

★ ★ ★ DX MONITOR ★ ★ ★

PUBLISHED BY
THE INTERNATIONAL RADIO CLUB OF AMERICA

JUNE 8, 1974 VOLUME 11 NUMBER 32

BROADCASTING INFORMATION (as compiled by Mike Worst)

From the April 22 to May 20 issues, and the CRTG.

new 600	1-U	North Pole, Alaska	CP
new 710	½-U	Tracy, Calif.	CP
WEPA 710	½-D	Eupora, Miss.	start operation
new 720	5-U	Agana, Guam	CP, granted KATB
new 840	½-U	Yabucoa, P.R.	granted WXEW
new 850	10-D	Houston, Tex.	requests KEYH
KSDN 930	1-U	Aberdeen, S.D.	renewal rescinded
WOZN 970	1-D	Jacksonville, Fla.	start operation
new 1000	1-D	Hackettstown, N.J.	CP
new 1070	1-D	Tallahassee, Fla.	granted WANM
new 1080	10-U	Anchorage, Alaska	requests KANC
WBIE 1080	10-D	Marietta, Ga.	" WCOB
new 1090	1-U	Plainview, Tex.	granted KKYN
KPNG 1150	½-D	Port Neches, Tex.	" KSUZ
new 1190	½-D	Pine Castle - Sky Lake, Fla.	CP
new 1230	1-D ¼-N	Goose Bay, Lab., Nfld.	CP
new 1240	1-D ¼-N	Bancroft, Ont.	CP
new 1270	5-D	Charlevoix, Mich.	granted WVOY
KWHI 1280	1-D	Brenham, Tex.	requests KTTX
WEIF 1370	1-D	Moundsville, W.Va.	to 5-D
new 1380	½-U	Lebanon, Va.	granted WLRV
new 1400	1-D ¼-N	Clearwater, B.C.	CP, // GHNL-610
new 1400	1-D ¼-N	Pagosa Springs, Colo.	granted WPAG
new 1400	40w	Baie Verte, Nfld.	CP, // CBY-990
KJCH 1410	½-D	Cleveland, Tex.	start operation
CJMT 1420	1-U	Chicoutimi, Que.	to 10-D, 2.5-N
WRSD 1430	½-D	Homestead, Fla.	requests WQDI
new 1430	½-D	Buffalo, Ky.	" WLCB
CJOI 1440	1-U	Wetaskiwin, Alta.	to 10-U
WJAB 1440	5-D	Westbrook, Me.	requests WJBQ
new 1450	40w	Armstrong, Ont.	CP
new 1470	1-U DA	Bagotville, Que.	CP French
new 1490	1-D ¼-N	Milton, Fla.	CP, fax of WRSA
WKAX 1500	1-D	Russellville, Ala.	start operation
new 1500	5-D	Clarksville, Ga.	granted WIAF
WYAZ 1520	¼-D	Yazoo City, Miss.	start operation
WHRF 1570	1-D	Riverhead, N.Y.	requests WRCN
new 1600	1-U	Bedford, Pa.	" WAYC

The following are applications for carrier current stations, listed only for the record.

new 660	20w	Halifax, N.S.	St. Mary's U.
new 660	20w	Windsor, Ont.	U. of Windsor
new 700	20w	Charlottetown, P.E.I.	U. of P.E.I.

GEOMAGNETIC INDICES

May 15-21	19	23	35	24	16	19	18
May 22-28	17	21	28	15	10	14	10

Radio conditions are expected to be moderately disturbed between June 12-14.

What's inside

Mike Hardester's verie from the U.S. Park Service
Updater on the Baseball List-- Ed Krejny
Variations in the Ionospheric Gyromagnetic Frequency and Effects
on MW Propagation-- Gordon P. Nelson
Contest Standings-- Michel Breger
Final Convention News-- Bruce Portzer

CONVENTION INFORMATION

ANARC-- Bronxville, NY, July 5-7 on the campus of Concordia College. Registration fee of \$35 includes 5 meals plus banquet. Room fees (additional) will run about \$10 per night double plus \$5 meeting room fee. For additional information or reservations, write ANARC Convention Committee, P.O. Box 501, Bronxville, NY 10708.

IRCA-- July 19-21 Seattle, WA. See last page for information.

CIDX-- Winnipeg, Manitoba, August 3-4. Canadian International DX Club will hold its convention on the U. of Manitoba campus. Write University of Manitoba DX-SWL Club, Room 515, Box 131, University Centre, Winnipeg, Man., Canada.

NRC-- Toledo, OH, August 16-18. Ramada Inn, Perrysburg, OH. Write Frank Merrill, 1560 Brooke Park Dr., Apt. 8, Toledo, OH 43612 for information.

CHAP-- August 31, Kingston, Ontario. The Candadian Handicapped Aid Program will meet; registration is \$2.50. For information write CHAP Get-together, 4375 De Lorimier Ave., Montreal, Quebec, Canada H2H 2B3.

Even though you might not be able to make it to the IRCA convention, try to get to a DX convention in your area. You'll be welcome and you'll find it a good time. Incidentally, Al Reynolds, in the ANARC Newsletter, quotes Wolfgang Scheunemann West Germany as saying "To us in Europe the ANARC Convention looks like an ordinary club-meeting... a normal meeting of some DXers, talking a little bit together, but also visiting some near-by radio stations..." Perhaps, on European standards, the DX conventions in North America are more social gatherings than anything else, but club business generally does get accomplished at such gatherings.

FLASH TIP

Dave Schmidt reports new WHPY-1590, Clayton, NC has been noted evenings ETing between 0130 and 0230 EDT, with a very strong signal in the New Castle, DE area.

eastern dx roundup
Editor: Mike Mlock,
975 Osborn Ave.,
Lorain, OH 44052

Nothing received by press time. FJP.

central dx roundup

Editor: John C. Keleher,
Box 7543, Fairfield Stn.
Fort Wayne, IN 46807

THE HAT TIPPED THIS WEEK TO:

PB - PHILIP BOERSMA, 15570 Cleveland Street,
Spring Lake, MI 49456
(Panasonic RF-1600, 60' LW)

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JDF - JAY FLORIAN, WDX9KIK, 300 East Main St., Round Lake, IL 60073 (Panasonic RF-5000a, 70' x 15' inv. "L")

MAH - MIKE HEPPE, Box 7, Houston, MS 38851 (Hammarlund SP-600-JX, SM-1)

AWO - AL OGRIZOVICH, 3836 Sleepy Hollow Lane, Fort Wayne, IN 46804 (Allied A-2515, SM-1)

JTP - JIM POGUE, 11 University St., Apt. 3, West Lafayette, IN 47906 (Zenith Royal 7000-1, SM-2)

JWW - JOSEPH WOODCOCK, 5423 Woodland Ave., Western Springs, IL 60550 (Drake SPR-4, SM-1)

JCK - Ye editor, (XCR-30, ferrite rod, preamp)

580 WKTY WI LaCrosse, 4/29 0600, s/on with local and intern. Nx, fair w/QRM (JDF)

600**WTAC**MI**Flint, 5/13, ET w/ID 0254, then "Show must go On" (JCK)

610 WDAF MO Kansas City, good w/oldies 0244 5/13. Normally NSP WIP app.off

620**WETE**TN**Knoxville, TT w/ID (JCK) 0350 5/13 (JCK)

710 WHB MO Kansas City, finally hrd w/R&R and cash call 0617 5/2, fair signal w/WGN splash (JDF)

730 WXMT WI Merrill, 5/3 2055 w/G&W Mx, Wx, in WGN slop (JDF)

740 KTRH TX Houston, 4/30 0627, Nx, Wx, sports, ads, o/KRMG, fair (JDF)

790 KFYO TX Lubbock, 5/2, 0630, s/on with "This is My Country," then farm pgm, o/WTAR and WBEM slop (JDF)

850 CKVL PQ Verdun, fair 5/13 0155-58, u/KOA w/FF Nx (PB)

860 KWPC IA Muscatine, 4/29 2045 s/off, R&R Mx, Mutual Nx, fair w/no QRM. Quick verie (JDF)

KONO TX San Antonio, good w/R&R Mx and jingles, o/QRM, 0643 4/29 (JDF)

