



DX NEWS

*the magazine of the
National Radio Club*

— SINCE 1933 —

Volume 55 Issue 15 Monday, January 18, 1988

Big columns this issue! Nice going people! 1DXD & DDXD-East looked good, DDXD-West could be alot better. Musings not present, probably delayed due to weather, look for them next week.

And due to the size of the columns the article, Solar, Earth & DX'ing, will have to be concluded in next weeks issue.

Attention Computer Users. Starting on page 13 is an ANARC Computer Communications Survey that I'd like for you to fill out, cut out and send to ANARC Computer Information Committee.

AM Log Book Updater #4 is available. Order yours today. See your logbook for the order form. Send your order to the Publication Center and NOT to HQ.

CPC TEST (Times listed are Eastern Local Time)

Even if you don't hear the Test, why not send a postcard thanking the station anyway. Also, if you don't want to write to stations yourself to set up a test, you can still help us out. If you send some 22 cent stamps to Wayne Heinen, 4131 S. Andes Way, Aurora, CO 80013, he'll get a letter out for you, 1 station per every 2 stamps, you can even specify the station or frequency you would like to hear something on. And when a test is arranged your name will appear below! What a deal!

Jan. 24 WAAW-630 St. Marys, WV 0000-0030 Test will consist of music, tones, & IDs
Sunday A polite reception report to Robert Eddy, CE, Radio Station WAAW, Box 374,
St. Marys, WV 26170.

Test arranged for the NRC by John R. Malicky (with help from Mr. Eddy-Thanks)

LOOK INSIDE

2....AM Switch	3....Stn Addresses	4....DDXD-East
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24....Announcement of Winner of ICDM R-71A Communications Receiver		

AM SWITCH

Jerry Starr, c/o WHOT Radio, 4040 Simon Road, Youngstown, OH 44512

CALL LETTER CHANGES

OLD CALL:	NEW CALL:
1290 WHCM AL SHEFFIELD	WBTG
1380 WMTA KY CENTRAL CITY	WTBL
KMUS OK MUSKOGEE	KLUE
1550 WKNF TN OAK RIDGE	WORI

APPLICATIONS FOR NEW STATIONS

- 640 IN KENTLAND: 250/250 U5 (REAPPLICATION)
- 880 CA MONTECITO: 1000/220 U2 (REAPPLICATION)

GRANTS FOR NEW STATIONS

- 890 MA DEDHAM: 10000/1000 U4

APPLICATIONS FROM EXISTING FACILITIES

- 1150 WCUE OH CUYAHOGA FALLS: DAY POWER TO 2500 WATTS, RELOCATE DAYTIME XR
- 1570 KVLG TX LA GRANGE: DAY POWER TO 1000, ADD 500 WATTS NIGHTS, U4

GRANTS TO EXISTING FACILITIES

- 910 WTXN AL LAFAYETTE: CITY OF LICENSE TO PEPPERELL, AL
- 1030 WUGM MI STERLING HEIGHTS: RELOCATE XR (NEW STATION NOT ON THE AIR)
- 1070 WHYZ SC GREENVILLE: ADD 50000 WATTS NIGHTS, ANTENNA TO U4, CHANGE CITY OF LICENSE TO SANS SOUCI, SC

OTHERNESS

- 1300 WCER IN HUNTINGTON: STATION IS SILENT
- 1380 KFLJ CO WALSBURG: STATION IS SILENT
- 1390 KMDK CO DENVER: STATION IS SILENT BUT THE RECENT ASSIGNMENT OF A NEW CALL (EX-KPPL) INDICATES THIS FACILITY WILL BE REACTIVATED SOON.

COMMENTS AND THANKS

AN NRCER WROTE IN RESPONSE TO SEEING THE REPRINT IN DXN CONCERNING WJUL-1440 BEGINNING FULLTIME OPERATIONS AND ASKED WHY THIS "CP" WAS NEVER IN AM SWITCH. WELL, ACTUALLY IT WAS IN A WAY. THIS NEW FULLTIME OPERATION REFLECTS THE RECENT FCC ACTION PERMITTING NEARLY ALL DAYTIME STATIONS ON REGIONAL CHANNELS TO OPERATE WITH A LOW NIGHT POWER. ALL THIS HAS BEEN COVERED BEFORE BUT BRIEFLY, THESE STATIONS ARE NOT REQUIRED TO FILE AN APPLICATION OR OBTAIN A CP FOR FULLTIME. CHECK THE BOTTOM OF THE AM SWITCH TWO ISSUES AGO. YOU CAN EXPECT TO FIND A GREAT NUMBER OF THESE "SURPRISES" SHOWING UP ON THE REGIONAL FREQUENCIES. AND THANKS TO NRCER WAYNE HEINEN FOR OTHERNESS CONTRIBUTIONS.

73 AND Good DX, *Jerry & BKf* JERRY STARR & BUFFALO K. FOONMAN

From Page 19 IDX Contributors:

Steve Bohac - Branchville, NJ
 Marc DeLorenzo - Warner Robins, GA
 Big George Hakiel - W. Islip, NY
 Andrew Rugg - Nuns Island, Quebec
 Brian Vermin - Elsa, Yukon Territory
 William Wyllie - Franklin, MA

R7, NRD515, 3' loop, Racal LF converter
 R392, LW, SM2
 Racal 6790, R71A, LW's, loops, phaser
 R390A, 120' LW
 FRG7000, R7A, 3 Beverages
 Realistic Modulaire 2200

STATION ADDRESS CHANGES

Jerry Starr, c/o WHOT Radio, 4040 Simon Road, Youngstown, OH 44512

550 KMVI HI WAILUHU	WAIHEHU TOWN CTR., 250 WAIHEHU BEACH RD.	96793	DP-HI
550 KENI AK ANCHORAGE		99512	DA-SW
570 KIPU HI LIHUE	2956 AUKOLE STREET or P.O. BOX 1748	96766	DP-HI
570 CFCB NF CORNER BROOK	P.O. BOX 570, CORNER BROOK, SA A2H 686		DX-FIN
590 KSSK HI HONOLULU	VICTORIA STATION BLDG.		
	1590 KAPI'OLANI BLVD.	96814	DP-HI
	1401 WEST 8th AVENUE	V6H 1C9	DA-SW
600 CJOR BC VANCOUVER		S7K 3W3	DA-SW
600 CFQC SK SASKATOON			DP-HI
620 KIPA HI HILO	688 KINO'OLE STREET	96720	
650 KORL HI LAHAINA	c/o KLHI-FM		
	LAHAINA SQUARE SHOPPING CENTER #9		
	840 WAINEE STREET, LAHAINA, HI	96761	DP-HI
670 KPUA HI HILO	1145 KILAUEA AVENUE	96720	DP-HI
690 KQMQ HI HONOLULU	WATUMULL BROS. BLDG., 765 AMANA ST.	96814	DP-HI
700 KBYR AK ANCHORAGE	1007 WEST 32nd AVENUE	99503	DA-SW
710 WHB MO KANSAS CITY	8500 WEST 63rd STREET, SUITE 210		
	SHAWNEE MISSION, KS	66202	DX-FIN
720 KUAI HI 'ELE'ELE	'ELE'ELE SHOPPING CENTER		
	1-3959 KAMU'ALI'I HWY		
	or P.O. BOX 720	96705	DP-HI
760 KGU HI HONOLULU	1201/1210 WAIKIKI TRADE CENTER		
	2255 KUHIU AVENUE	96815	DP-HI
790 KKON HI KEALAKEKUA	P.O. BOX 845	96750	DP-HI
830 KIKI HI HONOLULU	1700 DAVIES PACIFIC CTR., #41 BISHOP ST.	96813	DP-HI
840 KSDP AK SAND POINT	BOX 328		DA-SW
850 KHLO HI HILO	1650 KALANI'ANA'OLE AVENUE	96720	DP-HI
870 KAIM HI HONOLULU	3355 HARDING AVE. or P.O. BOX 375	96816	DP-HI
870 CFSX NF STEPHENVILLE	P.O. BOX 276	A2N 2X9	DX-FIN
900 KNUI HI KAHULUI	311 AND STREET	96732	DP-HI
920 CJCH NS HALIFAX	BOX 1653		DA-SW
940 KDED HI WAI'IAHU	94-1088 FARRINGTON HIGHWAY	96797	DP-HI
990 KHVH HI HONOLULU	660 PAU'AHU TOWER, BISHOP SQUARE		
	1001 BISHOP STREET	96813	DP-HI
1040 KLHT HI HONOLULU	681 SOUTH KING ST., SUITE 200	96813-3016	DP-HI
1060 KAHU HI HILO	WAI'AKEA VILLAS, 400 HUALANI ST.	96720	DP-HI
1110 KHEI HI KIHEI	KEALIA BEACH PLAZA, 2nd FLOOR		
	101 NORTH KIHEI ROAD	96753	DP-HI
1130 WDBG MN MINNEAPOLIS	BOX 4485, 611 FRONTENAC PLAZA		
	ST. PAUL, MN	55104	DX-FIN
1170 KQHD HI HONOLULU	KA'IMUKI BOWL BLDG., 1142 12th AVE.	96816-3712	DP-HI
1180 KKRK NE BELLEVUE	1001 FARNAM STREET, OMAHA, NE	68102	DX-FIN
1210 KZDD HI HONOLULU	OLD S.C.M. BLDG., 2d FLOOR, 250 WARD AVE.	96814	DP-HI
1210 KRVS WY AFTON	BOX 1210	83110	DX-FIN
1230 CFLN NF GOOSE BAY	P.O. BOX 4000, STATION 'C'		
	GOOSE BAY, LABRADOR, NF	A0P 1C0	DX-FIN
1230 CILW AB WAINWRIGHT	BOX 1476	T0B 4P0	DX-FIN
1270 KNDI HI HONOLULU	1734 SOUTH KING STREET	96826-2042	DP-HI
1270 CJCB NS SYDNEY	BOX 1270		DA-SW
1310 WIBA WI MADISON		53701	DX-FIN
1360 KLFF AZ GLENDALE	7401 WEST CAMELBACK RD., PHOENIX, AZ	85003	DX-FIN
1370 CFVD PA VILLE DAGALIS	60L 1H0		DA-SW
1380 KLNI HI PEARL CITY	GENTRY WAIPIO BLDG.		
	94-539 PAU'AHU STREET, WAI'IAHU, HI	96797-4208	DP-HI
1380 CQLC ON KINGSTON	also BOX 1380	K7L 4Y5	DX-FIN
1380 CFDA PU VICTORVILLE	BOX 490		DA-SW
1390 KSLM OR SALEM		97308	DX-FIN
1420 KCCN HI HONOLULU	400 PIONEER PLAZA, 900 FORT ST. MALL	96813-3797	DP-HI
1430 CJCL ON TORONTO	40 HOLLY STREET	M4S 3C3	DX-FIN
1460 KULA HI KAILUA	6314 PALI PALMS PLAZA, 970 N. KALAHED AVE.	96734	DP-HI
1470 KUTY CA PALMDALE	38201 6th STREET EAST	93550	DX-FIN
1490 KRNR OR ROSEBURG	BOX 910	97470	DX-FIN
1500 KUMU HI HONOLULU	HILTON HAWAIIAN VILLAGE ARCADE		
	2005 KALIA ROAD	96815	DP-HI
1540 KISA HI HONOLULU	204 CENPAC BLDG., 904 KOHOU ST.	96817	DP-HI
1580 KDDM MN WINDOM	BOX 218	56101	DX-FIN
1590 KOGO CA VENTURA	BOX 5600	93003	DX-FIN
1590 WJBU ME GORHAM	BOX 929, LEWISTON, ME	04240 or	
	99 LARRABEE ROAD, WESTBROOK, ME	04092	DX-FIN
1600 KBBX UT CENTERVILLE	BOX 388, SALT LAKE CITY, UT	84110 or	
	481 SOUTH ORCHARD DR., BOUNTIFUL, UT	84010	DX-FIN

** CONTRIBUTORS ** DP-HI ... DALE PARK, HONOLULU, HI DP-HI ... DALE PARK, HONOLULU, HI
 DX-FIN .. D exclusive Magazine, FINLAND via ULLE ALM
 DA-SW ... ULLE ALM, HARNOSAND, SWEDEN

④ DOMESTIC DX DIGEST - EAST

William Hale
2610 Farm To Market Road, Johnson City, NY 13790

Medium Wave ramblings

■ A note from **Wendell Ford** of **Westville, IN** for **DL-HL** in V56-III in Nancy's column your 1560 UNID w/possible **Ray Briem** might be AKA **Richard Wood's** **WTAL-FL**. He has received it before and they do have **ABC Talkradio**. Then again, **KQX-HO** also runs the format. I don't know if they would be on yet, though, these are the only 1560's I show w/ABC Talkradio.

■ A couple of local notes from the Binghamton Area Radio Market...**WNBF-1290** joined NBC as of 1/1 swapping with **WINR-680**, now CBS. **WEBO-1300** is also NBC, whilst **WRSG-1360** remains United Stns Net & **WENE** is ABC/I. **WINR**, **WRSG** & **WENE** are all 24 hr-NSP. **WNBF** now carries the **Steve Allen** talk show from 1400-1700 M-F, doing away with their DJ/chat programming during that time. **WINR** off for an extended period on 12/20, allowing **Steve Goozovet** to beg some otherwise next-to-impossible catches. And I was watching football and Christmas Specials!!

