



# DX MONITOR

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THE INTERNATIONAL RADIO CLUB OF AMERICA

VOLUME 14

NO. 33

WHOLE NO. 450

JULY 9, 1977

## \*\*\* NEW MEMBERS

from Rich Segalas

Madalyn Boley, 1075 Grand Avenue, San Diego, CA 92109  
 Mike Dorner, Jr., 1409 Hymelia Avenue, New Orleans, LA 70003  
 Elliot B. Pollock, 3014 W. Greenleaf Avenue, Wilmette, IL 60091  
 Stephen H. Ponder, P.O. Box 22635, Fort Worth, TX 76122  
 Dave Wardell, P.O. Box 3161, Portland, OR 97208 (JOINT)

### Address Changes:

Stanford J. Shaw, 1832 Colby Avenue, Los Angeles, CA 90025  
 Ted Wilson, 5065 LaRoda, Los Angeles, CA 90041  
 Richard E. Wood, Department of English, University of Puerto Rico, Rio Piedras, P.R. 00931 (eff. 7/20/77)

### Renewals:

Robert Stonier, Melvin Veldhuizen, Paul Wardell, Glenn Hauser, David Oliphant.

Phil Bytheway will be sending out New Member Packets to all of the New Members. Why don't you all send in a Forum and let everybody know all about you?

### More Renewals

Bill Coleman, Jr.; David Legler; Robert McKinney; Greg Monti; Marvin E. Robbins.

**BROADCASTING** EDITOR: Mike Worst

## INFORMATION

	Day	Nite		
new 900	1000		Calhoun, GA	requests WJTH
KOIN 970	5000	5000	Portland, OR	granted KYTE
new 1000	1000		Danville, KY	CP
KHVH 1040	5000	5000	Honolulu, HI	to 10kw
new 1070	250		Elkton, KY	granted WSRG
WRSR 1090	250	250	San German, PR	" WBOZ
KFAX 1100	50000		San Francisco, CA	to 50kw SH-N DA2
WGRG 1110	1000		Pittsfield, MA	granted WUPE
WIXC 1140	1000		Fayetteville, TN	to 5kw-D, 2.5-CH
new 1150	5000	5000	Long Island, AK	CP
WCOP 1150	5000	5000	Boston, MA	granted WACQ
new 1170	500		Norfolk, MA	CP, req. WJMQ
new 1240	1000	250	Williams, AZ	granted KBWA
new 1250	5000		Roosevelt, UT	" KNEU
WKPM 1300	1000		Princeton, MN	" WQPM
WQAK 1310	500		Decatur, GA	" WYLL
WKLY 1350	5000	5000	Portsmouth, VA	" WNE
WVMC 1360	500		Mount Carmel, IL	requests WYER
new 1360	5000	5000	Bemidji, MN	CP, req. KKBKJ
KWNA 1400	1000	250	Winnemucca, NV	U from SH
WAKS 1460	1000		Fuquay Varina, NC	to 5kw-D, DA
WVCF 1480	1000		Windmere, FL	to Ocoee, FL
new 1510	1000	500-CH	Greenwood, AR	requests KACJ
WPJD 1550	1000		Soddy-Daisy, TN	granted WCHU
WAPL 1570	1000		Appleton, WI	" WRXA
WCLY 1580	500		Columbia, PA	license cancelled
WISZ 1590	500	500	Glen Burnie, MD	granted WJRO

From the May 23 to June 20, 1977, issues of Broadcasting  
**ACCOLADES**

A tip of a very BIG hat to Rich Segalas whose willingness to assume the bulk of the workload in the initial stages and preparation of the SFPC should not go without mention. Also to Phil, Mike & the SPC for their considerable aid in making this a smooth transfer of publishing HQ.

### DEADLINE DATES

Publication date for Volume 14 Number 34 will be Sat. August 6. Deadline date for all columns to be at HQ will be Friday July 29. This is necessitated by my vacation plans. Thereafter we will have a Monday Deadline at HQ. All editors will receive a list of Publication & Deadline dates for Volume 15 within the next two weeks. July 9, 1977 page 401

## FLASH TIPS

### CONVENTION NEWS....

**IRCA.** Naptown invites all of you as the big fun of 1977 draws near. Full details appear in this issue on pages 414 & 415.

**NRC.** The National Radio Club will hold this year's convention in Lincoln, Nebraska, September 2-4, at the Villager Motel. For more information contact Neil Bank, 2445 "E" Street, Apt #6, Lincoln NE 68150.

**WTFDA.** August 5-7 at the Flamingo Motel in Portland, Oregon. Activities will include a DXpedition to Timberline Lodge, a picnic, and tours of local TV stations. Discount air fares and room rates are available if arranged through the convention hosts. For more details contact Pat Martin, P.O. Box 14192, Portland, OR 97214.

**CADX GTG:** A special CADX get together will be held Friday Aug. 6 until ??? on Aug 7. There will be a farewell party which anyone attending the GT is invited. The GT can last until Sun. Aug. 8 if anyone wants to stay. For info contact Robert Kramer at 235-5188. The GT will be held at 3406 W. Pierce in Chicago, IL. Among the events planned is more nerf soccer, and anyone attending can watch me beat Mike Hogan 29-1 again.

Also a note pertaining to the 2d annual DXers picnic in Denville NJ on July 10 which unfortunately will be too late when you read this. This from Jeff Hambright & Chris Hansen. Hope the turnout was good.

ACHTUNG!! ACHTUNG!!

Well, I suppose you thought that last bulletin was the last you'd hear from me, but you are wrong. I am still alive in Seattle, and still doing reprints and handling all orders for such goodies as Foreign Logs (Vols. 3, 4 and 5), Rubber Stamps (with the club emblem), Stationery (also with the club emblem) and New Member Packets!! But, I've got a new address! Yes, the P.O. has finally decided to give me another one, this time it is P.O. Box 17088, Seattle, WA 98107. It's already opened so don't wait any longer if you want any of the above. Haven't got your latest edition of the reprint list yet?? Why not send a SASE to:

I.R.C.A. Goodies  
 P.O. Box 17088  
 Seattle, WA 98107

The reprint list includes prices on all the items above, and will be sent to anyone that has ordered from Seattle HQ within the last month or so along with their order. pb

## The Inside Story -

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 Spotlight on CT, RI & DE - - - - - 410, 411

**eastern dx  
roundup**

Mike Mitock  
Box 533  
Lorain, OH 44052

DEADLINES: 7/25 8/22  
ALL TIMES ARE ELT.

- 540 CBK SK, REGINA 6/9 0300 CBC Nx, local wx, s/off w/O Canada and GSQ. Good w/WGR off. (MB-ON)
- 550 WKRC OH, CINCINNATI 6/9 0300-0315 nx, wx, Carpenters mx, ad for arthritis pain reliever. Fair w/WGR off. (MB-ON)
- KFYR ND, BISMARCK 6/9 0330 w/giveaway of tickets for Reo Speedwagon concert. Peter Frampton mx, poor u/WKRC. 35th state. (MB-ON)
- 560 WCKL NY, CATSKILL good c&w mx 2007 6/11 w/WFIL QRM. (BC-VT)
- 610 WIP PA, PHILADELPHIA fair to good signal with occasional fading. Crosby, Stills and Nash tune. Mention made about a Golf tournament. wx rpt. Time was 2318 6/15. (RK-NJ)
- 680 WPTF NC, RALEIGH 6/14 0100-0110 NBC Nx, wx, local nx, into "Interstate 68" program of country mx. Fair w/CFTR off. (MB-ON)
- 710 WOR NY, NEW YORK 5/22 0200-0220 w/mx from big band era. "Memory Lane" program. Fair to good o/usual pest CJRN. (MB)
- 740 WBAM AL, MONTGOMERY 6/13 0120 w/ET w/c&w mx, singing ID... "WBAM...Montgomery" by OM at 0120. Then end of ET. No OC as S-meter dropped off after ID jingle. CBL off. (MB-ON)
- 810 CKJS MB, WINNIPEG 5/23 0100 w/MoR mx, hrd immediately after WGY s/off. Fair sig. (MB-ON)
- WGY NY, SCHENECTADY good to excellent 6/15 2328 w/call in show (# 518-385-1380) with Paul Cassidy. Discussions of Mets Tom Seavers trade. (RK-NJ)
- 930 CFBC NB, ST. JOHN 0300-0305 w/ads, wx, McCartney & Wings mx, fair w/QSB. (MB)
- 940 KIOA IA, DES MOINES 6/7 0521-0527 Bob Seger mx, ads, into nx at 0530. Fair sig, killed by CBM s/on. (MB-ON)
- 1010 WCNL NH, NEWPORT w/BB @ 1935 6/1. Very good for 250 w. (BC-VT)
- 1080 WTIC CT, HARTFORD Tele-talk w/host whose name was Mark. Good sig w/occ. QSB and QRM. Ad for Chevrolet. This on 6/15, 2347. (RK-NJ)
- 1090 WBAL MD, BALTIMORE w/Jepko. Fair to good signal. Wx rpt. Ad for Gallery Brokers. 6/16 0004. (RK-NJ)
- 1130 WCAR MI, DETROIT 6/7 2025-2035 w/"Newsrap" current events program, phone in # 345-8607. Fair to good w/slight WNEW QRM. (MB-ON)
- 1190 CHTN PE, CHARLOTTETOWN 6/20 good W/EL vocal, 0139-0141 then ID, sports by YL anncr. Hrd often on MMs. (PRM-NJ)
- WOWO IN, FT. WAYNE rr mx, wx, telephone call in w/female DJ. Excellant sig w/very slight QRM. Ad for RPS Auto Parts, and Pabst Beer. 6/16 0027. (RK)
- 1200 WOAI TX, SAN ANTONIO San Antonio wx @ 2248 6/15, fair w/hets from R. Tiempo. (BC-VT)
- 1220 WKBK NH, KEENE fair, caught ID at 1937 6/14. (BC-VT)
- 1240 WJTN NY, JAMESTOWN 2000 6/12 w/nx from Ai Net. Poor sig, soon lost in graveyard slop. (MB-ON)
- 1250 WTAE PA, PITTSBURGH 5/28 0005-0010 w/Dionne Warwick mx, wx, promo for WTAE Family Fun Contest. Fair o/u/CHWO. (MB-ON)
- 1260 WWDC DC, WASHINGTON 6/20 fair w/"Shambala", then loud ID by YL DJ, PSA, into rock 0121. (PRM-NJ)
- WEZE MA, BOSTON 6/20 fair-loud w/'70s oldies 0132-0134 o/u/WDNR/WWDC. Occ hrd. (PRM-NJ)
- 1370 WBTV VT, BENNINGTON in and out w/local nx. WFEA predominate on this freq. (BC-VT)

- 1430 WIRE IN, INDIANAPOLIS 5/29 0206-0230 w/c&w mx, ads for country albums, talk on Indy 500, fair to good w/CKFH off. (MB)
- 1450 WWSC NY, GLENS FALLS 6/20 fair w/rock 0053-0100, good w/AM-FM ID into nx, wx, to 0105. Becoming a MM regular. (PRM-NJ)
- CFJR ON, BROCKVILLE 6/20 fair w/man.. "This is CFJR News" 0100, about 10 sec after WWSC IDed, then faded w/WWSC. New. (PRM-NJ)
- 1460 WOKO NY, ALBANY 6/20 good w/country mx 0047-0050 wx, OK Sticker promo, o/several unID stns. (PRM-NJ)
- 1500 WFIF CT, MILFORD caught and taped ID at 1900 6/12. (BC-VT)
- 1530 WDJZ CT, BRIDGEPORT panel show w/freq mention WDJZ. Fair 2000 6/12. (BC-VT)
- 1550 WBVM NY, UTICA caught ID in bit of a mess on 1550. 2020 6/13. (BC-VT)
- 1580 WPGC MD, MORNINGSIDE 6/7 2005-2015 w/ad for Crosby Stills & Nash concert at the Capitol Centre, wx, Linda Ronstadt Mx, fair sig w/WQXR QRM. (MB-ON)

**BROUGHT TO YOU BY:**

- MB- Mike Brooker, 245 Old Forest Hill Rd., Toronto ON M6C 2H5/ Sony TFM-8000W & lw.
- BC- Bob Curtis, 17 Cobbleview Dr., Colchester VT 05446/ SP-600 & longwire
- RK- Ron Kida, 259 Eleventh St., Palisades Park, NJ 07650/ Panasonic RF-2200
- PRM- Paul Mount, 471 Emerson Ave., Teaneck NJ 07666/ Realistic TRF

Well, that's it for another go 'round. Hey gang, PLEASE watch the old stuff. Some of it slipped by me this time, but it won't next month! DX from May is hardly worth looking at in July!! I even culled out some from April!! '73 'till next we meet!