910 WLCS LA Baton Rouge, fair 5/1 0224-31 w/Project Hope PSA, Nx, R&R(JTP)

940 WCIT OH Lima, 4/29 0620 w/C&W Mx, fair signal o/QRM (JDF)

950 WSPA SC Spartanburg, pgm interrupted by CBS Red Alert bulletin, ID, then back to Mx, good, 2330 5/1 (JWW)

970**WAMV**VA**Waynesboro, on f/c w/good signal, no QRM, 0543 4/29. Reported(JDF)

980 CFPL ONT London, good-fady w/Nx, then R&R 0204 5/27, o/u WONE (AWO)

1000**KKIM**NM**Albuquerque, test and frequency meas., ID and slogans, very good 0209 5/6 (JWW)

1050 CJIC ONT Sault Ste. Marie, 5/2 0547 w/ads, IDs, u/CHUM, weak (JDF)

1090 KNWS IA Waterloo, ending religious pgm, Wx and s/off 2129 5/9 (JCK)

WISS WI Berlin, 4/27 2045, C&W Mx and s/off, weak but o/KAAY (JDF)

1100**WGPA**PA**Bethlehem, all alone after DX test w/R&R Mx, DJ taking calls and asking for reports. Lost 0338 to netting LA (PB)

1190 KLIF TX Dallas, finally hrd way u/WOWO, w/R&R, jingle, 0542 4/30 (JDF)

1220 WSLM IN Salem, 5/3 2001, s/off, no SSB, fair w/WGAR QRM (JDF)

WAVN MN Stillwater, all alone after WKRS s/off, good sigs, 2001 4/30. Light Mx, ads, Wx, temp.63 (JDF)

WGAROH**Cleveland, off 5/20, ID then OC 0300, anncd power as "Fifty Million Milliwatts" (JCK)

WERT OH Van Wert, 4/30 0659 w/Seven O'Clock Nx, blasted by WKRS 0700. Mentioned FM (JDF)

CHSC ONT Saint Catharines, good 5/6 0219 w/jingle and C&W, u/WGAR (PB) w/promo for Sat. A.M. pgm, then C&W, 0250 5/20 (JCK)

1250 CHWO ONT Oakville, all alone w/exciting new contest about guessing the weight of a St. Bernard, 0311 5/14. Sounded like a record played over and over (JCK)

WREN KS Topeka, 5/6 0315-30 o/u UnID, w/MOR, 2 guys at the mike, PSAs, SID 0330 (PB)

1320 WKIN TN Kingsport, exlnt 5/16 0250 w/ET and full ID (JTP)

1330 WBTM VA Danville, "Conducting a xr test" then nothing else hrd, 0337 5/12 thru WFBC (JCK)

1400 WMBC MS Columbus, 4/19 1445 w/Ole Miss BB, Sears ad and ID on hr (MAH)

WNAG MS Grenada, 4/19 1448, ID with freq. given. News on hour (MAH)

WYSL NY Buffalo, 5/13 0220, fair o/mess for moment w/ad and jingle (PB)

1410 WDSK MS Cleveland, 4/19 1434 w/slogan "Delta Country Music," off the air 1440 for tech. adj., back on 1445 (MAH)

1420 WTCR KY Ashland, good 5/2 w/ET 0150, ID 0200 (JTP)

WSUH MS Oxford, 4/19 1430, ID and WSUH Nx, 1435 "Ole Miss Campus Nx," R&R Mx (MAH)

1440 WSEL MS Pontotoc, 4/19 1428, "W-Sell-Radio" ID, then swap shop, 1430 "Town and County Radio" ID (MAH)

1450 WVON IL Chicago, 0203 good o/KLWW w/PSAs mentioning Chicago (PB)

KLWW IA Cedar Rapids, good 5/6 0155-58 w/Nx For Iowa (PB)

WROX MS Clarksdale, 4/19 1421, ID "WROX Clarksdale," u/WROB (MAH)

WROB MS West Point, 4/19 1414, Bulletin Board and Air Force PSA (MAH)

1460 WPNX AL Phenix City, 4/20 0415 w/ID and Wx, WXOK nulled (MAH)

WXOK LA Baton Rouge, 4/20 0418 w/soul music, Bobby Womac, under WPNX, KSO and mess (MAH)

WELZ MS Belzoni, 4/19 1330, w/Trading Post, Gospel Mx 1345. Seldom IDs except as "Belzoni Radio Mx" Jackson, 4/19 1348, (MAH) Wx for Jackson, "Big Jack Radio" slogan, R&R Mx (MAH)

1470 WNAU MS New Albany, 4/19 1330, full ID and WNAU headline Nx (MAH)

WOHO OH Toledo, 4/20 0400, Nx u/WVOL (MAH)

WVOL TN Berry Hill, 4/20 0400, Nx and "Little Egypt" song, 0405 Wx, o/WOHO and mess (MAH)

1480 WTHI IN Terre Haute, 4/20 0350, WTHI SID, R&R Mx (MAH)

WNQM TN Memphis, 4/19 1320 pop Mx, 1324 cattle feed commercial (in Memphis??)(MAH) (Well, WGN does that sort of thing in Chicago around noon--JCK)

1490 WTUP MS Tupelo, 4/19 1300, ID "WTUP, Tupelo, Top Dog," then Paul Harvey Nx (MAH)

1500 WKAX AL Russellville, 4/18 1450 w/spot for 1st Nat'l Bank of R-ville, 1500 full ID and Nx (MAH)

WDEBMI**Detroit, exlnt 0300-03 on 50kw ET-OC w/ancmt to that effect(PB) Sherbrooke, good 5/6 0303-30. All alone w/FF Nx, FF-BE R&R (PB)

1510 CJRS PQ Marks, 4/18 1420 w/ID, "Town and Country Radio, WMQA" and Western Auto Spot 1425 (MAH)

1520 WQMA MS Calhoun City, 4/18 1415 w/Nx, 1418 C&W, jingle "All Corn-try" Greenwood, 4/18 1357 (MAH) w/Forest Fire PSA, 1400 Ac Nx, difficult IDs sound like WXWG

WABQOH**Cleveland, good on (MAH) ET w/soul, 0305 5/13 (AWO)

WRCPPA**Philadelphia, good on ET w/oldies 0246 5/13 (AWO)

1550 WAAY AL Huntsville, 4/22 0200, ID and jingle, "24 hrs a day, solid rock" (MAH)

KKHI CA San Francisco, 5/13, u/WAAY and static w/Nx 0250, s/off w/SSB 0257 (PB)

WSAO MS Senatobia, 4/18 1300, ID and local Nx, 1315 livestock report, "Serving Hernando and DeSoto Counties" (MAH)

1560 EDJA AR Duman, 4/18 w/Rx for SW Ark., Ark. Radio Net Ex 1300, weak but steady (MAH)
 JBUE ?? UnID at 2100 s/off, 5/6. New stn or call change, good o/IDXR
 1570 JIBO IH Franfort, 2044 w/Rx, /((JDF) TC, poor o/WBBL, 5/3 (JDF)
 WONA HS Winona, 4/18 1244, spot for Bigly Higdly store, Jx, "Farm Service Program"1246,o/WIII(MAH)
 ???? ?? Freq. test 4/19 0220, TT till 0230, 33 or NW of here, XRRF nulled slightly (MAH)
 1580 WCLS GA Columbus, 4/19 0215, w/WLS style IDs, o/WLCO, IDs often (MAH)
 WALLY HS Anony, 4/18 w/CBWL Ex 1235. Rx at 1245 and spot for Liberty SCL. Good signal, distinct ID(MAH)
 K??? ?? Heard just "K" then mess of BRU at s/off 2115 5/6. Got any ideas? (JDF) (Yes, about 7-JCK)
 1590 WAER OH Akron, 4/19 0130, WAER Hx and Jx, good signal w/R&R Hx (MAH)
 KYOK TX Houston, 4/19 0135, KYOK ID w/WAER, R&R Hx (MAH)
 1600 WBUF AL Huntsville, 4/18 1150, WBUF ID in under WDL, first thought it was local WBUF spur. 1155, full ID and Hx w/WDL nulled (MAH)
 WAPX AL Montgomery, 4/18 2148, soul Hx, frequent IDs, Nat. Black Net, Hx 2200, strong o/KATZ (MAH)
 KLEBLA** Golden Meadow, 4/19 0100, f/c w/TT, weak, ID 0113 (MAH)
 WKDL HS Clarksdale, 4/18 1148, spot for Kroger grocery, jingle, "Good Morning from sweet 16, WKDL"(MAH)
 KATZ HO Saint Louis, 4/18 2145, ID and Dial soap spot (MAH)
 WKBJ TN Milan, 4/18 1213, Colonial Fabric Shop spot and JID, WKBJ w: 1215 (MAH)

JUNE 8, 1974

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keep records of QSL sent or rpts rec'd, oh well. I think I have figured out why I haven't gotten a TA, it's because I have a hill to the N. cutting off all skips that are below about a 20° angle! Someday I'll have to go to the top of the hill w/my rx & antenna and see what I can do. 73

Brian Cartwright - 106 Leila - Johnstown, PA 15905
 Hi all. DX slow. Ended up w/9 stns hrd in April, bringing totals to 1606/47/8/27. Can't remember veries off-hand, would like to hear from my tapersponders, nothing since Feb. WKQQ-1580 (pirate) might be on in a few months, depends on finances. They are about a mile from me. WGIC-1500, WIOI-1010, & WIRV-1550 hrd on for tornadoes. About done, let's hear from some SCers. I got original WONG(2 copies), about 8 13qs, gotta get some more soon. 3s & 8s to all.

