



DX MONITOR

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THE INTERNATIONAL RADIO CLUB OF AMERICA

Saturday, March 25, 1972

NEXT ISSUE TWO WEEKS

VOLUME 9 NUMBER 27

TIMES in DX Monitor: EST during the winter; EDT during the summer; for Domestic Sections. GMT is used exclusively for DX Worldwide.

Dues and Address Changes: Mike Northam - 1608 N.E. Knott St. - Portland, OR 97212. Tele: 10AM-7PM PST 503-224-3651. 7PM-1AM 284-7369.

Pres.: Percy Kesteven - 13112 134th St. - Edmonton 44, Alta, CANADA. 403-454-8278.

Pub.: Don Erickson - 6059 Essex St. - Riverside, Calif. 92504. 714-687-5910 24 hrs.

Bulletin Schedule: Apr. 8, 22; May 6, 20; June 17; July 15 and August 12.

MEMBERSHIP DUES: \$13 air mail, \$9.50 first class, \$6.50 third class. **WARNING:** 3rd class mail is not recommended for those who expect timely delivery of DX Monitor.

CONVENTION FORMS The registration forms for the 1972 IRCA Convention in San Diego, California, should be returned to Father Jack Pejza only. One form already received at pub. hdq; not filled out, no return address! Handwriting will be checked and form returned to sender. Pse read various forms for instructions before returning.

RESIGNATION

Lynn D. Brooks has announced his resignation as Central DX Forum editor. Lynn states that interest has waned in the hobby and he feels someone with more interest in DXing should be editing CDXF. This is the official call for volunteers for the position of editor of CDXF; the deadline for volunteers is April 28, 1972. No late applications can be considered. If you do not have an application form on file with Percy Kesteven, write for one. If you do, let him know you are volunteering/applying for the job. Qualifications for the editorship include: time to type stencils between Thursday and Saturday, a typewriter, an ability to type accurately (speed does NOT count), a willingness to make deadlines (postal service willing), experience in the club and hobby preferable but not required. Elite typewriter recommended (small type). If you do not presently know how to type stencils but would like to learn, drop DEE a card for a sample stencil with instructions on how to type same. (This offer to ANYONE). All applications for position of Central DX Forum editor must be sent to: Percy R. Kesteven, address above. The deadline, once again, is April 28, 1972.

APPOINTMENT

Sheldon Swartz, 41 Pole Plain Rd., Sharon, Mass. 02067, will assume duties as Temporary Eastern DX Roundup editor effective IMMEDIATELY. His first section will appear in TWO WEEKS, dated April 8. Deadline for tips is Thursday, March 30. Please follow standard procedure and report items with frequency, call, state/province, and city along with details of reception. Double-space between each item and single-space within an item. Arrangement by freq. preferable but not necessary. Remember that reports will be cut up so every item must have a freq. and must be initialed; if you don't do it, the editor must. And, like every other section, always use one side of the paper only. Place your name and address on the first sheet and your name on all others.

DX CALENDAR

No changes in DX Calendar this issue; it appears on page 2 along with the DX program write-ups and other material on hand. Please support your club by sending: photos to DEE for publication, CoF items to John Clements, f/c's to Roger Winsor, Domestic & Foreign Records to Bruce Portzer, Contest Standings to Dave Christensen, ad inf. -DEE

		<u>EST</u>		<u>DX CALENDAR</u>		
Sat. Mar.	25	0100-0500	WJEJ	1240	Hagerstown, Maryland	1kw NRC/Ernest R. Cooper
Sun.	26	0100-0500	WJEJ	1240	Hagerstown, Maryland	1kw NRC/Ernest R. Cooper
Mon.	27	2330-????	WIVV	1370	Vieques, P.R.	5kw? NRC/Tom McCormack
		0100-0130	WMMT	1260	Westport, Conn.	1kw NRC/Russ Edmunds-f/c
		0201-0330*	KGRT	570	Las Cruces, N.M.	5kw NRC/Boyd & Junker
		0315-0415	KIMM	1150	Rapid City, S.D.	5kw NRC/Ernest R. Cooper
Sat. Apr.	1	0100-0400	WLIZ	1380	Lake Worth, Florida	1kw NRC/Wes Boyd
Mon.	3	0200-0230	KUPK	1050	Garden City, Kansas	5kw NRC/Bruce Winkelman
		0300-0330	WARD	1490	Johnstown, Pa.	1kw IRCA/Brian Cartwright
Mon. June	19	2330-????	WIVV	1370	Vieques, P.R.	5kw? NRC/Tom McCormack
Mon.	26	2330-????	WIVV	1370	Vieques, P.R.	5kw? NRC/Tom McCormack

All write-ups appeared last issue. WIVV will test 3/27 only if it did not test 3/20; so far info indicates potential for 3/27 since there are no rpts of WIVV for 3/20.

Reports to: Mr. E. L. Freeman, Engineer-in-Charge, WIVV, Administrative Offices, Box A, San Juan, P.R. 00936. -info taken from letter from Mr. Freeman

KGRT may also be 0301-0430; check both times. Reports to: Roy Wells, CE, KGRT, P. O. Box 968, Las Cruces, New Mexico 88001. -NRC/Wes Boyd & Carl Junker

WLIZ info appeared on page 24 last issue. C&W and some Top 40 oldies will be used. Reports to: Mr. Arthur N. Davis, CE, WLIZ, Lake Worth, Fla. 33460. -Wes Boyd

CPC Results and flash tips WIVV not hrd by Dave Singer; WJDA barely hrd u/semi-local + WFBR--tones, IDs, "roller-skating rink" mx rather than true marches--organ arrangements of popular songs. *** Dave Faulkner sent along two pages of info on upcoming CPC programs and other material. It will appear as the appropriate time.**Bob Neal in Forbestown, Calif., using SPR-4 w/120' LW, sends the following test results: WJEJ not hrd either day 3/18 or 3/19; WIVV not tried. WJDA not identified though 5 different sigs were separated on the freq. with ID only for KOZE Lewiston, Idaho. KTYN-1430 not identified; KALI dominant w/at least two underneath. Bob presumes KTYN was not on per sked. *** Bob Karchevski in Daly City, Cal., didn't try for WIVV; 1300 was monitored 0140-0230 EST for WJDA but rpts only KOZE, KOL & KWKW. 1430 tried 0300-0321 for KTYN but only hrd KEGL s/off 0307 & KALI, "R. Kali" in Spanish. Bob also notes PJB-800 in very strong w/XELO off and CKLW strong underneath.**Bruce Portzer mentions that KRVN is conducting some sort of contest. They are asking listeners to send in the date and time they first hrd KRVN on 880, along with their name & address, on a postcard. From the cards, they'll select 4 names at random each night, and the lucky people will win a transistor radio. There is also a grand prize of a tape recorder. (Wonder what they would say if some DXers wrote mentioning their 880 tests of months and months ago!! -DEE). Bruce will have the next DX Records stencils in the 4/8 issue, space permitting. *** Mike McCullough reminds one and all of the DX meeting at his house on Sunday night/Monday morning, 3/26-27. All DXers invited; bring your rx's, veries, tapes, etc. PLEASE let Mike know in advance you're coming. IS IT WORTH IT? One top-notch IRCA member asks, "what...is so important that it can't wait a week to appear in ...DXR? Seems like some members rpt all their DX to you & you print it." How do the rest of you feel about this inquiry. Judging from the reaction I have received, I'm prone to agree that it may serve no purpose. However, I'm certain the DXR editors aren't the slightest bit upset about such material appearing here rather than in DXR--the name of the game is information & tips---FAST. And this tends to be faster. But whether or not it is worth the expense and effort is open to discussion. How about some comments in DXF so some kind of conclusion can be reached by next season? -DEE

REMINDER---Lynn Brooks has resigned as CDXF editor; applications are being accepted.

Sheldon Swartz starts with next issue as EDXR editor. Please mail your rpts to reach him by Thursday, March 30. IRCA Letterheads, Report Forms, and "DEXs" are \$1 per package of 75/75/300, respectively, from Don Erickson. Checks or cash OK; all requests to 6059 Essex St., Riverside, Calif. 92504. WRTHs and BYBs no longer available; checks being returned; orders received without checks will not be ack'd; no notice should suffice. Deadline for final tips for next issue, in Riverside, is Tuesday, April 4 by mail, or Monday PM/Tues. AM by phone, 714-687-5910, 24 hours.--DEE

Editor (Temp): D. Alan Cunningham-2441 N. Henry-Alton, IL 62002

Editor(permanent, subject to Board approval; watch DXM for effective date): Sheldon Sartz-41 Pole Plain Rd.-Sharon, MA 02067

Deadlines: Thursdays

DEE: Eff. immediately for 4/8
DXM w/3/30 deadline, Thurs.

Reporters this week:

(BLC) Brian L. Cartwright-106 Leila Street-Johnstown, PA 15905

(GWJ) George W. Jensen-4604 Anntana Avenue-Baltimore, MD 21206

(JMP) Jim Poterba-949 Queens Dr.-Yardley, PA 19067

(GES) Gary Siegel-2728 106th Street-Toledo, OH 43611

(DSS) David Singer-224 Crockett Hall-R. P. I.-Troy, NY 12181

Reports for this week:

- 550 WSVA VA Harrisonburg, 3/10 nx in weak @ 1330. (BLC)
- 560 WQAM FL Miami, gud by themselves 2340 3/9. (DSS)
- 570 WMAM WI Marinette, concluding NBC nx, live s/off & SSB. ID jingle after the SSB appreciated here. 0007 2/15. (GES)
- 580 WTAG MA Worchester, poor w/mx 0136 3/7. (DSS)
- WTAG MA Worchester, noted on 3/10, 1758-1800 w/spot and ID with gus sig. then gone with pattern change. (GWJ)
- 610 WIOD FL Miami, poor w/talk 3/7 0105. (DSS)
- 620 CFCL ON Timmins, in FF w/what seemed to be a hockey game. Strong at times. Most unusual reception here. 1910 2/20. (GES)
- 650 WSUN FL St. Petersburg, strong and all alone w/ID, nx wx 0130 3/13. (JMP)
- KORL HI Honolulu, hrd after six years of trying! was all talk w/pgrm named "CONTACT". Host's first name was Jim. Spot at 0346 for the Penthouse VI plus 3 time checks hrd. All on tape. 0343-0348. State #47. (*) indicates catches hrd on Dan Myers' rx. (GES) //(GES)
- 660 KOWH NE Omaha, even w/ and u/WNBC on s/off, this one was tough! 1859 2/11
- 740 WBAW SC Barnwell, on top of a normally rough freq. w/ s/off giving str's location and the like. 1815 2/11 (GES)
- WGSM NY Huntington, gud w/wx, ads 1847 3/12. (DSS)
- WMBL NC Morehead City, fair w/much QRM from CBL, s/off hrd 1815 3/6. (JMP)
- WPAQ NC Mt. Airy, long sought 10kwr hrd w/little or no CBL QRM which is unusual in itself. Hrd w/rr & local ads 1750 2/4. (GES)
- 750 KMMJ NE Grand Island (*), hrd on unsked test almost strong enough for WSB but not quite, ID 0215 2/21. (GES)
- 780 KCRL NV Reno (*), w/wall-to-wall sound thought weak ID 0330 hrd, but clearer ID 0358. Signal weak but in--CKLW-No help! 2/21 (GES)
- WCKB NC Dunn, hrd weakly on Ken Romstadt's rx. Had to outbattle WBBM & the other NC daytimer WBBO. 1800 2/5. (GES)
- 790 WSIG VA Mt. Jackson, noted on 3/8, 1800-1815 w/Cw mx and spots with poor sig till sign off at 1815. (GWJ)
- 820 WIKY IN Evansville, single ID hrd between momentary pause of both WOSU/WAIT 1809 2/11. (GES) //(BLC)
- 850 CKVL PQ Verdun, 3/12 record comm. in xlnr 0620. Completely wiped out KOA. KOA CO Denver, 3/12 0414 in gud w/slow mx over WJW. Real surprise, state #33. (BLC)
- WEAT FL West Palm Beach, tentative--Florida station, w/NBC, s/off 0100 3/10 matches NRC log to the letter. (DSS)
- 860 KWPC IA Muscatine, all alone on a s/off, no CJBC at all. One wonders how this happens! 1830, 2/16. (GES) //(GWJ)
- WAMO PA Pittsburg, noted on 3/8, 1815-1830 s/off w/soul mx and PSA's, fair
- 900 CHML ON Hamilton, 3/13 0413 in gud w/rr mx and spots. (BLC)
- CKDR ON Dryden, little or no trouble for a good 7 minutes period. W/rr & some mentions of Kenora. Wx-low temps. of -20 to -25° expected. 1833-1840 2/10. (GES)
- CKVD PQ Val d'Or, 3/13 0428 mx in poor here w/FF DJ. Looped toward Val d'Or so I don't think it was any of the 2 other FF stns here. (BLC)
- CKTS PQ Sherbrooke, very gud w/mx on hour 2200 3/11. (DSS)

