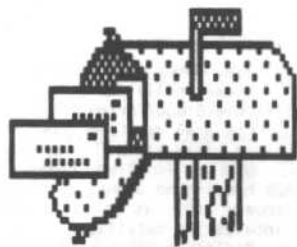
Equipment:

VHF: Broadmoor 9" black & white, Winegard CS-4053; UHF: Teknika 6510 tuner, Winegard CH-9095, Blonder-Tongue CMA-Uc preamplifier; Alliance rotor.

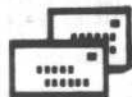
January 1991

12 tr 1948 KDMS 17 IA 385	February 1991	2 tr 0119 <u>K51DC</u> 51 MN 50
1958 KRIN 32 IA 395	2 tr 0112 <u>K31CH</u> 31 MN 50	(Erhard LPTV)
2029 KYIN 24 IA 310	(Erhard LPTV)	0120 <u>K41CS</u> 41 MN 50
13 Es 0928 KDKA 2 PA 945	0118 <u>K43CS</u> 43 MN 50	(Erhard LPTV)
unid ch 3 NBC	(Erhard LPTV)	0121 <u>K39CJ</u> 39 MN 50
		(Erhard LPTV)

Probably not the best of news, finding five new 16 KW LPTV's operating only 48 miles from my antennas and in a prime DX direction! Just testing - programming unknown.



**YOUR COMMENTS
AND CRITICISMS
ARE WANTED..
AND ALWAYS
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514, BUFFALO, NY
14205-0514 U.S.A....**



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REPLY, PLEASE BE
SURE TO INCLUDE A
SELF-ADDRESSED
STAMPED ENVELOPE
...HELP US SERVE
YOU BETTER!**



STATION BREAK

WTFDA
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

FOR SALE - SANGEAN ATS-808 portable PLL LW/MW/SW/FM radio. Covers 150 to 29999 kHz. FM section: 87.5 to 108 MHz in 50 kHz steps, stereo through 'phones. 5* overall value rating in '90 WRTH (p. 568). Excellent condition, bought last February and used only occasionally. Cost \$230, sell for \$125 (I'll pay shipping).
Ted S. Liszewski - 182 Farview Avenue - Paramus NJ 07652

WANTED - Back issues of VUD. All 1970 issues, January thru April '72, January 1976. Contact Mike Hollis at (904) 243-6026 or write:
Michael Hollis - 40 Lakewood St. - Mary Esther FL 32569

FOR SALE - TV GUIDES, 1953-1991. Every issue available. Any article located. 60 page illustrated catalog \$3.00 (refundable).
Jeff Kadet - Box 20-VUD - Macomb IL 61455

WTFDAers: YOUR ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK. This feature appears on a space available basis. WTFDA and the VHF-UHF DIGEST assume no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.

SPECIAL REPORT

TWO BRITISH COLUMBIA DXERS
TAKE A "BANDSCAN" LOOK AT FM
FROM MT. BRUCE, ON CANADA'S
SPECTACULAR WEST COAST

MIKE CHERRY and DAVE SINCLAIR- Saturday, September 15, 1990

LOCATION: Mt. Bruce, Salt Spring Island, British Columbia ELEVATION 2385' ASL
PROPAGATION: very weak tropo on 300+ miles no local or semi-local enhancement
EQUIPMENT: 1990 Toyota ETR FM Stereo with stock whip and Realistic #12-1875 10db amp

