



DX Monitor

Devoted Exclusively to
Broadcast Band DXing

November 15, 1980

Volume 18, Number 8

Issue Number 561

In This Issue

Eastern DX Roundup	2	New Members	15
Central DX Roundup	7	Unreported Stations since Vol 11 ..	16
Western DX Roundup	4	More Great Circle Calculations ...	18
DX Worldwide - East	5	Radio Signals May Kill Cars	20
DX Worldwide - West	6	Link Between Sunspots & Mag Storms	20
Rash of Spots on Sun's Face	8	Motorola in lead in AM Stereo Race	20
Eastern DX Forum		1980 Convention Photo	21
Western DX Forum	9	CISL Letter	23
Mexican Station Changes	14	KABC: The Talk of the Town	22

DX Calendar

- Sun Nov 23 WAYC-1600, Bedford, PA, will test 0000-0030 EST w/mx and voice IDs. Will use 5000 watts 0000-0015, 285 watts 0015-0030. Send rpts to WAYC, P.O. Box 1, Bedford, PA 15522.
- Mon Nov 24 WCUB-980, Manitowoc, WI, will test 0130-0200 EST w/unknown modulation (tune in and find out, hi). Send reports to Hubert G. Willis, CE, WCUB, P.O. Box 98, Manitowoc, WI 54220.

Odds & Ends

In the flash tip department, John Clemmer reports that WLAC-1510 dropped its top-40/pop format without warning and went to news and talk. News is aired 0500-0900 and 1600-1800 CST, talk the rest of the time.

Sue Sirulnick has resigned as Verification Signers editor. If you're interested in taking over the column, contact Father Jack Pejza.

The IRCA Almanac has been delayed a bit, due to problems with a couple of sections of it. With any sort of luck, it should be out by the end of this month (just in time for the Christmas mail season...).

The National Radio Club is having a closeout sale on their 1978 Domestic Log (the most recent one available) at \$4.00 a copy (no limit). For those of you not familiar with it, the NRC Log lists U.S. and Canadian stations, plus their skeds, formats, power/antenna patterns, and addresses. To get a copy send your order to: NRC Publications Center, P.O. Box 401, Gales Ferry, Connecticut 06335.

For those of you who enjoy more esoteric material, the FCC has a report out on the effects of small frequency changes on AM Directional Antennas. The report is said to show that all but a small number of stations could change to the proposed 9 kHz plan with only minor tweaking of their antenna array (isn't that just what you've been waiting to hear?). To get your very own personal copy of this report (guaranteed to cure insomnia) send \$7.00 and ask for accession number PB 80-199433 from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

Don't forget to order those great new additions to the Goody Factory repertoire (did I spell that right?): A DXer's Technical Guide (\$4.50), The IRCA Almanac (\$5.50), and the Beacon Guide (\$6.00).

I think I've had enough trips to the land of the Armadillos for a while. I may even be able to do several DXMs in a row, before I'm again spirited out of town. Thanks to Jef and Dave for filling in for me in recent issues. 73 and juicy DX. bp.

Eastern DX Roundup

Bob Lazar
3837 Milan Drive, Apt. 1
Alexandria, VA 22305
703-549-6217 until 10 p.m.

Deadlines: Tuesdays 11/18, 11/25, 12/2, 12/9, 12/16

- 540 CBT NF Grand Falls, 9/26 0500 EE nx here & a CBT relog assumed. 740, 750 & 640 may have also been NF CBC's -- not sure, & only 750 would be new here. CBT very good. (SC-ON)
- 560 WQAM FL Miami, fair in AU cx w/ Miami ment & C&W mx 0044 10/8. Good 10/14 at 2014 w/ ID & C&W mx in WFIL fade. (KAZ-NY)
- 620 WSUN FL St. Petersburg, fair w/ legal ID 0200 10/8. (KAZ-NY)
- WTMJ WI Milwaukee, good w/ local ment 1937 10/10. (KAZ-NY)
- 640 WHLO OH Akron, noted at 0000 10/3 w/ ID. What are they doing on this late? (KAZ-NY) (They're now fulltime!--ed)
- 740 KCBS CA San Francisco, 9/26 0415 poor-good u/ the best KRMG I've ever heard except for tests. All news, like WCBS. (SC-ON)
- CBX AB Edmonton, 9/30 0200-0310 w/ usual CBC stuff, ID's & AB area wx in appropriate slots. Not only new but incredibly loud & clear. # 850. (SC-ON)
- 910 CHRL PQ Soberval, 1909 10/17 noted on top in WHJJ slop w/ FF talk & Canada ment. (KAZ-RI)
- 930 KSDN SD Aberdeen, 10/12 0211 ID in mess o/ WPAT w/ WBEN on rare SP. (SC-ON)
- 940 WCPC MS Houston, 1930 10/10 xlnt o/ CBM null w/ ad for Humphrey's Furniture in Houston then power change at 1932. (KAZ-NY)
- WFNC NC Fayetteville, 10/27 1732 good w/ Fayetteville ads, "Your country station" slogan, WFNC ID. (MC-MA)
- CJGX SA Yorkton, 0430 w/ Yorkton wx & ad (local). Another station in there had ads for " ? in Kenora" & calls sounded like CJRL (1220 in Kenora, Ont.). Have they switched or is my TRF misleading me? CJGX & other one in good-very good. (SC-ON) (I know nothing of CJRL or any other ON stn on 940--ed)
- 960 WERC AL Birmingham, 10/20 0322 "96-ERC" ID, top 40 mx. (GM-MD)
- CKWS ON Kingston, 9/15 0249 ID, pop mx, promo. (GM-MD)
- 970 WWSW PA Pittsburgh, 9/15 0248 very talky MOR, wx, spots, "double-double" ID. (GM-MD)
- CBZ NB Fredericton, 10/22 2310 s/off w/ list of several stns on the Maritime section of CBC network, then "Oh Canada". Dominant o/ WCSH. (MC-MA)
- 980 WCAP MA Lowell, 10/22 all evening; heard for first night on all-night schedule. Live oldies remote broadcast from Billerica Mall. (MC-MA)
- WTRY NY Troy, 9/15 0240 o/u CKGM w/ top 40, ID's. Local WRC off. (GM-MD)
- *unid*??*10/30 0008 fair to good u/ WRC. Unid TT. (WPT-DC)
- 990 unid NC (WBTE & WEEB listed in NRC log) ad for something in Aberdeen, Olivia Newton John record, then state of NC PSA. 10/27 1735. (MC-MA)
- 1000 WIOO PA Carlisle, 1824 10/17 poor-fair w/ ID & wx. (KAZ-RI)
- 1080 WKJJ KY Louisville, 9/26 0500 w/ WTIC off. ID's w/ call letters, "the new country" and "country 11". News too w/ ment. of Univ. of Kent & lots of country mx. Watch out for KWJJ in Oregon, also country. Could confuse easily and I was for a while. WTIC off. (SC-ON) (WKJJ will soon become WCII so there won't be any confusion, but I'm sure most EC's would love to hear KWJJ-ed)
- 1110 WJML MI Petosky, 10/10 1848 xlnt w/ ID & local ads. (KAZ-NY)
- WNAR PA Norristown, 1820 10/17 poor-fair w/ ID. (KAZ-RI)
- 1120*WUST*DC*Washington, 10/27 0138 local apparently on ET w/ OC o/ KMXX. No ID. (GM-MD) 10/30 0008 local noted ETing w/ TT. (WPT-DC)
- 1170 WHLW NJ Lakewood, 1815 10/17 finally logged at s/off. Fair w/ WWVA. (KAZ-RI)
- KVOO OK Tulsa, 1933 10/10 fair before 1945 pattern change w/ C&W mx & ID u/ WWVA. In again w/ ID then pattern change 1945 10/14. Never logged at SSS before. (KAZ-NY)
- 1180 WLDS IL Jacksonville, 10/10 1910-1930 noted w/ adult contemporary mx format, way u/ WHAM. SID 1917. Next nite SSB noted at 1929 way, way u/ WHAM. I'm amazed to be able to hear a 1 kw stn at 850 miles u/ WHAM!! (KAZ-NY)
- 1190 CHTN PEI Charlottetown, 8/11 0324 C&W mx, spot, ID. (GM-MD)
- 1210 WILY IL Centralia, 1928 10/14 fair u/ WCAU w/ s/off. (KAZ-NY)
- WADE NC Wadesboro, 10/27 1745 totally dominant, killing aurora-enfeebled WCAU! Soul mx, good "WADE Wadesboro" ID at s/off. (MC-MA)

1220 WSOQ NY North Syracuse, 1818 10/17 fair w/ BFL mx & ID. (KAZ-RI)
1240*WCNC*NC*Elizabeth City, 11/3 0024 "This is radio stn WCNC Elizabeth City, NC" by male GE every 20 sec., 1 kHz TT. Fair. (WPT-DC)
WHUM PA Reading, 8/11 0317 Accuweather rpt, "12-40-humm" ID, C&W mx. (GM-MD)

1260 WEZE MA Boston, 10/10 1832 ID in a mess, w/ WNDR. (SC-ON)
1270*WHLD*NY*Niagara Falls, 10/17 0015 on TT w/ tone & ID. Called 'em collect as I'm trying to arrange a test with them & said "Saul, friend of Bill Nichols, calling about a clear test". They did not accept my call & my mission was accomplished. Free (no phone bill!) notification of reception quality. (SC-ON)

1300 WMTM GA Moultrie, 10/27 1800 atop the jumble w/ C&W mx, ID at s/off. A good solid-south sunset opening was in progress; northern stns were aurorally blanked until about 2000 EST. (MC-MA)

1330*WHBL*WI*Sheboygan, 9/8 0300 tone, ID "This is WHBL Sheboygan, WI conducting ? tests" & tone o/ rest. Good-very good. They QSL'ed this report. (SC-ON)

1340 WYCB DC Washington, 8/11 0030-0300+ local apparently forgot to turn off xmtr overnight. OC. (GM-MD)

1360 CKBC NB Bathurst, 10/1 0003 w/ s/off, no ID but FF heard later & this is only other Canadian (anthem hrd). Fair-poor. Direction definitely NB-ward. (SC-ON)