**central dx  
roundup**

Richard C. Evans  
P.O. Box 392  
New Buffalo, Mich. 49117

- 630 KHOW CO Denver, 6/6 0314-28. Good to fair on RS w/MoR-type Mx, PSAs, and CO Wx; o/u KXOK test; 1st time hrd approximately a year ago; rptd at that time & no verile rcvd. (SAM) (Took me 9 days in 1970--rce)
- \*KXOK\*MO\*St. Louis, 6/6 0314-28. Very good to fair, often o/KHOW listed above; 1000 cycle tone interrupted by numerous IDs listing transmitting facility as KGU-59; hrd before, but for some reason, never reported. (SAM)
- 960\*WJAZ\*GA\*Albany, 6/7 0142-50. Xlnt, w/WERC in 95% null; ET w/various tones, brief periods of OC, and IDs on the average of 1 every 5 minutes; moderate QRN & slight QSB, but still very readable; new here and reported. (SAM)
- 1010\*KXEN\*MO\*St. Louis-Festus, 5/23 0128-0237. Good to fair on ET w/various tones, extended periods of OC, & MoR-type Mx; 1 short ID at 0230 w/more complete s/off ID at 0237; moderate QRN, some QSB, & occasional severe QRM from KLRA & other unids; much wanted & stn called with only answer being recorded message; reported anyway. (SAM) 6/10 0124-39. Good w/no sign of usually dominant KLRA, but QRM from any number of other unids; MoR-type Mx, 1 ID, then off; hrd before w/fast v/l in less than two weeks. (SAM)
- 1030\*KCTA\*TX\*Corpus Christi, 6/1 0111-34. Xlnt on ET w/various tones, long periods of OC, and one quick ID; way o/WBZ/KTWO QRM; a relog w/fast v/f rcvd in less than a week. (SAM)
- 1060\*WQIO\*OH\*Canon, 5/25 0206-45. Good to poor on POP w/various tones, brief periods of OC, and "Top-40" Mx. much QSB o/u WNOE/KYW QRM, slight QRN; very happy w/this summertime catch, stn called and reported. (SAM)



1310\*KFSB\*MO\*Joplin, 6/6 0124-0206. Fair to poor, mixing badly w/considerable unid QRM; ET w/various tones. long stretches of OC, and 1 hurried ID; occasionally noted around here over the years, with v/l as hurried as their IDs (one sentence.) (SAM)

1420\*WVJS\*KY\*Owensboro, 5/23 0152-0204. Very good on ET w/various tones, short periods of OC, and 1 ID shortly after the hour; all alone w/no sign of usual WOC; a relogging of this infrequent visitor w/nice v/l rcvd in about two weeks.(SAM)

1560 KCJJ IA Iowa City, 6/6 0243-0306. Poor to unreadable w/severe QSB; mostly alone w/XEVIP off & no sign of CMGB, some slight QRM from unid, possibly KPMC; MoR-type Mx, IA state Nx & Wx, w/promo type IDs announcing \$5,000 worth of cash & prizes to be given away during 1977; new & rerouted. (SAM)

1580\*KTLU\*TX\*Rusk, 6/1 0135-45. Poor, way below & mixing badly w/KLOU; this is definitely an unlisted r/c w/1000 cycle tone & IDs every 2-3 minutes; hrd for about the past 4 months w/v/r received in about 2 months. (SAM)

**PER THE LIST:**

2nd THU: WAAC-1300 IN T (SAM)  
 2nd SAT: KJEF-1290 LA T (SAM) 0130-45  
 KLMX-1450 NM T (SAM)  
 2nd SUN: KAHL-1410 NE T (SAM) not listed, but consistently hrd 0215-30

**A TIP OF THE HAT THIS WEEK TO:**

SAM - SCOTT A. MENTZER, Route Three,  
 Tylertown, Mississippi 39667

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 NANCY HARDY, Editor

2301 PACIFIC AVE.

ABERDEEN, WA 98520

**western dx roundup**

ALL TIMES ARE EASTERN LOCAL

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**DEADLINES: Thursday August 25, Thursday Sept. 8**

**REPORTERS FOR THIS ISSUE:**

(NHP) Nick Hall-Patch-3272 Alder St.-Victoria, BC  
 Transmogrified HRO, FET AA V8X LP2 loop

(NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA  
 Lafayette HE-30, SM-1 98520

(DAK) Dave Korinek-505 Redondo-Oceanside, CA  
 R-388, 150' longwire 92054

(RW) Robert Wien-945 Desert Isle Dr.-San Jose,  
 GE TRF longe-range CA 95117  
 portable

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570 KLAC CA, Los Angeles off MM's 6/13 & 6/20.  
 (DAK-CA)

580 ?KIKX? AZ, Tucson 6/22 0416 unID TT'er on  
 580, weak u/KWJ, fading in & out,  
 looping SE. 1 kHz TT steady, off at  
 0420. No ID heard but presume to be  
 KIKX because of direction of signal.  
 (RW-CA)

740 WBAM AL, Montgomery 6/20 0532 heard s/on  
 u/KTRH, u/KCBS OC. (DAK-CA)

920 KITN WA, Olympia noted MM's 6/6 & 6/13 w/  
 EZL mx, Ae nx and ID's as "this is  
 the station with the sound of music."  
 Appears to be fulltime now & probably  
 NSP. Kiss another frequency goodbye.  
 (NHP-BC)

930 KHJ CA, Los Angeles 6/16 noted off this  
 morning, also noted ET'ing. (DAK-CA)

930 KIUP CO, Durango 6/16 0745 in fair u/KHJ  
 carrier w/good mx & plenty of spots.  
 (DAK-CA)

930 KSEI ID, Pocatello 6/16 0749 in weak u/  
 KIUP w/mx. (DAK-CA)

970 KYTE OR, Portland 6/6 0320 "The new kite"  
 and K-Y-T-E ID'S w/rr. ex-KOIN. (NHP)

1010 \*KIQI\* CA, San Francisco 6/23 0558 in excel.  
 ET'ing. (DAK-CA)

1020 KTNQ CA, Los Angeles 6/13 0310-0920 off  
 all MM. 6/23 noted w/O/C. So much  
 for NSP. (DAK-CA)

1070 KNX CA, Los Angeles off MM 6/13. (DAK)

1090 \*unID\* 6/20 0549 unID TT'er way u/XEPRS  
 looping NE. Possibly KBOZ. (RW-CA)

1150 KAGO OR, Klamath Falls 6/24 2344 good to  
 very good o/KAYO, XERM, slow fade-  
 out. Unusual reception, w/promo to  
 win 26 gallons of ice cream, SID  
 "K-A-G-O", song by Everly Brothers,  
 DJ said he had to turn down the  
 xmtr. He was replaced by another DJ,  
 and about 10 seconds later KAGO was  
 gone, w/KAYO taking over. (RW-CA)

1160 ?WJJD? IL, Chicago 6/17 0355 noted TT u/KSL.  
 Could be WJJD. (DAK-CA)

1190 ?KEZY? CA, Anaheim 6/19 0755 probable suspect  
 w/KEK off, but signing on just 5 min.  
 later! RR w/John Denver mx, weak,  
 fading in & out. (RW-CA)

1260 \*KYA\* CA, San Francisco 6/20 0300-0443 off  
 for testing purposes. Second week  
 heard off. Perhaps this NSP'er is  
 going to MM SP's? (RW-CA)

1290 \*CFRW\* MB, Winnipeg 6/13 0455 announcer said  
 they'd be running ET for technical  
 adjustments, but would start RS for  
 the first time at 6 am CDT. Using  
 rock & countryish mx, also some TT.  
 Fair to good signal. (NHP-BC)

1300 CJMB SK, Regina 6/6 0408 noted briefly  
 fair w/ID and furniture warehouse  
 ad w/KMPS off. KMPS returned 0410  
 so never ID'd the soft mx station  
 also on the channel. (NHP-BC)

1310 KFKA CO, Greeley 6/13 0658 in fair w/NA  
 and s/on. (DAK-CA)

1310 KEIN MT, Great Falls 6/13 0709 in fair w/  
 short s/on. (DAK-CA)

1310 WRR TX, Dallas 6/13 0628 in poor w/Jepko  
 show (until 0630) then local nx & wx.  
 (DAK-CA)

1340 KMAK CA, Fresno 6/22 0440 good, o/every-  
 thing; fadeout then comeback. ID as  
 "KMAK. Fresno. with Gary Davis." (RW)

1340 KRAM NV, Las Vegas 6/20 0302 poor, but  
 dominant on frequency, sudden fade-  
 out. ID "The music place, KRAM, Las  
 Vegas", SID "K-R-A-M", into country  
 mx. (RW-CA)

1340 unID 6/20 0435 unID GY'er w/s/off at  
 unusual time. Who s/off at 1:35?  
 No NA heard, though. (RW-CA)

1370 \*KEEN\* CA, San Jose 6/20 0400-0432 pest MM's  
 finally heard off w/OC till 0415,  
 TT'ing till 0425 then off till 0432  
 w/s/on. Frequency dead except for  
 XEHF. (RW-CA)

1390 unID 6/20 0431 unID rr heard very weakly,  
 looping due east, no slop from KEEN  
 as they were off. Who could this be?  
 (RW-CA)

1410 KERN CA, Bakersfield 6/6 0455 steady fair  
 signal w/CFUN off. Played T40 mx.  
 (NHP-BC)

1440 \*KVON\* CA, Napa 6/20 0440 on w/TT's, strong  
 w/slight QRM from KARM-1430 and KEST-  
 1450. (RW-CA)

1450 KVML CA, Sonora 6/25 0025 this one making  
 rare appearance, last heard 1/18. Ad  
 for Coast Guard w/mentions of KVML-  
 AM and KROG-FM. Dominant, then faded  
 w/usual dominant KONE, Reno, taking  
 over in KEST null. (RW-CA)

1450 \*KBKW\* WA, Aberdeen on w/annual PoP 6/28  
 0415-0530. (NH-WA)

1460 ?KMWX? WA, Yakima 6/25 0002 too weak to ID,  
 very poor u/KDON, but it wasn't  
 KENO for sure! Reception best from  
 north-south. Nx item about 300 mile  
 fishing limit w/mention of "Oregon  
 and Washington." (RW-CA)

1540 KXEL IA, Waterloo 6/18 0448 bombing in  
 w/excellent signal, absolutely no  
 sign of KPOL. KZAM faint underneath.  
 KPOL possibly off. Fantastic night  
 for northern plains! (RW-CA)

1560 KPMC CA, Bakersfield 6/6 0510 noted on  
 w/religion, ID, then CBS nx, follow-  
 ed by s/off at 0520. Had me worried  
 for a bit. Hope that late s/off not  
 regular. (NHP-BC)

1560 KKAA SD, Aberdeen 6/18 0523 coming in very  
 strong tonight w/KPMC off. Never  
 heard so good before. (RW-CA)

1560 unID 6/18 0506 unID way u/KKAA w/ABC nx followed by rr mx. Only two that fit description are KQYX (Don't they operate at night now, NH?), and KWCO. Perhaps one of these. (RW-3A) (Hadn't heard of KQYX going AN, but you never can tell.--NH)

By the time you read this Bill and I should be somewhere in Wyoming or Colorado. We're taking along a battery powered rx to use at Yellowstone National Park and various other places along the way. I'm planning on going with Thursday deadlines for WDXR to see how that will work out. Have a happy DX summer! 73

## eastern dx forum

John Zondlo  
6617 Maryland  
Hammond, IN 46323

Mike Brooker-245 Old Forest Hill Road-Toronto, ON M6C 2H5

I'm a first time contributor to EDXF, so here's an intro. I am 18, and will be in grade 13 in September. (In Ontario there are five years of high school, not four). I've been DXing since 1973 and I also belong to the Ontario DX Association and NASWA. MW has been the pits lately, but I did hear KFYR in Bismarck ND for my 35th state. Some of my recent veries are KKAA (a beautiful 8x11 card and bumper sticker), KIX, CBX, WMOO, WJVA, KOMA, WEIR, XEMO (first Mexican verie), and WCLS. I've been churning out tons of reports in the first six months of 1977, and my totals now stand at 121 veries from 31 states, 7 provinces, and 3 countries, compared with only 47 veries received as of December '76. My phone bills will be back to normal, now that Mutual has dropped Herb Jepko. I've been shaking my fist at that #\$\$\$&!! CKKW for being AN on 1090 and screwing up WBAL which still carries the Nitecaps. I've been a Nitecap since December '75. I guess I will have to start listening to Bill Corsair and Jim White again (or else hope to get KSL worth a damn). Let's eliminate all the politicking and mudslinging regarding Stanbury, Harang, Radio Million, etc., and make IRCA a better club. Keep up Gene Martin's articles and those reprints from "Radex". GO BLUE JAYS!!!!!!! 73s, soixante-treize (sic), LXXIII, dreiunds-iebzig de Mike.

Ronald F. Schatz-Box 592814-Miami, FL 33159--(305)-

.....  
Greetings from Dade County, Florida, where a night without DX is like a night without sunshine. Figure THAT out, hi. To those who have mail coming my way, please know that I'll likely be living somewhere just north of Fort Lauderdale before the time you read these words; my 'phone, likewise, will have changed. If I get the new info in time for the front page I'll phone it in to the SFPC. Meanwhile, Box 592814 will stay in effect for at least 3 months more. Note that mail will not be forwarded from there, since the box is in the name of Radio Millon. And PLEASE don't believe everything you read in DX Monitor; I am most definitely NOT an employee of the aforementioned station, no more than your family physician is your employee. Allinson's campaign statement caught my eye: Myself, I have yet to meet, or even know of, any DX'er "with the \$9,000 worth of fancy equipment"; my Collins R-388/URR and LSCA-2 have a combined book value of under \$400, and I also DX with a transistor radio on occasion. Anyone with the skill can be a top-notch DX'er for less than \$200, and many DX'ers with equipment in the 4 figure cost range don't have the skill to get beyond the 50-kw clears. I also doubt that any IRCA'n is limited to a pocket transistor radio with which to enjoy this great hobby; I am sure that even the youngest in our group has gotten Mom and Dad to buy him an adequate multiband receiver for Xmas or his birthday by now. I personally believe that the club's top-rated DX'ers owe it to themselves and the hobby to pass on their "secrets" to beginners, and beginners should not be too proud to listen to experience; ALL of us were beginners some time in the past, and even RFS has a lot more to learn about DX'ing. (Portion deleted per e.p.--dkk.)

What really matters is not so much totals or cost of equipment but the fun and enjoyment of the hobby, whether or not we DX foreign or domestic, collect veries or no, have heard Antarctica or only Atlanta. True, there are some oddballs among us, but aren't we all oddballs to those on the outside? We must stick together; we must help each other.

That's why there IS an IRCA. And there is room for all of us to do our separate thing - WITHOUT stepping all over each other be it for the sake of attention or votes. Speaking of votes, VOTE! VOTE! VOTE! Read over carefully the campaign statements in last month's bulletin, choose one of 4 for President, 7 of 16 for Directors, etc., mark those choices on the enclosed card, fold and seal same, affix thereupon a 13¢ stamp, then drop it in the mailbox by 0001 MLT (Huh?) 1 August. Everybody must vote - or the "bad guys" might win by default, so VOTE NOW! And while you're at it, love thy neighbour. 73 de RFS.

Don Davis-107 Oakdale Drive-Warner Robins, GA 31093  
Greetings from the land of dying DX! Yes, the static is beginning to take over the band. Still, this month (May), I've added 20 new stations. Mostly SC, FL, TN, and NC. I may try some TV DX this summer if I can get an antenna and a decent TV. It seems like a fascinating aspect of DXing. Along those lines (TV), I still have tons of TV parts, test equipment, etc. Write and let me know what you need. Recent veries in here are: WVNA, WVOH, WDEN, WGRA, WBIL, WAOK, WOKK (7 months), WGA (4 months), and Radio Cayman for 1205 report, back in only 10 days, for one IRC! Better service than most domestics. I just realized that 1270 is my worst frequency for veries. Out of 5 logged, none have veried. Ex-WSAV, Savannah, GA, station listed in BC info as WXBK is actually WKBX. Plays medium rock music with subdued announcers. Few ads, good clear IDs. Prompt v/l. Puts a great signal into W. Robins. "73s", and support your club! Don't tear it up.