- 900 KTIS MN Minneapolis, managed to overrun CKDR on s/off @ 1844, both CKDR & KTIS rare here. 2/10. (GES)
- 920 WPTL NC Canton, coming in as if nothing else existed! S/off ann. included a little brag about ND 500w. 1815 2/28. (GES)
- 930 WITN NC Washington, w/ads & ID 1830 3/10. (DSS)
- 940 KSWM MO Aurora, in fairly gud on s/off. I more or less stumbled across this one as I was tuning up from 910. 1900 2/28. (GES)
- WFNC NC Fayetteville, noted on 3/11, 1750-1800 w/rr mx and "TN News" till fade out at 1800. Gud signals (GWJ)
- 960 CHNS NS Halifax, almost at armchair level. IDs 0330-0340 2/7 (GES)
- WFTC NC Kinston, suddenly way o/channel w/sx, fair sig, 1852 3/6 (JMP)
- WHAK MI Rogers City, a long sought after unbelievably strong this night, 2/10. Mentions of Gaylord, Alpena & WHSB-FM also mentioned on s/off 1754-1800. (GES) // (GWJ)
- WFIR VA Roanoke, in fair with others 3/10 1815-1825 w/nx and sx and spots.
- WFTC NC Kinston, noted 3/10 u/WFIR, w/many spots 1811-1813. Fading (GWJ)
- WPRT KY Prestionburg, srtong, slight QRM, mentioning AM-FM, rr 1840 3/6 (JMP)
- 990 CBW MAN Winnepeg, all alone but weak w/CBC pgrming, 0200 3/13, s/off 0205, this for province #6 (JMP)
- WEEB NC Southern Pines, noted 3/10 from 1827-30 s/off preceded by regional and local wx NO SSB, but "Dixie" (GWJ)
- 1000 WGOG SC Wallhalla, very weak w/background mx on s/off ID ann. indicated clear channel operation. 1815 2/16. (GES)
- 1050 WDZ IL Decatur, w/MoR and Ai & even Amer FM Net. 1815 (strange) local ad for Marathon gas stn. 1820 & K-Tel spot 1823. 2/23. (GES)
- 1070 WINA VA Charlottesville, in easy on what is normally messy freq. @ SSS. Nx 1730 then into sx & wx. Ad for Sears 1734. 2/14. (GES)
- 1080 WFIV FL Kissimmee, strong w/cw and early s/off 1810 2/21. (GES)
- 1090 CHRS PQ St. Jean, (tent) s/off in FF 1800 3/6--WBAL QRM. (DSS)
- 1100 WCPA PA Bethlehem, gud w/nx 1803 3/6. (DSS)
- 1140 ?????????? Unid FF 1905 3/12, is this CJTR as per Joe Fela's rpt? They had MoR and rr mx (JMP)
- CBF? PQ _____, 3/13 0048 FF LPRT in poor & no CKOC splash. (BLC)/(GES)
- KLPR OK Oklahoma City, slipping in between WRVA & FF near s/off 1914 2/19
- KLUC NV Las Vegas (*), super strong on DX Test, all prgming on tape from 0307 -0323. Many should have NV now! Stat #46 here 2/21 (GES)
- KPWB MO Piedmont, o&u/WRVA w/Mo. nx & s/off w/SSB 1842-1845 2/23. (GES)
- 1150 WNDB FL Daytona Beach, all by itself, but weak w/ads 3/9 2243. (DSS)
- 1190 KAYQ MO Kansas City (*), in strong w/Town Hall a U. of Det. feature no (GES) less ID as "K-Q" 0155, was a sign of how MM 2/21 was to progress.
- 1220 WGNY NY Newburgh, mixing it up w/WGAR early. Jumped on top 1724 w/mention of Newburgh in spot 2/3. (GES)
- 1230 CJSA PA Ste. Agathe des Montes, xlnt w/ID in FF 0100 3/12. (DSS)
- WKBO PA Harrisburg, atop briefly w/wx 0143 3/12. (DSS)
- 1240 WGBB NY Freeport, in all morning 3/12 w/rr. (DSS)
- WHUM PA Reading, in briefly w/jingle 0105 3/12 o/mess. (DSS)
- 1240 WJEJ MD Hagerstown, w/xlnt sigs on PoP--TT hrd all morning thought to be them, but ID'ed definitely at 0230 3/12 w/xlnt sigs, then into music. (DSS)
- WJEJ MD Hagerstown, w/tone hrd on PoP, sig gud 0140 3/11 (JMP)
- WSSV VA Petersburg, in w/wx 0146 3/12--I thought they s/off'd 0000. (DSS)
- 1250 WDVA VA Danville, gud o/mess w/ads 1820 3/6. (DSS)
- WTMA SC Charleston, gud w/talk 3/9 2326. (DSS)
- 1260 WFBM IN Indianapolis, 3/12 in fair w/ID & mx 0455. (BLC)
- 1270 WSPR MA Springfield, poor w/sx 3/12 1837. (DSS)
- 1290 WKNE NH Keene, poor w/sx 3/11 1816. (DSS)
- 1310 CFGM ON Richmond Hill 3/12 rr in gud 0530. No CKOY. (BLC)
- WGH VA Newport News, poor in pile up w/rr 3/11 1843. (DSS)

- 1320 WSCR PA Scranton, in well w/NBC nx & jingle 3/11 1800-1806, then completely gone. (DSS)
- 1330 KWVL IA Waterloo, 3/13 rr in poor 0134 while looking for KFW. Thought it was WHOT. (BLC)
- 1360 WDRC CT Hartford, had trouble w/WHBG 1703 then WDRC took charge temporarily @ 1705 w/rr for a short period. Only #10 on 1360 2/14. (GES)
- 1370 WGOH KY Grayson, gud at s/off 1845 3/10. (DSS)
- WJWS VA South Hill-what is a WSPD? This and especially WSAY were totally wiping out a nulled WSPD. Gud and strong s/off 1745 2/23 (GES)
- WSAY NY Rochester, had rr & WSPD. 1370 #13 2/8 (GES)
- 1400 CJFP QUE Rivere du Loup sounded like 5kw w/FF (Are they 5kw at 0600?) Not much bothering them. Gud ID 0619 2/21 (*) (GES)
- 1410 WOTT NY Watertown, 3/13 0217 test, played "Together Again" repeatedly for 43 min. at least. signal comperable to CKFH-1430. (BLC)
- 1430 WHIL MA Medford, fair w/talk 1745 3/5. (DSS)
- 1440 WCDL PA Carbondale, w/mentions of Carbondale 3/5 1806. (DSS)
- WJAB ME Westbrook, all was normal 0558, but then @ 0600 WJAB came in & I nearly fell out of bed! I almost thought it was WAAB at first untill the anncr. said Westbrook and not Worchester. 2/13. SM DX lives! (GES)
- 1540 CHIN ON Toronto, noted with s/cff and Oh Canada on 3/11 at 1800 w/poor signal (GWJ)
- WRGM VA Richmond, s/off vy weak, no SSB hrd, 1815 3/11 (JMP)
- 1550 WPJD TN Daisy, in strong (*) on Organ mx test, r/c; 0215 2/21 (GES)
- 1580 WBRJ MI St. Johns, 3/10 2100 in gud w/nx & s/off w/SSB. (BLC)
- WHEX PA Columbia, gud w/mentions of "hex-land" 3/4 1813. (DSS)
- WJVA IN South Bend, noted on 3/11 with gud sigs 1846 w/s/off after WVKO (GWJ)
- WNRJ GA Gainesville, noted on 3/11 w/poor sigs and much QRM from others 1855-1900 w/cw mx and s/off at 1900 (GWJ)
- WSRF FL Ft. Lauderdale (*) long sought in w/ID 1956. Freq. was quite a mess as dm will testify to. Dan hrd KLOU, finally! 2/28 (GES)
- WVKO OH Columbus, noted 3/11 w/gud sig. ever others w/soul mx and s/off at 1845. From 1835-1845. (GWJ)
- 1590 KPBA AR Pine Bluff, testing 0600-0615 on 2/13 this may be r/c as they referred to it as a freq. check & IDs were often. Might be worth looking into. (GES)
- WCBC PA Chambersburgh, w/Budweiser spots o/WETT 1816 3/9 (JMP)
- 1600 WINX MD Rockville, w/Drake-type pgming, o/channel 0130 3/11 (JMP)
- WNEU WV Wheeling, noted 3/11 from 1818-1830 s/off w/oldies mx and no spots. Signal very gud. (GWJ)
- WUNR MA Brookline, w/WINX, had MoR, wx, spots, strong sigs 0134 3/11 (JMP)

D. Alan Cunningham-2441 N. Henry-Alton, IL 62002

The quality of the reports received here this week was totally excellent. PRK advises that we will soon be replaced as Sheldon Swartz was appointed. May the BoD be swift in their decision and may Sheldon's fingers be blessed with eternal speed and accuracy. Please watch for DEE's message telling you when to change the address of your reports. Please initial all items and place your name and address on each page...It is sheer murder to guess whose report is whose in all the mess that is my room. 73's to all and the best of DX to all that are interested.

ANNOUNCEMENT---This is the official announcement: Sheldon Swartz will start with next issue. Send all reports for the 4/8 issue to Sheldon no later than Thursday, 3/30, where possible, though Shel may be able to use rpts received as late as Fri. or Saturday.

TABLE OF CONTENTS THIS ISSUE: DX Calendar/Announcements/Flash Tips/CPC Results on pages 1 & 2; DXR and DXF pages 3-12; WDXF on page DXWW-4 or page 22. RFS Cuban Station List on pages 13/14. Father Jack's article on the ionosphere starts this issue, pages 15-18. DXWW, 3 pages. Broadcasting Information on bottom of page DXWW-3. Be sure to read your bulletins carefully for announcements, etc.

March 25, 1972

EASTERN DX FORUM

Page 6

Editor: Bruce R Heimburger - 817 Rawlins St. - Port Huron, MI 48060

Deadlines: Fridays, 8 days before publication date. By popular demand!!