1370 WELV NY Ellenville, 10/10 1750 Ae net ID at 1730 approx, then ID at 1800. Fair-good o/ WSAY & lots of others. (SC-ON)
WSAY NY Rochester, 9/16 0200 pop mx, ID, into UPI nx. (GM-MD)

1380 WLCY FL St. Petersburg, 10/3 0045 ads for places in Ft. Lauderdale & Gainesville. New but dominating 1380. (SC-ON)

1390 WCSC SC Charleston, 10/27 1755 loud w/ Kenny Rogers song. WCSC ID. (MC-MA)

1400 WOND NJ Pleasantville, 8/11 end of Dr. Rock & Roll show & ID. 0257. (GM-MD)

1410 KAHL NE North Platte (tentative) 9/8 ID u/ WING. Since they're near WY & only 500 w, I can't believe my ears. ID hrd but nothing else to back it up. Fair-good. (SC-ON) (time?--ed)

1420 WIMS IN Michigan City, 10/28 1800 ID then local nx by OM, wx rpt for Lake Mich. area at 1806. Xlnt. # 18 on channel. (WPT-DC)
WEMB TN Erwin, 10/11 1800 good at s/off, address & phone # given, no anthem. (MC-MA)

1450*WFTR*VA*Front Royal, 10/17 0115 w/ ID in TT "This is WFTR Front Royal on the air for ET. This is WFTR." Tone before it. (SC-ON)
1470*WBIG*NC*Greensboro, 8/11 0252 ID on ET atop jumble. (GM-MD)
unid??*10/30 0019 fair u/ CHOW & WBIG. Unid TT. (WPT-DC)

1490 WUSS NJ Atlantic City, 10/6 0118 ID & chat re QTH. Fair-good. (SC-ON)
1500 WKER NJ Pompton-Lakes, 10/20 1800 w/ female ancr in s/off w/ return at 7 a.m. Very good o/ WFIF which was clear till their s/off, later. (SC-ON)

1530 WDEY MI Lapeer, 10/17 heard w/ new calls, ex-WTHM. Mx countryish-MOR. Very clear at 1830 on SSS of WCKY as is often the case. (SC-ON)
WRBX NC Chaple Hill, 1830 10/17 very good w/ ID & C&W. (KAZ-RI)

1550 WRHC FL Coral Gables, 10/28 1755 steamrolling CBE; SS talk, Miami ads. (MC-MA)
WTTC PA Towanda, 9/26 2014 o/ CBE w/ Towanda Football, ads & ID's. Very good. On a bit late, though. (SC-ON)

WBSC SC Bennettsville, 10/27 1930 soul/disco records, birthday dedications, ad for Toyota dealer in Florence, "Rockin' radio" slogan, then full WBSC ID atop low-pitched LA het. (MC-MA)
WKBA VA Vinton, 10/28 1745 atop w/ religious pgm, s/off. (MC-MA)
WXVA WV Charles Town, 10/28 1730 s/off w/ full ID, abbreviated SSB.(MC)
unid ?? 10/28 1735 call sounded like WDND. Wx, ad for Gulf Shopping Centre. (MC-MA)

1580 WSRF FL Fort Lauderdale, 10/28 1751 WSRF ID briefly atop CBJ. (MC-MA)
unid ?? 9/27 w/ ID as "16-AM". In MD area of USA as had "ad" for a "U.S. Dept. of ?" there & clear & looped in that direction. Mysteriously enough, clear at 0400 & non-existent at 0500. The ad ... CIA/FBI run stn like R. Americas? I've heard before (last year, winter), & always has rock & roll format & laughter in background between songs making it pirate-like ... ad, etc... very professional however. Any ideas? (SC-ON) (A tester?--ed)

1620 PRN Pirate Radio New England, somewhere in the mountains and on 1620, so they said. Their 1st broadcast of the 1981 season. First caller was put on air & was Bob from Springfield, MA, an NRCer. I couldn't get it well enough to enjoy it & it faded a lot. 10/6 0013. Relog. (SC-ON)

Contributors listed at end of WDXR --- bp

WESTERN DX ROUNDUP

Nancy Hardy
2301 Pacific Avenue
Aberdeen, WA 98520

All times are
Eastern Local

Phone for hot WDXR tips: (206)532-6827 till 10:30pm(PLT)--no collect calls
DEADLINES: Wednesdays 11/19, 11/26, Thursdays 12/4, 12/11, Wednesday 12/17
REPORTERS FOR THIS ISSUE:

- (JH) John Hart-P.O. Box 644-Carlin, NV 89822
Panasonic RF-594, Shotgun loop, 1400' Beverage
- (RW) Robert Wien-1309 Dentwood Drive-San Jose, CA 95118
GE long-range portable, SM-2
- *****
- 930 KROE WY, Sheridan 10/26 1930 s/off w/ment. of 5000 watts power, hrd
o/KIUP, KSEI & others. (JH-NV)
- KIUP CO, Durango 10/26 1905 SS ID "K-I-U-P en Durango, Colorado"
followed by mariachi mx. Good sig., some QRM. (JH-NV)
- *KIUP* 10/27 0105 steady tone for about 3 min., EE ID "KIUP Durango,
Colorado on the air for engineering tests." U/KSEI. (JH-NV)
- 960 KDOT UT, Provo ex-KAYK 10/30 0437 usually good sig. in KABL null,
o/u KARZ; noted w/Halloween ghost stories, ID. (RW-CA)
- 1010 CBR AB, Calgary 10/27 0148 loud & clear w/"You're listening to
Radio Active," w/FF mx, EE talk, disco version of song
"Dominique" by group Les Odeurs ("The Smells"). (JH-NV)
- 1310 KEIN MT, Great Falls 10/27 0848 excell. sig., ID "13-K, your
total information station," TC. New. (JH-NV)
- 1400 *KRLN* CO, Canon City (pronounced Canyon) 10/30 0327-0335 steady TT,
then off after about 10 sec., varying freq., ID at 0330, TT
again 0335. Don't know if TT KRLN or someone else?? ID'd as
"KRLN Canon City." (JH-NV)
- 1480 KRED CA, Eureka 10/29 2200 in strong w/C&W mx, UPI World Nx, ID
"From the shores of Humboldt Bay, this is KRED in Eureka."(JH)
- 1500 (KXRX) CA, San Jose 11/3 0309 noted w/UG. (RW-CA)
- KSTP MN, St. Paul-Minneapolis 10/29 2206 hrd first mixing w/KGA-1510,
then loud & clear w/ID "KSTP, the Minnesota North Star Network,
and North Stars vs St. Louis Blues NHL game. (JH-NV)
- 1590 KEND TX, Lubbock 10/30 0300 popped up w/good sig. in KLLV fade-out.
Hrd several IDs before went out. New. (JH-NV)

Oct. f/c heard:

1st MM KQIK-1230 OR 0300-0310 (RW-CA)

UNID's:

- 1310 Mendocino? 10/27 1055 hrd ID sounded like KTMO, w/ment. of "brought
to you by Mendocino/Ft. Bragg..." Could possibly be on 1300. Have no
listing of any N. Calif. stn or change??? Any ideas? (JH-NV)
- 1360 10/28 1743 hrd tick-tock (seconds) time sig. & steady tone (very weak)
"It is now 22 hours ... mins. Coordinated Universal Time" followed
by Big Ben-like chimes. If WWV(H), what's it doing here? At 1800,
KRKK ID. Also hrd 10/16 1445-1455 w/good sig. "At the tone..." then
out to KRKK. Is this a spur or whatever? (JH-NV)
- 1420 10/28 2206 weak-to-fair sig. w/spot for grain elevator construction,
YL talk, political debate, KS wx, sports for various KS teams, spot
for Johnson State Bank. Maybe KULY? (JH-NV)
- 1420 10/28 2300 following the above, hrd (s/off) SSB u/debate. Anyone know
who signs off at this time??? (JH-NV)

Where is everyone--watching penguins on TV??? ♡

.....
Eastern DX Roundup (continued)

THANKS THIS WEEK TO THESE REPORTERS

- SC - Saul Chernos, 79 Ridge Dr., Toronto, ON M4T 1B6
MC - Mark Connelly, 30 William Rd., Billerica, MA
(Pinto car radio w/ whip antenna)
- KAZ - Neil Kazaross, Union College, Box 1024, Schenectady, NY 12308
& 30 King Philip Rd., Pawtucket, RI 02861 (modified TRF, SM-2)
- GM - Greg Monti, 1110 Fidler Lane #1424, Silver Spring, MD 20910
(Realistic TRF)
- WPT - Bill Townshend, 4500 Connecticut Ave. NW, #901, Washington, DC 20008
(Realistic TRF)

DX**Worldwide**Neil Kazaross
Eastern EditorAll times UTC
Deadline Tuesdays

UNION COLLEGE BOX 1024 SCHENECTADY NY 12308 - 518-370-6835, 1200-0030 ELT

There are no Trans-Atlantic or Trans-Pacific reports this week.