Ray Arruda - Brant Point Motel Apts. Nantucket Island, MA - 02554

I am out here to work during the summer months. The population here swells from 4000 to 50,000 w/the summer influx of tourists, so things get quite busy. Won't be doing much DXing until Sept. now. Just recently joined the NRC. They are a good club but IRCA is also, & I will remain w/both for a long time to come. Recent end of season veries are: CBJ, WFJD, CKAC & WNDB for DX Test. Also a verie back from WBRI for the Nov. Test of last year (sticker & religious info too.). Caryl Flood CE of WBRI says in a note at the bottom of the verie that he believes that my rpt was the most distant. 73

Larry Flegle - 1004 E. Powhatan - Tampa, FL 33604

Every so often a re-intro is good. I'm 25, married, no children, and a native of FL. I was a DJ from '64-'68 and 1973 and my degree is in broadcasting. I DX w/a R388/URR Collins, DX-120, TRF &, get this, an Atwater-Kent Model 55. I have built a room on to my house just for my hobby of DXing and radio receiver and old program collecting. Recent verie in KARN for a rpt dated 11/1/72. See, there is always hope. O.K. gang, remember, the best DXM is one supported by every member. 73s.

~~~~~Editor: John Zondlo  
**central dx forum** 6617 Maryland  
 Hammond, IN 46323

Mike Hogan-4811 Euclid-East Chicago, IL 46312  
 Well, not too much DXing done the last 6 weeks due to (you guessed it) final exams and last minute class work. Now I will have 3 static filled months to DX, ain't I lucky. Maybe for the DXers sake our summer vacation should be in the winter- November, December & January, less static and better DXing. Well, that's enough for dreams. As it was mentioned in the last DXM, start arranging DX tests now for the coming DX season. It would be a great total booster for any novice DXer to hear a station on a DX test. Maybe next time I'll have some DX to report. 73's and good DX.

John Zondlo-6617 Maryland-Hammond, IN 46323  
 Greetings. Linda skimpy month for reports. Bet most of them wound up in Luncie. Better watch a little closer for address changes gang. Shall see y'all in a month or so.....

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 PER THE LIST: 4th Mon KLEO-1480-KS (AWO)  
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At last the mystery veries can be revealed, they were KCBS-740(EE), PJG2-855(DD), and CBJ-1580 (FP). Phil Boersma gets the consolation prize for saying he at least tried to guess what they were. Well, the time has come for my yearly verie list so here goes: v/q or v/c WBCK WISH WJPE WNOE KHON CKWS WCAU WERO WTOP KLRA WJW WINS WIND WBT WKIQ WAVE WREX WJSH CJBC CHYR WOC WQXR WFOB WPAR WPRR 4VBC WIBC WAER WKAZ WIMS WPIR WNBC KHHI KFBK WTVN WJBS WFBL WAC. v/l or v/f KATZ WBNS WMBL KLTR WJQM WDXR CPTX WHUT WATI WFDX CHAK WRYH WYLO WKOG WNBZ WIMA WSTR WKIM WVNA KLOA WROV KSKY WNAH WBUS KOTA WPIT, v/ppc WCHS WOKK WMLD WHK, v/r KJLT WELX. Hope there's none repeated in there. That's it for awhile and everybody have a good summer-JCK

~~~~~**western dx roundup**~~~~~  
 Editor: Jeff Brasler,
 10341 Shirley Ave., 91324
 Northridge, CA

Nothing received by press deadline. FJP.

~~~~~**eastern dx forum**~~~~~  
 Editor: Bruce R. Heimbarger

817 Rawlins St. - Port Huron, MI 48060

Jim DeYoung - 1514 Greenbrier Dr. Huntington, WV 25704

Greetings from almost heaven-WV! April was a good month for me w/25 new stns & all but 2 of those were hrd after the 17th. Veries since last DXF are: v/qs-KFBK, WCHS, WGNT, & WSAI for DX Test. V/lS-WPIT & WKEE. My totals are now 467/15, 35/11, 3/0, 10/1. A big thanks goes out to all who have written me, now that school and finals are over maybe I can write you all back. WGNT s/off SMS is now 0000, not 0100; s/on is still 0600. I've had no luck in obtaining lists of people who have QSLed my local stns, most stns around here don't

~~~~~**western dx forum**~~~~~  
 Editor: Michael G. Worst,
 4618 Fremont N., #104
 Seattle, WA 98103

Hi gang. Be sure to note the change of address above. Shouldn't be any trouble with the mail service as it's the same post office, and they seem to know me for some reason or other. Also all members coming to the convention be sure to have your reservations in to the hotel by June 28, or three weeks ahead of time. They say it's due to the influx of tourists going to the Expo in Spokane. See you here! 73

Albert S. Lobel, P.O. Box 1818, El Cajon, CA 92022

It's been a while since my last DXF report so I thought it was about time for another one. DX has been great. Recently joined NRC to make three DX clubs (IRCA, NRC, & Radio Canada Shortwave Club). The Sanserino Loop I purchased recently is working just great. I'd recommend the Sanserino Loop to anyone. Ralph really does a great job at making them. Not much else, so, 73's and good DX.

Wm. Larry Cowles, 362 W. Marcus Drive, Tucson, AZ 85706
DX has been almost nil with only three new ones for April and nothing by the middle of May. Veries still come, mostly as a result of a f/up campaign: v/l CKDA KWFT KLPR KERE KTIM KDLT KRZE KGLV. v/q KARN KIOE KRKE WNDR CKRD. v/pp KUTY. v/c KSYL. v/r KVOV. This gives me 92% verified of stations I have tried. Not too bad but it was the result of many tries for some of them. Till next time, 73's

Jon E. Pearkings, #305 Polaris Apt., Site 11, Box 1, Yellowknife, N.W.T. XOE 1HO

Hi! Please don't think the above address is a joke, it isn't and it is permanent. Yes, after 21 1/2 years from a residence near Vancouver, I have moved north east to Yellowknife. I doubt whether I will get much DX done until August or September. As Paul Daplyn has mentioned, a few hours of darkness is not enough to allow a decent sky wave. My four years of UBC are over and I finally have a job that will allow me to support myself (and my HA-230) working in Administration as a Computer Programmer for the Govt. of NWT (no longer run by the feds). 73 and Good DX!

Gary Parton, 15115 Parthenia St., #173, Sepulveda, CA 91343

Hi! This is my first time in the forum. It's time for an intro. I'm 20. Working full time right now, but in the near future I plan on going into radio broadcasting and engineering. I think that this is the finest DX club in the country. You always get the best information on what is going on with AM stations. It's well worth it being a member of this fine club. My goal is to be an announcer for an EZ listening station where I do the news, sports, weather and engineering. I work the best with that type of format. I've had my own show on an FM College station up in Los Altos Hills, Calif. The station is at Foothill College. It's a great experience when you have your own show.. My favorite station for all-news is KCBS NEWSRADIO 74 up in San Francisco. For EZ listening it's KABL-960 Oakland-S.F. I'm still not quite a year with the club, but you're welcome to write and/or send a cassette to me and I'll tape any of our locals that you would like to hear. What I meant by not quite a year with the club is that I have never let anyone know that they are welcome to write or send a cassette since I've been a member. I would also like to send tapes to you and let you know what station in your local area I'd like to hear. Like to hear from everybody soon! 73's in '74. By the way, I'll be renewing my membership soon...