Paul R. Mount-471 Emerson Ave.-Teaneck, NJ 07666  
Greetings from NE NJ. On May 24th I took another bike ride to Nyack Beach State Park, hoping to identify some of the mysteries left on the first DXpedition there August 3, 1976. I had chosen such a location hoping to find a spot close enough to hear all the NYC/WWDJ/WPAT/ Newark stations, but somehow blocked from most of the transmitters and the stations to the SW of Teaneck. My blockage was in the form of Bear Mountain, north of Nyack, NY; 17.2 miles (27.7km), 71 degrees N of E from my home location, I sat down on a rock about 3 feet above the Hudson River at 12:25pm, this time equipped with a tape recorder and SM-2, against which I lean the TRF. Opposite the location was Sing Sing. I started by confirming the fact that WJNG, Sag Harbor NY, dominates over WWRL, despite being some 58 miles further from S.H. However, 50% of the WJNG distance is waterpath, and WWRL's 0.1 mv/m contour doesn't even reach Nyack. The elusive WPRO was heard well over probably WEJL in the null; WRKO-680 still there from Boston. The first IDed station was WSBS-860, mighty 250 watts at 158 miles over land, with Manilow song and TC. Former WHVW, now WHPN I believe, doing news, still using "News and Information Station" and the 3 note musical interlude between segments; must be about the last station still doing NIS! Next was one of the highlights of the trip, a station that I missed the first time around, the new WRNJ 1000, from Hackettstown, NJ, supposed to have a tight NNW directional. Here, the fact of being away from NYC, especially WINS, allowed this one. WRNJ had a rock format, sounding like a typical small town rocker, calling self "Radio One Thousand". Probably never hear it here on RS. Listening to the tape I was making, I couldn't always be sure what was noise from fading and what was noise of the tide coming in (At least no one played the intro to Wishing You Were Here, hi). Then, after looking for an ID on the rocker in WGLI-1290's null, the station fit the occasion on 1300 with WAVZ and their "13 waves" promos. WHHC 1340 still automated T-40, another rarity 'round here. 1370 had two relative surprises, WALK Patchogue LI and WELV Ellenville NY. WBNX, NYC, was not alone, and only WJNA and WVOX had solid signals on thru to 1560. On 1570 was WRCN, announcing as "FM 104" (103.9).

As WHRF, it was once the subject of a proposed article on "How to hear WHRF more than 10 feet west of Riverhead". Next to it was a station calling itself "Suburban Country". It had been heard a few days earlier in Clifton NJ, and I assumed it was WBUX-1570; but this reception shows that the station is on 1580. Is WSUF on again? Or might it be WCRV, Washington NJ? On 1590 WQQW pulled out, an advantage of having the space magnet since last time only a carrier noted. WWRL was heard in WING null. Although almost no stations from southwest were lost (except WGTC/WHTG/WQTK) this change of scenes brought on quite a few stations not normally heard at home, including 6 from a state (MA) that I can't hear at home during the day. It shows how much one benefits in just getting a few miles away from the transmitters. If it weren't for being surrounded by water on 3 sides after a while, I'd choose Nyack NY as an ideal DX location in Metro NYC.

Ray Arruda-48 Woodlawn St.-New Bedford, MA 02744

With summer conditions here, DX has been almost non-existent since early May. Some end of season veries: WRIC-540 for flood emergency, WBBO-780 Test, WRMP-1060, WKKQ-1060 forest fire emergency, WEWO-1080, WNDE-1260, KVOX-1280 Test, WCMY-1430 Test, WBUC-1460 Test, WAKE-1500 Test, KPMC-1560, WFXV-1560, WBUK-1560 Test, and WEHH-1590. I too have decided after careful thought, and ten years membership, not to renew in IRCA next April. 73.

Charley Keleher-5026 Northfield Drive-Fort Wayne, IN 46804

I am sorry to announce that I, too, am leaving the DX hobby, for a while at least. The main reason is my newly-purchased house which, while basically sound, was treated by its former owner with a policy of benign neglect. Between furnishing, improvements and maintenance, I just don't have the time to get really involved in DX anymore. Perhaps home-owning is something like DXing--you don't seem to make any real progress unless you're willing to devote quite a bit of time to it. So since this is the last you'll hear from the old Trail Boss for a few moons anyway, I'd like to hand out a couple of compliments, plus some opinion. Gene Martin, many thanks for the fine article on DXing in the old days. Your writing is certainly competent and knowledgeable and IRCA should be proud that such work can appear in its bulletin. That 1130 situation reminded me of an interesting point. Except for WQXR, WNEW is the only NYC station that can claim more-or-less nightly reception in Chicago, on an average receiver. They're the only 50kwr that isn't within 10kxhz of a Chicago 50kwr. All the mid-westerners on 1130 beam toward Baffin Island or somewhere, and even WISN, only 60 miles away, compares poorly with WNEW's skywave from some 800 miles. Next, I would like to compliment Mike Worst for cutting all the non-DX-related material from the Forums in the May 21 issue. (Sorry about that stuff about the house, Mike, I tried to keep it brief, hi.) I never thought that DX Monitor should be reduced to mere listings of stations heard and such, but it seems it's awful easy for a lot of material to creep in which isn't of interest to 99% of the membership. The Forums aren't the only offender in this respect, but they're probably the worst. Ever notice that there are very few who write what they like about the bulletin in the forum reports? But there are many, many who are convinced that whatever-they're-doing-right-now cannot help but be of great interest to hundreds of members and is thereby worth of publication. Perhaps that reveals something about the personality of the average DXer, hi. While I appreciate certain things about the bulletin greatly, there's an awful lot which could just as well be left out, in my humble opinion. Getting rid of the non-DX stuff in the Forums is as good a place to start as any. Well, ye old Trail Boss doth now ride off into the sunset, leaving only a cloud of dust and poison-pen letters visible on the horizon. 73-Charley....(Sorry to see Kilohertz drop out temporarily....still owe him a pizza from Al Ogrizovich's wedding-jz)

**KREL RADIO 1370**

===== DEADLINE: **western!** Rick Heald  
1581 - 20th Avenue  
28 JULY **dx forum!** San Francisco, CA 94122  
Ph: (415) MOnrose 5-4201  
=====

ALL TIMES EDT

CHARLES GEORGE-6407 HOWARD-DALLAS, TX 75227  
+++++  
MY only verie of recent was a card from KFEQ. I had almost given up and was about to write them a f/up. I've been wondering why R, Belize uses more power on their XR of 834 than on their SWXR. I recently hrd R, Clarin on 860 after getting a letter verie for a report on their SW. It gave the freq. for both in the letter w/out showing which one I hrd.  
Portion deleted per Editorial Policy-Rth  
I'd like to correspond w/other DXers on DXing.....  
Best wishes & 73 de Charles George.

STAN SHEDD-1433 5th ST NW-CALGARY, ALTA. T2M 3C1  
+++++  
Since I haven't written DX Forum before, I suppose that I should introduce myself, but I'm pressed for time so I'll owe you. The purpose of this report is to announce that I'm planning a get-together at my place sometime in July. (For those of you who don't know it, Calgary is a hotbed of MW DX'tivity, hi). Anyway, rather than setting a date, I'm asking for suggestions from interested parties. That way I can time it to coincide w/the plans of any out-of-towners that might be in the area. Pls write or call me pre-paid at 284-1996 if interested.

MORTON MEEHAN-7 WILSHIRE-PALM SPRINGS, CA. 92262  
+++++  
I wonder if most members know Canada has 7 time zones? Yukon ST is 9 hrs after GMT, Atlantic ST is 4 hrs and Newfoundland ST is 3½ hrs after GMT. The other time zones are the same as the 4 in the U.S. (Of course, adding, HST/AST and BST in US-Rth). KDHI 1250 has been operating from its new XR site some 5 mi/8km W of 29 Palms on Hwy 62. They've now built their SX at the XR site & abandoned the Didsbury Rd QTH. KCMJ 1010 Palm Springs has applied to the FCC to increase power from 1kw-10kw days and from 500w nites to 5kw. No word is made of a new XR QTH, but I can tell you the present one is poorly located up against high mtns to the W, Their present SX at the XR are very crowded and run down. Perhaps I'll see you at the upcoming SCADS meet in Huntington Beach 25 June. (Strange, Mort, no publicity of SCADS in either NRC or IRCA-Rth).

KARL RAYMOND-P.O. BOX 947-LAWNDALE, CA. 90260  
+++++  
Must explain my recent absence from these pages. Was sent for a company physical 04 Apr by Wards. Found I had a double hernia, so had to have that operated on the 19th, consequently, no work and no ambition to DX. Have been recuperating at home. By the time this gets in print, should be back at work. Logged stns now stand at 1329 w/1202 veries. Guess who was 1200? Local KGBS, out 6½ mos, also sent a KTNQ verie. Guess they figured if I could hear one, I could hear both. Also rcvd a pp/c for the KBCN TEST, not so w/KBEC TEST. Seeing mention in the Forum about these college campus stns reminds me that sometime last Fall on a Sun around 6pm PLT hrd on 830 kc. Thought it might be Cal State Long Beach or Compton Junior College, but Mark said L.B. was 1210, so perhaps it was Cal-State Northridge. The announced once in an hour, started to fade as WCCO moved in, never did get a good ID. Don't know why, but I sent a report to KFVB 980, still now answer, likewise w/KRCQ 1400 & KUZZ 970. As of right now plan to try by hand w/the CPC again next season, although last season was a disappointment. W/a little luck, might have something to say in the next issue. (Sorry to hear about you operation. Hope everything is fine w/you now-Rth).

RALPH KEMPER-297 27 3/8 RD-GRAND JUNCTION, CO 81501  
+++++  
As Summer descends and DX disintegrates, I reflect on this past DX season. Despite the disgusting escalation of NSPers within the past yr or so, (especially KRG0 1550, among others) about 30 new catches made it here this season, including R. Jumbo 545, HILR 860, CHUM 1050, WVON 1390, KEYE 1400, WTTI 1530, KOQT 1550 & WSDL 1560. I'm primarily a Domestic DXer, using an inexpensive '68 vintage Norelco AM portable. I recently paid a visit to the local Radio  
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Shack to obtain a TRF, but was informed that the TRF has again been discontinued. Is this really true. (I don't think so, Ralph. I've seen them in at least 4 S.F. stores while looking for rabbit ears FM antenna, which was out of stock, hi-RtH). New stations KBCQ 1230 Steamboat Springs, CO & KWTI 1340 Manti, UT have been on the air for some time now, but neither has been hrd here due to local ANers on those freqs. KBCQ 1020 will soon be running 50kw N thru a 6 tower array according to a comment hrd during recent KBCQ ET. That outa help submerge the 10-Q QRM here. Add KEXO 1230 (local) to the Ac Net list which appeared in the 05/07 DXM. Speaking of KEXO, they run a r/c on the 2nd MM (occasionally the 1st MM) from 0205-0220 w/TT, IDs every 5 min. KEXO is AN6, off MM top 40 rock format. Also, they recently moved their SXs from their old Main St storefront QTH to a suite on the top floor of the 10 story Valley Federal Plaza. Business must be good. Well, I've gotta s/off now (sorry, no SSB, hi). If any of you DX types out there find yourselves passing thru this area this summer, stop by and say hi. Sentent y tres..... and 73 too.

MIKE SANBORN-5042 1/2 HYTER-LAKEWOOD, CA. 90712  
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Hi, I'm Mike Sanborn and you're not! You can spell that w/an O or U, whichever you prefer. I's been a while so here goes....Latest veries are: v/q KKAA KMOX KUJ KVINU CJBC. V/l KARM. V/r KDOL. And now for a few words against KGIL. Since they got their FM outlet they've flipped! For example, a soulful version of the nx w/line like, "I have to push-push so I don't land on my tush-tush." Picture every stn in America doing that. RtH, shame on you. We in L.A. town don't waste water. Some are even resorting to taking baths w/their dogs, hi) (Not my fault if the guys picked the wrong wife, hi-RtH). I understand KOGO 600 had a SP. My luck I missed it. I could use a few more Canadians. I've a feeling DX will perk up when Summer arrives. This yr has been fairly unpredictable. In Jan, I logged 12 stns, Feb 13, Mar 12, Apr 03, and May 1. That 710 CP up North-a-way sounds like a good deal, but so did KGUD, KULL, KKAP, & KXQR. Are any of these ever going to exist? (I think 710 Tracy is dead, at least for a while-RtH). Well, I don't have any earth shattering news left to report, so in the tradition of my Forums, a closing word of cheer to the BCB DXers.....

Alex Hailey is a man  
Who's wit you can't deny  
If he traced the roots of worthless noise  
He'd end up with KFI  
CU later, 73 de MS. (You sure this isn't Rittenhouse under another name, hi-RtH).

ERIC RITTENHOUSE-2315 DWIGHT WY #101-BERKELEY, CA 94704  
++++  
Hi all. College students never die, they just run out of time and forget to report to WDXF...Heald even stopped sending the hit men over here...So what's new on the Berkeley/Menlo Park front? You don't give a %\$##\$\*? Well, I'll bore you w/it anyway, hi. For me, DX has been at a virtual standstill since Christmas break. The log is as it was in mid-Dec, though I hope that will change w/the arrival of Summer. This is not to say that I've completely deserted the DX scene; DXDD & Spotlight West serve well to keep me in touch. W/the coming of the SFPC, I expect to become a little more involved soon, hi. (If only you knew what we've planned for you, hi-RtH). My last WDXF was to the Anniversary issue. Since then, I've been, in a word, busy. In addition to studies, and columns, I'm the Editor-in-Chief of one of our campus newsletters, and a contributing writer to the campus humour magazine, and 2 other publications. (When do you start w/the Barb?-hi-RtH). What time is not spent writing is spent traveling. In the past 2 wks, I've been to L.A. area on 2 separate trips (I'm still trying to unfold myself after 2000mi/3200km of driving, hi). Though I'd like to think Summer will be less hectic, I'll more than likely be working, and things should be just as ridiculous, hi. I hope to make at least one convention, though my doing so is dependent entirely on finances (I have been brushing up on my auctioneering technique, just in case, hi) (Brother, both IRCA and NRC are in trouble, hi-RtH). I just realized that this will probably hit the first SFPC issue. I'll probably be pasting it up myself--strange. That being the case, I'd like to give a big thank-you to the Seattle gang. You stepped in in the great tra-  
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dition of former WC Convention hosts, and have done a great job. BARF will have some large shoes to fill. (Heald must wear at least a 13, though, hi. ). (Watch it ECR, 12, and no larger, hi-RtH). This is too long , so I'll stop. (You sure this isn't Mike Sanborn, hi-RtH).