FAN-AMERICAN DX ROUNDUP

- 575 COSTA RICA San Jose TIRN 0000 10/15(probably), R.Nacional heard w/SS mx w/good sig.LA's very good lately.(Chernos-ON)
- 725 SURINAM Paramaribo 0000 10/6, very good for a relog of this DD station. Seemed to have EE at 0359 10/9. However the drone is such that I can't tell the difference. (Chernos-ON) They do have some EE although I'm not sure at what times.-ed.
- 725 COSTA RICA San Jose TILX 0515 10/26, v.gd.w/local mx, ads & R. Columbia ID.(Moore-PA)
- 810 MEXICO Tampico XEPW 0430 10/6, not there long, but an ID caught while roving the band, "Voz..... de Tampico. My list says "Voz E Imagen de Tampico." fr-pr. (Chernos-ON)
- 810 BAHAMAS Freeport ZNS-3 0503 10/6, not new but the best I've ever them, featuring gospel all ME. Alone except for a brief XEPW appearance. (Chernos-ON)
- 820 VENEZUELA Upata YVSH all AM 10/6, a perfect relog of "R.Guyama" SSers now in on most of band- incredible!(Chernos-ON)
- 825 ST.KITTS Basseterre 0315 10/11, good w/frequent R.Paradise ID's s/off @ 0400 ment. s/on @ 0900. Almost as strong as TWR 800 all week! Report sent. (Chernos-ON) They moved here from 1265 on about 9/26-ed.
- 860 URID (prob. Aruba Neth.Antilles) 0630 10/20, Short SS announcement re. "Ocho Cinquenta" Aruba ment. Newscast,news about Carter,Reagan, & the Ayatollah, then EE & SS rock, SS announcements. Why "Cinquenta?" (Chernos-ON) This is a higher power version of PJC-2 apparently here from 850. They still use the "Ocho Cinquenta"(850) ID-ed.
- 860 URID all AM 10/6, EE T40 mx, maybe some SS, deep fades, though almost always audible. Very quick ID jingles on top of the hour & aside from one EE intro to song no others,(fell asleep before 0700 hour, is this apirate? Who? (Chernos-ON) The format of this makes me think of the above PJC-2 as they have this type of mx & often play several songs w/out any ann's.-ed.
- 860 CUBA Ciego de Avila CMJY 0600 10/20, R.Reloj time station//940. Very weak u/"Ocho Cinquenta". (Chernos-ON)
- 880 GUATEMALA Guatemala TGJ 0500 10/26, R.Nuevo Mundo fair mixing w/ several stations. Nice complete ID @ 0503.(Moore-PA)
- 880 HONDURAS Tegucigalpa HRU 0450 10/26, fair w/ plug for "la gran cadena deportiva profesional" w/clear R.Honduras ID.(Moore-PA)
- 890 COLOMBIA Bogota HJCE 0525 10/6, In well & alone w/WLS off. Solid ID caught as "La voz de Bogota" (Chernos-ON)
- 930 DOMINICAN REPUBLIC Santiago HICK 0220 10/26, Ondas del Yague o/u WSCI w/local mx ID @ 0252. (Moore-PA)
- 930 t NICARAGUA Managua YNW 0247 10/26, briefly on top w/ads & a few ment's of "en Managua". (Moore-PA)
- 930 CUBA Santiago CMRN 0635 10/27, R.Reloj in w/ SS nx by GM, Metronome pips each second w/ one 1000hz beep each minute. (Townshend-DC)fr-gd.
- 940 CUBA Cienfuegos CMHF 0635 10/27, fair o/u XEQ w// SS nx to 930. (Townshend-DC)
- 960 COLOMBIA Magangue HJHN 0500 10/26, R.Sutatenza ID in mess u/WFIR. (Chernos-ON) Fair mixing w/WERC, many amnts, cumbias @ 0150 10/26. (Moore-PA)
- 980 MEXICO Cosumuloupua XEQC 0300 10/26, mixing, fair, mainly on top. Lite instr.mx, nice clear R. Romance ID @ 0328.(Moore-PA) Nice catch! I've never heard Mexico in like that! -ed.
- 1160 GUATEMALA Guatemala TGT 0537 10/26, tuned in just in time for nice YL choral "R.Sonora" SID. Fair. (Moore-PA)
- 1190 COLOMBIA Bogota HJCV 0528 10/27, according playing Colombian mx.. (I've heard enough to recognize such mx) Good sig. (Townshend-DC)
- 1210 CUBA Holguin CMKD 0508 10/27, military mx, distinctly Cuban u/WCAU. (Townshend-DC)
- 1260 MEXICO Mexico XEL 0530 10/27, briefly on top w/ads & R.Capital ID. (Moore-PA) Not too bad-ed.

(Contributors listed at end of DX Worldwide-West --- bp)

The TA reports still are coming in from 5 or 6 weeks ago. Some of the DXers were really on their toes as stations were heard all the way into October. So here goes:

TRANS-ATLANTIC DX ROUNDUP

- 648 UNITED KINGDOM, BBC World Service. Man and woman reading rx 0405-10/3. Weak and noisy, ID'd by 5975 SW //. (NHP-BC)
- 657 UNID-man singing pop mx, weak 0344-10/3-no talk noted. (NHP-BC)(Poss. E. Germany-as they are 250 KW-PM)
- 747 UNID-Two note "doorbell chimes" noted 0444-10/3, repeated every 2 seconds. Woman talking 0445 unreadable. Chimes noted again 0530. Holland? These chimes have been noted by Eckman and Portzer, no positive ID yet. (NHP-PC) (Kaz suggests Holland, as this is their s/on at 0445. FM)
- 756 UNID-clas. mx and band mx-0353, 10/1-doorbell and YL lang. talk.(RCN-BC) (See above)
WEST GERMANY,Braunschweig/Ravensburg-Best TA overall,w/Pop mx, plenty of GG talk 10/1 and 10/3. (NHP-BC)
*DLF noted up and down 0400-0500-10/1, full ID at 0500, after pips,OM ID and GG nx, also noted 10/3 at 0410 with GG talk (RCN-BC)
- 783 t EAST GERMANY,Burg-fair to good audio noted often w/Pop mx,people talking in GG etc. 0405-10/1-0350 10/3, 0400-10/3-6 pips w/6th elongated but talk unreadable. Taped report sent. (NHP-BC)
t EAST GERMANY, Burg-noted often 10/1 and 10/3 w/ big band mx and GG talk-0300 to 0500. (RCN-BC)
- 873 t WEST GERMANY, AFN-Frankfurt-alternating YL and OM nx in EE 10/1-0403 something here usually but buried. (RCN-BC)
- 1017 UNID'S-Choral singing noted weakly here 0352 on 10/1 with a big 1.6 Hz SAH, Turkey and Germany? (NHP-BC)
t TURKEY,Istanbul? 6 pips noted 0300 on 10/3-but woman talking was unreadable. Then fair sig. Middle Eastern style flute and drum mx at 0321. Splatter from local CFAX-1070. (NHP-BC)
*also noted 10/1-0316 w/ flute and strings,folk mx, later overtaken by German station load 10/3-0240 to 0310 w/same mx-pips 0300.(RCN-BC)
- 1485 UNID,TA carrier(s) here 0312-9/30-a low power freq! (NHP-PC)
- 1521 UNID,strong TA carrier-0315-10/3-hetting KXII-1520-Saudi Arabia or Czechoslovakia acceptable here. (NHP-BC)
- 1584 UNID, TA carrier(s) 0240 10/1 and 0317 10/3-another low power freq! (NHP-BC)

PAN AMERICAN DX ROUNDUP

- 655 EL SALVADOR, San Salvador-YSS, in the clear w/ R. Nacional ID at 0230 11/2 (FM-OR)
- 660 MEXICO,Mexico City-XERFM good w/ Pop mx (US) and mentions of Mexico in SS, on 11/2 (FM-Or)
- 663.5 COLOMBIA,Cali-HJFM-Badly distorted audio from R. Uno-660, fond here 10/26, hetting XERFM 0547-0605 and was still here late as 0900. Also noted the unmistakable Suceso ID (and taped), heard many HJ8s.Yet BFO could not produce a whistle on stray emission as it does on any reg. carrier,only a growl. (GM-Co)
- 670 UNID,SS talk 1443-10/27,then Maramba mx likely TGRF or HRN. (BP-Wa)
- 675 COSTA RICA,San Jose-TICN good trying to push 680,670 slop out of the way, but not very successful,hrd GM w/ R. Sonora ID-10/24-0325 (WJH-UT)
- 710 UNID, 0907010/13 R. Reloj ID by OM-then singing ID at 09090Not on my lists. (NHP-BC)
- 720 CUBA, Colan-CMGM-good o/KDWN w/ La Voz de Cuba-ID's, and light mx-10/24-0520 (WJH)
- 725 COSTA RICA,San Jose-TILX good 10/24-0643 w/mx and R. Colombia ID's. (WJH-UT)
- SURINAM,Paramaribo-SRDS-good mostly o/TILX-w/Hindi? mx-10/24-0845 (WJH-UT)
- 750 NICARAGUA, Managua-YNX good w/ ID's Radio Sandino, and Political talks in SS at 0425 on 10/31. (FM-Or)
- 825 t COSTA RICA, San Jose-TIOS poss. the one with YL ann into SS mx at 0306-11/2. (FM-Or)
ST. KITTS,R. Paradise-noted full ID at 0201-10/3-asking for reports also asking asking for reports after rel. programme at 0232-poor to fair signals-what could I do, I sent them a report. (NHP-BC)
- 834 BELIZE,Belize City-excellent 10/24-all evening w/Pop mx and talk. Much stronger than WCCO most of the time. (WJH-UT)
*Also hrd wll w/American rr mx, ID at 0300 w/ EE nx on 11/2. (FM-Or)
- 880.5 UNID,het on WCES and Cuban,noted 0632-10/9-been there for 5 or 6 weeks. (GM-Co)
- 890 HONDURAS, R. Honduras in WLS null,often as strong as XEW on 900,0220-0303 tune/out 10/10-First time noted here. (GM-Co)
- 1030 COLOMBIA,Cali-HJED-R. Pacifico ID by OM noted 0940-10/27. Overall sig. poor to fair w/another Latin under. Mainly male vocals and one EST TC on HJED. (NHP-BC)

- 1050 MEXICO, Monterrey-XEG-sounds to me if the SS version of XEG nightly up to 0530 uses a diff. Low powered tx than the EE XEG, which follows it. XEG in SS is often weak and is marred by heavy QRM from at least two Latins plus Canada. This is w/ XED nullled out. At changeover, you hear the SS XEG drop the carrier for 15-20 sec., then the EE XEG begins, the needle shooting way up and nothing interferes w/ it. Don't believe it is a case where the EE XEG goes directional for it's unnecessary for a tx to leave the air before going DA. Ideas? (GM-Co)
- 1100 COLOMBIA, R. Reloj ID noted 0823-10/13, fair in KFAX null, but was it Bogota or Barranquilla? No mention of town hrd. (NHP-BC)
- 1205 t CAYMAN ISLANDS, Georgetown-poss. the one w/YL -Br. accent nx at 0202-11/2. into Pop mx by 0210, on same loop beating as Cuba-1210-soon faded. (PM-Or.)
- 1385 UNID, carrier looping Caribbean here noted often during the TA opening. Weak audio noted 0330-10/2, guitar mx, soon faded. Haiti? (NHP-BC)
- 1500 MEXICO, Mexico City-XERH-mx ads, man yelling "R-H" ID at 0850-10/27, w OC from KLRX good to poor. (NHP-BC)