■ Notice something missing??? If you sent in DX and think it should be here by now, but it hasn't appeared yet, check one or more of the following:

- Mailed it to the old address in Texas, getting here too late to meet the deadline (Yup, I'm still getting forwarded Texas mail)
- Mailed it to old apartment address, getting here too late to meet deadline (Yup, some is still going there, too)
- Waited (in some cases 7 months) until the DX looks like aged beef to send in
- Make every logging into a **Stephen King**-sized novel. Cmon folks, just the facts
- Belongs in another column, such as **IDXD** (Remember, this column is for Domestic DX)

□ Report in other-than-Eastern Listening Time (This is LAST time I convert for free)

Seriously, this gets to be "no fun" sometimes when I have to wade through some of the stuff. How 'bout making a New Year's resolution to send in more DX, but make it: Current, Clean, Concise. Thanks!

SPECIAL

- 540 **WCBS** PA CANNONBURG - 12/21 off @ 2100, back @ 0136; ment technical adjustments to increase night pwr to 500 watts; **CJSB** now weaker underneath (JM-PA)
- 580 **WKTY** WI LA CROSSE - 12/21 0142 noted w/wx, then into **NBC Talknet** (add this to your log); stn unkn but not often hrd in **WCBS/WTCM/WIBW** fight (WPF-IN)
- 590 **CKEY** ON TORONTO - per annct b'cast here on 12/17, a public hearing will be held in Toronto on 2/1 to discuss **CKEY's** application to swap frequencies w/**CKO-2 99.1** (MS-ON)
- 670 **WYLS** AL YORK - 12/18 1854-1700 fair w/light AC mx; now here, ex:1350 (MD-GA)
- 880 **WINR** NY BINGHAMTON - 12/20 1415 making nasty static noise in pulses...couldn't check again until 1630 when it was gone! What a Christmas present!! (SG-NY)
- 820 **WIQT** NY HORSEHEADS - began operation on 820 1/6; now 24 hrs-a-day (WRH-NY)
- 830 **WADU** LA NORCO - 12/27 1748 f/in > **KBOA** s/off @ 1745; new stn w/OLD; ID @ 1800 **WADU** *Gold Rush R. in Norco*; pattern change @ 1800; per tip from **Artie Bigley** who confirmed they were on per telecon (JB-TX)
- 960 **WJBY** AL GADSDEN - 11/27 1917-22 fair in **WPAT** null w/recorded REL, ID @ :20+GOS mx; IDs as *Your Stn for Inspiration*; a format change (KG-PA)
- 1000 **WLUP** IL CHICAGO - noted w/DC > Sun night GOS show (leftover from **WCFL** days?); off @ 0122 but nothing audible in noise; studio QTH is **John Hancock Tower**, XR is near **Downers Grove, IL** (DP-IL)
- WYBT FL BLOUNTS TOWN - 12/24 1822 w/C&W stars giving Holiday greetings, then C&W mx; format change?; 1st-timer o/WLUP (WPF-IN2)
- 1110 **KFAB** NE OMAHA - 12/21 0312 format change? w/BFL Mx, no C&W mx; sounded automated, same exact songs as I twirl on 5 decks, 7 days a week; wonder if tapes are from **RPM** in **Southfield, MI**? (WPF-IN)
- 1200 **WOAI** TX SAN ANTONIO - stn has silent period between 0200 & 0500 for about an hour each Monday (JB-TX)
- 1320 **CJSO** PQ SOREL - stn has been SILENT since 12/14 or before; freq now dominated by **CFGM** (RUGG)
- 1340 **WSOY** IL DECATUR - 12/24 1418 w/C&W/MOR mx; poss format change here from **EZL**; 1st-timer in **WIBW** null (WPF-IN2)
- 1380 **KBOP** TX PLEASANTON - now fulltime; in SS→2000, then in EE (poss simul w/FMer) to 0100 s/off; **PSSA** in effect (JB-TX)

DX & EQUIPMENT TESTS

- 560 **WIND** IL CHICAGO - 12/7 0115 noted for 1st time on ET w/continuous tone; still ETing @ 0205 recheck; 2 unIDs under (DP-IL)
- 1160 **WJJD** IL CHICAGO - 12/14 0320 noted w/DC & various pitches of tones, none of the hoped-for PA stns noted; only **KSL/WAMB** (WPF-IN)
- WYNS PA LEHIGHTON - 12/28 0207 good→strong @ times w/ET; said they were 1000 watts @ nite; played **ROK OLD**; high & low tones from 0215→0228 which camethru better than the voice did (WW-MA)
- 1560 **CBJ** PQ RIMOUSKI - 12/18 0338 noted w/TT/OC instead of **CLA** mx/**WVOK** in their null as usual (WPF-IN)

UNIDs & UNIDs ID'd

- 690 UNID ?? - 12/20 before 2000 w/EE REL content, apparently a church service; ⑤ bearing south, I believe; no ID caught @ 2000 as **WINR** was back (SG-NY)
- 760 UNID ?? - 12/21 0417 somebody running w/"Best of LK", looped E/W, perhaps a test using an FM sister simul as audio?? **ABC-I** Nx @ :00; **KOAL?** (WPF-IN)
- 800 UNID ?? - 12/20 1839 somebody w/**Cardinals/Bucs** NFL FB; fair→poor w/**CKLW**; **KREI?** (JFH-OK)
- 810 UNID ?? - 12/15 2015 w/C&W mx (speaking FF, mx in EE); good (EH-NY)
- 820 UNID ?? - 12/28 1628 fair→poor w/C&W mx, ad for **Personal Protection Concepts** @ 251-0681, stox mkt rpt; faded out @ 1858 (JFH-OK)
- 970 UNID ?? - 12/1 2243 w/**Minnesota North Stars** vs **Toronto HKY**, about .867 sec behind **flagship KSTP**; **WDAY** or **KGHR?** v/poor, drifting in/out; co-channel **QRM** + het (DP-IL)
- 1170 UNID ?? - 11/27 0622 **Carpet World** ad; sign 11-70 **Country, KZ0Y**; C&W tunes incl **My Lover Can't Be Found & Lord I Hope This Day Is Good** by **Don Williams** then faded→mess; **KAPE?**; poor, briefly stop co-channel mess (DP-MO)
- 1310 UNID ?? - 12/28 1734 in FF, looped basically E/W; **CHGB?**; would be a 1st-timer; no **CIWW** or **WIBA** (WPF-IN1)
- 1320 UNID ?? - 12/7 1935 EST TC, lcl wx (hi was 49), outro listen to the Music of Your Life on 1320, WJ?→BBD mx;**WKAP-PA?** poor→v/poor, o/u **CFGM/others** (DP-IL) (**WJAS-PA's** nite pattern favors you better than **WKAP-WRH**)

OVER THE TOP AND UNDERNEATH CLUB

- 1610 **KID702** VA APPOMATTOX COURT HOUSE - 12/10 0530-50 fairly strong w/tape loop description of the park located on VA Hwy 24, approx 2 mi. NE of the Town of Appomattox; **QRM** from **Jamestown & Harpers Ferry TISes**; pwr 10 watts, per verie (KG-PA)
- UNID TX HOUSTON or AUSTIN - 12/23 0300-0400 w/SA Int AP TIS off; bits & pieces of audio (about 5% readable) w/long-range wx forecasts for various cities & flight info for Southwest & other Airlines; looping East; probably **Houston's Hobby** or **Intercontinental** (AB-TX)

HARMONIC HAVEN

- 1680 **WFIL** PA PHILADELPHIA - 12/28 2017-2100 hrd 3rd harmonic, quite strong w/static crashes & RTTY or beacon **QRM**; **OLD ROK** & quite listenable; nothing on 1120 & 560 is hard to hear here due to **WHYN** 15 air miles away; **DS** sez new directional system recently installed & he was going to contact **Bob Janney**, Eng about my reception; address in log is wrong; watch **AMS** for correct one (RM-CT)

MIDNIGHT TO MIDDAY

- 530 **CJFT** ON FT ERIE - 12/18 0008-0013 fair w/sps & **ROK** tune; again on 12/19 0158-0204 fair w/ballad & mx; IDs for **CJRN** & **CJFT** (MD-GA)
- CJFT** ON FT ERIE - 12/25 0107 w/Holiday carols; 1st time here; good for distance fighting T'Storm static, but no beacon (WPF-IN2)
- 580 **KWTO** MO SPRINGFIELD - 12/10 0109 good w/C&W mx; 0121 **KWTO**, it's 41 degrees in Springfield; Freq, IDs 'til 0145 (JB-TX)
- 570 **WWNC** NC ASHVILLE - 12/27 0204 wx→annct *Your Country Stn WWNC* (CC2-PA)
- WSYR** NY SYRACUSE - 12/27 0206 ads+Talknet (CC2-PA)
- WSYR** NY SYRACUSE - 12/7 0028 w/wx rpt for Central NY (WPT-DC)
- WKYX** KY PADUCAH - 12/9 0320 **Talkradio's Ray Briem** w/guest **Jack Jones** #WSB (the beat), **WISN**, **KSTP**; waited until 0337 to get clear(?) ID **Your Direct Connection**, **WKYX**, 'Ducak; KY #4; poor→v/poor, hvy co-channel **QRM**, **WIND** slop (DP-IL)
- WAAX** AL GADSDEN - 12/7 0212 C&W mx; female saying this was the **MCRN** w/TC 13 past the hour folod by more C&W mx; soft-talking man w/sps; lcl ad for treasure hunt, promo for **Big Wax R.**; **PSA**, sign **Big Wax R. in \$** back to **MCRN/WSM**; **AL#3** (DP-IL)
- 610 **CHNCT** PQ NEW CARLISLE - 12/7 0013tent w/talk in FF; fair o/u/WIP (WPT-DC)
- 630 **WLAP** KY LEXINGTON - 12/27 0159 wx promo→You're listening to **Talknet** on **AM-63** **WLAP**, Lexington→**CBS** Nx (CC-PA)
- KXOK** MO ST LOUIS - 12/21 0314 **KSLR** nulled; good; AC; **KXOK** IDs @ 0319 & 0340 (JB-TX)
- CFOO** ON CHATHAM - 11/29 0058 **ROK** mx folod **Newsradio** Nx, lcl wx→**Chicago** mx on **AM 63**, **CFCO**; new; fair; **KXOK/WLAP** underneath (DP-IL)
- 640 **KTIB** LA THIBODAUX - 12/6 0758 good w/promos for **LA** tourism & **Country Countdown** syndicated **pgm**; **AP** Nx (KVJ-GA)
- 680 **WVOK** AL BIRMINGHAM - 11/30 0719 quick **WVOK**, TC 6:19, brief wx; **Rowbuck Chrystler-Plymouth & American** Mobile Phone ads; **pgm** preview, sign **All You Need To Know**, 4 AM, **Monday Morning** on **AM 690** **WVOK** **Dan Seals** tune, **CBS** **Firstline** Rpt; **AL** #1 on **SRS**; v/poor w/co-channel/lcl **QRM** w/**vestiges** of **CBF** (DP-IL)
- 810 **WDDDT** IL JOHNSON CITY-MARION - 11/27 1007 tent w/**AT&T**, **Groves Carpets**, **Jim Pearle Autos** ads; female w/wx; ad for **Ike Nissan** on Rte 13 east of **Carondale**; sign **The Mountain**; lotsa **OLD** w/sign **The Million-Dollar Sound of AM-81** & **tlk**; more **OLD**, another sign **The Good Times & The Good Songs Are Here on \$ 81**; never hrd ID; poor in **KCMO** null w/lcl **QRM** (DP-MO)
- KCMO?** MO KANSAS CITY - 11/27 1030 stn noted in passing while chasing **WDDD**; w/ad for **Westport Shopping Ctr** in **KC**, **Pontiac** & **Sears** ads; poor in null of **AM 811** (DP-MO)
- 850 **KOA** CO DENVER - 12/28 0150 strong @ times behind lcl **WHDH** w/tlk show (maybe **Restaurant Show**; noted IDs whenever they answered telephone calls (WW-MA)
- 910 **KGLC** OK MIAMI - 12/25 0144 w/C&W Holiday mx & **New Years** resolution #910 is to always keep your radio dial tuned to **AM 910 KGLC** Miami (pro:My-am'-uh)(WPF-IN2)

970 WDAY ND FARGO - 12/15 0053 fair w/Talknet; announcer winner for 2 dinners by Folgers Coffee; ad for Charles Schwab brokerage; lgl ID @ 0100 (JB-TX)

1000 KHAM AR HORSESHOE BEND - 12/18 0700 w/s/on; XR located 2 mi east of Horseshoe Bend studios @ ? St; 0 & 0 by WMM Broadcast Co, a wholly-owned subsidiary of ?? (JB-TX)

1010 CFRB ON TORONTO - 12/7 0119 somewhat in the clear w/ WLUP off; taping this for rpt; usual AC mx & nx sponsored by Nob Hill Farms; fair→v/poor; o/u/WINS & maybe KLRA (DP-IL)

1050 WFAN NY NYC - 12/17 0555 tire store ad, promo for Sports Radio 1050; several IDs hrd (CS-NY)

1060 WMCL IL MC LEANSBORO - 11/28 1045 promo for contest from your friends @ the entertainer, 1060, WMCL folo by Anne Murray tune, DJ w/nx teaser & ID; C&W song; WMCL NxtWatch @ 1050 spon by WG Motors in Mt Vernon; new, poor w/mod QRM (DP-MO)

1070 KNX CA LOS ANGELES - 12/28 0112 w/nx (of course) about LA Holiday trfx accidents (or 10-50s as police call them) thru WIBC/WISO & KHMO?; 1st time in o/5yrs!; CHOK seemed to be off the air (WPF-IN2)