MARK BIXBY-1627 HIGHLAND DR-NEWPORT BEACH, CA 92660  
++++  
Hello everybody! Now that I've graduated from 4 long, tedious, torturous yrs in high school, I can look forward to more of the same in college, hi! The other night (6/20) I noticed something strange. On a freq. of approx. 2710 I found an apparent lower side band relay of KYA. They s/off @ 0300 ELT and I've not hrd them since. Any ideas RtH? (That's a new one to me, Mark, and to KYA; they're just as puzzled-RtH). At the local community college where I am employed, I found that one of the instructors has some interest in BCB (he's thinking of buying the Sony CRF 320!) and he showed me a device called "Select-A-Tenna" put out by Edmund Scientific. It was housed in a circular plastic case and had a tuning knob. When a transistor radio is placed near it and the "Tenna" is tuned, the signal really gets boosted. We thing there are some metal plates inside the thing but we're not sure. If anyone knows exactly what this thing is, pls drop me a line. Re my 5/23 report of KLAG 570 w/an OG, I checked again the last 2 MMs and they were still blasting away w/normal programming. In closing, I would like to inform you all that I'm employed as a computer programmer and have access to an IBM 370/155. If there are any other computer minded members out there, pls drop me a line if you have any ideas for computer related DX projects. So long for this month. 73 de MDB

CALVIN AUGUSTINE-3422 BROOKSIDE-RAPID CITY, SD 57701  
++++  
Since it's quarter break time at school, I thought I better let all of you out there know that we're still alive and well in the beautiful Black Hills of S.D., the finest vactionland in America. Now that I got my plug in for good old SD, I guess that I should mention that in March I went back to school, taking 12 hrs a wk in nite school. W/working my 44-70 hrs a wk on my job, that kind of eliminated most of my DXing. I guess it's worth it; in only 2 more years I'll have my degree in business administration. You think having to give up most of my DXing is bad? The old schedule is so messed up that I'm even having to sell my race car! (What did you have?-RtH). I don't have the time to work on it to keep it running right, and besides I need the money for tuition. Why doesn't some nice friendly organization like IRCA set up a scholarship fund for dumb DXers like me to get an education, hi! About the only big DXing was logging CKX 1150 on 05/16 on my way home from school. Biggy huh? (Yes, if you live on the WC, hi-RtH). Oh well, I've blathered along for enough, so I'll shut up for now. 73 and everyone be sure to VOTE for the people you want to lead IRCA!!!

DAVE ROGERS-P.O. BOX 74-BUFFALO, OK. 73834  
++++  
Greetings! Well, I just filled out my ballot for elections for BoD & President. As to the controversies at present, I've been an IRCA member since '64 and there have always been controversies and feuds going on from time to time which I've paid little attention to. There may be those inclined to "quit" the IRCA but I plan on staying with it for the foreseeable future. I haven't been actively DXing the BCB lately, only a couple of veries in for June, & both those FL FM stns (WPCV & WJCT) on an E-skip opening. The hours of my job have changed some so that about every 3rd wk I won't have to be at work until 1100 on MM, so maybe I can stay up for some MM DX occasionally. Buffalo now has a "broadcast" stn of sorts, "BPK" on 215. The signal isn't too great here in town (about 3mi/5km from the airport), only about 10db/S9. But then again, maybe my Drake SW4A isn't too sensitive down that low. As to the superpower issue, why not license one such station, perhaps WLW since they already have a 500kw XR, and experiment and see what problems it causes. (They did that 40 yrs ago, and the problems were many, that's why they drop it-RtH). W/the Cubans and Mexico + Bonaire running well o/50kw perhaps the US clears need superpower also to compete. (Dave, bite your tongue, hi-RtH). 73 and good DX.

RANDY TOMER-P.O. BOX 677-ARCATA, CA. 95521  
+ + + + +  
Howdy. No DX to report due to a total lack of time lately to DX enough; been spending many hrs behind the wheel of a fine old K-W. Have had some time for a little experimenting, though. Recently borrowed a friend's Radio Shack "Power Horn" CB extension speaker and found it to be a useful speaker for DX-ing, since its audio response is tailored for voice reception, and it's small enough to be moved to any convenient position on the DX table. So far I'm highly pleased w/the performance of my outdoor 9 ft whip, and I recommend it to anyone who wants a general purpose outdoor antenna but is cramped for space. It's a 9ft CB whip coupled unamplified to my rx thru a simple MW tuner (tuner described in IRCA reprint #A14). It actually delivers almost as good a signal as do my amplified loops! (Although the whip is non-directional). A CB whip can be added just about anywhere by using a 3-way or mirror mount, available wherever CB stuff is sold. Someday I want to add a loading coil to it and see what happens; maybe one of those "booster coils" they used to sell for car rx antennas. I tried a BAX-1 preamp w/the whip but was not pleased w/the results. Rth, if you're still awake (zzzzzzzz...oh, hello there-Rth) do you recall any loggings of the Marshall Islands APRTS on 1220? How about KMTH 920, Midway Is w/250w? (Logged KMTH on 900, then 920, varied 920, but from Alaska, not CA, that many yrs ago, but they would be virtually alone on 920, from Venetie, AK.-Rth). Who is relaying CBU on 860 MMs, w/good strong signals? The Prince Rupert stn, maybe? (They should be off at 0100 PDT-Rth). When time permits I should be ready to add variable selectivity to my FRG-7, using diode switching between as many as 3 different filters. I'll report on how it works when it's all completed. 73 de RET.

WILLIAM TRUBEE-BOX 1323-KEALAKEKUE, HI. 96750  
+ + + + +  
As a parting note, I would like to say that after 2 1/2 yrs of trying Cook Is Radio on 600, they came thru w/not 2 as reported to bp, but 3 QSLs in 2 days. I guess all is not lost. As to my mention of "a parting note", I too will not renew my membership in IRCA, It's unfortunately deteriorated to a point where I don't feel membership is desirable any longer. Sad to say, but at least your column, Rick, has been excellent. ---Portion deleted per editorial policy --- Rth  
Used to enjoy IRCA very much, to bad it hit the skids.

NICK HALL-PATCH-3272 ALDER ST-VICTORIA, BC V8X 1P2  
+ + + + +  
Greetings once again. Finally rcvd a verie from KTFI for the test they ran last Mar 27. The CE said he'd been ill and not been working too much lately which was the reason for the late reply. Unfortunately he couldn't run the XR @ 5kw as there was trouble w/the modulator. So the test was run @ 1kw, and it's unlikely they got out much beyond their regular nighttime reception area. I tried to get the test on a MM but the CE suggested Sun the 27th, even tho I had explained the advantages of a MM test. In a situation like that the CE is always right I guess and a SM test is better than no test at all. Haven't had much time for DX lately for one reason or another, but I've noticed reasonable DU reception on a couple mornings. 3LO 770 Melbourne is my only new one however. Many thanks to Gene Martin for his Forums on "degradation of kilowatts" (sounds a bit perverse when you say it like that, hi) and on human made noise levels in the 30's. Any comparison of cx between then and now will always be welcome reading here, seeing I wasn't around in the good old days. There are 2 modern noise makers other than TVI which you don't seem troubled with, Gene, but they have made me deaf before my time. They are the aquarium heater which sends out bursts of noise, and the popular dimmer switch which generates a steady buzz on the BCB. I'm told that there are versions of each device which do not cause interference, but they are more costly, and don't heat water or dim lights much better, so everybody buys the cheap noise generators. They find out later that their favourite AM stn is buried in crud, and often don't know why; a friend thought there was something wrong w/his radio until I pointed to his aquarium as the culprit. I've neither device in my house, yet the noise is sometimes really ghastly from my neighbour's dimmer swiches; fortunately, the aquarium owners 2 doors down moved away while I still retained some of my sanity. An article should appear shortly on quieting the fish tank heater, but

I've had little success w/the dimmer switch yet. Anybody w/ideas pls write. (Nick, I made mention awhile back that dimmers were used to jam radios during WWII, after hearing them, I believe it!!-Rth). I've just finished building the Heath IM-4100 freq. counter to use for PFM's among other things. It's sure nice to have something work the first time when you build it. Usually my homebrew projects use more time troubleshooting than building. So far, I've done one wildly unreliable PFM. CJOR 600 came out at about 600.008, but I'm not sure that I've aligned the time base completely accurately against WWV, due to the noise the counter generates in my receiver. I hope things will be reasonably in order when the TA-TP season rolls around. The season should be pretty good if the A-index keeps up the way it's been. The Boulder index hasn't been o/10 the last month or so-- it's been pretty quiet. I'm way o/the limit now, so 73 and keep after that Summer DX. (2 Forums joined together w/portions deleted per NHP request-Rth)

RICK HEALD-1581 20th AVE-SAN FRANCISCO, CA. 94122  
Tele-Forum: (415) 665-4102 until 2200 PLT  
+ + + + +  
Howdy! Sorry about those who missed last issue. I had a brother-in-law undergoing brain surgery at age 34, and his family almost deserted him, and my sister almost went under in the process, but all is fine now. Tho I did get a disdain for Golden Gate Transit (Santa Rosa) and Greyhound (Cloverdale). If you're looking for KVRE 1460 Santa Rosa on SSS, forget it; they s/off 2100 daily, per their FM, 101.7. They roll in in SF on W side of city, E side gets KQIQ Livermore. Ya see, we have 900' hills dividing SF from E to W, the same hills that keep us in fog in the W and sun in the E. Summer came in w/a bang on 06/21, the hottest day of the year, 77F/25C, hot for SF when norm is 61F/16C, and 104F @ Santa Rosa, the hottest that day in the nation. Logged KUZZ 970 and KYTE 970 Bakersfield & Portland respectively for new calls on 05/22 around 0100. (Times EDT). Back to the Greece trip; some highlights, Monte Carlo w/religion in EE @ 2305 GMT and strong. Now some mysteries, and I need help. Steaming out of Iraklion (Crete) and on-ly 200mi/320km from Egypt, Egypt on 818 was loud and clear. Now then, I hrd what sounded like an Arabic language on 737 (I think) w/many mentions to Israel. Would that be Israel, and could that carry that far midday w/what is listed as very high power? Would Israel broadcast in Arabic for propaganda purposes? Cruising 3 hrs out of Santorini (N of Crete), noted 1475 Vienna, 1466 Monte Carlo, 1493 R. Moscow, 1529 R. Vatican, 1554 Nice, this all around 2250 GMT. This will be my last trip (that I know of) to Europe until 1978, and vacation could very well be a return trip to Alaska, about Nov. I think I could very well have spent several months on Santorini or Patmos, would have been interesting from a DX point of view. Now to get this into print, pls wish us all the best of luck, hi. Thanks to all who voted for me. 73 de Rth.

DON KASKEY-2525 BALBQA-#101-S.F. CA 94121  
+ + + + +  
A quick line while Rich Segal's, my wife Eloise & I are cutting & pasting. It will be a big bulletin, hi. Thanks to all contributors, regular & otherwise. We hope to put all items in DX MONITOR as soon as possible, space permitting. Controversy will be held to an absolute minimum, if not less, hi. Forget it and let's get back to DX. Randy Tomer, I heard & verified KMTH-920 from Sacto on 9/30/68 & 10/7/68. 920 was open then on MM. Keep the faith, we'll get better..

**SPECIAL NOTICE REGARDING THE RPCA**

The Radio Programme Collectors Association (RPCA) has undergone great changes. Beginning on 25 JUN 77 I, Albert S. Lobel, have resigned from the RPCA and have relinquished my position as Secretary/Treasurer. As of this date, I no longer wish to be associated with the club and no longer have any interest in said club. My reason for this decision is based on several facts recently learned about the activities in the past of one certain member who is very influential in the RPCA. I no longer wish to be associated with him. All correspondence regarding the RPCA should be addressed to the following address: 8475 Golden Ridge Road, Lakeside CA USA 92040. Should I receive any mail for the RPCA it will be forwarded to the new Lakeside CA address. The U. S. Postal Service has been informed that all mail for the RPCA is to be automatically forwarded.

**DX****Worldwide**BRUCE PORTZER,  
EditorAll times GMT/UTC  
Deadline, 7/26

6546 19th Avenue Northeast - Seattle, WA 98115 - 206-522-2521

ATLANTIC DX ROUNDUP

- 548 ALGERIA, Oran good w/male AA chanting, flute & drum accompaniment 0050 5/30. Noted fair w/CFNB/WDEV slop. (Connelly, MA)
- 665 PORTUGAL, Lisboa good w/PP talk, then vocal mx 0340 5/30. (Connelly, MA)
- 782 PORTUGAL, Miramar fair w/man in PP, IS on harp-like inst, then more talk 0059-0100 5/30. (Connelly, MA)
- 818 MOROCCO, Rabat very good after TV QRM went off; AA talk & then AA-style inst mx, easily the loudest TA at the time 0102 5/30. Fair w/AA chanting & violins 0120 6/8. (Connelly, MA)
- 1403 GUINEA, Conakry fair w/talk, ripping up WIDE w/bad het 0038 & also fair 0444 6/12. (Connelly, MA)
- 1586 WEST GERMANY, Langenberg, WDR poor/fadey w/male vocal 0042 6/12. (Connelly, MA)