TRANS-PACIFIC DX ROUNDUP

- 558 FIJI, Suva-R. Fiji I with OM in Fijian at 0825-11/2-strong! (PM-Or)
- 576 USSR, Khabarovsk-Fair 1352-10/1-big band mx, and // 7320 SW (NHP-BC)
- 639 FIJI, Lautoka-R. Fiji I, // 558 at 0828-11/2 (PM-Or)
N.Z., Alexandra-LYW, poor u/o Fiji at 1005 w/ wx for North Is and South Is, during Tonight Show-11/2 (PM-Or)
- 648 USSR, Iman-fair w/CC talk 1414-10/20 and 1304-10/21 (BP-Wa)
- 650 ALASKA, Anchorage-KYAK good w/mx, KORL QRM at 0425-10/30 (PM-Or)
HAWAII, Honolulu-KORL suspected with prog. of Golden Oldies on 40-50 years ago 1230-1247 on 10/9, far but slop from KFI, no Mexican (GM-Co) (Yep, that's probably KORL-PM)
- 657 NORTH KOREA, Pyongyang-Fair w/usual KK talk 1305 10/21. (BP-Wa)
*Also the KCBS at 1029 1215, first time this season, YL talk in KK. Good. (WJH-Ut)
- 666 JAPAN, Osaka-JOBK-good to nil w/alternating JJ ann., talk and mx from 1129 to 1141 10/27, still there after KBOI OC at 1154. (BP-Wa)
USSR, Komsomolsk-loud w/male operatic mx at 1415-10/20. (BP-Wa)
NEW CALEDONIA, Radio Noumea-fair w/Jazz, OM in FF-poor audio as usual, 0850-11/2 (PM-Or)
- 693 JAPAN, Tokyo-JOAB good during lulls in XETRA slop, 1128-10/27, // 747 and 702. (BP-Wa)
- 700 ALASKA, Anchorage-KBYR-fair w/slop from XETRA, rr mx, brief ann., 0430-10/30 (PM-Or)
- 702 JAPAN, fair to poor w/JJ talk, // 747 on 10/27 at 1124 (BP-Wa)
- 711 FIJI, Suva-0740 10/13, fair sig. w/YL making a speech in EE, w/ mentions of Fiji another sig. underneath. (NHP-BC)
- 747 JAPAN, Sapporo-JOIB hetting WSB-1132 on 10/9., JJ male talk. (GM-Co)
- 750 ALASKA, Anchorage-KFQD-vy strong w/ oldies and vote spots-0445 on 10/30. (PM-Or)
- 756 CHINA, CPBS hrd. w/pips at 1300 on 10/31. ID in CC (PM-Or)
NEW ZEALAND, Auckland-LYA-good w/ Anne Murray mx-1256 10/22. (BP-Wa)
- 819 NORTH KOREA/SOUTH KOREA-both here with talk in KK at 1245 on 10/30. (PM-Or)
- 828 AUSTRALIA, Sale-3GI-good w/6 pips and mx 1200 10/27-then faded. (BP-Wa)
CHINA, Peking PBS hrd. at 1304, not // to 756, u/o JOBB on 10/30. (PM-Or)
- 837 CHINA, CPBS-hrd. // to 756 w/YL in CC, after 1300-10/30. (PM-Or)
JAPAN, Niigata-JOQK-vy good stronger than JOBB-828 w/ JJ talk-1012-10/27. (BP-Wa)
- 846 SOUTH KOREA, Seoul-HIKY faded w/a rel. programme w/mx, o/JJ-1035-10/24-WJH-Ut)
CHINA, Fukien-w/ID in CC on top of hour at 1200, into nx? on 11/2 (PM-Or)
KIRIBATI, Tawara-Hrd. well to 0930 on 11/2, then 2CY-DU QRM, with Is mx. (PM-Or)
- 855 AUSTRALIA, Maryborough/Eidsvoid-4QB/4QO-w/ Folk mx prog. at 0842-11/2 (PM-Or)
- 864 AUSTRALIA, Hobart-7HO-hrd. well again over 4GR, at 1030 on 11/2., w/rr mx (PM-Or)
- 873 AUSTRALIA, Sydney-2GB hrd. well with Pop mx at 1315-10/31, no talk show. (PM-Or)
CHINA, CPBS-hrd not // to 756 KHZ, but w/ID at 1400 on 10/31. (PM-Or)
- 882 AUSTRALIA, Brisbane-4BH-noted well w/MOR mx, o LYC at 0900, into nx, 11/3 (PM-Or)
MONGOLIA, Ulan Bator, My mystery station on 10/2-1400 seems to have been this one same chimes hrd on 4995 SW 10/26 at 1400, New country, Calcutta next, hi. (NHP-BC) (Glad someone finally got an ID on this one. Congratulations, Nick. PM)
- 936 CHINA, station not // to other frequencies with OM in CC, talks at 1206-11/2. FERC log reports a station at Anhui. Anyone else hrd a CC here? (PM-Or)
- 945 SOLOMON ISLANDS, Gizo-vy poor w KJR-950 and KPFE-940 slop, at 1106 on 11/2, caught -parts of local newscast w/ ship reports, first diffinate material for a report! This is quite rare here. (PM-Or)
- 1008 AUSTRALIA, Brisbane-4IP hrd. well with jingle at 1030 11/2, rr mx, over 1ZD and UNID rr under 1ZD. (PM-Or)
- 1017 NEW ZEALAND, Tauranga-1ZD-cutting thur KOMO TT-1033-10/27 w/Pop mx. (BP-Wa)
TONGA, Nuku Alofa-A3Z, Michael Jackson song-YL in lang. and Pacific type vocal-0915-10/27. (BP-Wa)
- 1026 AUSTRALIA, Mackay-4MK at 1300 w/ancr and s/off with Anthem at 1301-10/31 (PM-Or)
- 1035 CHINA, Several CC stations in CC mixing, sounded like a Graveyard freq. hi., at 1330-10/30 (PM-Or)

- 104h CHINA,Guizhou-good w/y1 in JJ-1238-10/21 (BP-Wa)
 1107 AUSTRALIA,Sydney-2UW at 1245 w/wx for Sydney-on 10/31 (PM-Or)
 1116 AUSTRALIA,Brisbane-4BC with jingle "4BC",into Pop mx at 1252-10/31. (PM-Or)
 1188 JAPAN,Kitami-JOKP good w/YL talk 1055 10/27-still there after KEX OC at 1056(BP-Wa)
 1197 AUSTRALIA/NEW ZEALAND-4GG/2ZW here with rr mx both, 2ZW with Tonight Show,noted at 1200 on 10/29. (PM-Or)
 1206 AUSTRALIA,Grafton-2GF-hrd. with Camera shop spot at 1338 on 10/31. (PM-Or)
 1224 t MARSHALL ISLANDS,Kwajalein,probably the one with US type ancr and MOR/Easy List. type mx,buried under CKDA slop (Grr),at 0815 on 11/2. Unneeded,but nice to hear.(PM)
 1278 NEW ZEALAND, Napier-2ZC,hrd. well w/Tonight Show, and // with 1008,1026,1035,etc. soon lost to unid rr station,Australia?, noted at 1100 on 11/2. (PM-Or)
 1296 AUSTRALIA,Brisbane-4BK-one of the more rare Brisbane stations,hrd over 1ZH w/ "4BK music" ID, into OMJ mx,at 1115 on 11/2. (PM-Or)
 NEW ZEALAND,Hamilton-1ZH hrd. with Tonight Show,// to other freq.,4BK QRM at 1117 on 11/2. (PM-Or)
 1314 AUSTRALIA,Wollongong-2WL,noted with commercial and back into mx, with ID by ancr, at 1146 on 10/29. (PM-Or)
 1314 t NEW ZEALAND,Gisborne??-2YW,poss. the one under/over 2WL near 1200 on 10/29,w/ Easy listening mx, The National Prog.???. (PM-Or)
 1323 FIJI,Rakiraki-R. Fiji I, // to 558 and 639,noted at 0832 on 11/2. (PM-Or)
 1386 t AUSTRALIA,Sydney-2EA may have been the fadey DU, in unid lang, at 0930-11/2. (PM-Or)
 1404 WESTERN SOMOA,Apia-2AP hrd. fair with programme in Somoan, fair w/man singing Island mx, w/drums. (PM-Or)
 1467 FIJI,Rakiraki-R. Fiji 2 w/OM in Hindi at 0730 on 11/2,poor. (PM-Or)
 1476 CHINA,location?? Noted 5 long pips o/USSR chimes 1300-10/3,then woman in CC talk STILL o/chimes,low het apparent between the two. (NHP-BC)(Nick:PERC's log lists: Beijing P.B.S.,Zhejiang P.B.S., and a C.P.B.S., on 1476 KHZ,I guess you can take your pick. PM)
 1476 NEW ZEALAND,Auckland-1XA-still on 1476 w/heavy rr and brief ann.,at 0900 on 11/1, have been planning to move to another freq. for better than a year. (PM-Or)
 1557 AUSTRALIA/NEW ZEALAND-2RE/2ZH-both here fighting it out,2RE w/MOR and 2ZH w/the Tonight Show, at 1035 on 11/1. (PM-Or)

Veries:

- 558 JAPAN,Kobe-JOCR-sent 2 QSL cards (different ones), with nice letter from Engineer Dept.,w/ Programme schedule,and returned my JJ mint stamps.Two months. (PM-Or)

Thanks to these reporters:

- WJH-Bill Harms-P.o. Box 7428-University Stantion-Provo,Ut. 84602 (DXing at Saltair Resort by the Great Salt Lake w/ a 1500 foot bev. ant.-FRG-7 rx.
 GM-Gene Martin-3303 E. Evans Ave.-Denver,Colo. 80210 -HQ 180-loop ant.
 RCN-R. Colin Newell-2360 Forbes St.-Victoria,B.C. V8R 4B6 - DX150B and 2 ft. loop ant.
 NHP-Nick Hall-Patch-1538 Amphion St.-Victoria,B.C. V8R 4Z6 - Transmot. HRO-3 ft. loop.
 BP-Bruce Portzer-6546 19 NE-Seattle, Wa. 98115 - HQ-180A, SB-620, 4 ft. loop ant.
 PM- Yer Editor- E.H. Scott, 4 foot loop, 230 ft. LW, ground system.