Bruce Portzer, 14056 5th Ave. S., Seattle, WA 98168

Hi gang. Lately I've been listening for listed F/C's. If I hear a weak tone and voice IDs are unreadable, I blow a buck or so, call the station, and ask them to put in code IDs or breaks in the tone to confirm it's them. So far I've called KGIN-1280, KGIW-1450, KWAY-1470, and KABR-1420. All four were very cooperative and except for KGIW, whose report is still in the mail, all verified promptly. A bit expensive but an easy way to nab those rare catches where QRM would otherwise prevent a definite ID. Does anyone know how long it takes to get a Broadcasting Yearbook? I ordered one several weeks ago and so far all I've gotten back is a cancelled check, hi. The convention is drawing nearer, so start making plans to attend, if you haven't already. Convention info appears elsewhere in DXM. This is IRCA's tenth anniversary convention. We're trying to make it an extra special event so don't miss it. A good time is guaranteed for all. Convention planning is turning out to be a very educational experience. Mike and I will have a lot of advise to pass along to those planning future conventions. Hope to see a lot of you July 19 - 21. 73 and good DX. SEATTLE 74, COLUMBUS 75, HOQUIAM 76.

PATCHES

Larry Flegle reports that "DXing, I love you" patches in red, white and blue are available from Wes Ogden, P.O. Box 283, Bell, CA 90201. Larry didn't indicate the cost.

COVERAGE MAPS

Jerry Robertson 6065 Gardner Lane, Croswell, MI 48422, is interested in trading coverage maps and tapes. Send for a list of originals and Xerox copies available for trade.

United States Department of the Interior

NATIONAL PARK SERVICE
SEQUOIA AND KINGS CANYON NATIONAL PARKS
THREE RIVERS, CALIFORNIA 93271

May 13, 1974



HM3 Mike Hardester, USN
U. S. Naval Hospital
Box 89
Lemoore MAS, California 93245

Dear Mr. Hardester:

We are happy to learn of your interest in Sequoia and Kings Canyon National Parks. Attached we are returning your completed verification card.

Two low-power communication transmitters operate in Sequoia and Kings Canyon National Parks, one at the Ash Mountain Entrance Station, and the other at Big Stump Entrance Station on Highway 180.

The Federal Communications Commission permits unlicensed low-power communications devices on any frequency in the band 510-1600 provided the field strength does not exceed 24,000/F (KHZ) UV/M at 100 feet. Yellowstone National Park operates about 40 stations of this type.

Future plans are to increase the output up to 10 watts and transmit on 530 and 1606 KHZ, or just below and above the broadcast band. Tests are now being performed and these should be operational within the next year.

Ultimate plans would include the radio manufacturers marking the dials with an informational symbol and nationwide information being provided such as, freeway conditions, weather information, as well as, interpretive and safety messages.

We are glad you enjoyed your visit to the Parks and hope you return often,

Sincerely yours,

Robert J. Smith
Robert J. Smith
Acting Superintendent



Let's Clean Up America For Our 200th Birthday

SEQUOIA and KINGS CANYON NATIONAL PARKS RADIO
CONFIRMATION OF RECEPTION

Call letters: N/A Frequency: 650 kcs

Date: May 5, 1974 Time: 10:30 A.M.

Transmitter: _____

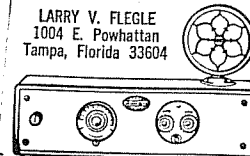
Power: Less than 1/10th watt

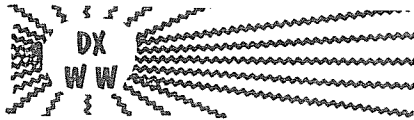
Remarks: This station is a low-power international transmitter.

Please sign and stamp: _____

RUBBER STAMPS similar to the one at the right can be purchased from James Fred, P.O. Box 42, Rossville, IN 46065. IRCA HQ is planning on having a rubber stamp of the club emblem made up. More information later on that.

LARRY V. FLEGLE
1004 E. Powhattan
Tampa, Florida 33604





Ron Schatz § Box 592814 AMF § Miami, FL 33159
AC305-945-4915 § Deadlines: 6/27, 7/25, 8/29, ...
All times are UTC/GMT/Z = EDT+4 = PDT+7

I stand corrected by Bob Foxworth, who informs me that the correct abbreviation for Coordinated Universal Time is UTC, not CUT; trouble is - how does one pronounce UTC? (Hi). § You've heard of "thankless jobs"; this is not one of them. A lot of kind words have come this way re my editorship of DXWW, for which I am both grateful and (pardon the modesty) undeserving. § The "BRE Readouts" offer was highly successful, tho the FIU computer center didn't like my using up an entire magnetic disc for the purpose. The next free-B is likely to be personalised great-circle maps, but no promises.

BBC Monitoring Service

© British Broadcasting Corporation 1974

We are privileged to have exclusive access to this invaluable service, not to be reproduced by other clubs without permission from the BBC, and we are grateful to the American Shortwave Listeners Club for passing it on to us. Format altered and condensed by RFS:

- 529 DDR, Schwerin, "Radio DDR", mostly NSP.
557 DDR, Rostock, "Radio DDR", mostly NSP.
575 DDR, Leipzig, "Radio DDR", NSP.
602 DDR, Karl-Marx-Stadt, "Berliner Rundfunk", 0245-2300.
611 DDR, Schwerin, "Stimme der DDR", NSP.
629 DDR, Greigswald, "Radio DDR", NSP.
647 Ukraina, Simferopol (Krym' Obl.), UU 0300-0410, RR 1540-2200.
656 DDR, Potsdam, "Berliner Rundfunk" & Reg. Pgm. 0300-2300.
692 DDR, Suhl, "Stimme der DDR", 0300-2310.
728 DDR, Berlin, "Berliner Rundfunk", NSP.
746 DDR, Cottbus, "Radio DDR", mostly NSP.
764 Ukraina, Odessa, 0300-2200, in UU when audible in NA.
782 DDR, Burg, "Stimme der DDR", NSP.
845 RSFSR, Moskva (Oblast' HS), 0330-0400.
881 DDR, Berlin, "Radio DDR", mostly NSP.
917 DDR, Reichenbach, "Berliner Rundfunk", 0245-2300.
935 Ukraina, L'vov, 0300-... in UU.
944 RSFSR, Rostov-na-Donu, 2300-2200 in RR.
998 Moldavia, Kishinev I, 0300-0400 in Moldavian (similar to Romanian), 2100-2200 relay Moskva I in RR, 2200-2300 R. Moscow ext. service.
1043 Dresden, DDR, "Radio DDR", NSP.
1052 DDR, Putbus, "Radio DDR", mostly NSP.
1079 DDR, Plauen, "Berliner Rundfunk", 0245-2300.
1115 RSFSR, Moskva (gorod - city), 0300-... mostly relays 845 above.
1169 Ukraina, Lutsk (Volyn Obl.) irr. in UU.
1349 Grusia, Sukhumi, 0200-2100 mostly relaying Tbilisi in Georgian.
1313 c.f. 1448 khz.
1358 DDR, Berlin, "Stimme der DDR", 0245-2300.
.... RSFSR, Moskva III, 0400-2000.
1385 DDR, Bernburg, "Berliner Rundfunk", 0245-2000.
1421 Grusia, Batumi, 0200-... relay Tbilisi.
1448 Moldavia, Kishinev II, 0300-2200 in Moldavian, other times relays Moskva "Mayak". // 1313.
1466 Ukraina, Simferopol, 2300-2200 relays "Mayak".
1546 Seelow, DDR, "Radio DDR", mostly NSP.
1570 DDR, Bornberg, "Radio DDR", mostly NSP.
1586 Moldavia, Kishinev III, relays "Mayak".

Some of the schedules in the original are hard to decipher or are otherwise complex. I tended to ignore schedules and programmes that could not be heard in NA.

ITU Mongolian List

This famous tourist mecca is listed by the ITU as carrying the following medium-wave stations. Take it for what it's worth:

- 527 Ulan Bator 60 kw
535 Tchoibolsan 10
538 Dalantszadagad 10 Easy to pronounce!

- 545 Tsetserlig 10
550 Uburkhangai 10
570 Gobi Altai 10
580 Uliasutai 10
590 Muren 10
605 Ulan Gom 10
830 Ulan Bator 60
990 Ulan Bator 60

Art Peterson copied this list from the 1973 ITU list, which I found to be identical to the 1972 edition. 527 khz looks possible - if it exists.