1080 WRYT IL EDWARDSVILLE-COLLINSVILLE - 11/28 1140 noted running lcl sps-tlk show, ID @ 1159 WRYT Edwardsville-Collinsville→SMN's SMN; lcl nx/sps @ 1202; Reagen Radio (?-WRH); →SMN Stardust BBD format; requesting applications for its Stn Advisory Board (DP-MO)

1120 WKQW PA OIL CITY - 12/10 0700 good @ s/on in clear; out @ 0715 WUST s/on; nx, wx, mx, ads, IDs 11KQW (HH-MD)

WDUF VA DUFFIELD - 12/20 0735 hrd an ID during pause in KMOX's pgm, no other info; lucky catch (KVJ-GA)

1140 KSOO SD SIOUX FALLS - 12/25 0207 w/lcl nx, wx, Holiday greetings from KSOO, when you need to know, closing w/ABC Nx theme; o/WRVA; rare here @ home; 1st-timer (WPF-IN2)

1150 CJRC ON OTTAWA - 12/25 0243 FF, 11CJMS-1280; 1st-timer here & alone (WPF-IN2)

1160 KSL UT SALT LAKE CITY - 12/28 0230 while listening to WYNS, noted another, fair & strong @ times; 0230 This is 1160, KSL folo by lcl nx (also @ 0255), net nx @ :00; NOT HRD IN YRS!!! took me by surprise (WW-MA)

1190 KLIF TX DALLAS - 12/21 0405 female w/Now KLIF Telemeteor; during WOAI SP (JB-TX) WQWO IN FT WAYNE - 11/27 0915 ads for Highland Superstore & Eootrin; DJ It's 9:16 here @ wo-wo; brief wx, entertainment rpt; surprise logging as KHAD is usually here; new from MO; fair→poor w/KHAD under, sometimes mixing (DP-MO)

1200 WKIT ME BREWER - 12/28 0606-13 w/POP mx, wx & lcl ad cluster, IDs; ex:WGUY (RUGG)

1230 KLKE TX DEL RIO - 12/14 0615 KLKE, Del Rio's Oldest R. Stn; Bing Crosby/Andrews Sisters tune; announcer It's now 16 mins past 6 O'Clock→Rio Grande Wx (JB-TX)

1280 WSGV PA BERWICK - 12/2 0710-0815 good w/Solid Gold prgmg of ROK OLD, clustered ads, & CNN Nx @ :00; IDs as Susquehanna Valley's Golden Authority; ex:WBRX (KG-PA)

CJMS PQ MONTREAL - 12/25 0122 w/FF comedy pgm; 1st-timer here, alone, no WGBF (WPF-IN2)

1340 WMID NJ ATLANTIC CITY - 12/28 0006 NBC Nx→Alcoholics Anonymous PSA, then This is AM 1340, WMID, Atlantic City→Talknet (CC2-PA)

1400 WEST PA EASTON - 12/17 0730 w/nx, wx 4cast, 2 IDs @ 0735→mx (CS-NY)

WBAT IN MARION - 11/28 0309 live ad for holiday event north of I-465 from all your friends @ WBAT; ad for Hometown Furn on S. Washington in Marion; PSA, ad; back into slop, replaced by LK stn; poor w/co-channel ripply QRM; new, not yet hrd in Evanston (DP-MO)

1480 WXXV FL DELAND - 12/19 surprise @ 0651 while listening to WSEB; w/OLD & wx (KVJ-GA)

WTRF FL BRADENTON - 12/18 0713 w/OLD & Radio 1490 slogan (KVJ-GA)

1540 CHIN ON TORONTO - 12/27 0146 SID→UC mx; o/u/KXEL (CC2-PA)

1550 WCTW IN NEW CASTLE - 11/28 0338 tent w/ROK, promo for WCCW Wx, TC & sign & Humane Society PSA; DJ Classic Hits WCCW, 42 degrees, OLD, SID, OLD; poor w/C&W/ unIDs underneath (DP-MO)

1570 WFRL IL FREEPORT - 11/26 0328 LK ment of Chicago's mayor death; sign You're listening to Freeport's new 24-hour-a-day stn, Light 1570 WFRL Freeport; PSAs, sign repeated & back to LK; # w/2 stns on 1590 except for PSAs; poor, o/u/XERF/ unID GOS stn; new (DP-MO)

1600 WWRL NY NYC - 12/27 0100 end of meas-ID & GOS mx; o/KATZ (CC2-PA)

MIDDAY TO MIDNIGHT

530 CJFT ON FT ERIE - 12/20 2225 old ROK mx; good (EH-NY)

540 CJSB ON OTTAWA - 12/16 2300 ID 54-Light, mx; L&C (EH-NY)

550 WAYR FL ORANGE PARK - 12/14 1710 Your Channel of Blessing Christmas mx→taped REL pgm (KVJ-GA)

CFNB NB FREDERICTON - 12/21 2115 only noted ID & C&W mx o/lcl WICE; strong for awhile (WW-MA)

570 KLDD TX DALLAS - 12/18 2328-28 v/good o/u/WWNC w/OLD & K-Oldie slogans (MD-GA)

580 WHP PA HARRISBURG - 12/18 1830 w/nx & wx (EH-NY)

810 CHNC PQ NEW CARLISLE - 12/19 2250 in FF w/ID; good o/WIP (WW-MA)

620 WVMT VT BURLINGTON - 12/21 2120 good for a few minutes; faded in w/...degrees @ 62 WVMT (WW-MA)

630 WMAL DC WASHINGTON - 12/25 2234 ad for jewelry store in Chevy Chase, MD (CC2-PA)

640 WHOF FL HOFFMAN - 12/14 1700 weak & brief w/Cuban QRM; AM \$ 64 & in the heart of FL ments; sounded like BFL mx-type format (KVJ-GA)

WJTZ TN BLOUNTSVILLE - 12/18 1701-15 good, w/Magic Memories, prgmg ROK OLD; ads, & 64-JT2 & The Tri-Cities' preferred spot on the dial slogans; lost @ pwr/pattern change (KG-PA)

WFNC NC FAYETTEVILLE - 12/27 1812 Dodge dir ad→You're listening to AM 64 WFNC→OLD (CC2-PA)

680 WMIC MI SANDUSKY - 12/17 1500-1700 (off and on) came in like a local; 1700 s/off; report sent; per tip from NRCer Harley Stewart (FW-PA)

KTNN AZ WINDOW ROCK - 12/28 1857 good w/C&W, IDs, EE announcer; barely audible > pattern change @ 1900 (JFH-OK)

680 WRKO MA BOSTON - 12/20 1830 w/some kind of lcl call-in show, since man answered phone w/HRKO... (SG-NY)

WPTF NC RALEIGH - 12/20 1847 Christmas message from stn & a sps talk show; good (SG-NY)

CFTR ON TORONTO - 12/20 1915 jx id, ROK mx; fair, but generally u/WPTF (SG-NY)

690 WVOK AL BIRMINGHAM - 12/3 1730 v/strong w/end of nx; ID Serving the heart of Dixie for 50 years, this is WVOK, Birmingham→wx 4cast (CS-NY)

700 KFAM UT NORTH SLC - 12/25 2212 tik show, fair @ times u/WLW; phone # to call had an 801 (Utah) area code; log sec EZL though (CC2-PA)

720 WIIA PA SHIREMANSTOWN - 11/28 1319 fairly good w/popular mx, ads, nx/wx, etc (HH-MD1)

CHTN TN CHARLOTTESTOWN - 12/15 1659-1711 fair w/wx, sps, lcl ads, AST TCs, ment of CHTN Island Newsbeat & CHTN-In touch w/Islanders; Olympic athlete profile, RCMP anti-drunk driving PSA→song Lady in Red (MS-ON)

740 CBC ON TORONTO - 12/16 2000 female announcer, then nx; faded @ 2002 to SS stn (EH-NY)

750 WSB GA ATLANTA - 12/16 1800 trfx rpt on I-85, wx rpt, Christmas mx (EH-NY)

WNDZ IN PORTAGE - 12/24 1235 good w/REL pgm; a local @ home, but real DX here; WRIK noted underneath (WPF-IN2)

760 KMTL AR SHERWOOD - 12/3 1739-59 good o/WJR w/GOS bluegrass→s/off (MD-GA)

780 WLRM MS RIDGELAND - 12/10 1752-59 fair, alone w/AC, jx, lcl nx; only IDs were for WEGZ FM, then abrupt s/off @ 1759 w/no announcer (MD-GA)

WHCH NC FOREST CITY - 12/23 1715-16 w/2 lcl ads, ID for 93.3 WBBO-FM→CHR mx; disappeared @ PSSA pwr drop; good in WBBM null, >WCKB's s/off (KG-PA)

790 WTSK AL TUSCALOOSA - 12/18 1738-48 v/good w/lcl ads & promo for WTSK Music Box (guess how many coins in box)→Christmas REL mx, fade to WNW5; new (JM-PA)

CKSO ON SUDBURY - 12/15 1948 w/wx, & party canx; good (EH-NY)

800 CJAD PQ MONTREAL - 12/15 1955 w/call-in show (re:finance & taxes) (EH-NY)

CKLW ON WINDSOR - 12/17 2145 w/Christian mx (Netherlands low under) (EH-NY)

810 WDDD IL JOHNSTON CITY - 12/16 1840 fair w/ads for businesses in Carterville & on I-57; W-3D IDs, OLD mx (JFH-OK)

820 WBAP TX FT WORTH - 12/18 2250 w/BKB game, ad for Sears heaters; good @ times; fading & mixing (EH-NY)

WRFA FL LARGO - 12/16 1704-33+ good→strong w/C&W mx & Orlando/Tampa ments (forgot to reduce pwr?); in WJCE null o/CHAM; nice to see snow outside & pick up FL on the radio...who needs a vacation?; 1st timer (WPF-IN)

830 WCCO MN MINNEAPOLIS - 12/15 2020 w/BKB scores; host talking to man named John about sports; good (EH-NY)

840 WHAS KY LOUISVILLE - 12/15 2055 sps rpt, then nx; good (EH-NY)

KWDF LA BALL - 12/28 1749 GOS mx, ad for A-Plus Insurance of LA; KWDF, your quality gospel mx stn; s/off @ 1815, mentg serving Alexandria, Pineville, & Ball; new; LA #41 (JFH-OK)

WDHY AL MOBILE - 12/28 1800 fair w/KWDF, WHAS nulled; s/off o/o by 1701 Media, Inc, 501 C St...non-profit organization; ex:WWAX (JFH-OK)

850 WAET FL W PALM BEACH - 12/15 2245 Peaceful sounds of WEAT; ad for Flowerest in Palm Beach (EH-NY)

WHDH MA BOSTON - 12/15 2305 w/nx & sps rpt; good (EH-NY)

870 WQRX AL VALLEY HEAD-FT PAYNE - 12/6 1721 w/Supremes tune, ID sounding like WGRX Far-Ex-87; satellite DJ & ads, more OLD; then Alabama's My Home's In AL as s/off theme mx; ann as WQRX Valley ?-Ft Payne, AL, left OC on; v/poor; WWL rippling in back w/buzzy QRM; v/ripply signal; AL #2 on SSS (DP-IL)

WWL LA NEW ORLEANS - 12/15 2255 w/REL pgm & CLS (EH-NY)

880 KRNV NE LEXINGTON - 12/2 1751-1800 good, atop frequency w/C&W (MD-GA)

KIKR TX CONROE - 12/16 1829 w/Dolly Parton mx & CLS; more C&W mx; 1st timer and bit of a shock! in severe WLS splash, but no WCB5/KRNV (WPF-IN)

910 CKLYt ON LINDSAY - 12/3 2338 Maple Leafs at Calgary HKY, finally an ad @ 2338 (for ID purposes), team contest (Leafs score, you win gift certificate), back to pbb; fair, then v/poor o/u/co-channel QRM (DP-IL)

CKLY ON LINDSAY - 12/18 2245 w/Maple Leafs/Capitals HKY game; L&C (EH-NY)

CKLY ON LINDSAY - 12/17 2100 w/ID; poor, battling WROG/CHRL (WW-MA)

CHRL PQ ROBERVAL - 12/17 2110 noted ID only in mess of stations; poor (WW-MA)

920 CKCYt ON SOO STE MARIE - 12/3 2232 apparent Jr HKY league wrap-up w/may references to opponents, the Ottawa 67s→ad for store; the 67s are in the ON HKY League, only stn on 920 in an OHL city is CKCY (SSM Greyhounds); any ideas?; poor, o/u/QRM (DP-IL)

CKNX ON WINGHAM - 12/23 1629 C&W tune folo by AM 9-20 CKNX→nx @ :30; xint, no sign of WMMN (CC1-PA)

800 WYNI AL MONROEVILLE - 12/11 1800 w/ads for People's Exchange Bank & Tasco Auto Parts→lcl nx; fair; 1st time since switch from 1510 (KVJ-GA)

WAMX WV HUNTINGTON - 11/27 1800-1968 good in WPAT null w/mix of CHR & ROK OLD, clustered ads & Accu-Wx; IDs as W-Mix, the new 93.7; w/AM ID @ :00 (KG-PA)

KWOC MO FOPLAR BLUFF - 12/27 2118 C&W→annct for KWOC WxCenter for latest info on school closings, listen to KWOC; poor w/Cuban/WBEN? (CC?-PA)

940 KVSHE NE VALENTINE - 11/28 1810 tent w/PSA & CL K8?SC & wx for north central NE/central SD; disappeared w/KIOA; v/poor on SSS (DP-MO)

CBM PQ MONTREAL - 12/19 2030 w/Christmas mx (Bobby Helms' Jingle Bell Rock (If we abbreviate, does that become Jx Bell ROK?-WRH) (EH-NY)