DX Worldwide - East (Continued)

CONTRIBUTORS

- Saul CHERNOS 79 Ridge Dr. Toronto, ON, Canada. rx??
 Don MOORE Box 157 RD # 5, Bellefonte PA 16823, mod. FRG 7000,15" ferrite bar loop.
 Bill TOWNSHEND # 901 Conn. Av. N.W., Washington DC, 20008, TRF

Thank for contributing to DXWW East. 73's & good DX to all - KAZ

Rash of Spots On Sun's Face

Boulder, Colo.

The sun is in one of its most active periods in the past 400 years, experiencing a surge of energy that has raised sunspot activity to a peak level, a government scientist said yesterday.

Gary Heckman of the National Oceanic and Atmospheric Administration said the sunspots, which normally follow an 11-year cycle of maximum and minimum activity, are now at a peak period unmatched since they were first recorded in 1608.

Sunspots are areas of darker and cooler gas on the sun's surface caused by extra strong magnetic fields.

Sunspots have no direct effect on the earth, Heckman said, but the energy they emit does interfere with shortwave radio transmissions.

He said that poses problems for ship and airplane communications and also could cause some minor problems with television reception.

He said such problems are likely to occur over the next year or so as a result of the current activity.

Associated Press



Western DX Forum

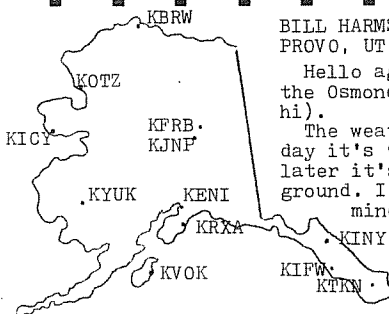
☆☆☆☆

IRCA—Serving the Broadcast Band DX'er Since 1964

Editor: Ric Heald • 814B Ohio Street • Vallejo, California 94590 USA

1980/1 Deadlines—Every **Wednesday** 10 Days Prior to Publication Date through 18 March 1981

(Note: **Tuesday** Deadlines Prior to U.S. Holidays and 3-Day Weekends)



BILL HARMS, UNIVERSITY STATION, P.O. BOX 7428, PROVO, UT 84602 - 26 October 1980

Hello again from the home of Robert Redford and the Osmonds (not that it's anything to brag about, hi).

The weather's been crazy here this month. One day it's 90°F, great summer weather, and two days later it's 25°F with two inches of snow on the ground. I guess Mother Nature can't make up her mind what season it is.

I've got a small complaint with someone, but I don't know with whom. The last DXM I've received was the 03 October issue and that was last week, 20 October, more than two weeks later than normal. I've sent a note to HQ about it.

Has anyone else been having problems with receiving their DXM on time? (We all have, Bill--back to normal now-Rth.)

DX has been slow here. At our apartment the noise level has been unbearable with the locals suffering from the interference. So last weekend I decided to go to the country to DX on a Beverage. I went to Saltair Resort near the Great Salt Lake (isn't that QTH close to KSL?-Rth.) and set up a Beverage. I couldn't believe the results. Even though conditions were mediocre and nothing new was heard, the things I did hear were much stronger than I'd ever heard before. TPs like S. Korea 837 and 891 were stronger than their adjacent domestic channels. CBXQ 540 was just as loud as the junk on 550. SRS 725 was excellent with many other examples too numerous to mention. In the daytime hours almost every channel was humming with at least one station. I think that the Salt Lake (which is about 10-12 times more salty than the ocean and the salty ground around the lake acted like a radio signal sponge. That might be a great place for a DX'pedition. (From what I've heard, Bill, salt is a great conductant, but not for receiving--middle of the desert would be better, so I've been told-Rth.)

I would like to go there more often, but the time and expense involved makes it a little problem. If anyone is interested in going out there on a DX'pedition, please let me know and we could make arrangements. Gotta go. 73 and c-u later de WJH.

RANDY TOMER, 1969 27th ST., ARCATA, CA 95521 - 26 October 1980

Howdy! From now on I should have lots more time to DX. After eight years of driving logging trucks, I got fed up and quit! They just expect too much out of a guy, wanting you to drive like a maniac for up to 16 hours a day. Had to get up at 0300 to go to work too. The pay was good, though. Now I have a nice easy job, hauling a load of wood chips from the sawmill in Hayfork to the Eureka paper mills. Start at 1400 and I'm back home at 2300, just in time to catch some of those TP fade-ins this time of year. Easiest job I've ever had, with a brand new, ultra deluxe, very powerful rig to drive (great stereo in it) and real nice folks that own it. (Because it is that part of California, what else do you haul? Hi-Rth.)

By the way, truckers never did call each other "good buddy." That's a bunch of hype from those C&W stations like Rth listens to, hi. Only people to call me that on the CB are tourists; they probably figure they'd better say something nice so I won't run 'em off the road, hi. (And they're right, hi-Rth.)

Comments on DXM # 556 forums: Gerry Thomas, don't be disenchanted with your stock SPR-4; with a fast-AVC modification and a rewire job allowing the 2.4 kHz SSB filter to be used on AM, the notch filter, and dial readout are all far superior to the 180's. Rth, what do you mean, the "pile of compost" being passed off as rock music, hi. (I let the decline in rock record sales and station ratings; increase in C&W sales & rating speak for themselves, hi-Rth.) At the age of 32 I'm no teeny-bopper, but when I hear current stuff

like the Stones' "Emotional Rescue" and Queen's "Another One Bites the Dust," the 'ole cat stereo gets cranked up to full volume! Rock masterpieces, yes sir. C&W on the other hand, with total lack of creativity instrumentally, must rely on lyrics dealing with cheating, broken hearts, divorce, indiscriminant sex, and drunken bar-room antics. (Yes indeed, nothing like real life, hi. And you should talk, half the stuff on progressive country is written about Humboldt County's main industry, hi-Rth.) Then there's all those stupid Dave Dudley songs glorifying all those idiot truck drivers! Sheesh. Must say though, I did kinda like "Big Joe and Phantom 309," "Gyddyp-Go," and Patsy Cline had to be the best female vocalist of all times, but those times are long gone. Rock music forever. (What most folks don't realize is that about 20% of the rock music chart is comprized of country artists: Eddie Rabbit, Dolly, Waylon, Willie, Ronstadt, Emmy-lou, Kenny Rogers, Anne Murray, etc., etc., etc.-Rth.) KFI, KFArCe, KATA (hi), the California coast is covered with it! Out o' space, so "73" and may a rat run across the coil of your favorite NSP'er, hi. RET.

ROBERT WIEN, 1309 DENTWOOD DR., SAN JOSE, CA 95118 - 27 October 1980

Rth, you must be kidding if WNOX is a pest. Tried for them for weeks, not a trace of anything, but XET, KTKT and KALO. Must be the topography or something. (Correct. I've not heard KALO. It even changes within the 49 square miles of San Francisco-Rth.)

So you've heard that weird 1240 "tone." I get it around sunset with KESE/KROY, then fades out after that, loop is towards San Francisco/Monterey; could be KYA. The tone on 1500 is back every night from about 2100 right on through to sunrise. Kills 1490 and 1510, but nothing else. KXRX off frequency? (Would be 24 hrs if KXRX is involved-Rth.)

I verified KTBA 1050 Tuba City, AZ, back in August after they had been on the air for only three days. Notice KAYK has changed calls to KDOT. Will try for the call change tonight; KAYK easy from here in KABL's null. Oakland stations have horrendous signals here; everything is audible barring KNEW and KABL to north/south.

XEGM has been unheard here in more than a month; 950 is nice and open once again. KEST 1450 does have a sloppy signal, but easily taken care of by nulling. Caught KDXU 1450 St. George, UT, in their (KEST) null at SSS today over KONE which is a real pest. They were up for a good two minutes. KOLI 1470 Coalinga was also in; quite rare here.

KGO was knocked off the air on 26 October from 0822-0942 PST, leaving 800, 810 and 820 wide open. 810 yielded nothing new, 800 yielded a new KHIS and a tentative KPDQ. By the way, XEMO 860 is now off nightly at midnight (PST I presume?-Rth.).

Rth, good that you'll be working at KNBA. I still need to verie them. What is their policy? (My policy--I'm the v/s--it must be DX and must contain at least one item that no other station could possibly have with precise time--our clock is set for Mutual news. DX? Must be outside the nine Bay Area counties plus lower Sacramento/upper San Joaquin Valleys-Rth.)

My list of clean signals in order as follows: KABL, KSFO, KRE (undoubtedly, hi), KKHI (but their signal is non-existent here, so doesn't count, hi), KNBR and KCBS. Down the list to the worst of all would be KLOK 1170. Sorry not to double-space. 37's. (Heh?-Rth.)

DOUG NYHOLM, 2071 CEDAR ST., SAN CARLOS, CA 94070 - 28 October 1980

Hellow all. (with a w, Ric). (I know, rhymes with mellow, hi-Rth.) I have not been spinning the dials as of late but from what's being reported to the Monitor I better start.

Looks like the new DX season is off to a very good start. I did manage to catch a goodie here in September in the way of WREC 600 Memphis. (Groan-Rth.) The v/q said they appreciated the report and sent along day and night CMS of WREC comparing it to three other Memphis stations. Those kind are always interesting. It had been a long time since I heard a SSB s/on at 0300 PLT.

On my trip to the Caribbean I had a pocket radio along just for the amusement and noted that R. Paradise on 1265 was on 825. They said for a period of nine days for tests and if it worked out would stay on 825. Also they were asking for reports. All you Northwest DX'ers get your reports out early, hi.

Recently received a nice v/l + v/q from Fiji who wanted to know all about Beverage antennas as they may be installing one. I've read that it was very difficult to extract a verie from Fiji but they seemed very interested in MW DX. Anyone having problems verifying them might try again. The v/s is J.D. Sharon as per the WRTH.

Good TP DX in the Bay Area seems to require a lot more than a loop. 2GF 1206 literally boomed in on a Beverage but doesn't even produce a het with a

loop. I don't really understand that.