Phil Dorsey - 4 Split Rock Rd. - Pittsford, NY 14534

I've given a little thought to the recent purge of Lotsof, Kamp, and Tanner from our club. In my opinion these expulsions represent a dangerous precedent. It would appear that from now on, anytime IRCAs leadership finds itself at odds w/a member or members, all they have to do is to quickly kick the member out of the club. This could become awfully handy shortly before an election. I, however, have what seems to be the unpopular opinion that majority rule does not include eliminating the minority or part of the minority. It seems to me that these expulsions illustrate what Lotsof, Kamp, and Tanner said in the papers which they were expelled for printing. Another factor to consider is the cost of expelling the three. Each received an entire year's refund, though none was entitled to it. There were nine registered letters involved. Also there is a distinct possibility of a lawsuit. If so, I think our president should pay the attorney out of his own pocket, or IRCA could go bankrupt. I don't feel I am getting my money's worth from IRCA so if nothing changes in the way it is run I'll save it the trouble of removing me.

C.M."Stan" Stanbury II - Box 218 - Crystal Beach, Ontario

On the subject of specials this time, a QSL letter has been received for the second WYRE Test. Meanwhile, as noted in DXWW, VOA now claims that no special XMSN was aired for the NRC - that they merely told NRC when reception was most likely. But the more one digs into this situation the more peculiar it becomes. The 11/13 DX NEWS reported "the long-awaited VOA-1176 Okinawa DX test is most definitely on; one was run last night (11/7) without anyone at HQ being aware as a matter of unhappy fact." If, as the Voice of America contends, the test consisted of nothing more than telling NRC when to listen, how could the test have been run without NRC knowing it? Incidentally, I also wonder how many will continue to count future reception from Okinawa as Ryukyus? It seems to me that the island should now be considered, for purposes of DX statistics, as part of Japan.

Brian L. Cartwright - 106 Leila St. - Johnstown, PA 15905

This report out early, namely 2000 Firday, because I didn't want to wait till Sun. or Mon. Not much going on here, DX or otherwise, this past week. Just got WBRJ s/off for state #39. Wanted to get this out before 'Sanford & Son', but they're comin' on now so I'll take a shore recess. To G. Hauser: saw your picture in WRTH. You looked a lot better than some of the guys in there. I liked your idea about the station calls and I have one, that is Wireless Johnstown Auto Club. In shop class in school am making a 4' box loop & still might make a spiral as a second project. Well, that's about it for this issue, CU in 7 & 73s.

Jim Poterba - 949 Queens Dr. - Yardley, PA 19067

Felicitations, all! DX lately has been quite good, with the best being CBW for prov. #6. No veries of late, but many rpts. out. Totals now 599/107, 38/33, 6/4, & 19/3. It looks as if Lower Bucks County may get a new stn! I read that the school board in the Neshaminy school district has been considering a stn for Neshaminy High, WNHS. Hope it goes through. Thanks to John Johnson and Tom Sundstrom for the letters. 73s

Karl Bartlett - Apt. 2B, 9 Tulip Dr. - Fords, NJ 08863

Greetings, odd people who stay up til 0500! New veries since last rpt: v/q-WCCO, WQXR(+fact sheet), & CFGM v/1 + CM. Another comment on Drake rock: the "Drake" format is used by all Drake stns, but not limited to those stns. A typical non-Drake-owned Drake format stn is WWDJ. I won't be doing too much DX until Sat, as I've got to have my rx checked out, I think a tube has gone bak. Totals are now 133/53, 23/21, & 3/1. Foreign DX in the form of 1 Cuban, CMQ. Here we are at s/off time once again.

Bruce R Heimburger - 817 Rawlins St. - Port Huron, MI 48060

I've just gotta start DXing again. It is getting progressively more difficult to fill up any unused stencil due to this. Therefore, I'll keep this short. Good bye, hi. Oh, only 3 lines to go, I guess I can manage. I have noticed that the East has been rather strong, signal-wise, lately. Hopefully we will have one more good TA opening before the season is over. Keep up your fine support. 73s.

EDITOR: Richard C. Evans - Box 2146 - East Chicago, Indiana 46312

+++++

550 CHNO ONT Sudbury, Fair w/ID + sports pgm in EE; not FF as listed 0358-0401 3/6 (KDF)

560 KLZ CO Denver, good, KMON nulled, 2212 3/10 w/MoR mx (DO)

570 KLUB UT Salt Lake City, good every nite over KVI, but seems to give very few IDs 3/5 (JAM)

580 CKUA ALB Edmonton, licence has been extended to March 31, 1974 according to the CRTC (JAM)

CKPR ONT Thunder Bay, Fair w/rock 1931-1951 tune-out 3/13(KDF)

600 KOGO CA San Diego, in most mornings u/CFQC/CJOR/CMW with fair signals but 3/6 Cuba was S-8 on 590 & 600 (JAM)

630 CKRC MAN Winnipeg, Very good w/rock while looing for WMAL s/off 0000 3/13 (KDF)

640 WNAD OK Norman, good w/CBS news 1906 2/27 (AWO)

730 CKDM MAN Dauphin, it appears that CKDM is now going back to at least a AN-5 schedule just like in summer. Off Sunday and Monday morning (JAM)

740**KBIG**CA Avalon, ET 3/16 0445-0500 with music (BN) 0428 3/6 with ID on ET w/OC. From past reports, I've noted KBIG usually IDs at 0428; don't mistake the carrier for CBL (no name or initials-rce)

840 WMOB**AL**Mobile; on for f/c 4th MM 2/28 0100-0115 (AWO)

850 WWJC MN Duluth, a pest here in Winnipeg during day hours. Schedules: March is 0730-1915; April 0700-2000; May 0700-2130 (JAM)

???? ?? CJJC could have been the c/w slashing up KOA and CKRD between 0630-0704 3/4. At 0652 a spot for a Winter Carnival and music til 0700 when there was a spot for Fabalous Ford and then news without any ID given (JAM)

860 WSON KY Henderson, good but fady w/CBS Nx 1825 + sign/off no SSB 1829 2/28 (AWO)

880**KRVN**NE Lexington, a very strong OC noted at 0110, checking later at 0200 KRVN noted running a series of tones every five minutes but no ID given. Also no sign of usual WCBS 3/1 (JAM) Finally hrd, good, 0010 3/9 with MoR music (DO) Good w/HS BKB 1937 3/11 (KDF)

900 ???? ?? UNID, in FF w/upbeat mx, FF ann. and, of all things, Folsom Prison Blues by Johnny Cash. 0432 3/6 (JB)

910 WJCW TN Johnson City, excellent w/CBS Nx 1804 and Randy Jackson and C&W music 1815 2/22 (AWO)

920 WGST GA Atlanta, fair w/Nx u/o WOKY 0330 3/9 (DP)

930 WGNT WV Huntington, fair w/Lum and Abner 1752 2/22 (AWO)

940 KFRE CA Fresno, 0130 3/6, inwell withe end of a discussion type program (JZ)

950 WBBF NY New York, probably the one hrd w/ID 0448 3/6 (KDF)

960 KFLN MT Baker, 4 state radio good with "channel 96" IDs. Sometimes hrd in Winnipeg during day hous. s/off 2000 3/4 (JAM)

970 WDAY ND Fargo; at 0130 WDAY gives a full s/off giving owners, power, etc. of their FM station and inviting their FM listeners to join 970 until their s/off 0210 (JAM)

KAKC OK Tulsa, poor way u/WWSW 0415 3/13 (KDF)

980 WSIX TN Nashville, fair WONE nulled 2246 3/10 w/MoR,unn. (DP)

1020 KGBS CA Los Angeles, good, some KDKA/CFRB/WHO QRM w/report on schools 0345 3/13 (DP) Good 1844 3/4 w/RR Mx (DO)

1050**KUPK**KS Garden City, TT 0215 onr/c (not heard prior to 0215 3/6 (BN)

NOW THAT WE ARE NO LONGER WEEKLY, TRY TO SEND YOUR REPORTS EARLIER!

EDITOR: Richard C. Evans.

DEADLINES: 3/30 4/13 4/27 5/11.

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1070 CBA NB Moncton, on top of freq. 3/6 0526-0527 o/KENR-KFDI
brief test 0527-0530 (BN)

KENR TX Houston, AN w/C&W 3/6 w/KNX off. CBA on top
0526-0537 (BN)

1080 CKSA ALB Lloydminster, very good and all alone 0430 3/1 with
ID as "SA Radio". No sign of usual pest KRLD (JAM)

WTIC CT Hartford, very good w/WTIC AM & FM ID 0500 3/6.
Bothered by an UNID tester at times (JAM)

KWJJ OR Portland, fair 1900 3/4 w/C&W music (DO)

1090 CHEC ALB Lethbridge, as usual, slashing KAMY, XEPRS with a
good signal 2200 2/29 with rock (JAM)

1140 KRAK CA Sacramento, 3/6 loud and clear w/0230 sign/off (JZ)

KGEM ID Boise, finally got this toughest of all Western
states 3/6 w/s/off 0200, contrary to CoF listed
0300. 3/6 proved to be an unreal western night (JZ)

KSOOSD Sioux Falls, in L&C w/0202 s/off (JZ) Good w/ID
on ET 0240 3/6 (KDF)

1150**KKUZ**IA Burlington, 0120-0130 f/c every three months as
per verie 1/30 5th Sun (AWO) (or last Sunday of
the month, perhaps--rce)

1170**KJAS**MO Jackson, hrd on ET 0114 3/5 w/TT and OC. New station
w/CP doing initial testing, soon to be on RS (JZ)

1210 WKNX MI Saginaw, very good w/rock 1817-1829 tune-out 3/4(KDF)

1260 KWHK KS Hutchinson, very good w/ID and Mutual Nx 2300 2/28
over CFRN/KPOW/KROX/WFBM but lost to the mess
by 2312 (JAM)

KWYR SD Winner, very good w/UPI Nx 1900 Wx and s/off 1915,
mentioning s/on at 0600. CFRN/KROX QRM (JAM)

1270 CHAT ALB Medicine Hat, fair u/o KFJZ/unID TT w/C&W album
cuts 0250, Nx at 0300 3/13 (DP) (That tone is a het
from a Cuban station off frequency--rce)

1280 CHAM ONT Hamilton, fair w/Mx 0307 3/13 (KDF)

1300 KOZE ID Lewiston, good 0502 2/28 w/RR Mx (DO)

1310 WJAM AL Marion, fair w/news 1801 2/21 (AWO)

WIFE IN Indianapolis, very poor u/WKNR/WDOD 0304 3/13 (KDF)

WKNR MI Dearborn, fair w/rock 0502 3/13 (KDF) Good at s/on
o/WIFE 0500 3/13 (DP)

WDOD TN Chattanooga, very good at s/on w/Dixie 0500 3/13(KDF)

WRR TX Dallas, fair 0510 2/28 w/RR music (DO) /// (DP)

1320 WVOJ FL Jacksonville, good w/WJAS/WILS QRM w/C&W mx 0405 3/9

KXYZ TX Houston, poor, u/WILS/WJAS w/HI show 0300 3/9 (DP)

1340 KQIL CO Grand Junction, hrd 0255-0304 C&W 3/6 w/KDEN off
again. 1st time heard (BN)

WIZE OH Springfield, good w/R&R o/WJOL 1748 2/24 (AWO)

1350 WIOU IN Kokomo, xlnt o/KRNT w/R&R 1918 3/11 (DP)

KRNT IA Des Moines, fair u/WIOU w/Wx 1915 3/11 (DP)

1370 KAST OR Astoria, fair 0214 3/10 with RR music (DO)

KSOP UT Salt Lake City, C&W 1952-2000 s/off 2/27 (BN)