950 WROL MA BOSTON - 12/19 1600 fair w/nx from SNN, ID→pgm Irish Hit Parade; CKBB nulled (MS-ON)

WWJ MI DETROIT - 12/23 2119 sps scores→lcl nx; o/WQBE (CC1-PA)

WGTA GA SUMMERVILLE - 12/23 1719 w/annct & wx mentg S-ville & Rome (GA); 1s-timer here (WPF-IN1)

980 CHNS NS HALIFAX - 12/19 1700 fair w/CHNS Nx @ 6, nx about police strike in St John, NB; new province for me @ this QTH; CFTJ nulled (MS-ON)

CFFX ON KINGSTON - 12/15 1818-1903 way o/all on overrun w/day pattern; prgmmg POP mx of the 60's, clustered ads, wx; IDs as The new 96.0 - C-Fox; ex:CKWS (KG-PA)

970 WAVG KY LOUISVILLE - 11/27 2329 w/ID, Talknet's Neil Myers w/WAVG is the talk of the town because WAVG is the home of Talknet; back to NM on Talknet; fair, on top of mess (DP-MO)

WJMX SC FLORENCE - 12/3 1710 nx by female w/ment of Sen Thurmond; good u/w/WARC splash (WPT-DC)

WAVG KY LOUISVILLE - 12/23 1820 w/ROK, IDs The Home Team; fair, briefly, o/XEJ/KCFO (JFH-OK)

990 KXLA LA RAYVILLE - 12/15 1836 weak w/C&W mx, annct ? is joining us here @ KXLA (JB-TX)

1000 KKIM NM ALBUQUERQUE - 12/23 1843 w/Dallas REL Pgm; then promo for listeners to ment KKIM @ Howard Johnson's and get Christmas Special... 2 persons \$49.50 w/break-fast... 296-3652 for reservations (JB-TX)

1020 WRIX SC ANDERSON - 12/6 1654 good atop frequency w/HS FB score, ads, GOS mx; lost & may have signed off @ 1715 (HH-MD1)

1030 KKJC MD BLUE SPRINGS - 12/15 1815 w/KKJC wx rpt, severe winter wx conditions (JB-TX)

1040 WHO IA DES MOINES - 12/19 2350 w/BKBgame, ad for Valley West Mall & Eveready Batteries; fair (EH-NY)

1060 CJRP PQ QUEBEC - 12/24 1440 @ window-rattling strength w/Ameteur Nite-type of pgm w/singers in FF and, of course, La Pèrre Noel (SG-NY)

1070 CHOK ON SARNIA - 12/18 2320 w/ad for coats, fade out, back w/Christmas mx (EH-NY)

WAFI AL BIRMINGHAM - 12/8 1744 drugstore & optician ads; good (WPT-DC1)

1080 WTIC CT HARTFORD - 12/8 1705-10 fair o/WCII w/lcl nx; only #2 from New England here (MD-GA)

1120 WYNO OH NELSONVILLE - 11/29 1707 good atop frequency w/PSA, C&W mx, s/off (HH-MD)

KHOX MO ST LOUIS - 12/18 2255 ad by Ozzie Smith for Chevy dir→CBS Nx; L&C (EH-NY)

1130 WCXI MI DETROIT - 11/30 1832 w/C&W mx & DJ sign AM 1130 WCXI & wx teaser; more C&W; new; poor w/WNEW underneath, het noise (DP-IL)

1140 WSPC VA ST PAUL - 12/24 1714 strong in WRVA null w/Christmas wishes & full-data s/off; main studio & XR QTH is Castlewood, VA; IDs as St Paul-Castlewood; power is 2500 watts (KG-PA)

1180 KSL UT SLC - 11/27 2325 postgame show for BYU BKB vs Montana SU; BYU ad, Charlie van Dyke w/sign 11-60 KSL back to wrap-up; poor w/o/rippy WJJD w/unID in back (Cuba?); new from MO (DP-MO)

1200 KYOO MO BOLIVAR - 12/18 1800 fair, atop w/C&W (MD-GA)

1230 WGDY ME CALAIS - 12/27 2105-59 ending ABC-I Nx, folio by REL pgm to 2158; s/off annct @ 2159 mentg Voice of the St Croix Valley; strongest signal on freq, in/out (RUGG)

1280 KWHK KS HUTCHINSON - 12/21 (no time) up briefly u/KTTS w/ad, ID (JFH-OK)

1270 WACA IN GARY - 12/23 1738 blk female w/speech about hypocrits→annct You've been listening to ??? on WACA; fair→poor w/rippling fades; faded to WCBC (CC1-PA)

1280 CJMS PQ MONTREAL - 12/8 1720 FF tik by male & female; xint (WPT-DC1)

CJMS PQ MONTREAL - 12/6 1728 good @ times, believed to be stn here in FF w/many Montreal ments, POP mx w/FF & EE vocals (HH-MD)

1290 WFIG SC SUMTER - 12/14 1733 good, briefly atop frequency o/Jumble w/sps, wx, C&W mx (HH-MD)

CJKB ON LONDON - 12/23 2157 poor w/lcl nx→ads & annct London's ??? 1290 CJKB (CC1-PA)

1310 CIWW ON OTTAWA - 12/7 1757 w/Harry Chapin OLD, DJ w/W-1310 ID & it's 6 o'Clock then Erin McElvie w/W-1310 Nx using Newsradio actualities; TC, diamond ad, W-1310 Sps, ad for lingerie store, wx, more; fair→poor in WIBA null (DP-IL)

CIWW ON OTTAWA - 12/6 1730 w/lcl HKY score, W-1310 wx, album mx; good briefly o/semi-lcl WDCT (HH-MD)

WOYK PA YORK - 12/18 1844 fair o/CKAR w/wx & ID→unfamiliar MOR-type song (MS-ON)

WVVA VA NORTON - 12/2 1853-1700 o/all w/ID as Wise Cnty's Most Powerful Radio Stn & annct QTH as Norton-Wise-Coburn→MYL-type mx (KG-PA)

1360 KRYS TX CORPUS CHRISTI - 12/25 1756 good w/C&W mx (not CHR as in log); signs: Mx from your best country stn KRYS @ 1803, K-99 @ 1816 & Corpus Christi you're best country K-99 @ 1828; format change (JB-TX)

1370 KDTHT IA DUBUQUE - 12/6 2334 Chicago Bears FB @ Minnesota via Tribune Netl/WHO, but behind in sync of WGN; only stn on 1370 in IRCA's SportCentre listing; v/poor u/semi-lcl WLTH/unID UC stn (DP-IL)

1380 WWSA AL VERNON - 12/10 1734-37 strong o/mess w/ad for auto parts store w/locations in Vernon, Sullehn (?-WRH), & Detroit (not MI, hi), no ID southern accented DJ w/Elvis tune; new; strong opening to AL today (JM-PA)

WRBQ FL ST PETERSBURG - 12/18 1755 strong w/Q-105 slogans, CHR mx, Children's Hospital donations & live Ray Perkins (Buca coach) Show (JM-PA)

WYNK LA BATON ROUGE - 12/17 1750-52 way atop w/C&W, trfx rpt, Wink 101.5 slogans (MD-GA)

1390 WTNL GA REIDSVILLE - 12/12 1415 fair u/WISK w/OLD; hrd in car in Dublin, GA; had been unreported in DXN since pre-'74, attn: DKK (MD-GA)

WLAN PA LANCASTER - 12/18 1633 fair w/lcl nx by female, pgm anncts, lcl sps (MS-ON)

WMER MS MERIDIAN - 12/21 1847 fair w/Focus on thefamily, ad for The Bible Book Store @ 23rd & 9th Sts; QRM from KCRC & the Mexican; new, MS #28 (JFH-OK)

1400 WFSB GA QUITMAN - 12/19 1849-1917 good @ times w/lcl ads for Bank of Quitman & Hal's Farm Supply, promo for syndicated Country Calendar pgm (KVJ-GA)

WRAC PA WILLIAMSPORT - 12/21 1700 ID @ :00, lcl nx; fair; ne where (SG-NY)

WEST PA EASTON - 12/21 1710 w/WRAC & semi-regular WJTC; WEST Nxttime coming up on 5:10 (SG-NY)

1420 CJMT PQ CHICOUTIMI - 12/7 1717 FF tik; fair→good (WPT-DC)

1430 WFHK AL PELL CITY - 12/10 1742 good w/lcl ad w/Childersburg location, then gone (JM-PA)

WEMG TN KNOXVILLE - 12/18 1807-48 mostly in the clear w/GOS singing & frequent IDs as Christian R. in Knoxville w/5000 w of pur; also hrd 12/18 @ 0559 w/full-data s/on (KG-PA)

1440 WHHY NM MONTGOMERY - 12/10 1757-58 fair→good w/ad, full wording of lcl nx, radar wx & Afternoon Trfx w/Eric Wade; v/rare (JM-PA)

WRRO OH WARREN - 12/19 1205 nx about fire next door to stn (6 children die); mx; good (EH-NY)

1460 WAWG NY ROCHESTER - 12/20 2158 fair w/lcl CJOY nulled; promo for Christian Skate Night spon by 3-W-G; ID as WAWG Rochester w/Wonderful Words of Prayer; I now need only WBBF-950 to complete Rochester on AM (MS-ON)

CKRB PQ ST GEORGES DE BEAUCE - 12/23 1649 assumed to be the one here w/FF tele-talk in/out mush (WPF-IN1)

1480 CKAN ON NEWMARKET - 11/30 1720 wx, temp in T, ment of Newmarket; fair (WPT-DC1)

WCNN GA ATLANTA - 11/25 1748 sps, ment of New Alexandria, eatery ad (WPT-DC1)

1490 WMS PHILADELPHIA - 12/18 2304 dual AM-FM s/off, ments of WWSL-FM & SSB @ end; fair (KVJ-GA)

1520 WSVL IN SHELBYVILLE - 12/16 1805 w/lcl nx in KOMA null; semi-lcl WKVI already off (WPF-IN)

1540 WADK RI NEWPORT - 12/16 1715 good w/taped wx & DJ mentg temp, 2 lcl ads in Newport, sps, then gone to CHIN; ('85 NRC Convention Site) (JM-PA)

KXEL IA WATERLOO - 12/20 2136 w/REL pgm mixing w/others (these are correct CLs, Edwin, maybe they have an Fmer as KXDD; any help from out there?-WRH) (EH-NY)

1550 WARD PA PITTSBURG - 12/20 2210 w/Christmas ad & ID (EH-NY)

WYNX GA SMYRNA - 12/23 1706 wx→Tax Tip & 5:06 @ Light AM 1550 WYNX→REL mx; v/good > WJLY signs off (CC1-PA)

WARD PA PITTSBURG - 12/24 1624-41 good w/lcl ad cluster, tik show, biz nx & wx; also noted briefly 12/13w/promo & ID WARD Pittston-Wilkes Barre-Scranton (RUGG)

1560 WCNW OH FAIRFIELD - 12/2 1628 GOS pgm, ad for Heaven's Cupboard; xint; #20 on 1560 (WPT-DC2)

WSHY IL SHELBYVILLE - 12/24 1407 w/time & temp check & Holiday greetings; 1st time from here (WPF-IN2)

1580 WOXR AL OXFORD - 12/17 1729-50 v/good w/many lcl ads, Merry Christmas from WOXR, etc & EZL Christmas; gone @ apparent pwr cut; new (JM-PA)

WOXR AL OXFORD - 12/9 1731-45 good w/lcl ad, wx, ID as Calhoun Cnty's Good Mx Stn, and pgm of Christmas mx; lost @ PSSA pwr drop (KG-PA)

WPMO MS PASCAGOULA - 12/10 1751+ v/good w/many lcl ads, 2 DJs, Eddy & Rick @ Toyota dir & find the diamond ring contest, back to studio w/C&W mx & 99 FM slogans (JM-PA)

WAMJ IN SOUTH BEND - 12/16 1859 fair w/pgm anncts; ID as AM-1580 WAMJ (MS-ON)

WANB PA WAYNESBURG - 12/12 1658 fair w/mx Winter Wonderland; ID & s/off @ 1700 w/103 FM invite (MS-ON)

WMRE TN SOUTH KNOXVILLE - 12/2 1713-30 s/off; strong w/wx & Heart & Soul blues singing; full-date s/off; ex:WSKT (KG-PA)

WVVO OH COLUMBUS - 12/25 2250 McDonalds ad→listen to the countdown of the heart and soul of the city, AM 16 WVVO (CC2-PA)

1590 WNA AL TUSCUMBIA - 12/10 1745-49 good w/2 lcl ads fade to Christmas mx, then abruptly cut pwr! (JM-PA)

WUSJ TN JONESBORO - 12/8 1735 w/nx, plug for HS BKB game by female; T40 mx; good (ex:WJSD, WGLS) (WPT-DC1)

REPORTERS: (responsible for this record-setting column)

- DP-IL Dale Park//Evanston, IL//RS Minisette 16,Sangean ATS-803
- DP-IN Dale Park//South Bend, IN//Ford CarRx
- DP-MO Dale Park//University City, MO//ATS-803
- JM-PA John Malicky//Pittsburgh, PA//
- MD-GA Marc DeLorenzo//Warner Robins, GA//GE World Monitor, LW, SM1