My most wanted (or almost most wanted) station WGTO 540 was missed here as the DXM was quite late. I really hope that doesn't happen again. I guess I've used enough space for this week now. So, sooo long for now and TA's to all.

DON MOMAN, 6815 12th AVE., EDMONTON, ALBERTA T6K 3J6 - Rcvd. 30 Oct 1980

Hello from Alberta! I am a new member so I will take a few lines to introduce myself. I'm 27, married and work as an electrical engineer. I try to be active in all aspects of DX'ing and have just "rediscovered" MW DX. I enjoy camping and fishing and lately have been combining them with DX by taking my R-7 and lots of Beverage wire along on the camping trip.

Netted about 30 Australian/New Zealand stations on my first real effort, a four-day DX'pedition in the Rocky Mountains at 6500' altitude. This was near the end of August. Ten letters were sent out and so far have QSLs from 2GB, 2GF, 2GL and 2BL. Antennae was a 2500-foot Beverage at 225 degrees.

DX from my home in Edmonton is not so good, have lots of local 50 kw'ers that really tear up the MW. If it wasn't for the Radio West ferrite loop I would just about be out of luck for any CBB DX here. It does a good job in reducing those locals to a more manageable level. . .

Might have some logs one of these days soon, or at least a bandsweep of the locals here. Till next time. . . (Welcome to IRCA Don, and to the scandal sheet section of DXM, hi. Please report as often as you can. Always glad to hear from another Albertan-RtH.)

NICK HALL-PATCH, 1538 AMPHION ST., VICTORIA, BC V8R 4Z6 - Rcvd. 31 Oct 1980

Had a mystery TP on 882 in early October with distinctive chimes and unID language. A Turkish SW DX'er at the Portzer GTG (they come from a long way to Portzer's GTGs, hi) (Must have been that offer for a barbecued penguin, hi-RtH) was pretty certain it was Mongolia, and he was right. Finally heard the same chimes on 4995 SW where only Mongolia is listed. So a nice surprise. Has Mongolia been heard in North America before?

I'm going to be resigning as Almanac slogans editor effective March 1981, as the gardening season just doesn't leave enough time for slogans and the technical column. If you'd like to take the job, write to Bill Hardy. I can continue to glean slogans from DX News, if the new editor isn't an NRC member also.

Still on editorships, A DX'er's Technical Guide has made its appearance, so feed my editorial ego by buying a copy, eh? Those who got advance copies will find that the Sanserino loop plans and the TRF circuit board diagram are poorly printed in spots. If you want the information in clearer form, write me and I'll send it to you. Orders from now on will get a correction sheet with the book.

Finally, I saw a copy of the CIDX Messenger in which three Edmonton guys set up a Beverage in the hinterlands of Alberta last summer and listened to Australia on CBB and Turkey on LW. Some nice loggings for so far inland. One of the expeditioners just joined IRCA, so maybe he'll relate some more. What say, Don? (What say Nick? Look above-RtH.) If anybody can put up a Beverage, do so. You'll be surprised at what you hear.

TED FLEISCHAKER (a.k.a. W.J. FLYWHEEL), P.O. BOX 26254, SAN FRANCISCO, CA 94126 - Rcvd. 31 October 1980

Have been meaning to write a forum for weeks, but a fundraiser at WUOL and this and that otherwise have had me busy--besides, it's more fun to wait anyway and see what people say about you. For which I have just one comment--thanks to all for the nice comments about the convention and remember Louisville in 1982 (see WGES, I told you I was nuts, but only every two years or so!) (Nuts or convention, Ted? If it's the latter, I agree. The former, seeing is beleiving, hi-RtH.) For now, remember CALGARY in 1981, as I have already reserved and any convention put on by the likes of the Alberta crew will be great so plan NOW!

In other things, reports that WAMB 1170 Tennessee have gone to 25 kw are apparently not true as they still don't get out too well with their great big band sounds. 1290 in New Albany, IN, is still dark almost a year after the all-news WDGS folded on two hours notice last fall due to running out of money. Also here, WCII has been approved and is in use at WKJJ 1080 (ex-WKLO). They are country and the call stands for Country 11.

Been talking to a lot of the old friends I re-met at the convention and also the new people have wanted to meet for years, and it's a pleasure to have people to talk to who know all about the Hyatt's poor fire alarm system, the WCND tour (complete with you-know-who arriving by taxi) and such. Will round this up as somebody else deserves the space more than I do, or a Greg Monti says, "Attention Stations."

MARK LEWIS, 333 N. RENGSTORFF #11, MOUNTAIN VIEW, CA 94043 - 27 Oct 1980

Well now that DXM is back on track, I can see my name in print again, hi. DX of late has improved now that we're back to good 'ole standard time. And yes, I logged yet another non-Robert Wien station (I think). WHB 710 was in last evening, quite strong, with oldie music and a nice taped ID. This will be the last time I pick on RW; he logged S. Korea and I can't top that--not yet anyway, hi.

Other top loggings include KXA, KFAB, WBAM and yes, the WGTO test was indeed heard here on the WC, and a v/q in only six days. Verifications include WNOX, WBAM, KFAB and CBL.

For anyone keeping track, and even if you're not, my totals to date are: 124 logged, 74 verified, 33 states, 27 verified and five for five provinces. I don't log California stations; I can't afford it, hi.

To answer your question Rth, I got a v/l from KYAC GM Wayne D. Parks. It was all of one-and-a-half lines long, but he said the magic words, "This is to verify. . ."

If anyone has received a KORL verie since their format change, please let me know. I've sent several tapes and letters with both formats, but have received nothing. (I know KORL has few spots, especially at night, but try to record as many actual spots as possible--forget format--and send to Alan Roycroft, /o KORL, and see what happens. I don't guarantee a verie, but worth a try. They veried me right away, but then that was 20 years ago and I think personnel has changed a few times, hi-Rth.)

Heard WSM and KORL fighting it out last night, very sharp, even fades. In fact, the hourly ID sounded like this, "The music of your WSM Nasholulu, this is K 65." I'm not kidding.

Well, that's enough for me, I have to get back to homework. I rank homework right up there with trying to DX in a light dimmer factory, hi. (The factory is probably quiet--they're not testing them, hi-Rth.) 73 de MTL.

RICHARD ECKMAN, 2900 E. AURORA AVE., #359, BOULDER, CO 80303 - 30 Oct 1980

I finally managed to get in some DX time in late September and had the very good fortune of stumbling on a very good high latitude opening netting me my first few TPs including S. Korea 1566 with a very fine signal.

Gene Martin alerted me to some very fine TA conditions on 29 September but unfortunately the severe TVI at my location prevented any good reception with the possible exception of Dresden (?) 1044 and a strong het on 1521. Real DX is possible here only in the early morning hours after the TVs are off in this apartment complex.

Graduate school work has been overwhelming lately. That, combined with being a teaching assistant in some introductory Astronomy courses has kept me away from the dials last month.

I had an interesting discussion with Dr. Ken Davies (known for his book on ionospheric radio propagation) recently and hopefully I'll be doing a project for him next semester--possibly related to National Oceanic and Atmospheric Administration (NOAA) new digital ionosound now in operation near Boulder.

With midterms now finished I should have more free time and I'm looking forward to trying for some TPs during the next few weekends. Hopefully more DX next time. 73. (Welcome to the wonderful West, Rich. Please report as often as you can--always enjoy reports from the Rockies-Rth.)

WALT BREVILLE, 9127 CORAL DR., ST. LOUIS, MO 63123 - Rcvd. 03 November 1980

After a fine summer of convention-going and a few good FM/TV ctaches, plus at least seven or eight July afternoons of 104-to-107°F in St. Louis, it is a pleasure to enjoy the fall weather and the good old-fashioned AM band again.

Louavull was a real fine confab; thanks again, Ted. My only complaint was not being able to get much disco music on the radio, or find a nearby disco, but this complaint brought some fine, deep, soul-satisfying BZZZZTs from my two longtime Ohio friends that rivalled some of the better disco sounds. The real highlight was meeting more than the usual number of DX'ers I haven't met before, including Ron Thompson, Phil Boersma, Erland Carlson, Greg Monti and Fred Schubert.

The NRC shindig in Los Angeles was super-neat with disco very much alive and well including the Hacienda's lounge where a bunch of us gathered. (A gathering in the lounge? How many ERBA loops were constructed. Was R. Nibi Nibi heard? Hi-Rth.) My only disappointment was not seeing many Western IRCAnS at this convention. I think they missed a good time. But I did enjoy meeting, Mort Meehan and Mike Bittner for the first time, plus several others whose names I've now lost. It was a special treat meeting Father Jack and Bob Jacoby, both of whom I've not seen in 11 or 12 years since the

Hollywood IRCA convention of 1968 (or Chicago '69).

I have a new radio; a G.E. Super-Radio. Purchased it just in time for the trip to L.A. In comparing it with my four-year-old TRF portable, there's no comparison. Besides sounding ten times better, the Super-Radio is superior in selectivity all around and also more sensitive, especially at the lower end of the band. The only drawback is the Super-Radio's bulk and weight if you are used to a TRF, but after making room for it, I was very glad I lugged it along. (It also has far superior tonal quality to a TRF, no?-RtH.)

Was in Las Vegas for a couple of night while in transit to Los Angeles, and enjoyed using the Super-Radio there. Vegas is a fine town for DX'ing; only six or seven locals, all far enough away from The Strip to cause no overloading of the receiver. Surprisingly, few SS stations were heard considering the southerly location, with much more than normal 1000-to-1500-mile (1600-2300 km) domestic reception. At least it was this way on 25-26 August. Stayed at the Landmark, which has a nice, huge, empty parking lot for QRN-free portable radio DX'ing. (Yes, but how did you do in the gaming rooms, hi-RtH.) 73 de Walt.

RIC HEALD, 814B OHIO ST., VALLEJO, CA 94590 Tele-Forum: (707) Midway 4-0700 to 2200 PLT and prepaid - 05 November 1980

Greetings from the North Bay! I certainly hope that regardless of your political convictions, that all of you exercised your voting rights yesterday.

First off, to paraphrase a commercial, "You asked for it, you got it, lots of forums." Thanks one and all--and yes, I could use more.