1380 KUDL KS Fairway, good o/KWK/WNUS slop w/R&R 0248 3/11 (DP)

KJET TX Beaumont, hrd ID: "This is KJET-AM, KJET-FM, Beau-
mont, Texas". 0422 3/6. Hrd no tone, just ID (JB)

1400 KAKO LA Lake Charles, 0418 3/6 w/RR and a "More music-KAKO"
jingle. Tnx BWL (JB) (KDF)**

KFRU MO Columbia, Fair in mess 1929-1931 w/ID, Wx, spot 3/11*

1410 WUNI AL Mobile, good w/Nx 1830 2/22 & C&W Mx 1835 (AWO)

KCOL CO Fort Collins, AN w/March of Dimes broadcast 3/1 (BN)

WIZM WI LaCrosse, good o/WING w/s/off 0110 3/13 (DP)

1420 WVJS KY Owensboro, fair w/R&R 1826 3/9 (DP)

25 MARCH 1972

CENTRAL DX ROUNDUP

Page 9

EDITOR: Richard C. Evans

DEADLINES: 3/30 4/13 4/27 5/11

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1460 WRAC WI Racine, Poor w/MoR 1706 2/22, a lot of WVON slop(AWO)

1490 CFRC ONT Kingston, licence has been extended to March 31,1974 from March 31, 1972 (JAM)

CJSN SAS Shanavon, has to be the one heard IDing as SWSN Radio 1915 3/4 (DO)

KNDC ND Hettinger, very strong with ID and Nx 1857 3/4 (JAM)

1510 CJRS PQ Sherbrooke, presumed w/FF rr/mx and a FF ann. at 0416, 3/6. Lpd NE but weak signal. (JB)

1540 WSWG MS Greenwood, (x-WLEF) fair w/spots + ID 1841 2/29(KDF)

1550**KIWA**IA Sheldon, very good on test with many IDs. Mentioned getting a call from John Oldfield at 0325. KIWA heard many times at SSS (JAM) On DX w/instr. Mx and good signal. (JB) In with great signal on DX 3/6 0305 (JZ) On DX program wellon top of XEBG all the way 3/6 (BN) Very good on DX test w/Mx and voice IDs as promised from 0300 3/6 (KDF)

KGMO MO Cape Girardeay, Fair w/ID at 1900 o/CBE 3/4 (KDF)

KKJO MO Saint Joseph, pest noted all night 3/1 w/female DJ, I hope this AN thing isn't too regular. Only KKHI left on this frequency at this time. (JAM)

1560 WDXR KY Paducah, s/off 0006 w/SSB 3/13 (KDF)

1570 KOLS OK Pryor, fair-good at s/off o/unID QRM 1930 3/9 (DP)

KVRA SD Vermillion, 1915-1921 3/11, sports promo, old song, then lost to bad line noise (rce)

1580 KFDF AR Van Buren, fair o/CBJ w/s/off no SSB 1931 3/9 (DP)

WESY MS Leland, s/off 1915 3/11 (rce)

KZIA NM Albuquerque, s/off 1945 2/27 w/SSB (BN)

1590**KINT**TX El Paso, on ET/TT 0345-0400 3/1 (1st Wed) (BN)

PER THE LIST:

1st MON: WPLB-1380 MI (AWO) 3rd MON: WKSK-1600 NC (AWO)

KNOX-1310 ND (BN) KXEO-1340 MO (AWO)

KCUZ-1490 AZ (BN) WDIC-1430 VA (AWO)

2nd THU: WPCF-1430 FL (DP) WPJD-1550 TN (AWO)

WFLW-1360 KY (DP) 4th MON: KOBE-1450 NM (BN)

2nd FRI: KXIT-1410 TX (DP)

A TIP OF THE HAT THIS WEEK TO:

JB - JIM BOYD, 9017 E. 29th Court, Tulsa, OK 74129 (3)

rce - RICHARD C. EVANS, Box 2146, East Chicago, IN 46312

KDF - KARL FORTH, 142 E. Division, Villa Park, IL 60181 (2) (3)

JAM - JOE A. MARKEWICZ, 1394 Elgin Ave. West, Winnipeg, Man. R3E 1B6

BN - BILL NITTLER, 4590 S. Julian St., Englewood, CO 80110 (4)

AWO - ALLEN W. OGRIZOVICH, 3128 N. Kolmar, Chicago, IL 60641

DO - DAVID OLIPHANT, 798 - 16th St. NE, Medicine Hat, Alb. (5)

DP - DAVID PETERSON, 800 Humboldt, Winnetka, IL 60093 (2)

JZ - JOHN ZONDLO, 6617 Maryland, Hammond, IN 46323 (1)

Typing the (4) above for Bill Nittler reminded me of the days that I used to get the DXM overnight from Denver (via first class mail). They would be postmarked on Wednesday afternoon, and I would read the bulletin while eating supper on Thursday. Those were the good old days! The pictures in the anniversary issue looked great, but they didn't need to put that one of me in there. I know who the mystery person is, but the name eludes me. Oh well, such is life, hi. I think DEE would like me to mail these stencils, so 'll quit. -73-

GENE MARTIN - 3303 E. Evans Avenue - Denver, Colorado 80210

What is your choice as to the ten most powerful stations in the 48 states? Which ones deliver the strongest signal, in all directions, 1,000 miles away from the transmitter? I have listened to them for many years from New England to California, from Canada to far down into Mexico, and this is the way I would line them up: No. 1 is WWL-870, so superior to all others that it deserves being put in a class by itself. #2 WBAP-820, #3 KFI-640 (nothing else west of the Rockies is even worth considering) #4 WOAI-1200, #5 WJR-760, #6 WBZ-1030, #7 WLS-890, #8 WGN-720, #9 WLW-700, #10 WCAU-1210. I would be quite uncertain in ranking the next 10 strongest stations, but certain high-powered 50 kw clear channel stations are conspicuous for weakness. At the bottom of the list I would put WKYC-1100 with KDKA-1020 only slightly better. Also seems to me that WSB-750, WSM-650, WCCO-830, & WHO-1040 are rather poor performers judging from their power and frequency. So if you see 'em differently, send in your own list! Liven up the Monitor!

BILL NITTLER - 4590 So. Julian Street - Englewood, Colorado 80110

Big event here is reaching another milestone as I surpassed 2500 mark this week in veries. New ones are: KAYQ-1190, KCCR-1240, WDZ-1050, WMOB-840, KLEY-1130, WAQY-1220-dx, KSOP-1370, KRZE-1280, KLWW-1450, & KQIL-1340. Those underlined came on f/ups with 19 of them going out last week. KQIL narrows needed Coloradoans to 4: KEDI-1490, KGUC-1490, KFLJ-1380, & KBRR-1230. Richard Wood hears KBRR at 2700 miles away but I can't get them at only 125! They are my most wanted station. I have KEDI and KBRR's previous calls verified, though. Can't get KFLJ due to KFML splatter and KQXI-1550 image, although they have been heard in the Denver area in the daytime by other DXers. Am between 1/2 mile and 3 miles of 10 of the Denver area transmitters which makes daytime images frightful. Just what we need is another area station, too, with its transmitter on the south side of the city! Good DX. 73.

Joseph A. Markewicz - 1394 Elgin Avenue, W. - Winnipeg, Manitoba, R3E 1B6

What'll you know. The DAM postmarked 2/23 arrived here on 2/25. I wonder what happened to the post office? On 3/11 CJOB-680 will be celebrating their 26 years of service to Winnipeg so they'll be giving a car away. From what I read in the newspapers, CJOB first came on the air at 1380 kHz with 500 watts. The KLWA test was heard good here for the full 2 hours. KLWA is usually heard here at SSS but the 1550 mess makes it a bit hard to get a good copy from them. That KIMM-1150 test should get out well as KIMM usually messes up CKX all day during the winter. I found KIMM to be a friendly station as they sent me a v/1 and a form letter in a week. 73.

DARRYL BELANGER - Box 495 - Swan River, Manitoba, Canada R0L 1Z0

A few new loggings heard here lately, namely WJMC f/c, KSDR f/c, KYSS f/c, XEHL, CJOI testing, KXXL f/c also heard on RS s/off. Unneeded stns heard all f/c: KLMS WXCL KPUR WLDY. Veries since last report; v/q KENO (9 mos); KYMN CJJC KSDR WJMC KYSS KDEN KXXL all v/1. Also logging of KWYS test of 11/27/71 on a tape playback of KORK reception on same night. ID heard after KORK news on tape while replaying tape for ID's on 1/21/72! From this made a delayed report, which was sent back to me unclaimed! I think I'll send it to the engineer at KXXL as they are sister stations, maybe with better results. Only test program heard here lately is KSDR f/c on 2/5/72. All others not heard due to locals, semilocals and QRM. Not doing too bad on f/c in IRCA list though. KYSS f/c of note has 800 hertz tone, 1000 hertz code ID's as per verie. Totals revised upward slightly to 452/184 36/32 6/6. Oops, just heard KYNT-1450 at 12 pm s/off. John Oldfield, "I hope not!!" About it for now. 73.

Central DX Forum editorship open As officially announced on page 1 of this, per phone call from IRCA President Percy R. Kesteven, Lynn

Brooks has resigned as CDXF editor due to waning interest in the hobby and the desire for more time with his family. Lynn has done a truly outstanding job having served these many years. If you'd like an opportunity to be of service to the club, now is the time to volunteer for CDXF editorship. See front page for more information; write DEE for a test stencil to see how well your typewriter will type stencils. Let's make Lynn's final sections the LARGEST in club history! The new editor will probably be announced in the May 20, 1972, issue of DX Monitor. -DEE

March 25, 1972

WESTERN DX ROUNDUP

Page 11

Editor: Bill G. Powers, 4155 Madrona Road, Riverside, CA 92504. Powerline: (714) 688-6318 (wkends & holidays only). Deadline: Fridays. Pse dbl space between items, single-space w/in items, & type or print on only 1 side of page. Be informative & try to follow WDXR format. Tnx.