PAN AMERICAN DX ROUNDUP

- 545 DOMINICA, Roseau, R. Jumbo noted w/repetitive LA-style dance mx, similar to that hrd on Colombian stns 0130 6/8. (Connelly, MA)
- 555 ST. KITTS, Basseterre, ZIZ fair-good w/soul & reggae show - male ancr, then female vocal 0136 6/8. (Conly)
- 595 DOMINICA, Roseau, fair w/Caribbean mx 0125 6/12. (")
- 630 CUBA, Santa Clara, CMHQ o/u WPRO w/rambling SS discourse 0452 6/11. (Connelly, MA)
- 640 VENEZUELA, Puerto la Cruz, YVQO well o/Cuba w/live-ly mx, Ondas Portañas ID 0453 6/11. (Connelly, MA)
- 698 DOMINICAN REPUBLIC, Valverde, HIDC, R. Mao jamming 700; SS talk 0130 6/12. (Connelly, MA)
- 705 ST. VINCENT, Kingstown fair w/male vocal o/a pronounced h.8 Hz SAH (who would the 2nd stn be?) 0129 6/12. (Connelly, MA) (Foreign Log 5 lists a "Voz de Clancho" in Honduras. bp)
- 725 SURINAM, Paramaribo, SRS potent w/oriental-sounding talk (poss Indonesian) 0118 6/6. Fair w/reggae mx/disco 0048 & good w/vocal mx 0121 6/12. (Connelly, MA)
- 725 COSTA RICA, San José, TILX good; man in SS 0455 6/11. (Connelly, MA)
- 740 VENEZUELA, Maracaibo, YVNC good w/CBL mullied, slow SS female vocal, R. Maracaibo jingle, SS talk at 0507 6/12. (Connelly, MA)
- 760 VENEZUELA, Puerto la Cruz, YVQO good, dominant w/SS ments of Puerto la Cruz 0057 6/11. (Connelly, MA)
- 760 COLOMBIA, Barranquilla, HJAJ strong w/WJR mullied; RCN/LV de Barranquilla IDs, SS dance mx 0510 6/12.
- 780 BRITISH VIRGIN ISLANDS, Roadtown, ZBVI good w/soul record 0047 6/1. (Connelly, MA; last 2 items)
- 780 CUBA, Camagüey, CMJN o/u WBEM w/political talk by man in SS 0457 6/11. (Connelly, MA)
- 820 COLOMBIA, Cali, HJED loud w/SS nx from several SA cities 0517 6/12. (Connelly, MA)
- 834 BELIZE, R. Belize good w/disco-rock 0459 6/11.
- 860 DOMINICAN REPUBLIC, Santo Domingo, HILR in w/block-buster sig, better than WHIH-850! ID as "R. Clarin - el Corazon del Pueblo" 0520 6/12. (Connelly, MA)
- 914 SURINAM, Nieuw Mickerie, RANI to fair peaks: female vocal, then talk in unfamiliar lang by man & woman, then odd mx like that often hrd on 725 0053 6/12.
- 940 VENEZUELA, Punto Fijo, YVMW battling a cacophonous low growl of hets: R. Punto Fijo jingle, talk by woman, then bouncy SS vocal w/honky-tonk electric organ accompaniment 0531 6/12. (Connelly, last 4 tips)
- 995 ECUADOR, Guayaquil, HCEW2, R. Suceso fair-good w/SS choral group vocal 0451 6/12. (Connelly, MA)
- 1005 COLOMBIA, Neiva, HJJR assumed here at fair level w/man in SS 0450 6/12. (Connelly, MA)
- 1010 ? UNID, 6/23 1000 pips ( \_ \_ ) S/A 1310 kHz (see Pacific section. bp). Seems as if it is associated w/SS pgmning. No loop to tell where it originated. Help! (Korinek, CA) (I've hrd the same sort of pips here, too. I'm not 100% sure, but I believe they're from KEHL. bp)
- 1020 VENEZUELA, La Asunción, YVRS o/u KDKA: SS, soft talk w/schmalzty background mx (à la Dick Summer on WNBC), Margarita ID 0504 6/11. (Connelly, MA)
- 1059 CUBA, Baracoa, CMKG annihilating KTW w/raucous het 0506 6/11. (Connelly, MA)
- 1100 ANTIGUA, St. John's, ZDK fair w/Caribbean EE talk, then song by the Jacksons; WWNE & a low audible het

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- well u/ZDK 0046 6/1. (Connelly, MA)
- 1165 ANTIGUA, St. John's, Caribbean R. Lighthouse very good - ancr was asking for more letters from listeners (to be sent to Box 382, St. John's) 0035 6/12. (Connelly, MA)
- 1180 CUBA, Isla de los Piños, CMEN, 6/12 0225 SS mx, R. ReLoj Nacional, poor w/1170/1190 slop! (Beauregard)
- 1200 VENEZUELA, Caracas, YVOZ fair w/man in SS 0045 6/1.
- 1200.8 ? UNID, slow LA mx, raw het against 1200 0115 5/30.
- 1265 ST. KITTS, Basseterre, R. Paradise noted in passing w/"Back to the Bible" pgm in EE 0037 6/12. (Connelly, MA, last 3 items)
- 1280 ? UNID, 6/3 2150 SS u/CJMS/CKGV (I've supposed USA) poor. (Beauregard, PQ) (Possibly the New York City stn, which is 100% SS programming. bp)
- 1470 MEXICO, Tijuana, BCN, XEBBC, usual strong signal 0750 6/20 w/EE amnts & rr mx, s/off 0757 in SS. (Bytheway, WA)

PACIFIC DX ROUNDUP

- 770 AUSTRALIA, Melbourne, 3LO, 6/10 1221 in fair w/ABC 1 mx 775AN-890. Typical Aussie pips 1300. (Korinek)
- 820 CHINA, Fujien, 6/14 1220 in weak w/YL in CC (I think it was CC). (Korinek, CA)
- 830 AUSTRALIA, Sale, 3GT, 6/10 1200 assumed this was the one w/ABC pips at 1200 thru a weak KIKI. (Korinek)
- 890 AUSTRALIA, Adelaide, 5AN, 6/10 1211 in fair-good almost rightly here after 1100 w/typical flute mx, etc. Not Fiji. (Korinek, CA)
- 1040 CHINA, Shanghai 6/10 1232 in poor w/CC talk. (Korinek)
- 1040 ? HAWAII, Honolulu, KHVH, 6/10 1239 in poor-fair w/mx.
- 1310 UNID, 6/13 1100 hrd def pips - - , sure sounded like NHK but just couldn't pull that 1st pip to be sure of tape. (Korinek, CA)

INTERNATIONAL QSL ROUNDUP

- 820 COLOMBIA, Cali, HJED, LV de Rio Cauca sent card in 312 days. Apologized for delay. Not exactly a QSL, name of stn not written on card, but have name of "gerante" and "CARACOL". (Beauregard, PQ)
- 834 BELIZE, R. Belize sent card in 13 days. (Beauregard)
- 860 DOMINICAN REPUBLIC, Santo Domingo, HILR, R. Clarin sent a letter in 36 days. (Beauregard, PQ)

REPORT FROM SPAIN

Bill Townshend, in Rota, Spain for two weeks' Naval Reserve training, sends along the following DX catches:

- 164 FRANCE, Allouis, talk in FF, xlint sig 2152 5/29.
- 209 MOROCCO, Azilal, exotic AA mx w/male sig 1558 5/30.
- 218 MONACO, Monte Carlo, mx & FF talk 5/29 2154.
- 236 LUXEMBOURG, Junglinster, RR mx, xlint sig 5/29 2147.
- 548 ALGERIA, Oran, hypnotic mx & AA talk, xlint sig 5/23 2130.
- 593 MOROCCO, Oujda, exotic AA-type mx & singing in AA. Xlint sig 5/23 2130.
- 611 MOROCCO, Sebba Aloun, hypnotic AA mx w/male singer. Xlint sig 5/29 0913.
- 980 ALGERIA, Algiers, signal bombing in w/exotic AA mx 5/28 2145.

REPORT FROM OKINAWA

Mike Hardester sends the following odds and ends of information obtained from off the air monitoring/observations.

China, People's Republic of: at times (days) the following frequencies appear in // to each other (1300-1500 UTC) - 560,590, 640,660,760,810,835,920,940,980,1000,1035,1420,1590.

North Korea: has the following noted // frequencies. Numbers in parentheses are times in GMT.

625: 785(1200), 813(1200), 725(1000), 820(1000), 875(1000), 2850, 3015, & 4270.

635: no // noted

655: no // noted

685: now on 687

695: no // noted

776: no // noted; severely hetting 780

816: only a carrier noted w/o ID

850: // 3320

South Korea: has four channels/main frequencies: Channel 1 is 710; channel 2 is 600; channel 3 is 970; and channel 4 is 750. In approx 12 hours of random checking, only the following were found as // frequencies:

Channel 1 - 710 in //620 @ 1100, but not // @ 1230.

Channel 2 - 600 in //575 & 590 @ 1245.

Channel 3 - 970 was w/o noted // frequencies.

Channel 4 - 750 was also w/o noted // frequencies.



**CONTRIBUTORS**

Thanks this time go to:

- Denis Beauregard, 2425 St-Antoine, Lachine, Quebec H8S 1J9  
DX-160, nondirectional 125' equivalent longwire
- Phil Bythway, 9722 Mary Avenue N.W., Seattle, WA 98117  
SP-600, SM-1
- Mark Connally, 7 Trowbridge Path, W. Yarmouth, MA 02673  
R-390A/URR, 2 37 meter longwires w/phasing unit
- Mike Hardester, Box 2723, USNAVREGMEDCEN, FPO Seattle 98778  
SPR-L, PRG-7
- Dave Korinek, 505 Redondo, Oceanside, CA 92054  
R-388, TRF, 150' LW
- William Townsend, 4500 Connecticut Ave. NW, Washington, DC  
20008 (DXing done from Rota, Spain), Belair portable

For this issue and the next one at least, I'm playing it safe and having a Tuesday deadline. But once the ~~SPR~~ ~~band~~ gets settled and we have a better idea of how long it takes a DXer to get from here to there, the deadline will be later (like Thursday or so). Won't be in Indy this year (no money) but I definitely plan on being in Portland for the WTFDA convention. And I'm not even a TV/FM DXer, hi. CUN 30 or so.



# DX RECORDS

HEARD: Dr. Michel Breger  
 VERIFIED: Steve Moss  
 GRAVEYARD: Walter Kuenast

GENTEXDX: 7217 Creekside Drive, Austin, Tx 78752.

**GRAVEYARD RECORDS**

**Continental QTH - 1340**

Call	Location	Miles	DXer-Location
WKUL	Cullman AL	700	Kaskey, Omaha NE
WJOI	Florence AL	688	Kaskey, Galva IA
WFEB	Sylacuaga AL	2033	Allen, Vallejo CA
KIKO	Miami AZ	905	Allen, Vallejo CA
KENT	Prescott AZ	523	Kaskey, Sacramento CA
KRTA	Batesville AR	523	Kaskey, Galva IA
KZNG	Hot Springs AR	581	Winsor, Valparaiso IN
KBRB	Springdale AR	658	Nuthals, Green Bay WI
KATA	Arcata CA	570	tie: Ford-Horne, Vancouver
KWXY	Cathedral City CA	426	Allen, Vallejo CA
KMAK	Fresno CA	260	Wien, San Jose CA
KDOL	Mojave CA	308	Kaskey, Sacramento CA
KSFE	Needles CA	1103	Kaskey, Omaha NE
KORV	Oroville CA	490	Wien, San Jose
KATY	San Luis Obispo CA	1388	Kaskey, Omaha NE
KIST	Santa Barbara CA	1368	Kaskey, Omaha NE
KOMY	Watsonville CA	119	Kaskey, Sacramento CA
KDEN	Denver CO	942	Belanger, Swan River MB
KQIL	Grand Junction CO	1032	Belanger, Swan River MB
KRWV	Salida CO	879	Allen, Vallejo CA
WNHC	New Haven CT	730	McCormack, W Lafayette IN
WOOK	Washington DC	966	Kaskey, Galva IA
WTAN	Clearwater FL	891	McCormack, W Lafayette IN
WR0D	Daytona Beach FL	893	Wheeler, Erie PA
WDSR	Lake City FL	2308	Allen, Vallejo CA
WTYS	Marianna FL	750	Winsor, Valparaiso IN
WGAU	Athens GA	888	Kaskey, Galva IA
WIGO	Atlanta GA	420	Taaffe, Dayton IN
WBBO	Augusta GA	942	Kaskey, Omaha NE
WGAA	Cedartown GA	613	Wheeler, Erie PA
WOKS	Columbus GA	667	Kramer, Chicago IL
WTIF	Tifton GA	2228	Allen, Vallejo CA
KSXI	Hailey ID	475	Portzer, Seattle WA
KAIN	Nampa ID	961	Belanger, Swan River MAN
WSOY	Decatur IL	416	Dabelstein, Lincoln NE
WJPF	Herrin IL	1800	Allen, Vallejo CA
WJOL	Joliet IL	1814	Allen, Vallejo CA
WBIW	Bedford IN	538	Kaskey, Galva IA
WTRC	Elkhart IN	1925	Allen, Vallejo CA
WLBC	Muncie IN	550	Kaskey, Galva IA
KROS	Clinton IA	933	Belanger, Swan River MAN
KCKN	Kansas City KS	1489	Allen, Vallejo CA
KSEK	Pittsburg KS	1132	Belanger, Swan River MAN
WCMI	Ashland KY	2129	Allen, Vallejo CA
WBGV	Bowling Green KY	584	Dabelstein, Omaha NE
WNBS	Murray KY	518	Dabelstein, Omaha NE
WERY	Richmond KY	846	Kaskey, Bryan TX
KRMD	Shreveport LA	1646	Allen, Vallejo CA
WFAU	Augusta ME	533	Wheeler, Erie PA