To all readers, I'm not trying to stir up format debate, I was just having fun with Randy. Actually, I enjoy just about all music with a couple of exceptions, and because everybody's taste is different it's reflected in the wide selection of format stations select. In fact, my car radio remains on 1190 most of the time. Daytime for the MRK sounds of KNBA, then KEX after our s/off.

Locally, KVON 1440 Napa has picked up Larry King commencing at 2200 PLT. They are at least AN-6 now. Their signal, just 19 km away, it actually quite weak and nullable here in Vallejo--nighttime that is--daytime they pack quite a punch.

Had some unusual conditions last afternoon. Stopped by my apartment last afternoon around 1615 PST, turned the Hammarulund on and noted that all the San Jose stations were getting clobbered. This lasted for about 15 minutes, then conditions settled down. Dominants included KBBQ 1590, KWRM 1370, KCBQ 1170, KROQ 1500 and KARM/KJAY 1430.

Thanks to a tip from Vallejoan Gene Allen, have noted a KCBS spur on 770 (daytime only) and KYA on 1120 (also daytime only), the latter caused by KNBA.

After making comments regarding verification policy of KNBA, I've decided to make a slight alteration. Within the Bay Area, I will verify KNBA, but I will require a minimum of 30 minutes of programming. Please do not clutter your report with song titles, weather, etc. I realize we're next door to 50 kw KLOK 1170, but even in San Jose we can be heard. Please use the standardized IRCA and/or NRC form for reporting.

I too have had delays with receiving Monitors, but please remember, Seattle has also had problems. This is a volunteer organization and they are doing the best that they can. I personally know of no other responsible group that can put out the Monitor and sometimes the Seattle gang gets involved with far more important things like their jobs and can get behind. I really believe Seattle is doing a great job.

That brings me around to another point. I've mentioned this before, but will do a rerun. Webster's definition of hobby is--something done for pleasure in one's spare time. That's what DX'ing is--a hobby. If you are still in school, please don't do what I did. I was living in Alaska and was awed by DX conditions. Awed to the point where I managed to flunk out of college. Please don't let that happen to you. DX'ing is indeed a hobby, to be enjoyed in one's spare time and not to be an occupation--though some members past have tried to make it such.

Enough preaching. Thanks all for making this issue of WDXF really great. Please keep it up and I will see you in 7. Good DX to all and 73 de RtH..

Mexican Station Changes

Compiled by Bruce Portzer

The following is a list of recent new stations, changes in existing stations, and deletions of stations in Mexico. In most cases, it's not clear whether the information is an application, a construction permit, or a changes that's already taken place. Not only that, but it's gone through agencies of two countries (the U.S. and Mexico) before falling into my hands, so don't expect 100% accuracy. Source: Federal Registers, circa April & May, 1980.

550	XEGUZ	Cd. Guzman, Jal.	now 300w ND-D
580	XEYT	Cancun, QR	ex-1180, 500w ND-D
600	new	Barra de Navidad, Jal	delete
690	XEMA	Fresnillo, Zac.	ex-1340, 5000/250w ND-U
710	XERL	Colima, Col.	to 10000 w. DA-2
	XEZC	Rio Grande, Zac.	to 1450
730	XEX	Leon, Gto.	delete
740	XEKV	Villahermosa, Tab.	ex-1380, 1000/250 ND-U
	XELTZ	Loreto, Zac.	ex-1260, 5000/250 ND-U
	XEEJ	Pto. Vallarta, Jal.	ex-1360, 1000/100 ND-U
	new	Ixtepac, Oax.	1000 ND-D
	XEZA	Topolobambo, Sin.	ex-1600, 250 ND-U
750	XEKOK	Las Cruces, Gro.	ex-1380, 5000 ND-D
	new	Loma Bonita, Oax.	5000 DA-D
780	XELD	Autlan De Navar, Jal.	ex-1240, 5000 ND-D
800	XEZV	Tlapa, Gro.	new?, 1000 ND-D
810	XEZC	Rio Grande, Zac.	ex-1450, 1000/125 ND-U
840	XECUC	Campeche, Camp.	ex-1580, 500w ND-D
860	XEPLA	Pabelion, Ags.	now 4000/1000 ND-D/DA-N
870	XEACC	Pto. Escondido, Oax.	to 500 w ND-D
880	XEAAA	Zapopan, Jal.	to 10000 ND-D
	XEYR	Teapa, Tab.	ex-1340, 9000 (sic) w ND-D
890	new	Tapachula, Chis.	5000 w ND-D
930	new	Huixtla, Chis.	5000 w ND-D
970	XEEZ	Caborca, Son.	raise day power to 500 w
980	XEQS	Fresnillo, Zac.	ex-1470, 1000w DA-N/ND-D
990	XEIU	Oaxaca, Oax.	ex-1160, 1000/250
1020	XEID	Alamo, Ver.	change to 1230
1040	XECX	Japopan, Jal.	to 5000 w DA-D & change call to XEBBB
1080	XEOB	Pichucalco, Chis.	1500/150 ND-U, ex 1440
1110	XELEO	Leon, Gto.	to 5000 w ND-D/DA-N
1160	XEIU	Oaxaca, Oax.	change to 990
1180	XEYI	Cancun, QR	to 580, note call letter discrepancy
1230	XEFP	Jalpa, Zac.	1000/250 ND-U, PO 1580
	XEID	Alamo, Ver.	250 ND-U, ex 1020
1240	XELD	Autlan De Navar, Jal.	to 780
1250	new	Zihuatanejo, Gro.	500 w, ND-D
1270	XENX	Mazatlan, Sin.	delete
	XEMW	San Luis Rio Colo., Son	to 1000 ND-D/DA-N
1290	XENX	Mazatlan, Sin.	new?. 10000/250 ND-U
1300	XEXV	San Fco del R., Gto.	to 10000/100 DA-1
1320	XESR	Santa Rosalia, BCS	500/250 ND-U
1310	new	Taxco, Gro.	400 w ND-D
1340	XEPX	Puerto Angel, Oax.	to 1000/200 ND-U
1340	XEYR	Teapa, Tab.	change to 880
	XEBY	Tuxpan, Ver.	to 250/150 ND-U
	XEMA	Fresnillo, Zac.	delete
1350	XELBL	San Luis Rio Colo, Son.	to 500w ND-D/1000w DA-N!
1350	XEVU	Mazatlan, Sin.	ex-1520, 850/125 ND-U
	XEJF	Tierra Blanca, Ver.	to 1000/100 ND-U
1360	XEEJ	Puerta Vallarta, Jal.	to 740
	XEUL	Progreso, Yuc.	to 500/250 ND-U
1380	XEKV	Villahermosa, Tab.	to 740
	XEYB	Cosamaloapan, Ver.	new?. 1000 ND-D/DA-N
	XEVD	Cd. Allende, Coah.	to 1000 w ND-D/DA-N
	XEFAC	Salvatierra, Gto.	to 2000 w ND-D
1390	XETY	Tecoman, Col.	5000/250 w ND-U
1390	XERW	Leon, Gto.	to 10000/250 ND-U
	XEZG	Ixmiquilpan, Hgo.	to 700 w ND-D
1400	XENAY	Ahuacatlan, Nay.	to 1000/250 ND-U
	XEEY	Culiacan, Sin.	change city from El Dorado

UNREPORTED STATIONS TO DX MONITOR SINCE VOLUME 11 (August 1974)
by state

AL--28-WHRT--860, WTGN--910, WTVR--920, WLVI-1080, WACQ-1130, WHIY-1190, WJBB-1230,
WHOU-1230, WTUZ-1230, WULA-1240, WBCF-1240, WOPF-1290, WBSA-1300, WHEF-1310,
WJUL-1340, WTRK-1340, WFOR-1340, WFEB-1340, WBLR-1360, WRAB-1380, WGYV-1380,
WPPA-1400, WZZA-1410, WPHK-1430, WZMG-1430, WYAM-1450, WANA-1490,
AK--11-KVOH--560, KYUK--580, KHAR--590, KBRW--680, KOTZ--720, KRKA--950, KIAK--970,
KVEN-1150, KJUP-1170, KIFR-1280, KLAN-1450,
AZ---5-KEVT--690, KAPR--920, KSNK-1230, KFPR-1240, KFBR-1340,
AR--20-KVMA--630, KDDA--690, KAFB--710, KOSY--790, KJEM-1190, KCON-1230, KFTT-1230,
KPLD-1240, KWAK-1240, KOAT-1340, KWNG-1400, KCCS-1410, KHEM-1430, KJWP-1430,
KCOL-1460, KWHI-1470, KHAR-1490, KDRS-1490, KAGJ-1510, KLLS-1530,
CA---0-
CO---6-KRIS-1400, KDPA-1400, KFTW-1400, KRBS-1400, KTAG-1400, KGIW-1450,
CT---0-
DE---1-WTRK-1260,
DC---0-
FL--53-WFBR--740, WABZ--860, WWSW--900, WTIA--910, WGAN-1020, WFTL--930, WLFL--940,
WTOG--980, WVBT-1000, WOL-1010, WMO-1050, WMOB-1220, WGGG-1230, WCHH-1230,
WJHG-1230, WTHH-1240, WERA-1250, WYD-1260, WOPB-1270, WIFD-1280, WOPF-1290,
WTKT-1300, WTTG-1310, WHRN-1310, WWSB-1310, WHR-1320, WTFB-1330, WTKA-1340,
WTL-1340, WHRB-1350, WWSU-1340, WDFW-1350, WGLI-1350, WWSB-1360, WTHH-1380,
WFLR-1400, WRY-1400, WWS-1400, WJTB-1450, WJAX-1450, WJAX-1460, WJAX-1460,
WJTB-1480, WVCF-1480, WJAX-1490, WTKO-1490, WJTB-1490, WJTB-1490,
WJTB-1490, WJTB-1490, WJTB-1490, WJTB-1490,
GA--29-WGEM--610, WRFY--680, WTLI--700, WFLA--810, WVOH--920, WTLI--990, WGBA-1050,
WFLA-1080, WFLI-1230, WPAK-1240, WOKA-1310, WGAN-1340, WGAO-1340, WDBT-1340,
WJHG-1350, WLAN-1360, WTP-1400, WJTB-1400, WJTB-1400, WJTB-1400, WJTB-1400,
WJTB-1450, WJTB-1450, WJTB-1450, WJTB-1470, WJTB-1490, WJTB-1490, WJTB-1560,
WJTB-1590,
HI---0-
ID---0-
IL--4-WRMB--790, WRNL-1060, WGPA-1360, WJTN-1480,
IN---2-WOMK-1540, WJDI-1550,
IA---5-KROS-1340, KLBA-1370, KWAY-1470, KLMB-1490, KRIB-1490,
KS---8-KIHA--910, KRDL--990, KIRD-1010, KIUL-1240, KIHM-1350, KOYY-1360, KNCK-1390,
KNCP-1400,
KY---9-WLWC-1000, WJRG-1070, WGBR-1110, WFTO-1220, WAKO-1230, WBEA-1460, WGRK-1540,
WJTB-1550, WJTB-1590,
LA--18-KRCH--900, KRCC--920, KJMU--950, WBLB-1090, KSLG-1230, KABC-1240, WTHL-1260,
WVGI-1270, WJBN-1310, WJBN-1310, WVCS-1340, KDHI-1360, WJLD-1360, WJTB-1400,
KRCC-1430, KJMU-1480, WJMG-1490, WJLD-1570,
NE--6-WQDY-1230, WJBR-1230, WJBR-1240, WVOC-1340, WJCU-1340, WJBN-1450,
ND--1-WTHU-1450,
NA--2-WJBT--940, WMAI-1240,
NI---7-WJMG-1230, WJRS-1290, WJTB-1340, WJTB-1350, WJTB-1400, WJTB-1400, WJTB-1540,
MN--15-WJMN-1010, KACH-1150, WJRS-1230, WJRN-1240, KDUE-1260, KDLP-1340, KCHI-1350,
WJTB-1350, KRCC-1360, KRCC-1390, WJLD-1400, WJLD-1410, WELY-1450, WJTB-1470,
WJTB-1520, WJTB-1520,
MO--23-WJBT--970, WJTB-1020, WJTB-1130, WJTB-1230, WJTB-1230, WJTB-1240, WJTB-1240,
WJTB-1240, WJTB-1260, WJTB-1270, WJTB-1290, WJTB-1310, WJTB-1320, WJTB-1340,
WJTB-1340, WJTB-1340, WJTB-1410, WJTB-1440, WJTB-1450, WJTB-1490, WJTB-1490,
WJTB-1520, WJTB-1520,
NC--13-KJEL-1080, KLWT-1230, KWIX-1230, WJTB-1240, KJTB-1240, KJTB-1250, KYRC-1280,
KSMO-1340, KJRN-1360, KJCF-1400, KJTB-1410, KJTB-1450, KJTB-1450,
NE--1-KKLO-1230,