=====
(PRK) Percy R. Kesteven, 13112 - 134 Street, Edmonton 44, Alta, CANADA.
(GM) Grant Manning, 4034 Ingraham Street, San Diego, CA 92109.
(MM) Mike McCullough, 5240 Rhonda Drive, San Jose, CA 95129;
ARB w/60-ft. longwire & IRCA Loops.
=====

540 KNOE LA Monroe in wk 3/5 0515 w/RR. Not enuf for a rpt, drat!
580 CKY MAN. Winnipeg in fair/poor w/end of nx & wx, ID //(PRK)
u/WIBW/KFXD 3/13 0403. (MM)
610 KOJM MT Harve in fair w/s/on in mess u/KFRC OC, soon killed,
3/15 0757. (MM)
WDAF MO Kansas City in fair u/KFRC OC w/ID & RR 0630 3/15. (MM)
KVNU UT Logan in fair/gd w/s/on in mess u/KFRC OC, NA used 0758
3/15. (MM)
CHNL BC Kamloops in gd w/Hist. of RR & NL IDs 0610-0730 3/15.
Local KFRC was off! (MM)
620 WSUN FL St. Petersburg in gd w/MoR & sun IDs 0545-0600 3/13.
630 CKOV BC Kelowna in fair/poor battling it out w/KHOW/CHED //(MM)
w/ad 0450 3/6. (MM)
660 KSKY TX Dallas in gd w/Relig. & ID 0745-0801 3/4. (MM)
700 KBYR AK Anchorage in fair w/RR-C&W & ID 0600 3/13. (MM)
750 KFQD AK Anchorage in w/gd sig, old RR & ID u/JOLB & UnID TT
0445 3/13. (GM)
810 WMTS TN Murfreesboro in fair/poor w/s/on mentioning FM outlet
0700 3/6. (MM)
WJSC MS Magee in fair w/ad for cleaners & mobile homes in Jack-
son 0730 3/12. (MM)
820 WAIT IL Chicago in fair/gd w/end of nx & wx, ID o/u WBAP 0704-
0708 3/6. (MM)
850 KTAC WA Tacoma in w/gd sig & SID, RR 3/6 0403 o/others. (GM)
CJJC BC Langley in w/end of nx, C&W mx. Vy gd sig here 3/13
0407. (GM)
880 KRVN NE Lexington w/wx & nx on clear sig 3/12 0758. (PRK)
920 KLMR CO Lamar in fair/poor w/ads, wx for Lamar & surrounding
states. KNEW slop didn't help any 3/13 0808. (MM)
990 ??CBUS?? BC 100-Mile House may have been the LPRT hrd relaying CBC
net pgmning 3/13 0331. Poor sig, but readable. Have CBUS
veried some years back. (PRK)
1010 WINS NY New York City in vy wk w/nx & PSA for IRS 3/12 0528.
XEHL s/on 0530 was wk but completely wiped out WINS. (PRK)
1140 KNAB CO Burlington in gd w/ad for Burlington, YL DJ & C&W mx
0808-0815 3/6. (MM)
1150 KPUL WA Pullman in fair w/son w/FM stn 3/11 0900. (MM)
??KSED?? MT Shelby in fair w/ID in mess 3/11 0900. Are these new
calls? (MM)
1190 WOWO IN Ft. Wayne in fair/gd w/RR & ID, w/KLOK-1170 testing on
SM 0714 3/12. (MM)
1220 WGAR OH Cleveland in fair/poor w/end of & ID in null of CKDA
3/6 0432. (MM)
1230 KRIZ AZ Phoenix in w/ID 0303 3/6 w/old RR. (GM)
1240 KCYN AZ Williams in fair/poor w/s/on in mess 0800 2/28. (MM)
KSUE CA Susanville in gd w/end of nx & wx for N. E. CA, ID 0936
3/4. (MM)
KSON CA San Diego in poor w/ID on s/on 0800 3/13. (MM) //(MM)
KFLY OR Corvallis in fair w/BKB scores, nx then s/off 0257 3/5.

- 1270 KGUY CA Palm Desert (ex-KGOL) hrd on end of ET w/gd sigs 0325 2/28. (MM)
- CHAT BC Medicine Hat in fair w/end of nx & s/off in partial null of CHWK 0310-2/28. (MM)
- 1290 KOWB WY Laramie in fair/poor w/son in mess 0756 3/6. (MM)
- 1350 KLYD CA Bakersfield in fair/poor w/son for FM-AM 3/12 0900. Only 25 more CA stns to hear from SJ! (MM)
- 1370 **WFEA** NH Manchester in fair w/nx then KXLF SSB came on. In the silent part of the NA I hrd WFEA's ID 0212 2/28. State #43!
- WGOH KY Grayson in poor/fair on f/c-ET, mentioned WGOH-FM, then TT, no ID @ end of f/c 0430-0445 3/13. (MM) //(MM)
- 1380 KRKO WA Everett in w/SID 0352 wk but steady sig, RR mx 3/6. (GM)
- 1410 KCAL CA Redlands in fair w/SS ID 2045 3/3. (MM)
- 1450 KGMV MT Missoula on ET AN 3/5, ID finally 0534 u/KXXL. (PRK)
- 1480 KSDR SD Watertown relogged after many months w/C&W mx 3/12 0730. Fair sig w/heavy fading. (PRK)
- 1550 KIWA IA Sheldon 1st (maybe 2nd) DX test hrd this season. Had gd sig for 500 watts ND. (PRK)

For the benefit of some of the newer members, the Roundup sections are for items of interest to other DXers, not a column for bragging. The principal idea is to list the stns hrd w/as much info on the stn as you have which will help someone else to identify it...with emphasis on detailing the reception: was there QRM, QRN, slop, TVI, or what? Just saying a sig was wk tells us only that the sig was readable but that there was no interference, no fading or anything else unless you tell us there was. For this reason, I say BE INFORMATIVE. The more you give, the more you will help others. That doesn't mean sending seventeen pages of rpts, but it DOES mean sending GOOD-QUALITY rpts. If you agree w/me, or if you have any comments on the above, feel free to write me. Enuf of my lecturing for now...CU in 7! 73's all & Good DX. --BGP.

(RWJ) Roy W. Jaynes, 1057 W. Hilliard Lane, Eugene, Oregon 97402 Drake SPR-4, SM-2
 (PM) Parker Moore, 4626 Dunbar St., Vancouver 8, B.C. CANADA Philips P-145

- 860 CFPR B.C., Prince Rupert 3/8 0115-0120 nx, wx, and coverage of N.H. primary.
- 880 KRVN Nebr. Lexington in w/very good sigs. At first, testing. Later (RWJ) (0000 EST) RS, "Inspiration Through Scripture" till 0030. (PM)
- ???? unIDed SS station - A Mexican. Wiped out by KRVN. What is it? (Why assume a Mexican, Parker? Not all SS are Mex. Much more likely TGJ in Guatemala City, Guat., "Radio Nuevo Mundo." In either case, it belongs in DXWW, not WDXR -DEE) Time assumed same as KRVN item. (PM)
- 1010 CFRB Ont. Toronto 3/4 0630-0640 w/ID, nx, wx. (RWJ)
- 1320 KCPX Utah. Salt Lake City 3/7 0018-0023 w/ID, rr mx, PSA for Veterans Administration, and spot for Colonial Ford. (RWJ)
- 1380 KTOM Calif. Salinas 3/7 0110-0130 o/u KRKO intermittently, hrd IDs from both stns. (RWJ)
- 1540 KFKF Wash. Bellevue nx, sports, wx, ID, mx 0132-0210 3/7. (RWJ)

NOTE: These two rpts typed by DEE; Bill typed stencils for 3/11 issue a bit late (at my request) leaving little for 3/18; since he was out of town during week, he kindly offered to let me type these for 3/18 issue. Unable to do that, I was also not able to return them to him for 3/25 issue. So they appear here. Typing Roundup material is NOT easy work; before you volunteer for a job of that type, you should be prepared to spend 3 times as many hours as the job would appear to require. The patience of Job and the accuracy of the IRS (?) are also useful.

Show your report for the Roundup editors by contributing at least something as many issues as possible. Anyone have a good idea how to encourage participation in this all-important section of DX Monitor? Send them to the President or Publisher. -DEE

Tenth Annual Edition - Corrected to March 1972

Compiled by Ronald F. Schatz

This list of Cuban medium-wave broadcasting stations is the result of the monitoring activities of the compiler modifying basic data obtained through the Instituto Cubano de Radiodifusion; 23 y L, Vedado; Habana 4, Cuba. Estimated accuracy - 97%. This list appears concurrently in DX News, published by the National Radio Club. Reproduction by others in whole or part without the written permission of the author is strictly prohibited.

<u>kHz</u>	<u>Call</u>	<u>Location</u>	<u>kW</u>	<u>Identification</u>
550	CMAN	Pinar del Río	30	Radio Rebelde/Voz de Cuba
570	CMHI	Santa Clara	10	Radio Rebelde
580	CMJM	Ciego de Avila	.5	Radio Rebelde
590	CMW	La Habana	150	Radio Rebelde/Voz de Cuba
600	CMKV	San Germán	150	Radio Rebelde/Voz de Cuba
610	CMHV	Trinidad	1	Radio Rebelde
630	CMHQ	Santa Clara	50	Radio Liberación/Voz de Cuba
640	CMQ	La Habana	50	Radio Liberación/Voz de Cuba
650	CMKU	Santiago de Cuba	2	Radio Liberación
660	CMHG	Santa Clara	10	Radio Progreso/Radio Enciclopedia
670	CMAF	Pinar del Río	10	Radio Progreso/Radio Enciclopedia
	CMKP	S. Pedro de Cacocum	50	Radio Progreso/Radio Enciclopedia
680	CMHN	Cienfuegos	5	Radio Progreso
	CMDB	Santiago de Cuba	1	Radio Progreso
690	CMBC	La Habana	50	Radio Progreso/Radio Enciclopedia
700	CMJT	Ciego de Avila	1	Radio Progreso
720	CMGN	Colón	30	Radio Rebelde/Voz de Cuba
730	CMAQ	Pinar del Río	1	Radio Liberación
	CMKJ	Holguín	10	Radio Liberación
740	CMJL	Camagüey	10	Radio Liberación/Voz de Cuba
760	CMCI	La Habana	10	Radio Reloj Nacional
770	CMKB	Las Mercedes	5	Radio Revolución
780	CMJN	Camagüey	60	Radio Rebelde
790	CMCH	La Habana	10	Radio Cadena Habana
810	CMJE	Camagüey	5	Radio Progreso/Radio Enciclopedia
830	CMCA	La Habana	10	Radio Cordón de la Habana
840	CMHW	Santa Clara	10	W, La Frecuencia del Azúcar
850	CMKC	Santiago de Cuba	2	Radio Revolución/Voz de Cuba
851	CMDC	Holguín	5	Radio Revolución
860	CMJY	Ciego de Avila	1	Radio Cadena Agramonte
870	CMBL	La Habana	1	Radio Internacional
	CMDN	Guantánamo	10	Radio Rebelde/Voz de Cuba
890	CMHD	Santa Clara	1	CMBF, Radio Musical Nacional
	CMDZ	Santiago de Cuba	1	CMBF, Radio Musical Nacional
900	CMJV	Ciego de Avila	1	Radio Liberación/Voz de Cuba
910	CMJB	Camagüey	1	CMBF, Radio Musical Nacional
930	CMGX	Matanzas	1	CMBF, Radio Musical Nacional
940	CMHE	Fomento	1	W, La Frecuencia del Azúcar
950	CMBF	La Habana	10	CMBF, Radio Musical Nacional
	CMDJ	Guantánamo	1	Radio Revolución
960	CMGL	Matanzas	.25	Radio Reloj Nacional
	CMHB	Sancti-Spiritus	1	Radio Progreso
980	CMCK	La Habana	5	COCO, El Periódico del Aire
990	CMHT	Sancti-Spiritus	1	Radio Sancti-Spiritus
1000	CMAF	Guane	.25	Radio Guamá
1010	CMAS	Pinar del Rio	1	Radio Guamá