- KVJ-GA Karl Jeter//Stone Mountain, GA//HQ-150 + assorted beverages
- WPT-DC William Townshend//(at home) Washington, DC//RS Portavision-40, TRF [12-650]
- WPT-DC1 William Townshend//on GWU Campus//
- WPT-DC2 William Townshend//at Mazza Galerie Mall//
- CS-NY Chet Smith//Verona, NY//DX-180 (modified) + 80' LW
- FW-PA Frank Wheeler//Erie, PA//Halcrafters S40B
- EH-NY Edwin Headley//St Albans, NY//R-1000 + 90' LW, 350' Attic Loop, DA-9, MFJ-732 Filter
- HH-MD Hank Holbrook//Chevy Chase, MD//TRF
- HH-MD1 Hank Holbrook//Fair Haven Cliffs, MD//Sp-800 w/Colegrove Loop
- JB-TX Jim Boehm//San Antonio, TX//IC-R71-A w/18" Coax Loop
- AB-TX Artie Bigley//San Antonio, TX//FRG-7700 w/LW
- RM-CT Ron Musco//Poquonock, CT//
- WPF-IN1 Wendell Ford//Westville, IN//ICF-2010
- WPF-IN2 Wendell Ford//Linton, IN//ICF-2010
- SG-NY Steve Goozovat//Binghamton, NY//RF-2800 + 80' (more or less) LW
- MS-ON Morris Sorensen//Milton, ON//HQ-150 w/SM-2 or ICF-2010 barefoot
- KG-PA Kermit Geary//Walnutport, PA//HQ180, R389, HRO; LWS, SM2
- CC1-PA Chris Cuomo//Verona, PA//Sears Home Stereo
- CC2-PA Chris Cuomo//Verona, PA//Superadio II
- JFH-OK John Herman//Vinita, OK//R-388 +RW Loop
- RUGG Andrew Rugg//Nuns Island, PQ//R-380A & LW; Superadio II
- WW-MA William Wyllie//Franklin, MA//RS Modulaire 2200 w/built-in Ant
- WRH-NY Bill Hale//Johnson City, NY//Superadio I barefoot (too cold to put out a LW)

KDKA The Children's Campaign RADIO 1020

73 Bill

TOWER TIP NJ-1 WTTM - 920
TRENTON, NJ
1000 WATTS

P E N N S Y V A N I A W A S H I N G T O N N E W J E R S E Y
R I V E R C R O S S I N G

Y A R D L E Y M O R R I S V I L L E T R E N T O N

I-95 & I-295

WHAT TO LOOK FOR: The 3 towers dominate the hilltop landscape rising up from the Delaware river about 200 yards north of I-95.

CONTRIBUTED BY: J.D. Bowker

Send information about a.m. broadcast towers in your area to John D. Bowker, 14 Canoe Brook Drive, Princeton Jct., NJ 08550. Include a simple map (Bowker may re-draw it) showing major highways and any other terrain features near the tower(s). Tell how many towers, how they are laid out, and any other features that will help in spotting them.

Nancy Hardy, 2301 Pacific Avenue, Aberdeen, WA 98520

I've read that daytimers on regional frequencies have been granted fulltime authorization. Two such stations were reported this week so I've included them in "Special." The other station in that section clears up a question I had last week, whether Atchison, KS on 1470 is KERE or KARE. Well, on to DX...

****SPECIAL****

- 1290 KESP CA SANTA BARBARA - Now operating fulltime 0500-0000, 7 days, with 121 watts non-directional at night. Per call to GM, are going to try for 500 watts non-directional at night. He told me he can't add another tower for directional operation due to high cost & stiff opposition from Santa Barbara city/county government. (MR-CA)
- 1470 KDEW AR DEWITT - 12/19 0000 a real surprise, fading up with "KDEW Music Connection" promo, jingle, then gone. A 20-second log, good for a new one, AR #13. Listed as 500w daytimer, what gives? (ØW-CO) (See my comment above, John.--NH)
- KERE KS ATCHISON - 12/18 2255 high school BKB, sounded like "Rall Valley" vs "Mars Hill." Fair-poor with long fades & KWSL QRM. "Kere" pronounced as a word, so not sure of call. Supposed to be KERE, ex-KARE. (ØW-CO)

MIDDAY TO MIDNIGHT

- 530 WA SEATTLE-TACOMA - Sea-Tac Int'l Airport TIS 12/19 1940 heard with parking info, "Please buckle up in Washington state--it's the law." Good signal if down in the airport lowlands. (JSM-BC)
- 990 KBLS CA SANTA BARBARA - 12/21 1358 fair-good with BBD music, legal ID by male announcer. No call change yet. (TRH-CAL)
- 1250 KXET TX SAN ANTONIO - 12/22 1905 news, then program "La Hora de los Novios" in SS with phone requests at 470-KXET. Fair-poor. (ØW)
- KCIW AZ WICKENBURG - 12/20 2215 fair-good under KTMS in KSON null with C&W music, ads, IDs. Ex-KUUK. This station is impossible at home unless KSON-1240 is off. (TRH-CAL) 12/22 2040 ad for U.S. Septic, Community Calendar, assorted music & features. Lost around 2100, possible s/off. QRM from several. (ØW-CO)
- 1310 KIVA NM CORRALES - 12/22 1837 Christmas greetings from each DJ, ads, then 10 in a row (rock music) on a "Power Play." "Power 105" slogans. Fair-good in KFKA null. (ØW-CO)
- 1430 KAMP CA EL CENTRO - 12/21 1400 very good with oldies, ads, slogan "Your classic oldies connection." Regular midday catch here, impossible at home unless XEXX-1420 off. (TRH-CAL)
- 1610 KOP?? WA OLYMPIC NAT'L PARK - 12/13 1900 TIS with weather conditions. Not heard before or since. Strong. (JSM-BC) (We live on the Olympic peninsula and haven't heard this yet!--NH)

MIDNIGHT TO MIDDAY

- 570 KLAC CA LOS ANGELES - MM 12/21 0409 LOUD TTs. (TRH-CAL)
- 620 CKCK SK REGINA - 12/9 0000 good with TC, news & weather. New. (JSM)
- 670 KPUA HI HILO - 12/21 1015 good in KBOI null with female in JJ followed by man in Hawaiian at 1030; no ID until after local sunrise; finally gone at 1102 with distinct 10 minute peaks. New state. (JSM-BC)
- 690 UNID ?? ??? - Tu 12/15 0515-0530 Tter looping NE. Alternated between two tones at first, then tone sweeps. Local XETRA off on one of many recent weeknight SPs. (TRH-CA)
- 730 KIZN ID BOISE - 12/18 0536 fair, but holding up against CKLG with C&W music, "Kizzin Country 93 FM" slogans, male DJ with several weather forecasts. (TRH-CA)
- 790 KABC CA LOS ANGELES - MM 12/14 0340 OC leaving usual pest XESU. (TRH-CA)
- 810 KGO CA SAN FRANCISCO - 12/20 0310 totally off, leaving HJCY, CKJS & ZNS3 Bahamas! Still off at 0630. (TRH-CA)
- CKJS MB WINNIPEG - 12/20 0427-0445 poor under HJCY with AdCon, NHL scores, lots of "Radio 8-10, CKJS!" jingles. New. (TRH-CA)
- 840 KWPN NE WEST POINT - 12/23 0807 area news, weather, ads. Fair at best, with most of KOA-850 splatter nulled. New, NE #33. (ØW)

- 950 KNFT NM BAYARD - 12/16 0922 on top of channel (local XEGM has been off all week) with ads for car dealers & western wear stores in Silver City. (TRH-CA)
- 960 KLKL OR KLAMATH FALLS - 12/18 0500 just as I turned the radio on, caught their legal ID! Soon faded, but seemed to be C&W format under KABL/KOOL/KPMY. New, OR #17. (TRH-CA)
- 970 KBIT MT BILLINGS - 12/9 0033 poor in KYTE null with weather update. New. (JSM-BC)
- 980 UNID ?? ??? - MM 12/14 0348 unID TTer, looping ENE under KFWB, CKRM. (TRH-CA)
- 1310 KZIP TX AMARILLO - 12/18 0800 legal ID in English, then man in SS playing rancheros. Very poor in KFKA null. New. (ØW-CO)
- 1340 KSGR ID NAMPA - MM 12/14 0405 faded up for ID under KIST/KMAK et al. Rare, report still needed. (TRH-CA)
- UNID ?? ??? - MM 12/14 0400 unID with New Age-type format. No ID noted, and couldn't get a definite loop direction. Ideas? (TRH-CA)
- 1390 KBLQ UT LOGAN - 12/22 1108 Christmas music, program notes, PSA's, ads. Pair over KCRC in KENN null. Still heard past 10am local. (ØW-CO)
- 1420 CJVR SK MELFORT - 12/9 0004 sports news & weather with several local spots into C&W. New. (JSM-BC)
- 1440 KRZD CO WRAY - 12/19 0930 Paul Harvey, local news, weather, etc. Pair o/u KEWI for a while, then eventually lost completely to KEWI, surprisingly. Ex-KRQZ. (ØW-CO)
- 1450 KJMB CA BLYTHE - 12/23 0906 poor-fair s/on with SSB, nice clear ID "You're tuned to KJMB, Blythe, California," ad, into South-west Ag Radio Network farm report. Soon clobbered by KOWA/KPSI/XECB. New, CA #197. (TRH-CAL)
- KOWA CA ESCONDIDO - 12/20 0319 noted with C&W music, ID, new "K-O-W AM" slogan. Ex-KOWN. (TRH-CA)
- 1490 KBZY OR SALEM - 12/13 0400 fair with sully data s/off & SSB. New. (JSM)
- 1610 WKK790 AZ PHOENIX - 12/23 0109 fair with tape loop by female anncr. Rarely this strong. Power is 8 watts. (TRH-CAL)

REPORTERS

- (TRH-CA) /Tim Hall, Chula Vista, CA/ICF-2010, Radio West loop
- (TRH-CAL) /Tim Hall, DX'ing in Bonita, CA/ICF-2010, Radio West loop
- (JSM-BC) /Steve McDonald, Port Coquitlam, BC/Sony ICF-2010, Radio West loop
- (MR-CA) /Mike Riordan, Goleta, CA/GE Superadio II
- (ØW-CO) /John Wilkins, Wheat Ridge, CO/R1000, R-390A, 4* box loop

CONTESTS

Robert Kramer, P.O. Box 12633, Chicago, IL 60612

CONTEST STANDINGS
as of 1/4/88

DXER	A	B	C	D	E	F	G	H	I	J
N. Wolfish, MB	3496	3063	4	4	6	2	1	0	0	153
G. Sherman, MN	2341	2256	2	0	3	1	0	0	0	---
J. Tudenham, MO	2311	2101	1	2	0	0	1	0	0	105
J. Boehm, TX	1932	1068	6	4	6	2	1	0	0	534
G. Coniglio, NY	1885	1379	6	2	1	2	2	0	0	206
P. Routenburg, ON	1854	1404	3	1	4	3	0	1	0	280
R. Vance, VA	1738	1377	5	2	0	0	0	0	0	206
L. Van Horn, FL	880	629	0	0	0	0	0	0	0	251
N. Hardy, WA	624	328	1	0	0	0	1	0	0	196
B. Hardy, WA	407	208	1	0	0	0	1	0	0	124
D. Hascall, IN	251	226	1	0	0	0	0	0	0	---
M. Hogan, IL	late entry, no report yet									
noncontestant										
me	3554	3269	6	1	3	3	1	1	0	---

SYMBOLS: A= total points, B= state & province points, C= Most wanted loggings, D=Honorable Mention Most Wanted points, E= Target Stations, F= Auxiliary targets, G=Singletons, H= Duplicators, I= Eliminators, J= Handicap points.

SINGLETON LOGGING

WRYT IL EDWARDSVILLE 12/5 1710 J. Tudenham

DUPLICATOR LOGGING

CHTN PEI CHARLOTTETOWN 11/7 1936 P. Routenburg

ANARC Computer Information Committee

C/O BILL COLE
107 Charles St. N. Cape May, NJ 08204 USA



ANARC Computer Communications Survey

The Association of North American Radio Clubs wants your feedback on how to best use telecommunications in serving you and your club. Please answer this survey and return it to us by March 31, 1988.

1. What type of computer do you use?
2. Do you call non-commercial radio related BBSs?
How often?
Which BBSs do you call?
3. How important is each of the following BBS features to you?
(Rate from 1 to 11; 11 is highest - PLEASE PUT RATING ON LEFT)
 - ___ Uploading & Downloading of programs. ___
 - ___ Uploading & Downloading of text files. ___
 - ___ Sending & receiving E-mail. ___
 - ___ Posting notes, dx tips, etc. for others to read. ___
 - ___ Reading notes, dx tips, etc. from other users. ___
 - ___ Message forwarding. ___
 - ___ Reading magazine/library features. ___
 - ___ Reading bulletins/schedules from broadcasters. ___
 - ___ Conferencing. ___
 - ___ Propagation indices. ___
 - ___ Other (specify). ___
4. For the ABOVE eleven features, put a plus (+) to the RIGHT of those you use frequently, put a minus (-) to the RIGHT of those you use occasionally and a zero (Ø) to the RIGHT of those you don't use.
5. Are most of your calls to radio related BBSs long-distance?
6. Which of the radio related BBSs best meet your needs?

Why?
7. Do you use BBSs primarily for time critical information (DX tips) or non-time critical information (Tutorials, Station Schedules, etc.)?
8. Of the various BBS programs you have seen in use, which do you prefer?
9. What features would you like to have that are not currently implemented on any of the BBSs you have called?

10. Has your use of radio related BBSs made you more or less interested in joining a radio club?

- 11. Should ANARC be thinking PRIMARILY in terms of (select one):
 - A. Operating its own BBS.
 - B. A BBS with sub-boards for each member club.
 - C. Forming a network of club sponsored BBSs.
 - D. Supplying files and programs to all radio BBSs.

12. Do you call information services such as Genie or CompuServe? How often? Which ones?

13. When you call an information service, do you pay long-distance telephone charges in addition to those charges you pay to the service?