WGAU	Gardner MA	2623	Allen, Vallejo CA
WNBH	New Bedford MA	181	Mount, Teaneck NJ
WBRK	Pittsfield MA	190	Edmunds, Red Bank NY
WLEW	Bad Axe MI	485	Heimbürger, Port Huron MI
WLSV	Grand Rapids MI	728	Belanger, Winnipeg MAN
WCLR	Hillsdale MI	231	Wheeler, Erie PA
WAGN	Monominee MI	825	Belanger, Swan River MAN
WEKL	Royal Oak MI	2067	Allen, Vallejo CA
KVBR	Brainerd MN	590	Keleher, Fort Wayne IN
KDLM	Detroit Lakes MN	840	Wheeler, Erie PA
WEVE	Eveleth MN	553	Belanger, Swan River MAN
KROC	Rochester MN	1593	Allen, Vallejo CA
KWLM	Willmar MN	468	Winsor, Valparaiso IN
WK0Z	Kosciusko MS	742	Kaskey, Galva IA
WAML	Laurel MS	1914	Allen, Vallejo CA
KXKE	Mexico MO	1064	Belanger, Swan River MAN
KLID	Poplar Bluff MO	376	Winsor, Valparaiso IN
KSMO	Salem MO	102	Eddie, St Louis MO
KICK	Springfield MO	1574	Allen, Vallejo CA
KCAP	Helena MT	880	Kaskey, Omaha NE
KPRK	Livingston MT	780	Kaskey, Galva IA
KATL	Miles City MT	1012	Allen, Vallejo CA
KVLT	Missoula MT	734	Allen, Vallejo CA
KHUB	Fremont NE	839	Belanger, Swan River MAN
KGFV	Kearney NE	1244	Allen, Vallejo CA
KSID	Sidney NE	821	Winsor, Valparaiso IN
KRAM	Las Vegas NV	486	Wien, San Jose CA
KBET	Reno NV	184	Edmunds, Harzang-Wien, San Jose
WDCR	Hanover NH	247	Mount, Teaneck NJ
WMID	Atlantic City NJ	660	McCormack, W Lafayette IN
KHAP	Astac NM	1060	Portzer, Seattle WA
KSIL	Silver City NM	980	Kaskey, Galva IA
WMBO	Auburn NY	201	Breger, Long Island NY
WENT	Gloversville NY	210	Edmunds, Red Bank NJ
WKSJ	Jamestown NY	399	Winsor, Valparaiso IN
WMSA	Massena NY	290	Edmunds, Parsippany NY
WALL	Middletown NY	297	Wheeler, Erie PA
WIRY	Plattsburg NY	253	Maule, Torrington CT
WJRI	Lenoir NC	857	Kaskey, Omaha NE
WTSB	Lumberton NC	605	Edmunds, Syracuse NY
WOXF	Oxford NC	415	Wheeler, Erie PA
WONI	Wilmington NC	510	Edmunds, Glenrock NJ
WAIR	Winston-Salem NC	923	Kaskey, Omaha NE
KXPO	Grafton ND	526	Dabelstein, Lincoln NE
WNCO	Ashland OH	230	McCormack, W Lafayette IN
WOUB	Athens OH	265	McCormack, W Lafayette IN
WIZE	Springfield OH	2048	Allen, Vallejo CA
WSTV	Steubenville OH	800	Kaskey, Omaha NE
KIHN	Huge OK	676	Winsor, Valparaiso IN
KOCY	Oklahoma City OK	1377	Allen, Vallejo CA
KTOW	Sand Springs OK	413	Breger, Austin TX
KLOO	Corvallis OR	449	Allen, Vallejo CA
KIHR	Hood River OR	529	Allen, Vallejo CA
KBBR	North Bend OR	373	Kaskey, Sacramento CA
WCVI	Connellsville PA	861	Kaskey, Omaha NE
WSAJ	Grove City PA	63	Wheeler, Erie PA
WHAT	Philadelphia PA	619	McCormack, W Lafayette IN
WRAW	Reading PA	197	Breger, Long Island NY
WBRE	Wilkes-Barre PA	163	Morby, Ballston Lake NY
WNPA	Williamsport PA	254	Singer, Richmond VA
W0KE	Charleston SC	706	Eddie, St Louis MO
WRHI	Rock Hill SC	923	Kaskey, Omaha NE
WSSC	Sumter SC	299	Singer, Richmond VA
KIJV	Huron SD	649	Kemper, Grand Junction CO
KRSD	Rapid City SD	1065	Allen, Vallejo CA
WBAC	Cleveland TN	773	Kaskey, Galva IA
WKRM	Columbia TN	669	Kaskey, Galva IA
WGRV	Greenville TN	362	McCormack, W Lafayette IN
WKGK	Knoxville TN	2101	Allen, Vallejo CA
WLOK	Memphis TN	460	Winsor, Valparaiso IN
WCDT	Winchester TN	680	Kaskey, Omaha NE
KWKC	Abilene TX	1325	Allen, Vallejo CA
KHLB	Burnet TX	700	Dabelstein, Lincoln NE
KAND	Corsicana TX	1511	Allen, Vallejo CA
KSIT	El Paso TX	969	Kaskey, Galva IA
KLBK	Lubbock TX	950	McCormack, W Lafayette IN
KRBA	Lufkin TX	792	Kaskey, Galva IA
KPDW	Pampa TX	1190	Allen, Vallejo CA
KOLE	Port Arthur TX	1710	Allen, Vallejo CA
KTEO	San Angelo TX	177	Moss, Austin TX
KVIC	Victoria TX	1584	Allen, Vallejo CA
WTWN	St Johnsburry VT	430	Wheeler, Erie PA
WKEY	Covington VA	417	Taaffe, Dayton IN
WHAP	Hopewell VA	290	Edmunds, Parsippany NY
WJMA	Orange VA	541	Evans, Gary IN
KAGT	Anacortes WA	98	B Hardy, Aberdeen WA
KAPA	Raymond WA	1430	Kaskey, Omaha NE
KWNW	Wenatchee WA	653	Allen, Vallejo CA
WHAR	Clarksburg WV	836	Kaskey, Omaha NE
WEPH	Martinsburg WV	477	McCormack, W Lafayette IN
WMON	Montgomery WV	2198	Allen, Vallejo CA
WLDY	Ladysmith WI	695	Belanger, Swan River MAN
WRIT	Milwaukee WI	426	Dabelstein, Omaha NE

KSGT Jackson WY 800 Belanger, Swan River MAN  
 KYCN Wheatland WY 952 Allen, Vallejo CA  
 KWOR Worland WY 703 Belanger, Swan River MAN

International QTH-1340

Dr. Richard E. Wood (+) Kailua HI 15 stations  
 Merv Branks (=) Invercargill NZ 1 station

Rule Clarification: Only those stations currently on the air will be eligible for Graveyard Records. Please do not send me lists of stations no longer in operation. Also when a station changes its call letters, it will be listed with the new call letters, and treated as a new station. For other details concerning Graveyard Records, see page 243 of the February 5, 1977 DKM.

Summer is an excellent time to go through your log, and compile a listing of your record breakers. So, why not do it now. Until next time, 73s from CentexDx.

Walter

\*\*\*\*\*

EASTERN editor: Robert Kramer  
 SPOTLITE 3106 W. Pierce  
 \*\*\*\*\* Chicago, Ill. 60651

This time the spotlight will shine on three states, Delaware Connecticut and Rhode Island. All three of these are not easy (except for WVIC) to get stations from if you live in the midwest or west. Most of the fulltime stations have directional patterns that more than slightly favor the Atlantic Ocean. Many more are low powered daytime only stations. For these reasons, logging a station from one of these states can prove a real challenge.

SPOTLITE on CONNECTICUT

Connecticut, besides being the 2nd hardest state to spell (or it was for me anyway, hi) is the Southern most state of New England. Connecticut is a major state for manufacturing in the United States. This has been the major economic base for the state since colonial days. One of the major products that Connecticut made in the past, was small arms. Because of this, Connecticut is known as the Arsenal of the Nation.

- 600 WICC Bridgeport, 1 D .5 N, DA-1. APR, upbeat MoR. Beams NW, nulls to the E & SW. Dominates days, poor nights in VT, once to IL on MM W/Cuban. V/Q.
- 610 WSWG Torrington, 1 D .5 N, DA-2. Mutual, pop mx. The night beam is to the NW & SE, with a null to the SW. XLNT days, poor nights to VT, to IL on DX test. V/L
- 840 WRYM New Britain, 1 D, MD. ABC/I. Much local programs. Some foreign language. Fair to VT. V/L.
- 910 WRCQ New Britain, 5 D&N, DA-2. NSP. UPI. Pop & oldies. Uses 91-Q IDs. Dominates days, strong nights W/WGHI & WRNL in VT, occasionally to IL on Sun. Morn. V/L.
- 940 WINE Brookfield, 1 D, MD. Mutual. Pop mx. To VT days w/poor signals, fair to IL on DX test. V/F.
- 960 WELI New Haven, 5 D&N, DA-N. MoR & pop music. Beams mostly SE. To VT days & nights, occasionally to IL & NJ, to IL on now extinct F/C. V/Q.
- 990 WNTY Southington, .5 D, DA. Mutual, MoR mx & talk. Some foreign language. Poor days to VT, W/WTRY slop. V/L.
- 1080 WTIC Hartford, 50 D&N, DA-N. Pattern change at local SS in Dallas. NBC, MoR & pop. NSP. Easily the best bet for CT. XLNT D&N in VT, to IL, IN, & WI, W/KRLD, to NJ nightly. V/Q.
- 1150 WCHI Middletown, 1 D, MD. UPI, MoR. To NJ on R/C (1st MM 0030-0045) V/L.
- 1240 WWCW Waterbury, 1 D .25 N, MD. APR, top 40. Sp MM 0103-0500. To NJ on reg. Sked. & ET.
- 1290 WCCC Hartford, .5 D, MD. ABC/E. Pop mx. Poor to Vt. No verie.
- 1300 WAVZ New Haven, 1 D&N, DA-N. UPI, top 40. Poor nights in VT W/WFBR & WERE QRM, occasionally to NJ. V/Q & V/L.
- 1320 WATR Waterbury, 5 D 1 N, DA-2. ABC/I. Pop, some rock mx. Fair days and dominates nights in VT, nightly to NJ. Reluctant V/L.

1350 WNLK Norwalk, 1 D .5 N, DA-N. 0600(0630)-0000. Mor & light pop. To VT at SSS during winter, once to NJ at S/Off. V/C.

WINY Putnam, 1 D, MD. Mutual, MoR mx, much local prog. To VT at SSS during winter. No verie.

1360 WDRG Hartford, 5 D&N, DA-N. MSP. Rock mx. Dominates days, strong nights in VT, nightly to NJ, fair to WI on MM W/WSAI QRM, occasionally to IL on MM. V/Q.

1380 WOWW Naugatuck, 5 D, .5 N, DA-2. 0500(0600)-0000. Best at S/On on Sun. morn in VT. V/L.

1400 WILL Willimantic, 1 D .25 N, MD. 24h. ABC/C, rock mx. occasionally to NJ W/much QRM.

1410 WPOP Hartford, 5 D&N, DA-2. NBC/NIS. News. Fair-poor days, dominates nights in VT, nightly to NJ, once to IL at SSS W/WOTT QRM, to WI through WING & WIZM. V/Q.

1470 WMMW Meriden, 1 D, MD. EZ listening. Fair to poor days in VT W/WSRO & WNBQ QRM. V/L.

1490 WGCH Greenwich, 1D .25 N, MD. UPI. 0600-2315. To NJ at SSS. MoR mx.

1500 WFIF Milford. 5 D, DA. Mutual/APR. Pop mx. To VT days & NJ at SSS. No verie.

1510 WNLG New London, 10 D 5 N. Night beam E-SE. ABC/C. SP MM 0000-0515. Pop Music. No verie.

1550 WEXT West Hartford, 1 D, MD. ABC/I, pop, some C&W. To VT days W/WMTN, to NJ on F/C or at SSS, to IL & WI on ET. V/L.

1590 WQQW Waterbury, 5 D&N, DA-1. NW-SE figure 8 directional pattern. CBS. Top 40. NSP. All times in VT, nightly to NJ. V/L, but takes a while.

SPOTLITE on DELAWARE

Delaware is the 2nd smallest state in the United States, with 2057 sq.m. The state has a major fishing and oyster industry.

900 WJWL Georgetown, 1 D, MD. UPI, MoR. Days to NJ W/WFLN. V/L.

930 WTHD Milford, .5 D, DA. Directional NW-SE. APR, MoR mx. To NJ days W/WPAT & WFMD QRM. Tests 1st & 2nd Sun. Morn. 0000-0300, ID's quarterly.

1150 WDEL Wilmington, 5 D&N, DA-2. NBC, MoR. 0500(0600)-0035. Best and probably the only bet for DE for anyone not living on the East Coast. Days to NJ, to IL at S/On & on DX test. V/L.

1260 WNRK Newark, .5 D, DA. ABC/C, MoR & C&W. To NJ at SRS & SSS. V/L.

1280 WSPD Seaford, 1 D, MD. Mutual/UPI. C&W, MoR. To NJ at SRS, once to IL (on old call letters) at S/On. V/PPC

1290 WTUX Wilmington, 1 D, MD. Mutual. Beautiful mx. Days & on ET to NJ. V/L.

1380 WAMS Wilmington, 5 D 1 N, DA-3. SP MM 0005(0100)-0530. Top 40. Dominates all times in NJ.

1410 WDOV Dover, 5 D&N, DA-N. Mutual. 0600-0101. MoR. To NJ all times. V/L.

1450 WILM Wilmington, 1 D .25 N, MD. MIS. News. NSP. To NJ all times. V/L.

1600 WKEN Dover .5 D, 1 N, DA-N. ABC/E, EZ listening. Poor all times W/WWRL & WUNR QRM in NJ. No verie.

SPOTLITE on RHODE ISLAND

550 WZNG Pawtucket, 1 D .5 N, DA-N. NSP. Top 40. To NJ nights. V/L.

630 WPRO Providence, 5 D&N, DA-N. Figure 8 directional pattern going NW-SE. Pop mx. Dominates D&N in VT, twice to IL on MM. V/Q.

790 WEAN Providence, 5 D&N, DA-2. Night beam NE, E, & W. Nulls NW & SW. MNIS, news. Fair days to VT. V/L.

- 920 WJAR Providence, 5 D&N, DA-N. Pattern figure 8 MW-SE. SF MM 0000-0600. Best bet for RI. MoR, talk, many Boston pro sports teams. Poor days, good nights to VT, to NJ most nights, occasionally to IL. V/L.
- 1220 WRIB Providence, 1 D, MD. APR. Religious & Gospel. To IL on DX test W/CW & voice IDs through WJAR. V/L.
- 1230 WERI Westerly, 1 D .25 M, MD. Mutual. SF MM 0000-0500. McR. Jepko nights. Many nights to NJ. V/L.
- 1360 WMRI Woonsocket, 1 D, MD. ABC/I. On DX test to IL, NJ, VT, & WI. V/F.
- 1510 WADK Newport, 1 D, MD. ABC/I. EZ listening. Good to NJ during emergency wx. V/L.

Thanks this time to:  
 Dennis Bednars... Chicago, IL, South Bend, IN, Bennington, VT  
 BoR Lazar... Madison, WI  
 Jim Hopkins... Pitman, NJ  
 Ye olde (or maybe younge,hi) editor.

Watch for an address change soon. Sorry I couldn't give one of those very interesting geography lessons on RI, but that volume of my encyclopedia is missing. They didn't have such to say about DE, thus the short lesson. Well 73. See you next in Alabama where the next Spotlight will shine. There will probably be more than one Alabama column (because I alone have 75 stations to report).