<u>kHz</u>	<u>Call</u>	<u>Location</u>	<u>kW</u>	<u>Identification</u>
1011	CMKM	Holguín	5	CMBF, Radio Musical Nacional
1019	CMAC	San Cristóbal	5	Radio Guamá
1030	CMFA	Camagüey	1	Radio Cadena Agramonte
1040	CMBN	Isla de la Juventud	1	Radio Caribe
1059	CMKG	Baracoa	1	Radio Revolución/Voz de Cuba
1060	CMBQ	La Habana	5	Radio Enciclopedia Nacional
1080	CMBM	Isla de la Juventud	1	Radio Caribe
1100	CMHU	Cienfuegos	1	Radio Ciudad del Mar
1120	CMDL	Holguín	1	Radio Angülo
1130	CMHA	Santa Clara	1	Onda Musical
	CMKL	Santiago de Cuba	2	Radio Reloj Nacional
1140	CMJK	Camagüey	1	Radio Camagüey
1150	CMDO	Banes	.25	Radio Banes
1160	CMAD	Artemisa	1	Radio Artemisa
1190	CMJP	Ciego de Avila	1	Radio Surcos
1210	CMJX	Morón	.25	Radio Morón
1211	CMKD	Holguín	1	Radio Reloj Nacional
1220	CMGY	Perico	5	Radio Veintiséis
1230	CMGM	Jagüey Grande	1	Radio Veintiséis
1240	CMGW	Matanzas	1	Radio Veintiséis
	CMKE	Victoria - Tunas	.25	Radio Revolución
1250	CMHP	Placetas	.25	W, La Frecuencia del Azúcar
	CMKA	Guantánamo	.25	Radio Reloj Nacional
1260	CMAG	Consolación del Sur	1	Radio Reloj Nacional
	CMDE	Bayamo	.25	Radio Reloj Nacional
1269	CMJG	Camagüey	1	Radio Reloj Nacional
1280	CMHM	Santa Clara	1	Radio Reloj Nacional
	CMDF	Victoria - Tunas	.25	Radio Reloj Nacional
1290	CMKS	Guantánamo	1	Radio Guantánamo
1300	CMJQ	Nuevitas	1	Radio Nuevitas
1301	CMJD	Ciego de Avila	.5	CMBF, Radio Musical Nacional
1306	CMHK	Cruces	1	Radio Reloj Nacional
1310	CMDD	Bayamo	1	Radio Revolución
1330	CMJS	Ciego de Avila	1	Radio Reloj Nacional
1340	CMGU	Los Arábo	.25	Radio Reloj Nacional
	Guantánamo Bay N.B.	1	A.F.C.N. (U.S. Navy)
1350	CMKY	Puerto Padre	.25	Radio Puerto Padre
1360	CMBG	La Habana	1	Radio Popular
1370	CMKW	Santiago de Cuba	1	Radio Siboney
1390	CMKX	Bayamo	1	Radio Bayamo
1400	CMJI	Florida	.25	Radio Centro de Florida
1420	CMDX	Baracoa	1	La Voz de Baracoa
1430	CMKZ	Palma Soriano	.25	Radio Baraguá
1450	CMJW	Santa Cruz del Sur	.25	Radio Maboá
1460	CMCG	Marianao	1	Radio Marianao
1470	CMGE	Cárdenas	1	Radio Ciudad Bandera
1520	CMKT	Victoria - Tunas	1	Radio Victoria
1550	CMDV	Santiago de Cuba	.25	Radio Santiago
1560	CMGB	Cárdenas	.25	Radio Reloj Nacional
1590	CMDF	Manzanillo	.25	Radio Manzanillo

Address all correspondence to:

Ronald F. Schatz - P. O. Box 2814, AMF - Miami, Florida 33159

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A BEGINNER'S GUIDE TO THE IONOSPHERE

Father Jack Pejza

The propagation of radio waves depends on many things. One of the most important factors controlling the way they travel outward from a transmitter is the presence of layers of electrically charged particles in the atmosphere. Without these layers, radio signals would not travel more than about a hundred miles from the transmitter. In this article I intend to show how these layers, collectively called the ionosphere, are produced and how they differ. In Part II, I will show how radio waves are affected by the ionosphere, permitting long distance reception. Since I am not by profession a radio engineer, I do not claim to be an expert on the ionosphere, and consequently have drawn on the knowledge of others. A bibliography of works consulted is appended to this article.

Composition of the Atmosphere

The atmosphere of the earth is a mixture of gases held to the earth by gravitational attraction. It is densest at sea level and thins out rapidly as one goes upward. Almost all (97%) of the air lies within 25 kilometers (18 miles) of the surface of the earth; 50% is within 5 km (3 miles). The lowest region, within 15 km (10 miles) of the surface, called the troposphere, is of little direct interest to the DXer, since it has little effect on MW radio waves. It is of interest to the weatherman, since almost all of the water vapor responsible for weather is here. Weather seems to affect radio waves mostly in the static produced by thunderstorms, but some scientists feel that temperature changes about 30 km up produce the "midwinter anomaly".

Ordinary pure air is colorless and odorless. It consists mostly of nitrogen (78%) and oxygen (21%) molecules. Small amounts of other gases make up the other one-percent. Although the gas molecules are attracted to the earth by gravity, the fact that they are warm keeps them moving above the surface. (According to the kinetic theory of gases, the kinetic energy or energy of motion they possess is directly related to their temperatures; they move faster when they are hot.) Because of their motion, they spread outward and upward from the surface. The atmosphere never really ends; it just gets thinner and thinner until its density matches that of interplanetary space, about 10,000 km (6000 miles) above the surface. At a height of 100 km (60 miles), it is only one-millionth as dense as it is at sea level; at 300 km (the height of the F region), it is only one-billionth as dense.

At lower levels, the different gases remain fairly well mixed, but at greater heights they start to separate. The light molecules rise higher than the heavier ones because gravity exerts less pull on them; also at any temperature they have greater average speed. Starting about 90 km up, four distinct layers of gas are encountered: molecular nitrogen (N_2) from 90 to 200 km; atomic oxygen (O) from 200 to 1000 km; helium (He) from 1000 to 3500 km; and atomic hydrogen (H) above 3500 km. These layers do not have sharp boundaries on top and bottom, but gradually blend into one another. The division into layers is caused by their differences in weights. Molecular nitrogen, the heaviest, is closest to the earth. The portion of the atmosphere we are interested in occurs between 60 and 400 km, in the molecular nitrogen and atomic oxygen layers.

Solar Radiation

The ionosphere would not be present in the earth's atmosphere if it were not for the action of the sun's radiation. Solar radiation causes molecules of oxygen and nitrogen, consisting of two atoms bound together, to separate into single atoms or atomic oxygen and nitrogen. These, as well as some of the molecules of nitrogen and oxygen are then ionized, i.e., one or more of the electrons of the atom gain sufficient energy to escape from the atom or molecule. Since the electron is electrically negative, the remaining atom or molecule then has a positive charge, and is known as an ion. The ionized particles in the ionosphere are ordinarily produced from atomic oxygen (O^+), molecular oxygen (O_2^+), and molecular nitrogen (N_2^+).

Solar radiation reaching the outer edges of the earth's atmosphere consists of a wide range of electromagnetic radiation. Infrared rays (heat) and visible light together make up 91% of the radiation. It is the other 9%, consisting of X-rays, gamma rays and ultraviolet light, which is responsible for the ionization of the atmosphere. These rays possess much more energy than visible light or infrared rays, and thus are able to give electrons sufficient energy to escape. The energy of any type of radiation is related inversely to its wavelength. X-rays which have short wavelengths are more energetic than the longer ultraviolet rays which in turn are more energetic than visible light or infrared radiation. Wavelengths of all radiation up through visible light is commonly expressed in units called Angstroms (one Angstrom equals 10^{-10} meters). X-rays have wavelengths less than 1000 Angstroms, ultraviolet waves have lengths between 1000 and 4500 Angstroms.

At any point on earth or in the atmosphere the amount of solar radiation received in one day depends on the angle at which the sun's rays hit (the so called solar zenith angle) as well as the length of time that spot is exposed to the sun. These factors are determined by the latitude

of the place and the path of the sun at various seasons. The rays are most intense where the rays hit vertically as they do in the tropics. Where the rays arrive at some other angle the same amount of solar radiation must spread out over a larger area thus making the intensity less. Thus one square mile in the polar regions will receive less energy than a square mile in the tropics. Since the axis of the earth is tilted $23\frac{1}{2}^\circ$ from the plane of its rotation the amount of energy received at any spot changes with the seasons. A spot in the northern hemisphere will receive more intense radiation in summer than in winter.

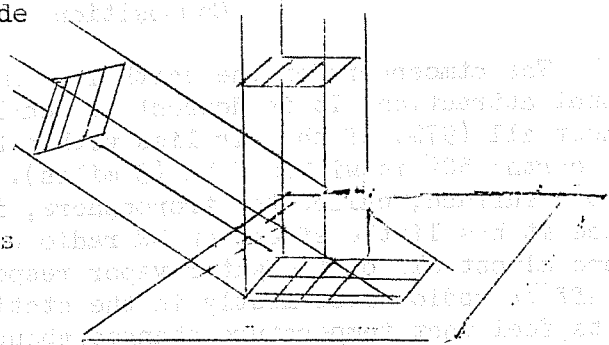


Figure 1 The angle of the sun's rays determines the intensity of solar energy received by a surface.

Action on the Atmosphere

Let us see in a general way what happens when radiation from the sun passes through the upper atmosphere. At the top of the atmosphere, since there are so few gas molecules or atoms, the number of electrons which are freed is extremely small. Closer to the earth, the sun's rays encounter more molecules with a subsequent increase in the number of electrons produced. Since each collision of a photon of energy with a gas molecule removes that photon from the beam of radiation, the beam gets weaker as it progresses downward. At certain heights the rate at which the number of gas particles in increasing downward is matched by the weakening of the radiation downward. At these points the rate of production is greater than at places higher or lower. These areas of greatest production are called electron peaks. Above a peak, the radiation is stronger, but there aren't enough gas molecules to produce a high concentration of electrons by ionization. Below the peak, there are more gas molecules, but the radiation has weakened to the point that fewer electrons are released than at the peak.

The graph in Figure 2 shows the concentration of electrons at various heights. The peaks marked D, E and F1 are called Chapman layers, after Sydney Chapman who studied them in detail in the 1920's. From his studies, he concluded that the height of these layers depended on the concentrations and types of gases present and on the type of radiation affecting each gas. The D and E layers are produced by radiation which is not absorbed higher in the atmosphere. The rate at which electrons

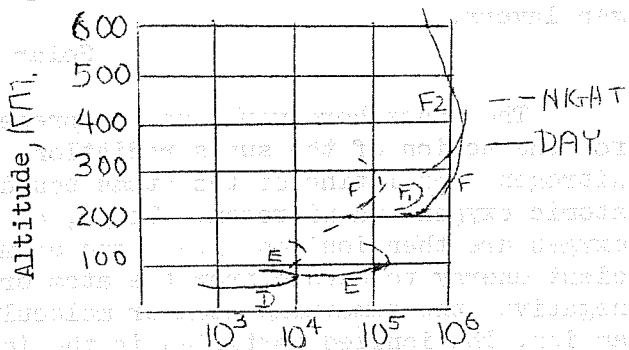


Figure 2. Concentration of electrons/cm²

are produced at the peaks also depends on the strength of the radiation. Since the radiation reaching the D and E layers is not as intense as that reaching the F1 level, the concentrations of electrons in these two levels are lower. The rate of production also depends on the angle from which the radiation arrives. Electrons will be produced in greatest amounts each day at noon when the sun's rays arrive closest to the vertical. In the yearly cycle they will be produced in greater number in summer when the sun is highest in the sky.

Chapman also found that all the layers of electrons have similar shapes. They differ only in their heights and rates of electron production. Strictly speaking, it is erroneous to call them "electron layers", since atoms are ionized both above and below these points. "Electron peaks" would be a more accurate way of describing the electron concentrations at these levels, but "layer" continues to be the term used.

Layers of the Ionosphere

In 1901 Marconi succeeded in transmitting radio signals from England to America, over the bulge of the earth. Since it was known that electromagnetic waves travel in straight lines and are bent or diffracted only slightly, Heaviside and Kennelly proposed in 1902 that the radio waves had been reflected from an atmospheric layer consisting of free electric charges. Heaviside called it the "electrified layer"; others called it the Heaviside layer. Later, Appleton discovered another higher layer. To distinguish between the two layers, and to make room for other possible layers, he called the Heaviside layer the E layer and the new layer the F layer. Subsequently a lower region of ionization, the D region, was discovered. It was also found that the F layer consisted of two layers which separated during the day and merged at night and that the concentration of electrons decreased at night in all layers.