14. Which of the commercial services best meets your needs?

Why?

15. Comments:

Your Name:
Address:

To which ANARC affiliated club(s) do you belong:

NRC

Other radio/communications related clubs to which you belong:

Please mail your survey to: ANARC Computer Information Committee
C/O Bill Cole
107 Charles St.
N. Cape May, NJ 08204 USA

Chuck Hutton, 1237 Lanier Blvd., Atlanta, GA 30306

404-873-2785. BEFORE 2300 ELT

Times are GMT For ELT subtract 5 hours. Deadline: Monday



A note from Bohac: according to the October 1987 issue of IEE NEWS (IEE is Institute of Electrical Engineers - Chuck) published in London, the BBC will be changing the frequencies of Radio 4's LW transmitters at Droitwich, Westerglen and Bughead from 200 KHz to 198 KHz commencing 2/1/1988. The World Administrative Radio Conference of 1979 stipulates all LW transmitters should operate on a 2 KHz frequency separation. What this 2 KHz shift downward in frequency by the BBC means for the reception of co-channel stns on 200 KHz, i.e. Poland, Turkey and the Russian outlet is unknown. Likewise, will the co-channel stns follow suit, and will the East German transmitter on 177 KHz at Oranienburg, plus Saarlouis-183 move their frequencies in concert with WARC? Stay tuned.....

Bohac note #2 : Finland seekers should be aware that Sweden Calling DXers carried a report advising that commencing July 1988 a Joint Radio Telefis Eireann - Radio Luxembourg station with the name of "Radio Tara" will be/should be operational on 254 KHz. Such would then probably block reception in Eastern North America of high latitude stations Lahti, Finland and/or the Russian transmitters on this channel.

- 153 WEST GERMANY/ALGERIA 12/9 0200 Donebach some 35 dB above normal noise level in 4 KHz bandwidth with Algeria at least 20 dB below the German. A welcome change of roles, since Algeria had been the dominant station on this channel due to previous poor high latitude conditions. Donebach crushing Algeria all evening while MW signal paths from urope were outstanding on 12/8 and 12/9. At around 0430 Algeria begins to punch through Donebach's German newscast. Both stns about equal in strength by 0450. Algeria totally dominant by 0513. (Bohac)
- 153 WEST GERMANY DLF Donebach 12/8 0151 classical mx // 1269. (Vernon)
- 153 WEST GERMANY DLF Donebach 12/15 0544 Carpenter's mx /// 765, poor sig. (Vernon)
- 153 USSR Khabarovsk 12/9 0955 maybe a local pgm, talk between various people, no pips on the hour, good signal. 12/13 0958 mostly nr mx w/woman anncr, no pips at 1000, maybe local on Sunday also. (Vernon)
- 153 USSR Khabarovsk 12/20 1745 two male anncrs seemed to be a game, probably soccer, good sig // 189, 236. (Vernon)
- 162 FRANCE Allouis 12/7 0655 male and female anncrs, good sig. (Vernon)
- 162 FRANCE Allouis fair/average sig 20 db over noise in 2.3 KHz bandwidth on 12/9 at 0428. (Bohac)
- 164 FRANCE Allouis 12/14 0634 male talk, xInt sig, usually only fair-good at best. (Vernon) Is the frequency a mistake or the real thing? Chuck
- 171 USSR Yakutsk 12/10 0938 male anncrs, some sort of IS, 0938 woman mentioned programma, silence, 0940 male anncr then woman w/mx pgm, maybe a local pgm before 0940, no //. (Vernon)
- 171 USSR Yakutsk 12/20 0832-0859 various singers, light mx, 0900 Kremlin Bells for 12 noon, is 6 PM in Yakutsk. (Vernon)
- 171 USSR Syktyvkar etc. 12/17 1326 band mx // 263. (Vernon)
- 171 USSR heard as strong as or stronger than Allouis-162 KHz on the night of the INF treaty signing: 12/9. The Russian had a fluttery signal varying 15-18 dB above normal noise level in a 2.3 KHz bandwidth from 0200 onward into the late evening, peaking around 0450 at 25 dB over noise. As was noted earlier this year (1/15/87 0500-0515) there is a second Russian stn beneath with entirely different audio and a distinct low pitched growl/audio rumble on the channel. Readers should note that the two Russian stns heard here -- both in January 1987 and presently -- are not synchronized operations, contrary to what is sometimes stated in DX loggings. (Bohac)
- 177 EAST GERMANY DGI Oranienburg 12/10 0559 time signal to 0600, during regular sked, will try for a verie. (Vernon)
- 177 EAST GERMANY Oranienburg 12/9 0424 in German w/American rock music, sig 25 dB over noise. (Bohac)
- 180 USSR Petro 12/9 0943 male anncr, good sig // 236. (Vernon)
- 183 WEST GERMANY Felsberg (Saarlouis) 12/9 0420 and earlier 40 dB over noise. (Bohac)
- 189 SWEDEN Motala 12/9 noted 0441 weakly suring period of apparently lesser than ideal longwave high latitude path conditions. I ammend my comments (1/17, 1/25, 2/3, 3/14) relative to Motala running the 7 note IS: notes from "Storm och boljor tystna re'n". This "IS" has been presently noted as early as 0441. The exact time when the IS commences is unknown,

however. Reception on 12/9 was only detectable in the NSHD mode (non-synchronous heterodyne detection) of the Drake R7 receiver. The normal AM mode(s) of both the R7 and the NR0515 produced no audio, as the sig level from Motala was a mere 8-10 dB in a noisy background, 2.3 KHz IF bandwidth was employed. Had anticipated/expected a much better signal from Motala inasmuch as the Norwegian 1314 KHz MW outlet was unbelievably strong: some 65-70 dB over normal noise level in a 6 KHz bandwidth during most of the evening of 12/9. (Bohac)

189 USSR Blagoveshchensk 12/13 1829 Mayak IS, best TP stn here on LW. (Vernon)

200 ENGLAND Radio 4, Droitwich 12/7 0706 male w/talk about patient care, 12/9 0626 woman with item about a war 45 years ago. Poor signals. (Vernon)

200 ENGLAND Droitwich 12/18 0610-0613 two male annrcs, seemed like a pgm for farmers, poor signal. (Vernon)

200 ENGLAND 12/9 audible all evening. (Bohac)

209 WEST GERMANY/MOROCCO 12/9 0200-0500 mixed. At times Morocco dominant for 5-8 minute periods, or vice versa. During transition period of stn dominance, strong beat note present. (Bohac)

209 UNID 12/10 0959 western type instrumental mx, woman annrc, 1000 door bell type chimes, male annrc w/talk. Good signal, but QRM from beacons, time would indicate Mongolia. (Vernon)

209 UNID 12/11 0654 male annrc, almost religious sounding mx, 0655 male again w/piano mx, 0700 male annrc, no pips, then two annrcs talking. Would assume Iceland, not // 1269, but must be on before 0700 as indicated in WRTH. (Vernon)

209 UNID 12/18 0947 male and female, some kind of play, beacons kill language pattern, no //, seems too early for this kind of pgm in Iceland. (Vernon)

227 POLAND Konstantynow 12/12 0326-0400 mostly pop mx w/male annrc, 0400 & BBC style pips, male w/talk (probably news) and continued w/various speakers or reports through 0430. (Vernon)

227 POLAND Konstantynow 12/21 0232 folk type mx, good signal. (Vernon)

227 POLAND Konstantynow 12/9 0450 Polish female annrc chewed up badly by fast and fadey SAH. (Bohac)

236 USSR Arkhangelsk 12/8 0203 USSR anthem, good signal // 171, 263. (Vernon)

236 USSR Magadan 12/5 1320 piano mx w/male annrc. (Vernon)

245 DENMARK Kalundborg 12/9 noted with programming prior to 0500: at 0458 piano/jazz music. Male annrc at 0500 w/apparent news in Danish. Sig level 15-20 dB over noise in 2.3 KHz bandwidth, upper sideband to escape beacon QRM. Notch filter also employed. The 245 KHz channel was parallel to 1062 KHz MW which was being heard well at the same time. Of the two, the LW freq was better once USB tuned and notch function on receiver used. (Bohac)

245 USSR Vladivostok 12/9 before 1030 153, 171, 189, 245, 272 all had different programs except 180, 236. At 1030 all joined for mx w/woman annrc, item about Reagan and Gorbachev, all except 171. (Vernon)

254 UNID have been noting a FF speaking stn here numerous occasions during November and December playing pops. Stn programs across the hour without any ID's. During periods of observation, sig strengths appeared to consistently underdo Morocco-171 and Algeria-153 by 10-15 dB. Refer to earlier comments made under 153 Algeria logging dated 1 May 1987 in regard to unclarified situation on 254/153 KHz. Is this s low(er) powered Algerian outlet? Comments anyone? (Bohac)

263 USSR Moscow 12/7 0336 male annrc w/talk, good signal. (Vernon)

263 USSR not sure of location, 12/18 1621 woman with talk, poor signal, could be Chita or Moscow. (Vernon)

263 USSR/UNID 12/9 0505 Russian audio running parallel to 171 KHz dominant Russian stn. Sig 20 dB over noise. During fades, 263 KHz Russian audio chewed up by 2.4 Hz SAH. (Bohac)

272t USSR Khabarovsk 12/9 1016 woman annrc, very weak signal. (Vernon)

272 CZECHOSLOVAKIA Ropolna 12/7 0335 band mx, 12/9 0622 orchestral mx, fair signal at times. (Vernon)

272 CZECHOSLOVAKIA 11/26 2125 onward with very strong sigs and easy listening level when either other high latitude stns produced no audio, or carriers were marginally detectable. Lower latitude stns such as France 162 and SaarLouis 183 were severely attenuated in the same time frame. Topolna 272 also heard well all evening 0155 - past 0415 on 12/9 during the excellent MW opening to Europe, except for infrequent 2-3 minute periods of fade into noise. After 0415, sig level only fair to weak: 20-25 dB over noise in 2.3 KHz filter. Therefore, after 0415, reception of Topolna made in NSHD mode (exalted carrier) of the R7 receiver. Programming procedures/patters remain the same as noted in previous receptions of 1/15, 1/18, 1/26, 3/6, 3/12, 3/13, 3/22 and 5/1. (Bohac)

281 USSR Byelorussian SSR Minsk 12/8 0357 woman, piano mx exercise pgm, good signal. (Vernon)

281****USSR Sverdlovsk 12/8 0155 male and female annrcs (WRTH has this listed as a local pgm) to 0159, silence, could hear weak FS IS as Minsk stn, 0200 pips, male and female annrcs o/Minsk and Moscow bells, anthem, etc., this must warrant stars, yes? (Vernon) The Star Award Committee agrees since its only 50 kw. Please forward your check for service charge and handling of 4 stars totalling \$4932.71 to me ASAP - Chuck

531 SWITZERLAND Beromunster 12/8 0501 woman annrc w/GG, 0507 instrumental mx noted // 1566, so is not just daytime as mentioned in WRTH. Very good sig here. (Vernon)

531 SWITZERLAND Beromunster 12/15 0527 various pieces of instrumental mx, xInt sig, poor at 0547, male GG talk. (Vernon)

531 ALGERIA Ain Beida 12/8 0333 male AA type singing, fair signal. (Vernon)

540 BELGIUM Wavre-Overijse 12/15 0528 male FF singer, 0530 Belgium news sounder, male w/DD talkkk, xInt sig, exp- this to be Hungary. (Vernon)

540 UNIDS 12/8 0513 clearly male w/AA type singing and male w/East Europe type talk, real mix here, likely Morocco and Hungary topping the mess. (Vernon)

594 WEST GERMANY HR Frankfurt 12/15 0502-0510 male GG talk, probably mx, 0510-0524 instrumental and ballad type mx w/male annrc, xInt sig, KHAR 590 QRM. (Vernon)

657 EAST GERMANY Burg BR 12/11 0548-0556 mx w/male annrc then male talking via phone, 0600 & pips, good signal, must be on high power before 0600 at a guess. (Vernon)

639 CZECHOSLOVAKIA Praha 12/15 0555-0557 male talk, instrumental mx, 0600 & pips, flute, male with news, good sig, rare here, usually get Spain. (Vernon)

666 GERMANY/PORTUGAL/LITHUANIA 12/15 0500 xInt tape of SWF, slow Portugal pips and Moscow Program One pips and news sounders, all at approximately the same level. (Vernon)

693 ENGLAND Droitwich 0124 12/5 US pop oldies, EE talk fair-good. (Hakiel)

700 JAMAICA JBC R. One, Montego Bay good u/WLW w/gospel mx and ID 12/3 2342 to 2345; heard on car radio. (DeLorenzo)

700 JAMAICA JBC R. One Montego Bay 12/19 2303-2304 loud o/WLW w/sports report. (DeLorenzo)

711 WEST GERMANY Heidelberg 12/19 0142 male GG singer, all alone, // 801, 936, ARD program. (Vernon)

711 LIBYA Ghadames etc. 12/18 0155 male AA type wailing // 1251. (Vernon)

754 UNID 12/13 1815 male AA type wailing, weak but clear audio. (Vernon) Egypt or Yemen? Chuck

760 CUBA Guanabacoa, Reloj 12/19 0412 weak but good signal behind WJR. "RR" code ID's, clock ticks and news. (Wyllie)

765 SENEGAL Dakar 12/19 0606-0618 good w/slow AA vocal mx and man in AA, obviously religious; still in as late as 0709. (DeLorenzo)