Sweden Calling DX-ers

Not all the MW info appearing in the SCDX bulletins appear in DXWW. There is limited interest here in NA in 250-watt Pakistani stations, e.g., and much of the info is second hand - or worse.

TCHAD. Radiodiffusion Nationale Tchadienne; B.P. 892; Ndjamena, is reported via QSL as having the following sked on 1169 and 1538 kHz: 0430-0630, 1130-2130, Sat. 0430-2300, Sun. 0430-2130.

The Equatorial Aurora

Many are aware, at least from notes in past bulletins, of the discovery of auroral conditions centered about the magnetic equator. RFS theorises that the phenomenon may be due to the fact that the terrestrial magnetic flux is weakest at this locus on the globe, effecting what might be termed an "anti-aurora". Not all solar particles are swept toward each magnetic pole; a minute amount are "suspended" or "balanced" between the forces of both poles, so they take the "neutral path" to the magnetic equator. Well, at least the theory sounds good, hi. § Somebody ask me about anti-fade antennas.

BOOK REVIEW § Art Peterson

Sun, Earth, and Radio by J.A. Ratcliffe, McGraw-Hill Book Co. available through Gilfer Assoc. for \$2.45 + 25¢ mailing. Anyone who wants to know what forces control the long distance propagation of radio waves & how they operate should read this book. The material is presented about as simply as a thorough discussion of this subject can be presented. The book is a complete study of the upper atmosphere but is not so technical as to be appreciated only by a scientist. The text is written assuming basic knowledge of physics, but for those who lack this (or who need a review) there is a good appendix containing the necessary background for understanding the rest of the book. There are 100 good diagrams & B&W photos to aid the reader in understanding the material. I found this book fascinating, & I recommend it highly to all DXers interested in propagation.

For those inquiring re the next RFS Cuban List, the major source of delay is that the next edition is to be "computerised" as a test sample for a proposed inter-club Latin-American log. The delay will not be long.

DX-Roundup reporters this month:

- Denzil BAKER; Durban, RSA (Trio 9R-59DS, shielded lp.
Melville COFFIN; Whonnock, BC (SPR-4, SM-2)
Richard ECKMAN; Phila., PA (Grundig "Satellit" 210)
Ken HORNE; Vancouver, BC (RCA 816-K, spiral loop)
Albert LOBEL; El Cajon, CA (DX-150A, Sanserino loop)
Art PETERSON; San Pablo, CA (HQ-180, SM-1)
Bruce PORTZER; Seattle, WA (HQ-180A, SM-2)
Richard SHAFITAN; New York, NY (Ameco R-SW, SM-2)
Joe WOODLOCK; Western Springs, IL (Drake, SM-1)

9 contributors, 10 receptions, 9 QSL's - weird!

Report van Suid Afrika

1 new station on the air, per Denzil Baker:

836+ MOZAMBIQUE, loc. unk., Rádio Clube de Moçambique w/EE & PP songs heard here 5/23 at 1900. Apparently a test b'cast. Never heard here before. Will forward more details as soon as



TEXAS RANGERS

820 *WBAP TX Fort Worth

(There is no network)

AMERICAN LEAGUE-WEST

OAKLAND ATHLETICS (Golden Pacific Sports Network)

- 860 KTRB CA Modesto
990 KKIS CA Pittsburg
1110 KPOD CA Roseville
1150 KPLS CA Santa Rosa
1270 KBLC CA Lakeport
1340 KATA CA Arcata
KORV CA Oroville
KBET NV Reno
1370 *KEEN CA San Jose
1380 KTOM CA Salinas
1400 KQMS CA Redding
1430 KARM CA Fresno
1440 KVDN CA Napa
1600 KUBA CA Yuba City

NATIONAL LEAGUE-EAST

NEW YORK METS

- 570 WSYR NY Syracuse
610 WSNL CT Torrington
840 WVPO PA Stroudsburg
930 WIZR NY Johnstown
WCNR PA Bloomsburg
940 WINE CT Brookfield
950 WIBX NY Utica
1050 *WHN NY New York
1110 WSWV NY Seneca Falls
1140 WCJW NY Warsaw
1230 WINF CT Manchester
WHUC NY Hudson
WERI RI Westerly
1290 WNBK NY Binghamton
1320 WSCR PA Scranton
1370 WELV NY Ellenville
1400 WABY NY Albany
1450 WMAS MA Springfield
1490 WDLG NY Port Jervis
WKNY NY Kingston
1510 WNLC CT New London
1570 WFLR NY Dundee
1590 WILZ FL St. Petersburg Beach



PITTSBURGH PIRATES

- 590 WMBS PA Uniontown
600 WSDM OH Salem
990 WVSC PA Somerset
1020 *KDKA PA Pittsburgh
1050 WMSG MD Oakland
1230 WTIV PA Titusville
1250 WLEM PA Emporium
1270 WUDK MD Cumberland
1280 WKST PA New Castle
1300 WWCH PA Clarion
1310 WBFD PA Bedford
WNAE PA Warren
1340 WSTV OH Steubenville
WCVI PA Connelleville
WTRN PA Tyrone
WVPA PA Williamsport
1390 WKLP WV Keyser
1400 WKBI PA St. Marys
WBOY WV Clarkeburg
WKWK WV Wheeling
1420 WCED PA Dubois
1440 WAJR WV Morgantown
1450 WFRPA PA Franklin
WMAJ PA State College
WVGO PA Erie
1470 WFRP PA Farrell
1490 WTRN FL Bradenton
WJNL PA Johnstown
1490 WTCS WV Fairmont
1580 WANB PA Waynesburg



NATIONAL LEAGUE-WEST

ATLANTA BRAVES

(Additional sponsors) Bonanza Sirloin Pits 20-20 Eye Lotion Ticketron



- 550 WGGA GA Gainesville
580 WCAC GA Augusta
650 WSM TN Nashville
750 *WSB GA Atlanta
930 WJAX FL Jacksonville
WSOC NC Charlotte
940 WMAZ GA Macon
970 WVOP GA Vidalia
1070 WAPI AL Birmingham
1130 WMGJ GA Moultrie
1150 WDIX SC Sumter
1170 WCOV AL Montgomery
1230 WSBF FL New Smyrna Beach
WAYX GA Waycross
WBLJ GA Dalton
WXLI GA Dublin
1240 WBBB GA Fitzgerald
WLAG GA La Grange
1270 WTNT FL Tallahassee
1280 WANS SC Anderson
1290 WTOC GA Savannah
WATO TN Oak Ridge
1310 WDKD SC Kingstree
1320 WAGF AL Dothan
1340 WTAN FL Clearwater
WBAC TN Cleveland
1370 WDEF TN Chattanooga
1390 WHMA AL Anniston
1400 WFPA AL Fort Payne
WSGC GA Elberton
1410 WUNI AL Mobile
WLAG CA Rome
1420 WPEH GA Louisville
WRBL GA Columbus
1430 WATP SC Marion
WBLR SC Batesburg
1440 WGIG GA Brunswick
1450 WGPC GA Albany
1470 WBIG NC Greensboro
1490 WETO FL Deland
WMRB SC Greenville
1520 WTLN FL Apopka
1590 WVNA AL Tusculumbia

HOUSTON ASTROS

(Additional sponsor) #Coca-Cola

- 560 KLVI TX Beaumont
580 KALB LA Alexandria
600 KTBB TX Tyler
620 KWFT TX Wichita Falls
710 KGNC TX Amarillo
790 KOSY AR Texarkana
KFYO TX Lubbock
910 KAMD AR Camden
920 KBZB TX Odessa
950 *KPRC TX Houston
1130 KWKH LA Shreveport
1150 WJBO LA Baton Rouge
WTAW TX College Station
1230 KSIX TX Corpus Christie
KWTX TX Waco
1270 KIDX TX Bay City
1280 WGSO LA New Orleans
1290 KRCV TX Weslaco
1310 WRR TX Dallas
1350 KTXJ TX Jasper
1380 KBWD TX Brownwood
KTSM TX El Paso
1410 KNAL TX Victoria
1420 KPFL TX Lafayette
KLUF TX Lufkin
1440 KMLB LA Monroe
1480 KWCV NM Hobbs
1490 WIKC LA Bogalusa