88.3 \$ KBVM OR Portland	95.5 \$ KXL OR Portland	103.5 \$ CHQM BC Vancouver
88.5 \$ KPLU WA Tacoma	95.7 \$ KLTX WA Seattle	103.7 \$ KBRD WA Tacoma
88.7 \$ K204** WA Bellingham (xltr KPLU)	96.1 \$ KXXO WA Olympia	104.3 \$ KAFE WA Bellingham
89.1 \$ KMHD OR Portland	96.5 \$ KXRX WA Seattle	104.5 CBYT BC Campbell River
89.3 \$ KUGS WA Bellingham	96.9 \$ CKKS BC Vancouver	104.7 \$ KDUX WA Aberdeen
89.5 \$ KHNC WA Seattle	97.1 \$ KKSX OR Portland	104.9 \$ CKSR BC Abbotsford
89.9 \$ KBPS OR Portland	97.3 \$ KBSG WA Tacoma	105.1 \$ CBU-FM2 BC Sooke
90.1 \$ KSVR WA Mt. Vernon	97.7 \$ CBUF BC Vancouver	105.3 \$ KCMS WA Edmonds
90.3 \$ KCMU WA Seattle	98.1 \$ KING WA Seattle	105.7 \$ CBU-FM BC Vancouver
90.5 \$ K213BA WA Bellingham (xltr KUOW)	98.5 \$ CFMS BC Victoria	106.1 \$ KRPM WA Tacoma
90.9 \$ KVTI WA Clover Park	98.9 \$ KEZX WA Seattle	106.3 K292AL WA Everett (xltr KLTX)
91.3 \$ K217AY WA San Juan Is (xltr KPLU)	99.3 \$ CFOX BC Vancouver	106.5 \$ KLYN WA Lynden
91.7 \$ KTPS WA Tacoma	99.9 \$ KISW WA Seattle	106.7 \$ KMJK OR Lake Oswego
92.1 \$ CBU-FM1 BC Victoria	100.3 \$ CKKQ BC Victoria	106.9 \$ KKNW WA Brewerton
92.5 \$ KLSY WA Bellevue	100.7 \$ KSEA WA Seattle	107.1 CISC BC Squamish
92.9 \$ KISM WA Bellingham	101.1 \$ CFMI BC New Westminster	107.5 CISC BC Sechelt
93.3 \$ KUBE WA Seattle	101.5 \$ KPLZ WA Seattle	107.7 \$ KMGJ WA Seattle
93.7 \$ CJJR BC Vancouver	101.9 \$ CFUV BC Victoria	<u>Stations via tropo:</u>
94.1 \$ KMPS WA Seattle	102.1 \$ CBUF1 BC Chilliwack	89.7 KLCC OR Eugene
94.3 \$ KKEE WA Long Beach	102.5 \$ KZOK WA Seattle	94.5 KATS WA Yakima
94.9 \$ KUOW WA Seattle	102.7 \$ CFRO BC Vancouver	91.1 KPFX WA Spokane
95.3 \$ KGHO WA Hoquiam	102.9 \$ KMNT WA Centralia	107.3 KFFM WA Yakima
	103.1 \$ K276AC WA Everett (xltr KSEA)	all much weaker than normal
	103.3 \$ KKCW OR Beaverton	no long range tropo

ANNOUNCING

THE ASSOCIATION TO PROMOTE 49 MHZ

The Association to Promote 49 MHZ has been formed to generate and continue interest in the no-license required 49 MHZ band covered by Part 15 of the FCC's Rules and Regulations.

This is one of the few sections of the radio spectrum in which one can operate without a FCC license, providing one follows rules regarding transmitter power, antenna, et al.

If you are interested in the 49 MHZ band, then you should join The Association to Promote 49 MHZ; formed in February 1991, its goals include:

- issuing unique W49 and K49 identifiers, resembling FCC callsigns, to 49 MHZ operators;
- publishing a regular journal on all aspects of 49 MHZ band operation, listening and equipment;
- publishing a directory of active 49 MHZ operators;
- promoting operation and experimentation in the 49 MHZ band;
- combining efforts with a hobby electronics manufacturer to bring onto the market a quality 49 MHZ transceiver.

If any or all of this interests you, then please send \$10.00 to:
 Michael Goetsch, Publisher
 The Association to Promote 49 MHZ
 P.O. Box 626
 Edgewater Branch
 Lakewood, OH 44107-0626

Initial membership dues include a 49 MHZ operator's identifier & certificate, the newsletter for a one-year period, and one edition of the 49 MHZ band operators' directory. All membership dues go towards operation of The Association. Also, all individuals are invited to contribute letters, articles and general information on 49 MHZ band experiences and interests.



*** IRCA AM-FM ALMANAC, 5th Edition 1991 ***

The fifth edition of the IRCA AM-FM Almanac is now available! This 240 page book is a must have cross reference for the serious FM and AM DXer. Within it you will find the current frequency check list, affiliates for news and talk show networks, syndicated music and religious programs, AM-FM simulcasts, station slogans, broadcasting in Canada, AM stereo, sports networks, utility stations and many articles on broadcasting. In addition, Volume V contains a section focusing on AM band foreign DXing. Each list is in frequency order and many include the FM frequencies as well as the AM (great for FM DXers).

The IRCA AM-FM Almanac is available in large comb bound or loose leaf (please state preference when ordering). Prices are:

IRCA member: US - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00
 non-members: US - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

The IRCA AM-FM Almanac is available from: IRCA, 11300 Magnolia #43, Riverside, CA 92505.