765 SENEGAL Dakar 12/20 poor and brief 2325 to 2327 with vernacular talk and local mx. (Rugg)

765 SWITZERLAND 12/7 0353 classical mx o/male RR talk, this FF service still on 24 hours. (Vernon)

765 SWITZERLAND Sottens 0600 12/7 FF talk, "Prog 1 RSR La Premiere" ID, good. (Hakiel)

765 USSR Medvezhyegorsk 12/12 0324 male and piano exercise pgm, good signal // 263. (Vernon)

765 USSR Medvezhyegorsk 12/15 0202 noted w/USSR anthem // 171, 236, 263, 801, fair, noted o/Swiss FF 24 hour service. (Vernon)

810 GREENLAND Upernavik 12/22 0042 always has a big carrier and weak audio // 900 which is xInt. (Vernon)

828 BULGARIA Sumen 0513 12/10 pleasant instrumental mx, Slavic talk. (Hakiel)

864 EGYPT Santah 0205 11/11 AA chants, poor. (Hakiel)

864 EGYPT Santah 12/18 1614 male wailing, never any background mx, 1615 male annrc briefly. 12/21 0238 male still wailing. (Vernon)

880 CUBA Pinar del Rio CNAB 12/18 0558 R. Progreso programming came in strong over WCBS. (Wyllie)

890 HONDURAS HRH R. Nacional 12/11 0410-0420 good and mostly o/WLS w/enthusiastic man in SS; full ID including call letters and mention of Tegucigalpa. (DeLorenzo)

891 ALGERIA Algiers 12/19 0512 fair squeezing past WLS w/slow vocal by man in AA, religious. (DeLorenzo)

900t SAUDI ARABIA Qurayyat 12/19 0129 AA type singing, probably this though not listed as being on. (Vernon)

910 CUBA R. Reloj, Matanzas 12/9 1114 1&c o/2 domestics w/all nx in SS // 790, 930, 960 etc. (DeLorenzo)

918t SYRIA Al-Hassake 12/18 1847 two male annrcs, very clear audio, AA type talk 1851-1856, woman annrc, talk, few seconds of western instrumental mx between 3 news items. 1856 male AA type monotone talk, noted jammer at 1850 weak u/ this, so maybe from Iran/Iraq area, gone before 1900,

(18)

never noted before or since, strong signal for quite a while, nice clear audio. (Vernon)

918 USSR Mezen 12/21 0259 Mayak IS, 0300 6 pips, short rr instrumental mx, male w/RR talk, xInt sig for 10 minutes, then gone before local pgms, darn!! (Vernon)

927 BELGIUM Wolverson 2220 12/9 Dutch talk by man, US pop oldies, pops, good. (Hakiel)

927 TURKEY Izmir 12/8 0256 IS derived from the anthem, 0257 Turkish anthem, 0300 pips, woman anncr, quite weak. (Vernon)

936 USSR Ukrainian SSR Lvov 12/21 2307 woman w/Radio Moscow EE service, xInt sig. (Vernon)

936 WEST GERMANY Bremen 2225 12/9 vocal by Dean Martin, GG talk, fair. (Hakiel)

940 MEXICO XEQ 12/18 weak but good signal behind CBC stn. No ID noted but I'm sure it was them. Have heard it amny times, 0604 GMT. (Wyllie)

963 FINLAND Turku 12/15 0732-0752 EE service, hour earlier than listed in WRTN. Local-like signal, pgm recorded from 19:30 12/14, 0742 2 women w/listener correspondence pgm, apparently Ann and Helen had been blowing kisses over the air, 0752 IS and ID repeated, repeated ID in different lang by alternating man and woman. (Vernon)

963* FINLAND Turku not quite a listing but signal is very much improved here over previous report, is on 24 hours now. (Vernon) Sorry Brian, only one star for this - Chuck

999 USSR Moldavian SSR R. Kiev, Kishinev 12/13 2200 IS repeated 2201-2209, male and female anncr, Ukrainian lingo, all about Reagan and Gorbachev, 2209 clear ID by woman (Radio Kiev), xInt at 2200, gone by 2210. Report sent. (Vernon)

1000 CUBA San Cristobal CMAQ 0100 11/29 S talk, R. Guama ID, dair. (Hakiel)

1017 TURKEY Istanbul 2044 12/9 Turk mx, Turkish talk by man, poor. (Hakiel) (Yeh, they sure don't have the signal they used to. Ten years ago they were a reliable signal for me - Chuck)

1017 TURKEY Istanbul 12/7 0350 AA (sounds to me) type mx, xInt sig for a few minutes. (Vernon)

1035t IRAQ Babylon 12/13 1756 male AA type wailing. At 1823 male w/singular tone voice w/talk, similar talk noted at 1836, was not // 1197, 1224. Is likely AA service as listed in WRTN. (Vernon)

1044 MOROCCO Sebaa-Aioun 12/21 0230 woman, AA type talk, not noted in a while. (Vernon)

1053 ENGLAND Droitwich 0605 12/7 pop mx, EE talk // 1089, good. (Hakiel)

1062 DENMARK Kalundborg 2325 12/7 pop mx, Danish talk, xInt. (Hakiel)

1089 ENGLAND Brookmans Park 0534 12/7 wx forecast, time check, good. (Hakiel)

1107 EGYPT Batra 0306 11/11 AA chants and talk, poor. (Hakiel)

1125t LIBYA El Beida 12/13 1818 male AA singing, noted at 1824 w/talk, no // found, only Hungary on 1251. New here, but is on 1125 KHz, so could be someone else? (Vernon)

1125 YUGOSLAVIA Tovarnik 2356 12/8 US pop mx, Slav talk // 1134, good. (Hakiel)

1134t KUWAIT Sulaibiyah 12/13 1832 male AA-sounding talk, was in monotones, have not noted AIR now in 2 years. Verie from Kuwait has 1143 KHz written on it. (Vernon)

1152 ROMANIA Cluj 12/20 0155 classical mx, 0159 silence, IS, woman mentioned program (all Romanian), 0200 6 equal short pips, woman anncr, xInt sig, 0200 male w/nx // 1179. (Vernon)

1152 SCOTLAND R. Clyde, Glasgow 12/7 0228 commercial for Clyde Savers, only 239 pounds to New York. (Vernon)

1161 SCOTLAND Tay/Forth, Dundee 12/7 0212 Tom Wilson on Night Club till 5 on Radio Tay and Forth together, rr mx, 0222 horoscope, actually this is from // 1548, but was // when checked a couple of times on 1161. (Vernon)

1165 ANTIGUA Caribbean Radio Lighthouse, St. Johns 12/24 2255-2259 good w/Christmas mx followed by BBC WS nx at 2300. (DeLorenzo)

1170 YUGOSLAVIA Koper 12/13 1751-1820 all EE rr mxxx w/male anncr in II lingo. Mayak IS noted at 1759 u/this from unid location. (Vernon)

1179 ROMANIA Bacau 12/9 0357 Romanian anthem, fair sig // 1053, 1152. (Vernon)

1179 SWEDEN Solvesborg 2234 12/8 Swede talk by man, good. (Hakiel)

1188t YEMEN PDR Al-Hiswah 12/13 1851 weak, male AA singing, lost before 1900, two regular cassette reports went unanswered last season. (Vernon)

1189t YEMEN PR Al Hiswah 12/20 0204 AA wailing and drums, signal appears off freq, big het on Hungary 1188, perhaps this will be more widely heard now. (Vernon)

1197 IRAQ Nineva 12/7 0229 AA type singing, 0230 woman anncr briefly, had slight BBC Radio 2 QRM, 0258 lost to VOA s/on, VOA apparently is not regularly 24 hours now, though has been since Reagan-Gorbachev meeting. 12/12 AA type music though is apparently Persian, 1759 Grandfather clock type chimes, male anncrs, 1800 instrumental mx then male anncr, seemed as he spoke the jammer started. (Vernon)

(19)

1205 CAYMAN ISLANDS R. Cayman 12/18 0415 good w/light mx // 1555. Again 12/19 0323 l&c w/Christmas mx. (DeLorenzo)

1205 CAYMAN ISLANDS R. Cayman 12/24 2245-2252 xInt w/George Harrison tune followed by local ads; much better than // 1555. (DeLorenzo)

1215 ENGLAND synchros 2213 12/8 man in EE talk, fair. (Hakiel)

1215 ENGLAND BBC outside Edge etc. 12/17 0439 has been on AN most of the week w/England vs. Pakistan test match cricket, apparently the umpires are not up to scratch there. Am sure this will shock NRC membership. (Vernon) Never would have dreamed it - Chuck

1224 IRAQ Nasiriya 12/13 1836 female AA talk, good signal // 1197 only fair, 1850 male AA (Persian) type singing, jammer noted here also. (Vernon)

1242 USSR Ukrainian SSR Kiev 12/13 2200-2214 w/R. Kiev Ukraine Service, weaker than // 999 but in longer, lost by 2215. Report sent. (Vernon)

1287 CZECHOSLOVAKIA Liblice etc. 12/19 2200 woman w/E service, nx, 2204 nx in detail, only fair at this time. (Vernon)

1296 AUSTRALIA 4BK Brisbane 12/21 1705 spot for 4BK New Years eve, something on other, poor sig, 9:05 AM local time over there. (Vernon)

1314 UNITED ARAB EMIRATES Dabriya 12/13 1857 AA type mx about equal with piano mx from Norway. Still not heard Radio and TV Dubai 1481 KHz at all this season, is it shut down? (Vernon) I haven't seen it mentioned - Chuck

1332 ITALY Rome 2221 12/9 II talk by man, fair. (Hakiel)

1335 HONDURAS San Pedro Sula HRHH 0121 11/25 R. El Mundo ID, fair. (Hakiel)

1355 UNID 0615 12/14 AA chants, AA talk, fair, all even heard previously was a het, finally had audio, now I have to ID it. Any ideas? (Hakiel)

1360 IRAQ Kirkuk 12/13 male and female w/friendly type talk, probably a play, language does not sound as "splattering" as AA-Persian (if you know what I mean), 1840-1850 AA type mx, no jammer noted here, though terrible 1359 het. (Vernon)

1386 USSR Kaliningrad 2116 12/8 EE talk about armaments in Europe. (Hakiel)

1395 ALBANIA R. Tirana, Lushnje 12/6 2245 woman, EE service, socialism, society and social assistance mentioned, fair sig though faded a lot. (Vernon)

1395 ALBANIA Lushnje 12/20 2229 IS, 2230 woman with Radio Tirana EE service, xInt sig though woman had soft voice, readable throughout, 2256 Internationale mx. (Vernon)

1413 OMAN BBC Masirah Isles 12/13 1752 some Aussie state cricket scores, also boxing, all EE, good signal for a short time. (Vernon)

1413 WEST GERMANY unid 12/18 0159 noted // 1422 ARD pgm, also 12/21 0222 same pgm. (Vernon)

1440 SAUDI ARABIA Ras-as-Zawr 12/13 1753 AA mx, o/Luxembourg, either mixes with or tops Lux in morning and early evening here. (Vernon)

1440 SAUDI ARABIA Ras-as-Zawr 12/21 0427 AA mx, xInt sig. (Vernon)

1449 UNID 12/20 appears to be 2 Russian lang stns here, one mostly mx, probably Kalinin w/Moscow Program 3, other 1716-1722 male and female anncrs w/alternating items, similar to Program 1 format. Iran has RR service here though at this time !! (Vernon)

1467 MONACO TWR Monte Carlo 12/19 2312-2320 weak male EE talk, 2320 woman and man w/talk, poor sig. 12/20 2255 woman asking questions, male with all the answers, all EE, then 2259 address of Evidence, Hour of the Bible, Eastbourne, England and 2300 another EE pgm. (Vernon)

1512 BELGIUM Wolverson 2052 12/8 FF talk by woman, fair. (Hakiel)

1521 SAUDI ARABIA Duba noted daily 12/25 to 12/29 between 2240-2300 w/man in AA and slow AA chanting; usually peaked for 30-90 seconds then faded for 3-4 minutes. Some WUKB/KOMA slop but, in peaks, the Saudi would push them aside. On 12/26 noted // 9720 SW but on other days 9720 was covered by someone else. (DeLorenzo)

1548 AUSTRALIA 40D merald 12/20 1634-1655 male anncr, BBC rock pgm seemed to be about Motown, 1655 lost, 1701 woman w/TC for Queensland, intro to mx, slow rr, 1732 old BBC comedy pgm, amazing sig, now on 24 hours. (Vernon)

1557 MALTA R. Mediterranean, Cyclops 12/6 2241 male anncr, EE service, picked out only "negotiations at this stage", signal a bit noisy. (Vernon)

1566t TUNISIA Sfax 12/13 1712 AA type singing noted w/male AA type talk, 1724 audio good at this time. Had strange cuckoo sounds at 1721, not sure if this was from this stn, weird. (Vernon)

1566 TUNISIA Sfax 11/16 exotic AA mx w/vocals, AA talk good, this stn comes in some afternoons as early as 3 PM local time with good audio. (Hakiel)

1570 TURKS AND CAICOS ISLANDS Atlantic Beacon 12/21 2255 l&c at s/on; I guess they wait for darkness on the east coast before signing on. 12/23 2304-2307 l&c way atop w/UIP nx, local ads, Paul Harvey nx. (DeLorenzo)

1610t ANGUILLA The Valley 12/20 0427 woman very tearful SS talk, have only seen EE pgms reported? (Vernon) They have a late night SS thing, I think its every night, if not it is frequent - Chuck