LOS ANGELES DODGERS

- 590 KCMB HI Honolulu
620 KTAR AZ Phoenix
790 *KABC CA Los Angeles



AMERICAN LEAGUE-EAST

BOSTON RED SOX

- 550 WDEV VT Waterbury
560 WGAN ME Portland
580 WTAG MA Worcester
610 WGIR NH Manchester
790 WRUM ME Rumford
WEAN RI Providence
850 *WHDH MA Boston
910 WABI ME Bangor
950 WAGM ME Presque Isle
1000 WLMS MA Leominster
1080 WTIC CT Hartford
1230 WMNB MA Nort Adams
WBME ME Belfast
WQDY ME Calais
WMDU NH Berlin
WTSV NH Claremont
WERI RI Westerly
WJOY VT Burlington
1240 WMKR ME Millinocket
WFTN NH Franklin
WVON RI Woonsocket
1250 WARE MA Ware
1270 WSPR MA Springfield
1290 WKNE NH Keene
WBRK MA Pittsfield
WCAW MA Gardner
WNBH MA New Bedford
WDME ME Dover-Foxcroft
WFAU ME Augusta
WTWN VT St. Johnsbury
1350 WINY CT Putnam
1370 WDEA ME Ellsworth
1380 WKTJ ME Farmington
WBBX NH Portsmouth
WSYB VT Rutland
1400 WILI CT Willimantic
WHMP MA Northampton
WIDE ME Biddeford
WMCS ME Machias
WTSL NH Hanover
1450 WKTP ME South Paris
WLKN ME Lincoln
WRKD ME Rockland
WKXL NH Concord
WTSA VT Brattleboro
1470 WLAM ME Lewiston
1490 WTVL ME Waterville
WEMJ NH Laconia
WFAD VT Middlebury
WIKE VT Newport

NEW YORK YANKEES

- 570 *WMCA NY New York (D-N-W-H)
570 WSYR NY Syracuse (D-N)
790 WYNY NY Watertown (D-N)
840 WVPO PA Stroudsburg (D)
920 WKRT NY Cortland (N-W-H)
950 WIBX NY Utica (N)
960 WEAV NY Plattsburgh (D-N-W)
1230 WINF CT Manchester (N-W-H)
WNIA NY Cheektowaga (N)
1260 WBNR NY Beacon (W-H)
1300 WQBK NY Rensselaer (D)
1320 WATR CT Waterbury (N-W-H)
WSCR PA Scranton (N)
1340 WENT NY Gloversville (D-N)
WMSA NY Massena (D-N)
1350 WRNY NY Rome (D)
1360 WKOP NY Binghamton (D-N)
1370 WALK NY Patchogue (W-H)
WSAY NY Rochester (N)
1390 WRIV NY Riverhead (W-H)
1440 #WJL NY Niagara Falls (D)
1450 WCLI NY Corning (N)
1490 WCSS NY Amsterdam (N)
WKNY NY Kingston (D-N)
1570 WDEW MA Westfield (D)

Note: D - Day games
N - Night games
W - Weekend games
H - Holiday games

8

- 920 KVEC CA San Luis Obispo
- KORK NV Las Vegas
- 950 XEGM BCN Tijuana (Spanish)
- 1230 KGEE CA Bakersfield
- 1240 KBDN CA San Bernardino
- 1250 KTMS CA Santa Barbara
- 1300 KR0P CA Brawley
- 1340 KDDL CA Mojave
- 1400 KREQ CA Indio
- 1440 KUHL CA Santa Maria
- 1450 KPSI CA Palm Springs
- KVEN CA Ventura
- KYOR CA Blythe

SAN DIEGO PADRES



Harris & Frank Men's Stores
Mc Donalds Restaurants

- 600 *KOGD CA San Diego
- 1350 #KCKC CA San Bernardino
- 1400 #KVOY AZ Yuma
- 1420 #XEXX BCN Tijuana (Spanish)
- 1490 #KICO CA Calexico

SAN FRANCISCO GIANTS

(Additional station)

- 1450 #KFLS OR Klamath Falls

This completes the information on major league baseball radio networks.

I'd like to thank the DXers who sent in information. All of this data has been included in this "up-dater".

Note: # Indicates that this information does not appear on the lists provided by the station or the key station, but that it has been reported by a DXer.

Only about forty members have returned the opinion poll which appeared in the May 4 issue of DX Monitor. In general, the majority of those who responded are satisfied with the basic format of DX Monitor. Such features as DX Calendar, BCB Information, Flash Tips, Roundups, Forums, DXWW, according to the poll, should remain the same size or be expanded. A fairly large number would like to see State of the Month, technical articles, and information on the history of radio expanded. There was some feeling that the newspaper clippings which have appeared have had little relevance to DXing and should be cut back.

Undoubtedly some of the clippings were simply filler material. However, we have run such items simply because of a lack of other material. Our budget this year has called for 28 twelve-page issues and six 24-pagers. These sizes were chosen because they happen to be exactly one and two ounces. In a sense it would be wasting postage to send out a smaller size issue. On the other hand, it is an extra cost to print 12 pages if we have only 10 pages of real DX information. So in the future, if we don't have enough worth-while filler, we will send out a smaller bulletin.

What this amounts to, of course, is this: to get your money worth, you have to contribute. We'd love to expand most of the features indicated above; we'd love to run more technical articles (if they're not too difficult) or articles on the history of radio. but we can't if we don't get your writing contributions. The publishing committee doesn't have, for the most part, the time, inclination, or background to write articles on every aspect of DX; it is up to you to fill that gap by sending us articles.

Incidentally, if you haven't sent us your copy of the opinion poll, send it in now. You don't have to cut out the form if you don't want to ruin your issue; just indicate what you would like to keep unchanged, to expand or cut back.

FJP

SWL International is raising dues because of inflation to \$4 U.S., \$3.90 Canadian for first class. They are opening a QSL bureau to save on postal costs, open to all DXers. By accumulating QSL reports and using Canadian postage rates, savings can be accumulated. Reports will be sent to stations approximately three times a month. Minimum number of reports: 8 1/2 x 11 regular mail--2; 8 1/2 x 11 air--3. 5x8 regular--4; 5x8 airmail--5. U.S. DXers send 6c for postage which costs 19c; 8c for those which cost 26c. For clarification, write QSL Bureau, 4375 De Lorimier Ave., Montreal Quebec, Canada H2H 2B3.

This radio station won't skirt the issue

TORONTO (CP) — A group of 18 women, "sick to death" with what they consider the subtleties of sexist propaganda on radio, have banded together to start their own station here.

They hope to go on the air next March—if able to get a licence from the Canadian Radio - Television Commission (CRTC).

Meanwhile, they are learning the technicalities of operating a radio station at a night course at Humber College of Applied Arts and Technology.

Most of the women have gone into the radio course without previous training or experience.

Flo Woods, who, with Judy Gerrard, thought up the idea for Radio Free Women, said that because so few women are in the broadcasting field, Humber's offer to present such a course was a shot in the arm.

"Radio Free Women will come into the category of a community station," she said. "The CRTC has been encouraging such stations but, unfortunately, we found that, as a community group, it hasn't been such a great help to us in organization. We've had to find out things for ourselves, which has been tiresome."

She said the station will run as a collective with women in charge of decision and policy making.

"With Radio Free Women, we want to involve as many people in the community as possible. We don't want divisions such as found in commercial broadcasting corporations. In this project everyone

has an equal say in what we air."

Flo Woods said the station will have to raise \$150,000 to buy equipment.

"We are looking for donations from groups and individuals who see and believe in the necessity of a radio station beamed at women listeners. So far we have relied on a \$9,000 Local Initiatives Program grant from the federal government and donations from the YWCA, United Appeal and a women's group."

The group hopes to operate the station without commercial advertising.

"Now we are trying to figure out how to be financially stable without selling out," said Judy Gerrard.

Programming will include music written, produced and performed by women.

News broadcasts will concentrate on women's news.

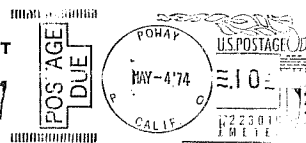
"We'll give Toronto women news and views about their own community," said Judy Gerrard. "We aren't particularly keen on pushing women's lib at the listeners, but naturally for balance there will be programs done on that movement."

The station would be on a low-power with three kilowatts and the group hopes to broadcast 12 to 15 hours a day.