## president's REPORT

### RECENT BOARD OF DIRECTORS ACTIVITIES:

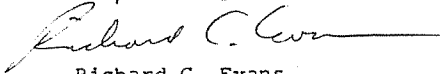
PROPOSAL	RLF	NH	GM	FJP	BP	RFS	JZ	RESULT
7.2-38	A	F	F	F	F	F	F	PASSED
7.2-39	A	F	F	F	F	F	F	PASSED
7.2049	A	F	F	F	F	F	F	PASSED
7.2-41	A	F	F	F	F	F	F	PASSED
7.2-42	A	F	F	F	F	F	F	PASSED
7.2-43	A	F	F	F	F	F	F	PASSED

DIRECTORS: Robert Foxworth, Nancy Hardv, Grant Manning, Father Jack Pejza, Bruce Portzer, Ronald Schatz, John Zondlo.

### PROPOSALS:

- 7.2-38 Approve San Francisco bid to take over the publishing duties. Submitted by Don Kaskey.
- 7.2-39 Confirm Don Kaskey as Editor-in-Chief.
- 7.2-40 Confirm Rich Segalas as Publisher.
- 7.2-41 Confirm Robert Curtis as EDXR editor.
- 7.2-42 Confirm Ralph Kemper as Conditions of Frequency List editor.
- 7.2-43 Confirm Mike Mitock as Standby Editor.

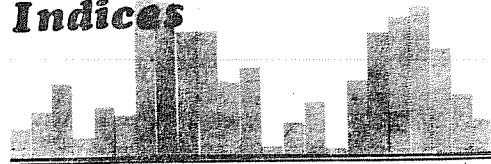
Respectfully Submitted,



Richard C. Evans,  
President, IRCA

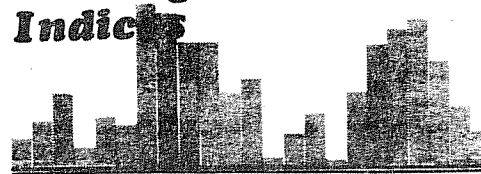
June 26, 1977

## Geomagnetic Indices



Date	A	K - indices	A	K - indices
3/28	9	2-3-2-2-1-1-3-3	4/ 4	22 5-4-5-1-3-2-3-3
3/29	11	5-3-1-1-2-1-2-1	4/ 5	13 4-2-3-3-2-1-3-3
3/30	4	1-1-2-1-0-2-0-2	4/ 6	30 4-4-3-1-3-4-5-6
3/31	3	2-0-1-2-0-0-1-1	4/ 7	35 6-5-5-3-3-2-5-3
4/ 1	2	0-1-2-0-0-0-2-0	4/ 8	21 4-3-4-4-3-3-3-4
4/ 2	4	1-1-2-2-0-0-0-3	4/ 9	18 4-4-4-2-3-3-2-3
4/ 3	10	3-3-3-2-0-1-2-3	4/10	13 4-4-3-2-2-2-2-2

## Geomagnetic Indices



Date	A	K - indices	Date	A	K - indices
4/11	10	3-3-2-1-2-2-2-3	4/25	22	6-5-4-2-1-1-1-2
4/12	6	3-1-0-0-2-1-2-3	4/26	4	1-2-2-1-0-1-1-1
4/13	5	2-1-2-1-1-1-2-2	4/27	5	1-2-1-2-1-1-1-2
4/14	9	3-1-3-2-1-1-2-3	4/28	3	1-2-0-0-0-1-2-2
4/15	11	3-4-3-2-2-1-1-2	4/29	17	4-3-4-3-3-1-3-3
4/16	14	1-3-3-2-3-3-3-4	4/30	9	2-4-2-2-2-1-2-2
4/17	10	4-3-3-2-1-0-2-2	5/ 1	12	3-2-2-1-1-1-4-4
4/18	9	3-2-1-3-2-2-2-2	5/ 2	44	6-5-4-5-5-4-5-4
4/19	34	3-5-6-4-4-3-3-5	5/ 3	19	4-3-5-4-2-1-2-3
4/20	25	5-3-5-4-3-3-3-3	5/ 4	14	2-2-3-1-2-4-4-3
4/21	10	3-3-3-2-1-2-2-2	5/ 5	9	3-2-3-1-2-1-2-3
4/22	6	2-2-3-1-0-1-2-1	5/ 6	9	3-3-2-2-2-2-2-2
4/23	5	1-3-2-1-1-0-1-2	5/ 7	6	2-3-3-1-0-0-1-1
4/24	11	2-1-3-3-3-2-2-3	5/ 8	1	0-1-1-0-0-0-0-1

### NEWS FROM SOUTH AFRICA

According to a broadcast on Radio 5, Radio 5 will continue broadcasting on MWC (AM) and will later this year also have a SW outlet. The decision to leave MW has been permanently rescinded....From Denzil Baker...

### MISCELLANEOUS MANITOBA

Winnipeg's Hal Christiansen tells us that CFRW ( a CHUM stn) has moved from 1470 to 1290 as of 6/13/77. They will probably continue their NSP operation per Hal. He adds that the new call letters for the Brandon, Manitoba stn on 1570 are CKLQ.

### TRAVELLERS INFORMATION SERVICE APPROVED

The FCC has approved the establishment of the "Travellers Information Service", effective July 29. Stations established under the TIS will operate on 530 & 1610 kHz with a maximum power of 10 watts and will provide information on road hazards, directions to airport parking lots, information on food, lodging, and gasoline, etc. The locations of TIS stations will be restricted to the immediate vicinity of air, train, & bus terminals, public parks and historical sites, interstate highway interchanges, bridges, and tunnels. 530 kHz will be used primarily by the federal government, while 1610 kHz will be earmarked for other users, such as local governments....From Bruce Portzer....

### JEPKO NETWORK DWINDLES

Dave Korinek forwards the information that MBS has dropped the Herb Jepko show in May. Herb has reformed the 'Nitecap Radio Network' and is slowly adding new stations to carry his show. As of June 21, 1977 the following stations carry Jepko:

580--WIBW--Topeka,KS	1090-WBAL--Baltimore,MD
790--WSGW--Saginaw,MI	1160-KSL--S.L.C. UT
740--KTRH--Houston,TX	1310-WRR--Dallas, TX
920--KWK--St.Louis,MO	1480-KBEA--Mission, KS

### HAM NET

From Alan Merriman..Several of the hams in NRC have set up a BCB Net on 75 meter sideband. We have Sunday evenings at 2300 ELT on 3895 khz plus/minus 5 khz to avoid QRM. Dan Phillips, K4FNR & Ross Hansch, W9BG got this going. Other regulars include myself, K4GLU & Tom Sunstrom, WB2AYA. Several other hams including Mark Connelly, WALLION, Dick Truax & Harry Jones, K4FIC have checked in from time to time. Purpose is general talk about BCB DX & the passing on of late info on new stns, late tests, etc. Would like to invite any IRCA hams who are not members of NRC to join us if they like & to let IRCA members who are not hams know this source of information. Hams/listeners to the net had info about St.Vincent-705 ten days before it appeared in the bulletin. Alan's address is PO Box 6, Fairfax,VA 22030

## IRCA CONVENTION DETAILS

**WHERE & WHEN:** Marriott Inn, Indianapolis, IN. Aug. 12-14, 1977.

**REGISTRATION FEE:** \$17.50, which covers cost of the meeting room, drinks, banquet, & hospitality room.

**ROOM RENTALS:** \$24 single, \$30 double (\$15 per individual), \$33 triple (\$11 per individual), \$36 quadruple (\$9 per individual). Room assignments will be made jointly by the Indianapolis Convention Committee & Marriott Inn, unless advance arrangements are made with us. Triple rooms & quadruple rooms are by special arrangement, and such an arrangement must be requested when first checking in. We will arrange for such in advance if you request.

**REGISTRATION CUTOFF:** 29 July. In order to be situated in block with other IRCA Convention attendors; otherwise, block assignments are not assured.

**AUCTION:** Items are invited. Please bring or send your auction items. They may be shipped here in care of Charles A. Taylor or Donald M. Roller. We would prefer usable or serviceable items, to preclude items of absolutely no worth. Surveys & coverage maps, tape recorders, radios, recording tape, etc., & O.K. No dead cats, please.

**HOW TO GET TO NAPTOWN:** American, Allegheny, Delta, Eastern, Ozark & Trans World airlines all fly directly into Indianapolis International Airport (IND). Interconnects are easily made at Chicago O'Hare (ORD). Amtrac serves Indianapolis from the eastern U.S. & of course, Greyhound & Continental-Trailways arrive in Indianapolis. If you're driving, see elsewhere in this advisory.

**QUESTIONS:** Everyone has one. Contact one of the NERDS (we are known to break into coherent English, on occasion).

### Routing from adjacent states to Indianapolis

Individuals arriving from more distant states & provinces should avail themselves of suitable routes which will interconnect them with US41, I-65, I-69, I-70, or I-74. Refer to "Local Routing Table" (below) to determine suitable routing from interstate highway system to Marriott Inn. Assistance with routing from your area is available from the NERDS Convention Committee. "Vicinity" in following table refers to Indianapolis area.

area of origin  
northeast (Toledo or Cleveland) I-80/90 west to I-69, I-69 south to vicinity  
northeast (Detroit-Windsor) south on I-75 to I-80/90, west on I-80/90 to I-69, south to vicinity.  
east (Columbus, Ohio) I-70 west to vicinity  
southeast (Cincinnati) I-74 northwest to vicinity  
south (Louisville) I-65 north to vicinity  
southwest (Evansville) US41 north to I-70, I-70 east to vicinity (OR) I-65 east to US41, US41 north to I-70, I-70 east to vicinity  
west (Saint Louis) I-70 east to vicinity (OR) I-74 southeast to vicinity  
northwest (Chicago) 294 to I-80, I-80 east to I-65, I-65 southeast to vicinity; (OR) I-90 south to I-65, I-65 southeast to vicinity  
north (Lansing) I-69 south to vicinity

Local Routing Table (from interstates to Marriott Inn) (refer to map of Indianapolis Area entry routes, key number refers to indicator number at margins of map).

key interstate local routing  
1 I-69 (northeast) southwest on I-69 to 465 exit, south on 465 for 3 miles to State Road 100 (Shadeland Ave.), south for 4 miles on SR-100 to 21st St., east on 21st St. to Marriott Inn.  
2 I-70 (east) west on I-70 to State Road 100 (Shadeland Ave.) exit, south on SR-100 to first intersection (21st St.), east on 21st St. to Marriott Inn  
3 I-74 (southeast) northwest on I-74 to 465 exit, north on 465 for 1/2 mile to State Road 100 (Shadeland Ave.) exit, north on SR-100 for 4 1/2 miles to 21st St., east on 21st St. to Marriott Inn.  
4 I-65 (south) north on I-65 to 465 exit, northeast on 465 to I-74 interconnect, continue on 465 as per I-74 (above) routing.  
5 I-70 (southwest) northeast on I-70 to 465 exit, south on 465 to I-65 interconnect, continue on 465 as per I-65 (above) routing.

- 6 I-74 (northwest) southeast on I-74 to 465 exit, south on 465 to I-70 interconnect, continue on 465 as per I-70 (above) routing.
- 7 I-65 (northwest) southwest on I-65 to 465 exit, continue due east on 465 to I-69 interconnect, cc 465 as per I-69 (key no. 1, above) routing.

Especially care is necessary when approaching the State Road 100 & 21st Street intersection from the north on SR-100. The SR-100 & 21st St. intersection is next south after the SR-100 & I-70 interchange.

The Marriott is situated on the northeast corner of the SR-100 & 21st Street intersection. Continue east on 21st Street for about one-tenth mile to the Marriott Inn entrance on the north side of 21st Street.

## A C T I V I T I E S

NERDS II (Naptown Electromagnetic Radiation DX Society) presents the 1977 IRCA Convention at Naptown (Indianapolis, Indiana), on the 15th anniversary of the 1962 NRC Convention here.

The 1977 IRCA Convention will begin at 1300 on Friday 12 August, and will continue to the evening of Sunday 14 August.

Among planned activities are the annual IRCA Softball Game, the annual IRCA Auction & Quiz, the annual IRCA Business Meeting & Banquet, DX lectures & expositions, a tour of the WISH-TV-8 studios, a tour of 50-kW, WIBC-1070, 6 tower transmitter site & a following lecture. We have a tentative commitment from Vane A. Jones (author of North American Radio TV Station Guide) to address the convention.

Come to Naptown and get your very own, free, convention booklet (complete with some pictures so even DXers can use it!) along with your very own convention pack.

In the meantime, we invite everyone to join us on the above dates. Questions may be directed to one of the following:

- 1) Charles A. Taylor, 936 N. Temple Ave., Indianapolis, IN 46201 (Convention Committee Chairing & IRCA Repr.) Phone: 317-635-2164 daily 1900-2300 EST.
- 2) Donald M. Roller, 7428B Rockleigh Drive, Indianapolis, IN 46224 (NRC Repr.) Phone: 317-248-8629 daily 1600-2300 EST.
- 3) James T. Pogue, P.O. Box 972, Lafayette, IN 47902 (NASWA Repr.) Phone: 317-337-7051 daily 1200-1700 EST.



PERCEPTUAL CONFUSIONS AMONG LETTERS OF THE ALPHABET

An initial look at call-sign mis-identifications

Gerry Thomas

A common problem encountered when DX'ing the medium-wave frequencies is failing to hear a completely readable ID. Many times, one or more letters of the call-sign are garbled or masked to such an extent that they only reach the status of "sounded like." This degradation of the call-sign can be the result of several factors -- impulse noise (QRN), speech or tonal interference (QRM), long- and short-term amplitude variation (QSB and beating), and so on. However, not the least significant "degrader" of signal quality is the "white noise" that is inherent in the receiver, the DX'er's environment, etc. This "shushing" sound can be an effective masker of any number of different acoustical stimuli and has been in use as such in scientific laboratories for years. As a result, there is a fairly large body of scientific literature dealing with the confusibility of speech sounds which occur in a background of white noise. Unfortunately, (for our purposes), the vast majority of this research has used phonemes (basic speech sounds) as target stimuli and not letters of the alphabet, per se. Those few studies that are referenced as using letters of the alphabet as targets were either (1) conducted under government contract during WW II and are difficult to locate today, (2) used only some of the letters of the alphabet, or (3) failed to report exact probabilities of confusion for all letters. Regarding the research on phoneme perception, it is possible to predict the letter confusibility (since letters are constructed of phonemes) that might occur in a DX'ing situation. However, this alternative alone was not favored for a couple of reasons. First, since most communications receiver's headphones/speakers have a frequency response of between 200 Hz and 2800 Hz, the relevance of studies employing different bands of frequencies is questionable. Secondly, some of the findings reported in the phoneme literature are, at first glance, somewhat counter-intuitive and require an empirical test in a DX'ing situation. For example, it has been reported that the phoneme with the sound "ee" is sometimes confused with the phoneme with an "oo" sound (in the presence of white noise or low pass filtering). Very briefly, a possible explanation for this occurrence has to do with the fact that the "ee" and "oo" have first formants (vocal tract resonances) which are very close in frequency, but second formants which are very different in frequency. Since higher frequencies tend to be masked more effectively than lower frequencies, the relatively greater degradation of the higher frequency second formant results in a confusion between the two sounds. A similar formant relationship exists between "a" and "oh," and "i" and "r" sounds, though to a lesser degree. The implication of this finding is that one might expect to confuse the letter "T" not only with rhyming letters (e.g., "P," "D," "C," etc.) but also with letters such as "Q" and "U."