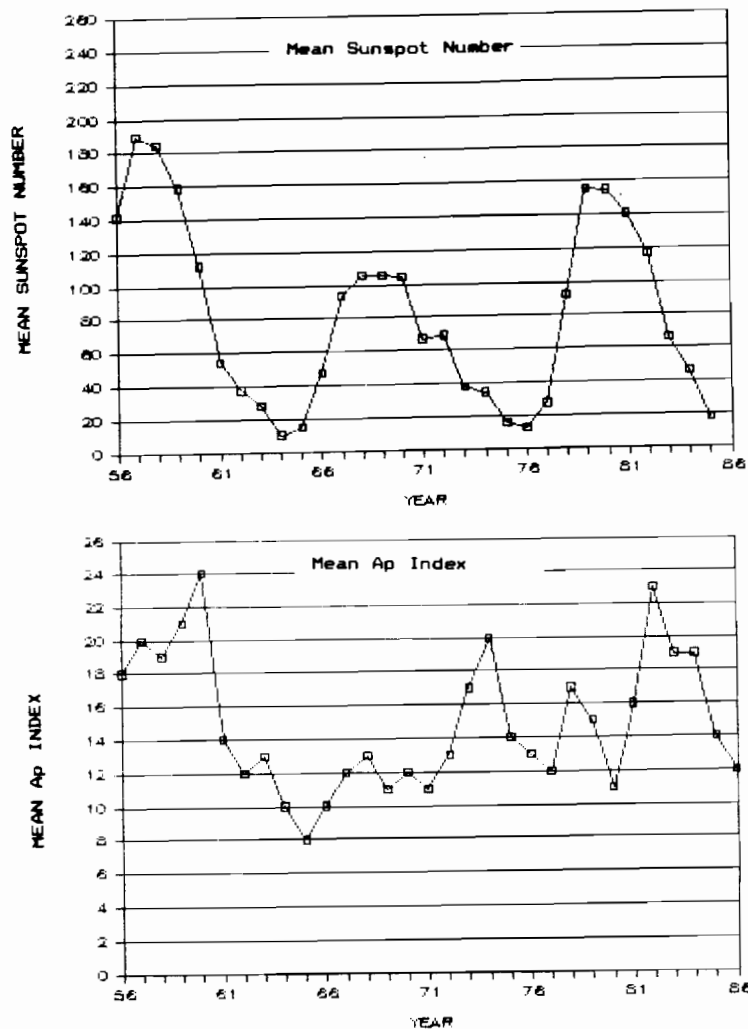


FIGURE 6. Correlation of Sunspot Number with Planetary A Index.

5. GEOMAGNETIC FIELD DATA

I recently obtained the A_p index data for the years 1956 through 1986. I tabulated the following information for each year in an attempt to correlate the A_p index with sunspot number:

- Sunspot number - monthly mean Wolf sunspot number
- Mean A_p - the average A_p for the year
- $A_p < 8$ - the number of days with a quiet geomagnetic field
- $7 < A_p < 16$ - the number of days with a disturbed geomagnetic field
- $A_p > 15$ - the number of days with an active geomagnetic field
- $A_p > 80$ - the number of days with a major geomagnetic storm

- Con $A < 8$ - the maximum number of consecutive days with a quiet geomagnetic field
- Con $A < 16$ - the maximum number of consecutive days with a quiet or disturbed geomagnetic field
- Con $A > 15$ - the maximum number of consecutive days with an active geomagnetic field.

Table 1 shows these values for the years 1956 through 1986, which covers almost three sunspot cycles. Figure 6 shows a graph of the relationship between sunspot number and the mean A_p index; I expected to see an inverse relationship, with the lowest mean A_p index during the lowest sunspot years. The maximum mean A_p values occur 2-3 years after the sunspot maximum. The minimum mean A_p value occurred one year after the sunspot minimum in 1964, but there wasn't a real clear minimum mean A_p value in the mid-1970's. It is too early to tell the correlation in the mid-1980's since the sunspot minimum has just occurred in late 1986 or early 1987, just before this article was written.

Figure 7 shows a graph of the number of quiet days ($A_p < 8$) and sunspot number over the years since 1956. The trend is for the number of quiet days to be high when the sunspot number is low, and vice versa. But, the correlation is not perfect - the mid-1970's really don't correlate well, while the period 1956-1968 and 1982 to the present correlate fairly well. The minimum number of quiet days occurs 2-3 years after the sunspot maximum, while the maximum number of quiet days occurs 1-2 years after the sunspot minimum.

The correlation between the number of active days ($A_p > 15$) and the sunspot number is shown in Figure 8. With the exception of the mid-1970's, the maximum number of active days occurs 2-3 years after the sunspot maximum year.

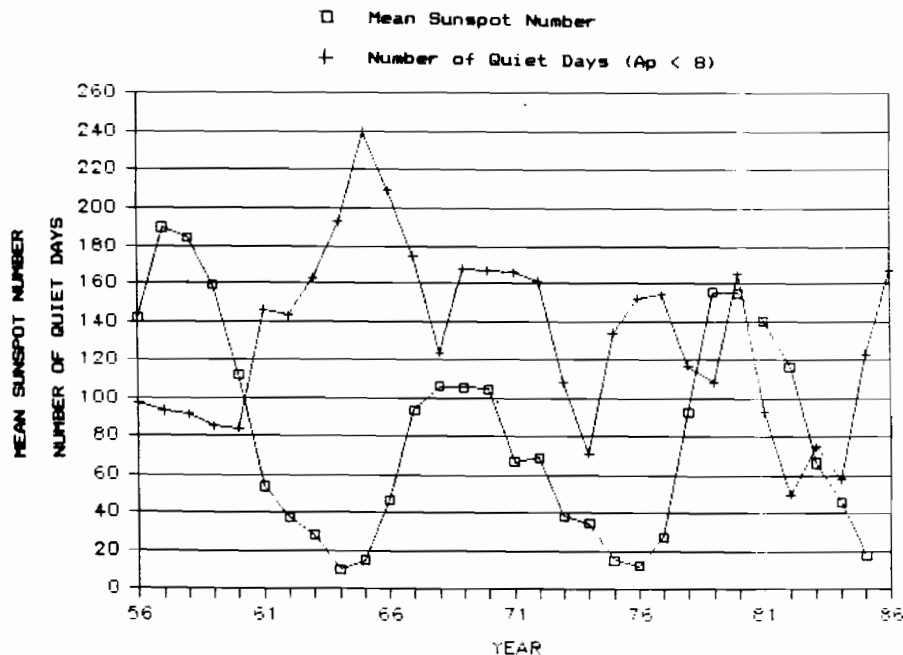


FIGURE 7. Number of Quiet Days vs. Sunspot Number.

□ Mean Sunspot Number
+ Number of Active Days ($A_p > 15$)

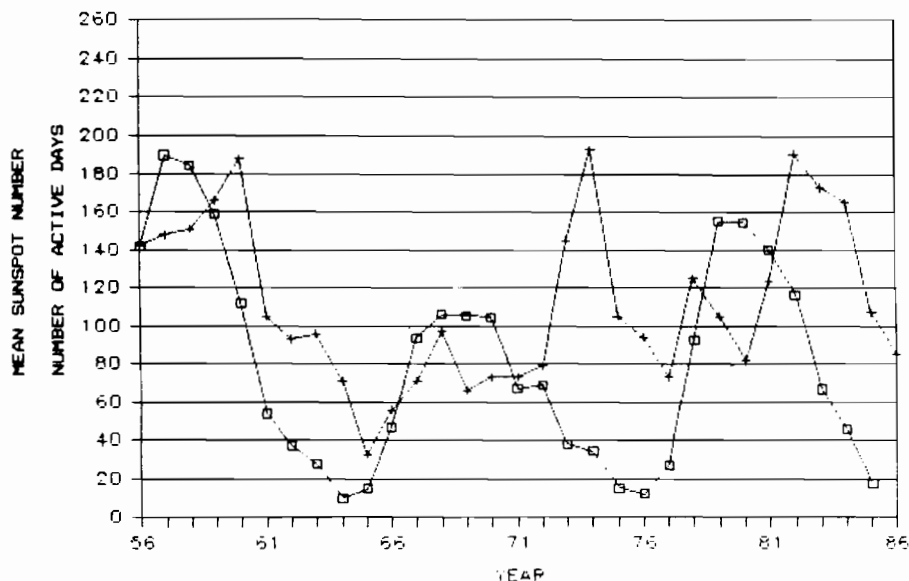


FIGURE 8. Number of Active Days vs. Sunspot Number.

It is evident that "something happened" in the mid-1970's. The sunspot number plot in Figure 8 indicates that the maximum number of sunspots occurred in 1968-69, with a monthly mean of 106 in those years. The minimum occurred in 1976, with a value of 13. 1973 and 1974 appear to be anomalous, with a higher than expected number of active days and a high mean A_p index in a time of declining sunspot number. There is no obvious explanation for this anomaly.

The year 1980 is interesting - it was just after the sunspot maximum, yet it had a high number of quiet days and an unexpectedly low number of active days. The years 1969 through 1971 show a similar occurrence.

The average A_p value for the years 1956 through 1986 was 15, which is the "break point" between "disturbed" and "active" geomagnetic field. The months with the highest average A_p during this period were April and September, while the months with the lowest average were December and January.

Over the period 1956-1986, Table 1 indicates that the highest number of consecutive days with a quiet geomagnetic field (A_p of 7 or less) was 19 in 1965. The longest period without an active geomagnetic field (A_p index of 15) or less was 59 days in 1964, with 54 in 1966 and 49 in 1987. Clearly, it is too much to expect periods of more than two weeks with a quiet geomagnetic field, or periods of more than one month without an active field. On the other hand, 1958 saw a 25 day period when the A_p index was over 15 and the geomagnetic field was active. It is common to have some periods of 3-6 days with an active field even in low sunspot number years.

I also got on the mailing list for the "Geomagnetic Indices Bulletin" published by the National Geophysical Data Center in Boulder, Colorado. This bulletin provides the daily K_p , A_p (Planetary A), A_{FC} (Fredericksburg, VA A index) and other indices for each month.

TABLE 2. Planetary A Index for 1986.

ths	Jan 31	Feb 28	Mar 31	Apr 30	May 31	Jun 30	Jul 31	Aug 31	Sep 30	Oct 31	Nov 30	Dec 31	Year 365
1	25	5	18	8	5	15	7	6	9	7	13	13	
	18	6	12	5	43	8	13	5	16	23	6	8	
	10	6	12	14	40	10	8	19	7	9	16	6	
5	5	5	8	4	17	7	7	20	7	7	67	7	
	4	7	8	9	17	5	7	9	9	19	20	4	
	20	11	32	4	67	6	5	6	8	12	12	4	
	32	82	33	5	12	12	4	4	5	5	6	6	
	11	202	23	5	7	7	6	7	5	6	4	4	
	14	100	5	13	5	7	6	10	6	6	3	6	
10	11	10	2	19	6	13	6	6	6	3	5	12	
	4	20	2	6	6	6	4	7	16	4	14	8	
	5	18	7	10	7	6	6	10	89	2	9	4	
	3	15	21	5	4	6	7	10	22	28	5	12	
	4	19	8	4	3	6	4	5	12	31	5	20	
15	5	5	8	7	4	5	4	6	18	14	12	4	
	3	5	6	8	7	5	5	4	7	6	11	12	
	6	9	6	6	8	8	8	5	14	6	8	5	
	7	14	8	7	5	9	6	3	20	13	6	6	
20	7	9	9	11	8	5	4	4	21	21	4	6	
	6	17	3	5	5	6	3	15	18	14	5	7	
	15	26	17	7	6	6	6	29	11	11	3	11	
	11	30	22	11	3	8	7	29	4	6	2	14	
	17	35	11	10	8	5	5	25	43	5	12	22	
	12	19	21	12	7	7	15	22	22	2	46	10	
25	26	18	27	7	10	3	17	17	26	4	49	11	
	12	26	12	7	8	5	20	12	27	3	17	14	
	37	20	18	4	7	28	16	13	20	16	9	9	
	30	25	14	11	3	18	9	12	13	9	5	3	
	19		8	9	4	11	17	22	13	15	10	3	
-30	14		5	5	10	9	11	27	5	14	14	4	
	8		7		17		12	16		6		7	
	401	764	393	238	359	252	255	385	499	327	398	262	4533
Mean	12.9	27.3	12.7	7.9	11.6	8.4	8.2	12.4	16.6	10.5	13.3	8.5	12.4
Median	11	18	8	7	7	7	7	10	13	7	9	7	
$A < 8$	11	7	9	17	18	18	20	13	9	16	13	16	167
$7 < A < 16$	10	6	12	12	7	10	7	8	8	9	11	13	113
$A > 15$	10	15	10	1	6	2	4	10	13	6	6	2	85
ConA<8	10	5	4	3	9	6	13	6	4	6	5	7	13
ConA<16	15	8	7	21	24	26	26	16	8	7	18	17	26
ConA>15	3	10	3	1	5	2	3	5	5	2	3	1	10

The A_p index values for 1986 are shown in Table 2 as a function of month and day. The mean A_p , median A_p , the number of quiet days (A_p between 0 and 7), disturbed days (A_p between 8 and 15), and active days (A_p greater than 15), and the maximum number of consecutive days with quiet, disturbed or active, and active days are tabulated for each month. Table 3 shows the same data for 1987 up through July, which is the last month I have available. I have tabulated data for 1972 through 1986 in this same format, available as part of this article from the radio club publication center.

Table 4 presents the 1986 and 1987 A_p index data in 27 day cycles rather than by months. There are some recurrent periods of high geomagnetic activity, but most last only 2 or 3 cycles at most. Some do not recur at all, and some skip one or more months (perhaps because the flare activity was reduced during that cycle). It should be noted that these years are at the sunspot minimum, so the recurrent effects may not be as apparent. Review of the data for 1982 (a high geomagnetic activity year) shows some recurrent patterns of more than 6 27-day cycles.