Desmond Lanktree, who sent this clipping, noted that Canadian stations do not operate on 3 kw power as indicated in the article.

UNITED STATES POST

SOUTHSIDE STATION
1123 E. 45 Place
Tulsa, Okla. 74105



OFFICIAL BUSINESS
P-156-B-D

POSTAGE DUE 10¢

CONTENTS
1
FORMS 3579

International Radio
12536 Arabian Way
Poway Ca 92064

This is what we get when you move and don't notify us of your change of address.

Popular Electronics will soon have a regular quarterly SWL column, beginning soon.

WTFDA has a book entitled Beyond Shortwave: an Introduction to TV, FM, and VHF-UHF Radio DX, for \$1 from WTFDA, P.O. Box 163, Deerfield, IL 60015.

*Gordon P. Nelson, Arctic Radio Club

A recent issue of DX MONITOR contained a report of observed variation in the ionospheric gyromagnetic frequency as inferred from MW receptions in Florida. (1) We believe this observation to be incorrect and also wish to question certain statements in the associated discussion on the gyromagnetic frequency in a subsequent issue. (2)

The gyromagnetic frequency is the natural resonant frequency of an electron in a magnetic field as correctly stated in (2). The value of the electron gyromagnetic frequency, which we shall call f_b in keeping with recent USRI recommendations, is however dependent only upon the charge-to-mass ratio of the electron (a universal constant) and the strength of the magnetic field, B, at the point in question. (3)

The value of f_b is given by,

$$f_b = \frac{1}{2\pi} (e/m) B$$

which, when evaluated, gives

$$f_b \text{ (kHz)} = 2.84 * 10^{-2} B \text{ (in Gammas)}$$

Because the strength of the Earth's field varies with both geographical location and with height above the surface, the value of f_b at a height of 105 km (the E-layer) reaches a maximum of about 1700 kHz in parts of Antarctica and a low of about 700 kHz in the region of the South Atlantic magnetic anomaly. A useful map showing the world-wide values of f_b will be found in (4).

At any particular point on or above the Earth's surface the gyromagnetic is usually taken to be a constant for ionospheric research purposes and most definitely cannot vary "greatly" with season or time of day as claimed in (2).

The only possible source of short-term fluctuation in f_b at a particular location is the relatively slight variation in the local strength of the Earth's magnetic field associated with geomagnetic disturbances and related effects. The actual change in the value of f_b is very small even during the most disturbed periods. The undisturbed value of f_b in Florida ranges from about 1340 kHz to about 1420 kHz depending upon location. (4) The geomagnetic latitude of Miami is 38.7° (5) and at that low geomagnetic latitude even the most extreme geomagnetic storm will not produce a range of magnetic variation more than about 600 Gammas. (6) Such an extreme value would be quite uncommon, of course, occurring perhaps once every few years if that often. Since the normal magnetic field strength at Miami is about 49,000 Gamma (corresponding to a f_b value of about 1380 kHz), the largest possible variation in f_b resulting from geomagnetic disturbances would be

$$f_b = \pm 1380 \text{ kHz} * (300/49,000) = \pm 8.5 \text{ kHz}$$

Since the normal daily variation in the magnetic field will produce changes in f_b which are from perhaps one-tenth to one-hundredth of this extreme value, it is obvious why the gyromagnetic frequency is normally assumed to be a constant at any location for purposes of radio effects.

Contrary to statements in (2), not all MW signals are "greatly attenuated at the gyrofrequency". The relationship between the Earth's magnetic field, the gyromagnetic frequency, and MW signal propagation is expressed by the Appleton-Hartree magneto-ionic equations which unfortunately are among the most complex in radio physics. There is indeed a quasi-singularity in the equations which results in almost infinite absorption of signals at the gyromagnetic frequency but this is true only for signals propagating in the magneto-ionic extraordinary mode and in the associated coupled z-mode. The magneto-ionic ordinary component is unaffected at the gyromagnetic frequency which of course explains why there is no conspicuous gap in skywave propagation at the gyromagnetic frequency.

The amount of signal absorption experienced at the gyromagnetic frequency depends in a very complex manner upon path geometry, the angle of the signal path relative to the Earth's local field, the vertical and statistical distributions of electrons and neutral molecule collisions at various heights, and the polarization properties of both the transmitting and receiving antennas. (7) While magneto-ionic effects are extremely important for MW propagation, great care must be exercised when attempting to interpret reception effects in terms of magneto-ionic phenomena because of the complexity and subtlety of these propagation effects. The Australians were the first to take advantage of the magneto-ionic effects for the design of actual MW broadcasting systems, by the way. (8)

Since, as we have shown, the expected variability of the gyromagnetic frequency is very slight even during the most disturbed of conditions, it seems unlikely that changes in f_b were actually observed as reported.

REFERENCES

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2. , 11, March 23, 1974, p. 5
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4. Ionospheric Radio Propagation, Edited by K. Davies, National Bureau of Standards Monograph 80, 1965

5. A Revised Corrected Geomagnetic Coordinate System, Georg Gustafsson, Arkiv for Geofysik, Band 5 nr 40, p. 595, 1964
6. Handbook of Geophysics and Space Environments, Office of Aerospace Research, USAF, 1965
7. Magneto-ionic Theory and Its Applications to the Ionosphere. J.A. Ratcliffe Cambridge University Press, 1959
8. The Absorption of Medium Frequency Skywaves by Close Coupling to the Extraordinary Mode. J.M. Dixon, Roc. IEEE (Australia), Dec. 1965, p. 36

DX Contests

Dr. Michel Breger, 7217 Creekside, Austin, Tx 78752.

* The contest scores are very pleasing, but are changing only very slowly. I would like to propose an earlier closing date, which would allow all of us to start the new 1974/5 contests in September. The present contests have a previously listed closing date of Sept. 15, 1974.

THE 1973/4 DX CONTESTS WILL END ON AUGUST 10, 1974. ALL ENTRIES MUST BE RECEIVED HERE BY AUGUST 25.

If any contestant is strongly opposed to this proposal, drop me a line by July 1, and that particular contest will be kept open for all until Sept. 15. See July D&M for a final announcement.

- * The art work of the special prize certificates for the top winners has just been completed. I hope to send out the prizes at the end of August.
- * This is a friendly suggestion to submit your ideas on what next year's contests should be. One of the new contests will be a wild Scavenger Hunt on the broadcast band (suggestion from Bruce Portzer). How about a combined Domestic/Foreign contest ?
- * Congratulations to Nancy and Bill Hardy. Many happy years together !

SEMI - FINAL CONTEST STANDINGS

June 1974

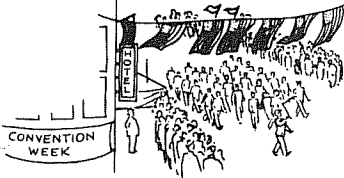
| DOMESTIC CONTEST | TOTAL | S | B | 3 | 2 | 1 | PRO | AMA |
|-------------------------|-------|----|----|----|----|----|-----|-----|
| 1 (1) Portzer, Wash. | 156 | 47 | 37 | 29 | 14 | 4 | 1. | |
| 2 (2) Keleher, Ind. | 139 | 50 | 12 | 37 | 3 | 10 | 2. | |
| 3 (3) Bytheway, Wash. | 137 | 46 | 29 | 26 | 10 | 10 | 3. | |
| 4 (4) Mayhew, Que. | 119 | 44 | 7 | 29 | 10 | 5 | | 1. |
| 5 (5) Abraham, Mich. | 117 | 44 | 9 | 26 | 12 | 6 | 4. | |
| 6 (6) Cowles, Az. | 116 | 44 | 21 | 20 | 11 | 13 | 5. | |
| 7 (7) Hogan, Ind. | 111 | 44 | 10 | 23 | 11 | 10 | | 2. |
| 8 (8) Boyd, Okl. | 102 | 40 | 10 | 21 | 10 | 9 | | 3. |
| 9 (11) Wheeler, Pa. | 89 | 39 | 11 | 14 | 11 | 14 | 6. | |
| 10 (9) Sherman, Minn. | 88 | 36 | 3 | 17 | 15 | 4 | | 4. |
| 11 (10) Daplyn, Ont. | 86 | 39 | 2 | 16 | 13 | 10 | 7. | |
| 12 (12) Hardy-Gantzer | 84 | 41 | 13 | 10 | 10 | 21 | 8. | |
| 13 (13) Seaver, Cal. | 77 | 37 | 11 | 8 | 13 | 16 | 9. | |
| 14 (14) Mallon, N.Y. | 71 | 34 | 3 | 13 | 8 | 13 | 10. | |
| 15 (15) Myer, N.S. | 70 | 35 | 6 | 11 | 7 | 17 | | 5. |
| 16 (21) Buehler, Mo. | 68 | 36 | 1 | 13 | 5 | 18 | 11. | |
| 17 (18) Mount, N.J. | 68 | 36 | 3 | 11 | 7 | 18 | | 6. |
| 18 (16) Hendricks, Ill. | 66 | 35 | 1 | 9 | 12 | 14 | | 7. |
| 19 (17) Phillips, Alab. | 63 | 33 | 1 | 9 | 11 | 13 | 12. | |
| 20 (19) Flegle, Fla. | 63 | 31 | 3 | 8 | 13 | 10 | 13. | |
| 21 (20) Horne, B.C. | 59 | 35 | 0 | 9 | 6 | 20 | 14. | |
| 22 (22) Parsons, Ont. | 52 | 29 | 3 | 6 | 8 | 15 | 15. | |
| 23 (23) Gill, N.Y. | 52 | 28 | 4 | 6 | 8 | 14 | | 8. |
| 24 (24) Gabelman, Fla. | 32 | 24 | 1 | 1 | 5 | 18 | 16. | |
| 25 (25) Fisher, Ind. | 17 | 11 | 0 | 1 | 4 | 6 | | 9. |
| 26 (26) Plumb, Neb. | 9 | 8 | 0 | 0 | 1 | 7 | 17. | |