Ignoring the highest layer, the F2, for the moment, we find that the next highest layer, the F1, or Appleton layer, is produced at heights of 150 to 170 km when X-rays strike molecular nitrogen and atomic oxygen. These X-rays have wavelengths between 200 and 800 Angstroms. The predominant electron producer is X-rays produced by helium in the sun, with a wavelength of 304 Angstroms.

The E layer is produced about 110-100 km up by two processes. Very energetic X-rays, with wavelengths less than 100 Angstroms, ionize oxygen and nitrogen. In addition, ultraviolet light with wavelengths near 1000 Angstroms ionize oxygen. At noon there are about 10^5 electrons/cm³ disassociated; at night the concentration drops to 10^3 - 10^4 .

Below 90 km, in the D region, the X-rays which have not already been absorbed are extremely energetic, with wavelengths less than 20 Angstroms. They are able to ionize any gas they encounter. They produce the little squiggle at the extreme left end of the graph in Figure 4. The amount of such X-rays is quite small and not many electrons are produced by this kind of radiation. Most of the electrons in the upper part of the D region are produced in a different fashion. Between 60 and 90 km, atomic nitrogen, produced by photochemical reactions in the E region, diffuses downward and reacts with oxygen to produce nitric oxide, NO. This gas is ionized by ultraviolet light up to 1340 Angstroms. It so happens that hydrogen in the sun produces ultraviolet light in this range, 1216 Angstroms to be exact (the Lyman-alpha line). Nitric oxide is thus ionized to produce a large supply of electrons about 85 km above the surface.

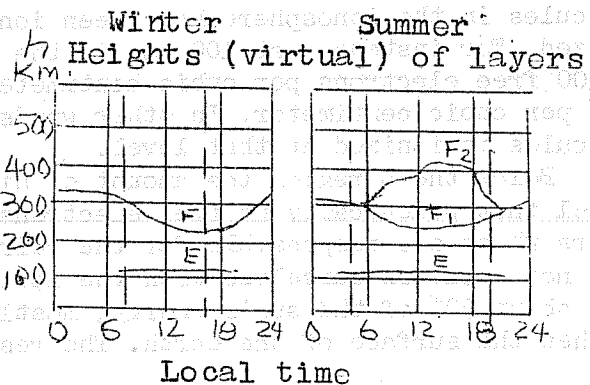
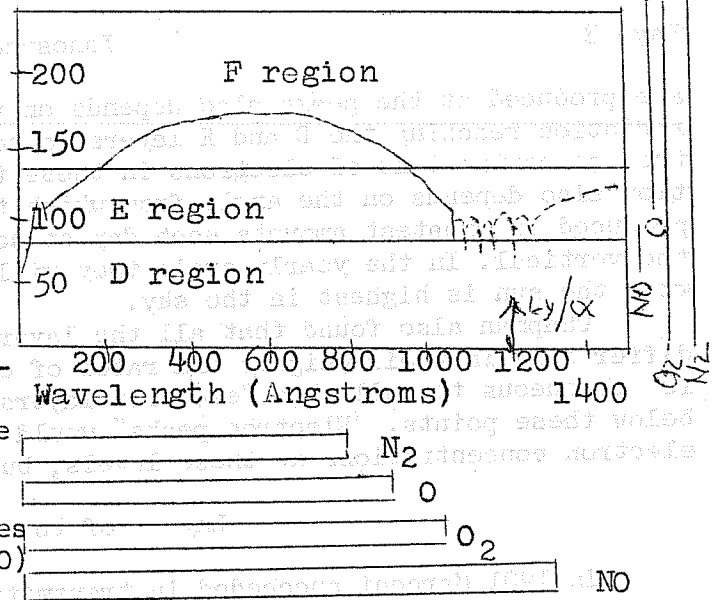


Figure 3. Daily variations

Figure 4. The formation of the ionospheric layers. The gases available to be ionized are distributed on the right-hand side, while the wavelengths of radiations that can ionize them are marked below the horizontal scale. When radiations of different wavelengths are absorbed by the ionosphere they have their strengths reduced by a factor $1/e$ at the heights shown on the curve. Those that can ionize the major gases (the continuous part of the curve) produce electrons most rapidly at these levels. Those that cannot ionize the major gases are indicated by the broken line. The strong Lyman-alpha radiation at 1216 A penetrates far enough to ionize the nitric oxide (NO) in the D region.



In the lower part of the D region, ionization takes place because of cosmic radiation rather than solar radiation. Cosmic rays are high-energy particles produced by the stars. They hit the earth day and night from all directions. Their great energy allows some to penetrate even to ground level and below. Most collide with atmospheric gases about 60-70 km above the earth, producing a concentration of electrons. Because cosmic rays are deflected by the earth's magnetic field, more of them enter the ionosphere near the poles, thus increasing the concentration of electrons there.

Since the electron concentration between 60 and 90 km is not as great as in the E and F layers, and since it is more diffuse, this is called the D region, rather than D layer.

Perhaps it might have seemed from the previous discussion that all of the gas molecules in the ionosphere have been ionized. Not so. Only a small fraction is ionized. For instance, at 100 km, in the E layer, it has been found that there are 10^{12} free electrons per cubic centimeter, but that the neutral particles number 10^{17} per cubic centimeter. In other words, only one out of every hundred million gas molecules is ionized at that level.

Below the D region the amount of high energy solar rays drops to such a low level that practically no free electrons are produced. Since it is the electron layers which are responsible for the refraction and absorption of radio waves, we will not concern ourselves with the lower atmosphere. Just as a point of interest, only about 50% of the sun's energy, mostly in the form of visible light, actually reaches the surface of the earth. The rest has either been absorbed or reflected.

Recombination

After electrons have been produced by the disassociation of atmospheric molecules, they remain free for some time. Since they are constantly moving about, eventually they will collide with positive ions and will recombine to form neutral atoms and molecules. Some strike neutral atoms and combine to form negative ions. The rate at which electrons are lost by recombination with positive ions depends on the number of encounters and on the concentrations of electrons and ions. The more electrons they are, the greater the chance of recombination, all other factors being ignored. Remember that at the same time, usually electrons are being produced by the action of sunlight on neutral molecules. The net effect is a relatively stable number of electrons in a region over a period of time.

In the D region formed by cosmic radiation, there are enough gas molecules for frequent collisions with electrons. Many electrons attach themselves to neutral atoms to produce negative ions. During the day, however, other solar radiation break these negative ions down almost immediately. Thus the free electron concentration is greater during the day than at night. This, as we shall see, is partially responsible for

Editor: Father Jack Pejza, 3266 Nutmeg St., San Diego, Calif. 92104; Deadlines:
 March 31, April 14, 28, May 12, June 9, July 7, Aug. 4, Sept 1, 15, 29, Oct. 13.
Telephones: 714-282-0076 or 714-282-2184. Use GMT (EST + 5 hours) in reports, one
 side of page, preferably typed in order of frequency and by section.

* * * * *

Geomagnetic Indices March 8-14 13 10 2 6 2 7 5

Listeners' Loggings-- Trans-Atlantic

655 ... Portugal, Lisbon, good carrier, poor audio, noted from NE 0610-0618 3/14
 but all other TA spots were blank. (GM,C)

764 ... Senegal, Dakar, in briefly with poor signal 0735-0740 3/14; 1½ hours
 after Lisbon noted at 655. (GM,C)

Latin America

554.5 ZIZ St. Kitts on 3/10, 3/11, 3/13 as early as 0130 noted with quiet music
 to 0300 ID and s/off with NA 0302-0303. Difficult at best with WFIL-560
 rock and roll sidebands. Also het de probably YNS-555, impossible to fil-
 ter out, but separable on Q-M. Have to null WFIL which doesn't leave any
 options to null YNS. All EE. (TRS,E)

+ZIZ now heard here last two weeks (on 555. Ed) Quite loud, heard with
 request program similar to ZDK with ID and TC very rapidly between about
 every other record 3/10 0230-0245; well over YNG for country #96. (RJE,E)
 (YNS, Russ? Ed)

560 GBS Guiana, Georgetown heard again here even with WFIL groundwave in auroral
 conditions with classical music, ID 0230 3/10. (RJE,E)

650 ??? UnID station here IDing as "Radio Blancos" or something of the sort;
 heard at 0550 3/13. Very weak and distorted; with male announcer mention-
 ing Tegucigalpa(?). Typical CA music continued fighting the KORL signal.
 Any ideas? (PP,W)

655 YSS? El Salvador, San Salvador believed to be the UnID heard 3/13 0715-0737
 with man and YL in SS, and several US rock records. Poor signal with
 much fading and QRM de ocasional TT on 650 and EE station on 650 (KORL?)
 (MH,W)

660 HCLG2 Ecuador, Guayaquil, Radio Carrousel, found on its new frequency; first
 time 0915 3/7 all alone. Anyone every caught the Quito station supposed-
 ly here? (GM,C)

660 YVNA Venezuela, Coro, Ondas de los Medanos makes country #35, with clear ID
 at 1010 with mentions of Coro. News program mentioned, and into LA in-
 strumental music at 1014. Good verifier? (PP,W)

690 CMBC CubaHabana, Radio Enciclopedia weak under the Jap and KKUA at 0945 with
 ID and rhythmic music 3/13. Cubans have a tendency to share their slo-
 gans. I guess a carry-out of Marxist philosophy. (PP,W)

740 CM.. Cuba Radio Liberacion "de la Habana" ID 3/13 1030 through KCBS OC, CBL,
 and others. WRTH says R. Liberacion relay on 740 is CMJL, Camaguey; VJ
 says CMKJ, Holguin. Which? (I got this through KCBS OC by putting 740
 in the notch of the SPR4; is this an old trick, or have I found some-
 thing new? (RLN,W) (RFS Cuban list says Camaguey. Ed)

810 XEFW Mexico, Tampico, Tamps. a rare catch here under WKVM, HJCY, with rancharo
 and lengthy talk segments, 0248-0252 3/10. (RJE,E)

870 LRA Argentina, Buenos Aires, through heavy static MM 3/13, the pips got
 through at 0900. By 1000, WWL is usually back testing, so 0900 MM is
 virtually the only time all week when LRA may be heard. (GM,C)

960 ZFB Bermuda, Hamilton 3/6 0500-0505 with news, spots, weather, into music
 and TCs for AST. Over WELI, surprisingly good, and at times dominating
 even on longwire. (TRS,E)

990 XEBM? Mexico, "Radio Mundo" heard 3/14 at 0539-0601 with many IDs as "XEBM--
 Radio Mundo". Poor signal with severe het on 990. KKIS should be domi-
 nant (90 miles), but only traces of an EE station heard. Several US pop
 tunes heard (Desiderata) in SS. VJ log lists XEBM on 920 (Radio Exitos)
 in San Luis Potosi, as does NRC LA Log. Que pasa? (MH,W)

- 990 Cont. (XECL, Mexicali, uses Radio Mundo IDs, and is the dominant station here in Southern California. Ed)
- 1010 XEHL Mexico, Monterrey, N.L. heard here with news under WINS with ID 0310 3/10. (RJE,E)