Since I have access to a psychoacoustics laboratory, I decided to investigate this possibility and at the same time obtain an approximation of the confusibility of all letters that can occur in a situation that as closely as possible simulates DX'ing.

Method

The 26 letters of the alphabet were recorded in a background of white noise and presented randomly at a rate of one every three seconds to listeners whose task it was to "identify" the letters as they occurred. During each listening session, each letter occurred singly at least three times, and as a member of a letter pair at least twice. Since it was not feasible to represent all 650 permutations of letter pairs in this scheme, it was decided that each letter would be preceded once by the letter "W" and once by the letter "K." An additional five letter pairs were included for their potential confusibility, yielding a list length of 135 items. Four tapes were generated -- two spoken by a male and two by a female voice. One tape by each speaker was created such that the average power of the spoken letter was about 5 dB(SPL) above the total power of the noise (individual letters were allowed to vary in level as they do in natural speech). This resulted in an overall readability

which I judged to be between "poor" and "fair." The remaining two tapes were generated such that no letter utterance exceeded the total power of the noise, thereby yielding a "very poor" rating. A total of 24 persons listened to the "poor-fair" tape and an additional 14 persons listened to the "very poor" tape.

Equipment

For those who are interested, the white noise was produced by a random noise generator and combined in an audio mixer with the letters which were spoken into a Shure Commando microphone and passed through a power amplifier. The output of the mixer was then passed through a Krohn-Hite band-pass filter (cut-off frequencies -- 200Hz and 2800 Hz) and recorded on a Sony TC-353D tape recorder. The first three subjects listened to the tapes through Grason-Stadler headphones while seated in an Industrial Acoustics chamber. Subsequent subjects listened to copies of the tapes on a General Electric cassette deck in the free field.

Results

Table 1 lists the combined (male-female voices) error rates for the letters of the alphabet that were presented at the "poor-fair" readability level. That is, when the letter "V" was presented, 84% of the time it was perceived to be some other letter. Or, in other words, "V" was mis-IDed 84% of the time.

TABLE 1

V -----	.84	C -----	.23
P -----	.67	X -----	.11
D -----	.65	N -----	.11
B -----	.60	Y -----	.06
*Q -----	.47	M -----	.05
Z -----	.40	H -----	.05
F -----	.36	R -----	.03
E -----	.32	A -----	.02
T -----	.31	U -----	.02
S -----	.27	J -----	.01
*O -----	.27	I -----	.01
K -----	.25	L -----	.00
G -----	.24	W -----	.00

\* A disproportionate number of errors on this letter occurred with the female voice.

The overall error rate for the "poor-fair" list was 24% with the male voice having an error rate about 5% less than the female's.

Because the ranking of letter error rates is dependent upon both the speaker and the listener, a different sample of speakers and listeners could result in a modification of this list. However, it should be mentioned that an attempt (though feeble) was made to obtain a cross-section of listeners. That is, although a plurality of listeners lived in the Southeast, the scores of listeners from MA, VT, KS, IA, WA, PA, NY, and IN (students) were obtained and included in the list. Nonetheless, this list should be viewed as being approximate.

Table 2 is a listing of the confusions that occurred when the readability was at the "poor-fair" level. It is intended to be entered using the "sounded like" letter. For example, what sounded like an "A" was actually an "A," 57% of the time; a "K," 21% of the time; an "O," 18% of the time; and an "H," 4% of the time. Furthermore, any additional confusions that may have occurred under "very poor" readability conditions are contained within parentheses. Since it is possible to imagine "hearing" almost any sound in a dominant white noise field, those letters included within parentheses indicate those heard by at least two listeners, though at a frequency of less than 1%. Therefore, these should not be viewed as being the only possible mis-ID's.

Overall, these confusions listed in Table 2 are in general agreement with predictions derived from the phoneme literature. Significant deviations from prediction are noted.

TABLE 2

Sounded like	Was	P
	A	.57
	K	.21
	O	.18*
	H	.04
	(AJ, D, T)	

\* This value is somewhat inflated. On the "poor-fair" tape a disproportionate number of A-O confusions occurred with the female voice. On the "very poor" tape this confusion occurred more equally on the male and female tapes.

	K	.97		U	.71
	J	.02		E	.07
	A	.01		Z	.07
				Q	.05
	L	.99		V	.04
	O	.01		G	.02
	(H)			D	.02
				P	.01
				(B, M)	
B	B	.45	M	M	.85
	V	.28		N	.14
	D	.15		(S, C, B)	
	E	.04			
	C	.03		V	.25
	Z	.02		Z	.25
	G	.02		B	.19
	(U, T)			D	.19
				G	.09
				E	.03
				(U, C)	
C	C	.74	O	O	1.00
	B	.07		(N, K, Z)	
	T	.06			
	P	.05		W	1.00
	Q	.05		(Two listeners confused EE with W when readability was "very poor").	
	Z	.02			
	E	.02			
	(V, K, H)		P	P	.45
				T	.24
				Q	.08
				B	.07
				E	.05
				C	.05
				D	.04
D	D	.35			
	B	.19		Q	.86
	V	.19		P	.06
	E	.08		T	.04
	G	.07		E	.02
	Z	.06		KU	.01
	C	.04		(C, D, B, U, O, KO)	
	P	.02			
			R	R	.96
				I	.04
				(Y, F)	
E	E	.60			
	V	.12		S	.75
	B	.08		F	.19
	D	.05		X	.06
	T	.04			
	P	.03		T	.40
	G	.03		P	.37
	C	.02		Q	.16
	Z	.02		C	.04
	(U, Q, M, A)			G	.02
				D	.01
				(B, E, U, I)	
F	F	.83	T	T	.40
	S	.11		P	.37
	X	.06		Q	.16
				C	.04
				G	.02
				D	.01
				(B, E, U, I)	
G	G	.60			
	D	.15			
	V	.09			
	Z	.05			
	E	.05			
	B	.03			
	Q	.02			
	U	.01			
	(C, HE, P, T)				
H	H	.97			
	K	.02			
	A	.01			
I	I	.93			
	Y*	.04			
	R	.03			
	(L)				
J	J	.97			
	G	.02			
	K	.01			

/Some phoneme research suggests that "Z" should be most frequently confused with "G" but the above ranking was obtained on all four tapes.

\*This proportion increases when "Y" is preceded by "W," that is, "WY."



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Those errors that occurred with letter pairs typically were the same confusions that occurred when the letters were presented singly. However, a couple of selected letter pairs resulted in confusions that did not follow this rule. The following letter pairs were confused sufficiently often to be noted below.

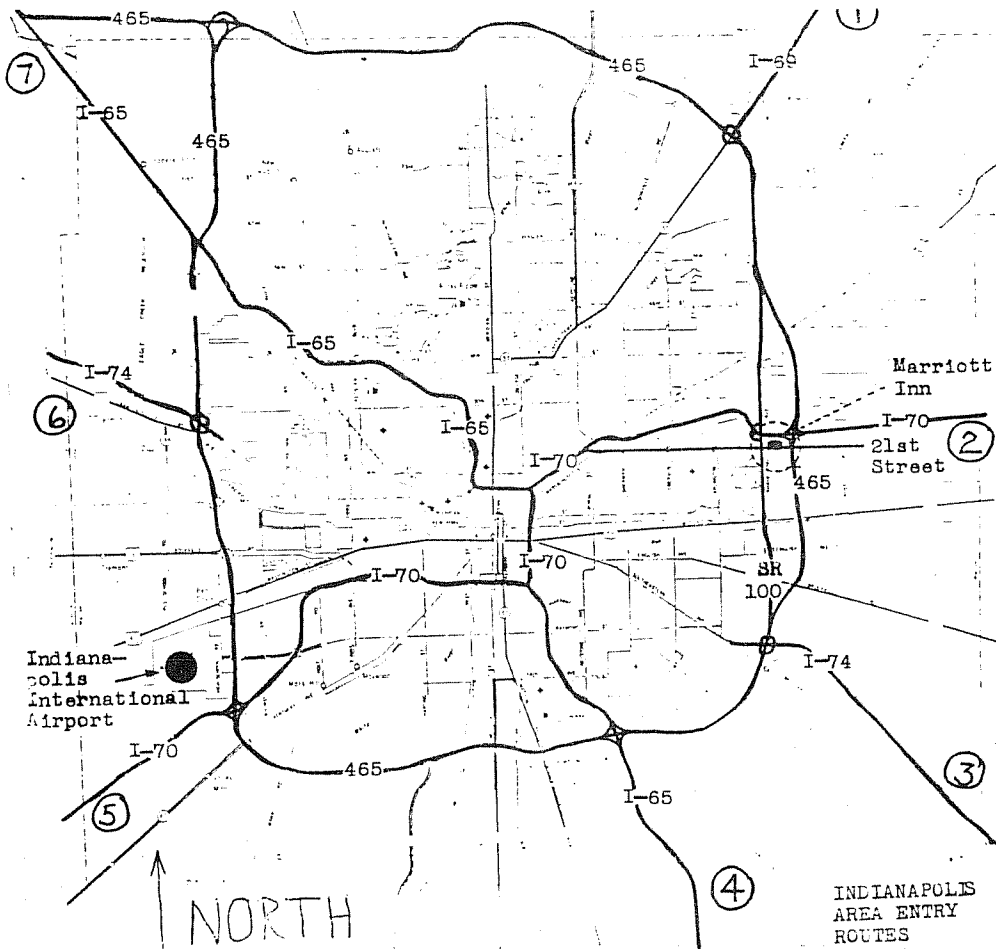
AJ -- HA  
HE -- AG

In conclusion, the degree to which the confusion information contained in this article is valid in a given situation will depend upon the similarity of the speakers, listeners, and type of interference to those in this study. However, it is hoped that these results are sufficiently general to be relatively widely useful.

Notes: The tapes used were generated after-hours at the Psychoacoustics Laboratory of the Institute for the Advanced Study of the Communication Processes, University of Florida.

Selected References:

- Miller, G. A. & Nicely, P. E. An analysis of perceptual confusions among some English consonants. *Journal of the Acoustical Society of America*, 1955, 27, 338-352.
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- Stevens, K. N. & House, A. S. *Speech Perception*. In J. V. Tobias, *Foundations of Modern Auditory Theory* (Vol. 2). New York: Academic Press, 1970.



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# ADVISOR

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\*\*\*\*\*

## PLEASE NOTE!

This is the first issue under the new San Francisco Publishing Group. My congratulations to the Seattle Group for a job well done! Best wishes to the new San Francisco Group! This first Advisor under the SFPC is being typed on a Sunday; however, I still plan on Wednesday deadlines. This issue was moved back a few days due to the SFPC's first deadline being a little earlier. And one final note before this issues ads, note that MM calling has been changed -- see heading, above, for details!

## SALE

Realistic DX150A, good cond. probably needs alignment, has added tape output jack and AC line filter. W/ owners manual and service manual. \$90 + shipping.  
Telex HTC-2 "twinset" lightweight headphones (see gilfer cat. page 10), good cond. \$10 + shipping.  
Radio Shack "Brass Pounder" high speed key, mint cond., all metal w/ bakelite knob. \$2 + shipping.  
ARRL Publications "How To Become a Radio Amateur" \$1 ppd. + "Learning The Radio Telegraph Code" \$0.50 ppd. + 1972 "Radio Amateurs Handbook" \$3 + shipping.  
Ham Handbook for Beginners by VE3SCE, good cond. \$3.50 ppd.  
NRC Publications "Getting Started In MW DX'ing" \$0.75 ppd.  
DX'ing According to NASWA by Ed Shaw, exc. cond. \$2.50 ppd.  
IRCA Rubber Stamp \$2.00 ppd.  
DXM Volume 13, complete. \$8 + shipping.  
DXM Volume 12, complete except #'s 1 & 2. \$7 + shipping.  
DX stationery package, approx. 50 sheets of IRCA RED & BLUE stationery, 8 IRC's & 25 unused Gilfer Log Sheets. \$2.50 ppd.  
Note: Items pd are via parcel post, first class is extra!  
DAVID R. BALL, 62 LEXFIELD AVENUE, DOWNSVIEW ON CANADA M3M 1M5

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## THE INTERNATIONAL RADIO CLUB OF AMERICA,

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## SPECIAL PRICE!

I have decided to give up sending for QSL's due to the high cost of postage and will collect only tape veries from now on. I have the following foreign postage stamps for sale at a bargain rate of \$6.99 plus a 13¢ SASE: 9 Mexican; 1 Guinea; 4 Australia; 2 Republica Dominica; 2 Japan; and 1 each from El Salvador; Colombia; Honduras; Panama; Guatemala; Venezuela; & Costa Rica. All stamps are for an air mail letter of the first weight class except one of the Australian stamps. Will sell as complete lot only; will not break up lot. Check or money order acceptable; Canadians please allow for current exchange rate. Outside USA & CANADA please send postal money order only and allow for exchange rate (if any).  
YE' EDITOR! See heading for address!

## Wanted

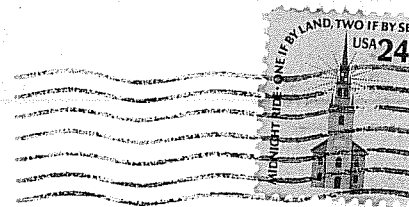
MORE ADS FOR THE ADVISOR! Ads have been rather scarce lately. I only ask that you be legible (you need not type so long as I can read your writing) and that ads be kept to a DX nature. Remember, deadlines are usually Wednesday 1 1/2 weeks before the publication date.

## SPECIAL

I have resigned as Secretary/Treasurer of the Radio Programme Collectors Association (RPCA). See my statement elsewhere in this issue of DXM for further details.  
YE' Editor: NOTE: I will continue to publish the Advisor for many years to come!



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