FOREIGN CONTEST - AMERICAS

| | | | | |
|-----------------------|----|-----------|----|-----------|
| 1 (1) Flegle, Fla. | 32 | stations, | 22 | countries |
| 2 (2) Minnehan, Ohio | 31 | | 22 | |
| - (-) Breger, Texas | 29 | | 18 | |
| 3 (3) Abraham, Mich. | 27 | | 18 | |
| 4 (4) Mayhew, Que. | 26 | | 17 | |
| 5 (5) Seaver, Cal. | 22 | | 15 | |
| 6 (6) Bytheway, Wash. | 12 | | 9 | |
| 7 (7) Portzer, Wash. | 9 | | 7 | |
| 7 (10) Hogan, Ind. | 9 | | 7 | |
| 9 (8) Parsons, Que. | 8 | | 7 | |
| 10 (9) Boyd, Okl. | 8 | | 6 | |
| 11 (11) Mount, N.J. | 7 | | 6 | |
| 12 (12) Fisher, Ind. | 2 | | 2 | |

JUNE 8, 1974

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CONVENTION NEWS

By the time you read this, depending on the second class mail situation, the June 28 deadline for reservations may be only a few days away. If you haven't made reservations yet, do it immediately! On June 28, the hotel will release all un-committed rooms and you'll be left to fend for yourself. As tourist traffic is expected to be heavy in this part of the country due to Expo 74 in Spokane, you may have problems finding a room if you wait too long.

Last minute reservations can be made by calling Bruce Portzer any evening at 206-244-9361 and leaving the info with whoever answers the phone. You can also use Sheraton's toll free number 800-325-3535 and make reservations through them, but if you decide on that route tell them you're with IRCA as we're getting group rates and then be sure to let us know you're coming.

Please note --- and this is IMPORTANT --- that the room rates in the 1/20 DXM registration form are incorrect. They should be \$16 single, \$20 double or twin, \$24 triple, \$28 for four. This permits 2 for \$10 each or 3 for \$8 each, which makes quite a difference, hi. Disregard the std/delux stuff.

Here's that once-a-year chance to see those people you read about in DXM. Rick Evans and Father Jack are going. Don Erickson will be there to show is he's still alive and well. He won't be bringing Toyland for the auction, tho, so we're trying to get Bill Hardy to donate KQHO instead. If you've been to previous conventions there's no excuse for not coming; you already know what a wild time everybody has. If you've never been to one, now's the time to start. So make your reservations NOW if you haven't already. If you've lost your registration form, drop us a line telling us what type of accommodations you want, the nights you're staying, whether you want chopped sirloin or beef burgundy for the banquet, and how you plan to arrive (car, air, etc).

A lot of activities are planned. Friday afternoon will include a tour of KIRO Radio & TV conducted by CE Dave Hubert. There will also be a tour of the Rainier Brewery. There will be a general bull session Friday night featuring verte viewing, beer drinking, listening to tapes (written transcripts not allowed), etc. Saturday will feature a tour of the VLF stn at Jim Creek and/or a couple of local stations. Saturday night will feature the banquet, business meeting & auction. We have a photo of the XEROX xatr site from the 1940's or so that's sure to get some high bids. Sunday AM will be reserved for church or recuperation. Around noon we'll have the ball game and a picnic at Talbot Hill Park, weather permitting. Sunday night will feature Father Jack leading a session on foreign DXing, propagation, and whatever else gets brought up.

The \$11.50 registration fee can be paid either in advance or when you get here. Make checks payable to IRCA Convention Committee. The hotel will not accept personal checks or oil company cards but travellers checks, American Express, Chargex, and the like should be okay.

Of interest to many members is the Beef and Brew Restaurant in the hotel. It features all the beer you can drink w/ your meal. (Now you know why we picked this place...). The hotel also has a 24 hr coffee shop & there are about ten other eating places within walking distance.

This is a DX convention so dress casually. Sport coat & tie are requested for the banquet, tho. Contrary to popular rumor, Seattlites do not have webbed feet, but it does rain here sometimes, so be prepared for that.

If arriving at the Sea/Tac airport, the Renton Inn has a courtesy phone in the baggage claim area. Call them and they'll pick you up. If you arrive by car, the easiest route is via Interstate 405. Take "Exit 2B, Renton"; the Renton Inn is just north of there, at the intersection of Rainier Avenue & Grady Way. The exit is about 2 miles from the junction with I-5 and ten miles from the junction with I-90. Map available on request. Unfortunately, if you arrive by bus or rail, none of us can pick you up in the morning. Afternoons & evenings before Fri. call Bruce at 244-9361 or Phil at 525-8736. Friday or Sat. call the Renton Inn at 226-7700 & ask for the IRCA. We'll send someone to pick you up.

All attendees get a free "goodie bag" containing convention guide, brochures, bumper stickers & promo material from local radio stations and anything else we can find.

Here's your chance to see Bill & Nancy Hardy, the results of IRCA's DX Romance. A chance to see why, despite 13 ANers & 8 NSPers, Seattle is the DX Capital of the West Coast. A chance to find out if Rick Evans really chews his cigars. A chance to find out if Seattle DXers are insane because of the clean air or if they're that way normally. In short, here's your chance to meet a lot of other DXers and have a heluva good time. So head for Seattle --- where the action is.



SECOND CLASS POSTAGE
PENDING AT SAN DIEGO,
CALIFORNIA

International Radio Club of America
12536 Arabian Way, Poway, CA 92064



THE INTERNATIONAL RADIO CLUB OF AMERICA - a non-profit club devoted to listening to distant radio stations on the broadcast band (540-1600 khz). IRCA is a member of ANARC, the Association of North American Radio Clubs, dedicated to promoting cooperation between the radio clubs of North America.

IRCA Officers: President: Richard C. Evans, RR#2, Box 375-A, New Buffalo, MI 49117. (616-469-3866); Secretary-Treasurer Carl Dabelstein, 3300North 56th St., Lincoln, NE 68507; Board of Directors: Chairman: Father Jack Pejza, Bob Foxworth, Nancy Gantzer Hardy, Percy Kesteven, Ed Krejny, Bill Nittler, John Zondlo.

Membership dues in IRCA: \$2.00 per year.

IRCA publishes the IRCA Foreign Logs, listing over 1500 foreign stations heard on the broadcast band from North America. Volume I: \$2.25; Vol. II, \$3.00; combination offer, \$5.00.

IRCA has an extensive listing of reprints of articles and features which have appeared in DX Monitor in past years. Send a self-addressed stamped envelope for a copy of the list.

IRCA stationery: 70 sheets for \$2.00; 100 sheets for \$2.75. Permission is granted to publish, broadcast, or reproduce any of the material in DX Monitor (except items which acknowledge that they appear by permission from other sources, or material which is copyrighted), providing credit is given to DX Monitor and the author or contributor, if listed.

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