Trans-Pacific

- 655 ... North Korea, Pyongyang 3/10 1245, woman in KK, fair/poor. (RS,W)
- 690 JOAB Japan, Tokyo over KKUA at 0950 3/13 with female in JJ talk. (PP,W)
- 725 ... North Korea, Kimchaek 3/10 1255, male in KK, fair. (RS,W)
- 750 KFQD Alaska, Anchorage. Best ever and quite good 3/13 until 1000 s/off. Tuned past it several times thinking it was WSB; finally decided music was too rocky for WSB and stayed long enough for ID. No sign of KFAR on 660. (RLN,W)
- 750 JOIB Japan, Sapporo 3/10 1305, male in JJ, fair. (RS,W)
- 760 ??? UnID station in FF or similar noted 3/12 at 1220; very deep fades and suffering from Mexican QRM. A little late for a Latin opening, however a mediocre TP morning. Finally overtaken by Mexican at 1225. Only heard male in talk. (PP,W)
- 770 3LO Australia, Melbourne. DXing tip: I nominate the first three MMs after 3/20 as the best time of the year to hear 3LO, and perhaps any other Australian. Listen for the pips at 10, 11, and 12 GMT. A year ago, I heard 3LO and 5CL-730 on 4/12. (GM,C)
- 820 HLCN South Korea, Kwangju 3/10 1315-1335, KK music, femme in KK, good audio finally, no trouble telling the difference between this station and other East Asian stations, from format. Good. (RS,W)
- 830 JOBB Japan, Osaka 3/10 1343, femme in JJ, good. (RS,W)
- 830 ... China, Luta, Kiaoning, 3/11 1420, femme in CC, could pass as a parallel to 835. Poor. (RS,W)
- 835 ... China, Nanchang, 3/10 1346, CC music and talk; fair. (RS,W)
- 840 JOLB Japan, Niigata (1972 WRTH says JOQK), fair 3/12 with usual JJ program at 1245. KTAC slop, egad. (PP,W) (There have been shifts in NHK stations. JOLB is on 980 in Fukuoka. Ed)
- 840 ... UFOs, 2 or 3 stations here, a mess 3/10 1350. (RS,W)
- 844 VSZ1 Gilbert and Ellice Islands, Tarawa with super fine signal 3/13 at 0830 in Gilbertese. Mainly in discussion. Faded at 0843. (PP,W)
- 870 KAIM Hawaii, Honolulu 3/10 s/on with state antehm (?), not SSB. 1358 just ahead of local KIEV s/on at 1400. Good. (RS,W)
- 876 ... North Korea, Wonsan, the Wanderer, made an appearance 3/13 at 1305 in KK speech by male. Noted 3rd time this spring. (PP,W)
- 890 JOHK Japan, Sendai, 3/10 1405, male in JJ, NHK mentioned, music. Good. (RS,W)
- 890 5AN Australia, Adelaide, very tentative 3/6 at 1410 with quasi classical music. In and out with SW/NE bearing. At 1423, mumbling man with traces of EE accent. Rock music QRM from somewhere. Talk faded at 1427, with LSR interfering. (PP,W)
- 1040 ... China, Peking 3/13 1340, male in JJ, in big as usual. (RS,W)
- 1170 KJNP Alaska, North Pole, clear ID 3/13 1100 (actually a couple of minutes later). Choral church or church type music before 1100. News and weather by YL after. Well under KVOO most of time, but on top for ID and news. First time heard. (RLN,W)

Reporters

- RJE Russ Edmunds, Wayne, N.J. NRC
- MH Mike Hardester, Modesto, Calif.
- GM Gene Martin, Denver, Colo.
- RLN Bob Neal, Forbestown, Calif.
- PP Paul Petersky, Bellevue, Wash.
- RS Ralph Sanserino, Huntington Beach, Calif.
- TRS Tom Sundstrom, Willingboro, N.J.

We now are on our bi-weekly schedule. Please note deadlines listed top of page 1. Try to get your reports here a couple of days before deadline to insure printing.

Correspondents' Comments

"Weird conditions--definitely auroral conditions, but many TA's in also, and quite well: viz: Spain 584, 683, 737, 917, 953; Italy 845, 899; Morocco 593,935; Germany 1016, 1586; Portugal 1034, 1578; Luxembourg 1439; BBC 1457; Albania 1214, 1394; France 1554, 1594. Strange." (Russ Edmunds)

"Kind of miss the good DU openings. TP's terribly disappointing after last fall. My location seems to be better than other Seattle DXers, as they all leave my place with 10 new catches apiece. I don't know why, but DU's are so fascinating to me and what a challenge! Hawaiians seem to be making it in good here as well as KFAR and KFQD. New verification includes KFQD-750 in 5 days; v/s; CE. Nice v/q with airview of Anchorage." (Paul Petersky)

"Tried from 900-1600 kc this morning, 3/13. Every other frequency has a Mexican on it, some belong on the frequencies, some do not. There's a couple of local stations that have gone to the broadband transmitting technique." (Ralph Sanserino)

Cyprus According to a French newspaper, a MW transmitter of 600 kW will be installed at Cap Greco, Cyprus at the end of 1973 at a cpst of 15 million francs. The station will belong to La Sonera S.A, 55% of which belongs to Radio Monte-Carlo,; 80% of Radio Monte-Carlo belongs to the French government. (SCDX)

Ireland The new all-Irish speaking station went on the air February 26 with test transmissions at noon on 539 kHz. Regular transmissions will begin on April 2 at 1400 GMT. Frequencies will be 539 and 1250 kHz. Name is Radio Na Gaeltachta.(SCDX)

Comoro Islands Radio Moroni is financed by ORTF, France, and was founded in 1961. At present they are on 333k KHz. The Technical Director hopes to have a new 40 kW transmitter on the air in the near future.(SCDX) (The Comoros are off the east coast of Africa, between Madagascar (Malagasy) and Mozambique. Ed)

That's about it for this week. It's unfortunate that a season which started off so well has kind of just tapered down to so little. Perhaps next season will be better. In the meanwhile, make sure to send in your nomination for the Ted Vasilopoulos Award, and if you're planning on coming to San Diego for the convention get your reservation in. Randy Minnehan has written to me as the new CPC Chairman, asking for suggestions on Latin stations to write to for tests. If you have any ideas, please let Randy know. This Easter vacation will see me again on a 1500 mile bus trip through Arizona and southern Utah, as part of a NSF Institute from San Diego State University. I tried last year on this trip to DX, but got too much ignition noise to hear anything; maybe I'll try again this time. It's kind of nice to get a respite from typing stencils, now that we are not weekly. Maybe I can catch up on some of the other projects I've been working on. See you in two weeks. FJP.

Broadcasting Information (as compiled by Mike Worst) March 13 issue

new	1060	1kw-D	West Branch, Michigan	granted WBMB
WKMB	1070	250w-D	Sterling, New Jersey	start operation
new	1090	50kw-D	Denver, Colorado	requests KAAT
KDXE	1380	1kw-D	North Little Rock, Ark.	granted KEWP
WIII	1430	500w-D	Homestead, Florida	requests WRSD
new	1490	1kw-D 250w-N	Ponce, Puerto Rico	requests WZBS
WBFJ	1540	500w-D	Woodbury, Tennessee	granted WBRY

End of the Weeklies With Aris Papafingos on his way as this is being typed, we are planning to publish and mail the last weekly issue about 2:30 AM PST on Thursday morning, 3/23. Your publisher is not particularly sorry to see the end of the weekly issues as there are quite a number of other things that deserve some real work - NMPs, membership recruitment, correspondence, etc. Let's make next issue 46 pages!!! No more weeklies and NO MORE WEAKLIES!!-DEE/AYP

March 25, 1972

W E S T E R N D X F O R U M

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Editor: Bob Jacoby, 556 E. Alvarado St., Pomona, CA 91767 (deadline: Thurs)
Mike Hardester - 401 Birchwood Court - Modesto, CA 95350

(209) 522-3360. Recent veries: v/q KFQD-750, v/c KPAT-1400, v/f KSFO-560 KULF-790, v/l KELP-920 KHOS-940 KPUR-1440 & KOOK-970 w/statement, "February has been declared 'Let's all talk to California Month'--we've had letters from Woodland Hills, North Sacramento, Redding, and Bakersfield so far this month." A couple of years ago, someone brought up the fact that stns were not using the RP sent to them; at that time, the majority of stns which replied to me were using my RP, but lately the majority of stns which reply have been using a Pitney-Bowes machine...also, v/l's seem to be getting vauger and vauger. Several are approaching the BBC "acknowledgement card" text. So that wasn't very interesting huh? How about this: would you believe a large (possibly a majority) number of DXers wear glasses, contacts, or have worn one of the two recently? While you're thinking that over, be the first in your neighborhood to have your very own KVML-FM bumper sticker. At present, I only have two (red lettering on black background), and first two postcards. I receive requesting a KVML sticker will get them: (one per person). I'll keep the other PCs on file & send you the bumper stickers as I get them. Only local SC is de KFIV-1360: if you want same, SASE will do. I do not collect SCs or CMS, but bumper stickers are welcome. 73 & gud DX.

Paul W. Petersky - 512 167th NE - Bellevue, WA 98008

Hello gang! Feel like jumping off a cliff after reading the Boulder indices and forecast. Guess you can't have everything. Weather is about as bad here as the MW cx. Only verie KGVO v/l. Had an interesting conversation with Bruce Portzer on DXing in Alaska. This totally unexploited area would probably yield a treasure trove of DX catches. If Alaska IRCA members exist, I wish they'd contribute. I find it hard to believe that 70 TA's were logged by one DXer. I imagine you'd find rather remarkable propagation cx in the 49th state. Would like to hear from anyone who might have knowledge on DXing from Alaska. I hear our local geeks complain about aurorals. This misconception should be cleared up. Solar activity is the name of the game and hope you all pray for low, low activity. Good DX can be heard under a strong auroral. Shall go, and many 73's....

Jerry Thatcher - P.O. Box 3014 - Nellis A.F.B., NV 89110

Really enjoyed the pics in the anniversary bulletin--hope to see some of you at San Diego. I managed to catch KBMI-1400 off a couple of weeks back and caught KATO and KARR. Both are among my best gy's. Recent veries are KPHO-910 KENO-1460, CKCK-620, KTKT-990, KOVO-960. Approaching 400 in total heard. Also near 200 in veries. Verie % is about 80%. Just renewed my membership. Now going on my 3rd year with IRCA. Local news: KENO-1460 painted its studios with red, white, and blue strips to promote a "get out and vote" campaign. KLUC-1140 is having a "desert clean-up" day. KORK-TV channel 3 had a \$3 million fire and were off the air for a week. Enuf said. 73's

Dan Sys - 149 W. 26th Ave. - Vancouver 195, B.C. CANADA

The CRTC turned down the application for a new educational stn up here on 1370. Apparently the CBC will soon be setting up a network of educational stns coast to coast, hopefully on FM for all DXers sake. LBG--CJJC is still on 850, apparently it won't happen until summer now. This is no doubt the most delayed switch in history. Glenn Hauser--great idea, I'll be sending you a list soon. Correspondents be patient. Long live the CBC.

George C. Kesteven - 3524 Benton Dr. N.W. - Calgary, Alberta CANADA

Greetings all. A late happy birthday to the I.R.C.A. I suppose an introduction is in order. I'm 14 years old and attend the local junior high school. I have been DXing seriously since about 1970 although my totals are nothing too fancy. The receivers I use include a Philco all transistor radio and an old General Electric model. I have a longwire antenna and a four foot box loop. Have had little time to DX due to school. Latest catches are KUUU, KOL, and KLO. We have two new members in Calgary. Welcome to John MacDonald and Marvin Carlson. Well gotta go. 73 and good DX.