ND---5-KOTD-1000, KENC-1230, KPCR-1240, KGFV-1340, KSID-1340,
 NV---1-KELY-1230,
 NH---2-WNCU-1230, WLTK-1400,
 NJ---4-WRNJ-1000, WDVL-1270, WING-1300, WJZ-1460,
 IN---6-KLEA--630, KCCO--930, WJIM--930, KSRG-1290, KRDD-1320, KCHS-1400,
 NY--12-WKAJ--900, WCHH--970, WJSH-1340, WBSA-1340, WRNY-1350, WVIN-1380, WSLB-1400,
WGLI-1450, WHDR-1450, WKAL-1450, WJTA-1490, WJCR-1600,

 NC--39-WKTK--580, WCAB--590, WRCC--680, WTNC--790, WQZZ--860, WPTL--920, WKYK--940,
WAAK--960, WAAA--980, WTKX-1010, WCOY-1060, WFR-1230, WTNC-1230, WDNH-1240,
WTR-1340, WGTN-1340, WAIR-1340, WBNS-1350, WHIP-1350, WJRE-1390, WSHB-1400,
WSIC-1400, WYCN-1420, WDJS-1430, WUNC-1450, WJZS-1450, WATP-1450, WHIP-1450,
WRD-1460, WENO-1460, WQOB-1470, WLOE-1490, WRHD-1490, WSTP-1490, WLWL-1500,
WYRU-1510, WYRC-1540, WZZT-1550, WVOE-1590,
 ND---1-KFJN-1370,
 OH---8-WRSH--790, WILE-1270, WPAH-1310, WGST-1350, WCLT-1430, WLEC-1450, WING-1520,
WTF-1600,
 OH---17-KCCO-1050, KADL-1230, WEDZ-1230, KVSO-1240, KPH-1240, IKCC-1320, KJRH-1340,
KRFD-1350, KTCO-1300, KALV-1430, KVMY-1450, KQFP-1450, KVLN-1470, KVIN-1470,
KOKC-1490, KROJ-1550, KQFS-1590,
 OR---3-WRNS-1230, KROR-1360, KPLS-1450,
 PA--10-WFGC-1010, WTIV-1230, WBRX-1280, WYCH-1300, WAGB-1380, WANQ-1400, WERA-1450,
WRUA-1510, WPCD-1600, WJSA-1600,
 RI---C-
 SC--23-WCKI--710, WALD-1060, WJTV-1230, WJAT-1230, WDKD-1240, WCG-1250, WCKI-1300,
WISG-1300, WFS-1380, WRR-1400, WIDY-1400, WYB-1410, WJLR-1430, WJHJ-1440,
WORS-1450, WDOG-1460, WRR-1490, WSIB-1490, WVAF-1510, WGFL-1510, WFGN-1570,
WFS-1600, WREK-1600,
 SD---8-KQHN--580, KJIV-1340, KQKD-1380, KBJN-1400, KDBQ-1420, WERI-1430, KDFS-1450,
KYR-1450,
 TN--19-WJTN--740, WQCK--970, WORL-1010, WTLR-1230, WLSB-1400, WCAP-1400, WHAL-1400,
WZLQ-1400, WENR-1410, WED-1430, WJAF-1450, WJTV-1490, WTHE-1500, WHT-1520,
WTK-1520, WLC-1540, WJVL-1550, WDF-1550, WLSR-1600,
 TX--95-KRLE--580, KBRB--600, KERV--710, KEST--860, KPAH--860, KMAF--910, KVIN--980,
KAM-990, KSTA-1000, KJAT-1010, KMY-1050, KOLT-1060, KPT-1130, KBR-1130,
KLB-1150, KJPD-1150, KOLT-1150, KPH-1150, KVL-1220, KJ-1230, KDLN-1230,
KERV-1230, KJVT-1240, KBB-1230, KSEY-1230, KNTX-1230, KJVL-1240, KJVL-1240,
KQO-1240, KFR-1250, KJPL-1260, KHE-1270, KTT-1270, KBR-1280, KTT-1280,
KJL-1280, KPAH-1280, KJWG-1280, KJVV-1290, KJUB-1300, KJGR-1300, KJAS-1300,
KOYL-1310, KJUC-1310, KJFC-1340, KARD-1340, KRDA-1340, KTSO-1340, KJL-1340,
KJZ-1360, KAGC-1360, KJUL-1380, KBO-1380, KJUL-1390, KJRT-1400, KJYG-1400,
KJHO-1400, KJVL-1400, KBB-1400, KJVL-1400, KJOF-1400, KJVT-1400, KJL-1400,
KJFS-1400, KJCH-1410, KJIT-1410, KJH-1410, KJYN-1420, KJFB-1420, KJHS-1420,
KJSD-1430, KJES-1430, KJBR-1450, KJST-1450, KJBL-1450, KJYL-1450, KJHT-1450,
KJWE-1460, KJHY-1470, KJST-1490, KJTC-1490, KJAN-1490, KJVOZ-1490, KJLT-1490,
KJOT-1490, KJGC-1510, KJMX-1510, KJTD-1510, KJOC-1510, KJRH-1520, KJDL-1540,
KJMP-1580, KJGL-1580, KJBE-1580, KJH-1580,
 UT---C-
 VT---2-WJOY-1230, WYHR-1490,
 VA---9-WGBI-1230, WKEY-1340, WJLA-1340, WTV-1400, WJLF-1400, WBDL-1480, WBYB-1490,
WPAH-1490, WBLD-1510,
 WA---C-
 WV--12-WJAX--900, WGST-1010, WJGG-1230, WDNE-1240, WJTD-1280, WJZ-1400, WROH-1400,
WJW-1410, WTCR-1420, WJER-1450, WJCS-1490, WJCP-1490,
 WI---2-WRDB-1400, WRIG-1400,
 WY---1-WYCH-1340,

(Continued on page 19 --- bp)

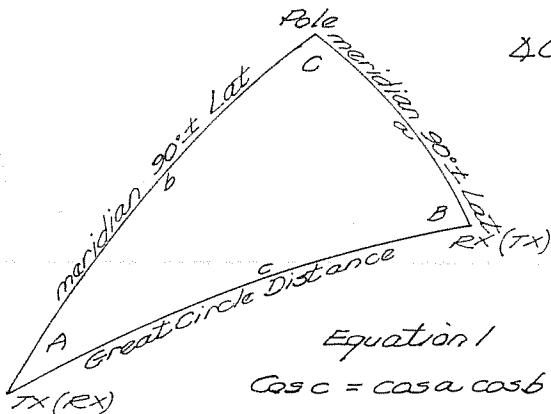
More Great Circle Calculations

Richard Corry

Shortly after joining IRCA, I sent to Phil Bytheway for a bundle of reprints. After having perused DX Mathematics (IRCA reprint T-8) by de Ghoti, I decided I could set forth a much less confusing array of equations and procedures for the solution of Great Circle Distances and related problems. Herewith, the results of that study. When the comprehension of a spherical triangle is mastered, constant designations for 6 functions (3 angles and 3 sides) can be used, making the solution much simpler and practically unavoidable.

Since a great many IRCA members either own or have access to electronic programmable calculators, I have written a program for the HP-25 for the solution of Equation 1. If need be, I assume it can be transposed to fit a TI-58. If the bearing to TX from RX is desired, use equation 2. Of course, this will first require the solution of Equation 1, and the establishment of either the meridian, or a reference line with a known bearing. Naturally, if no calculator is available, solution may be made by long hand.

These equations, with some algebraic juggling and/or substitution can be rearranged so as to be a basis for celestial navigation (with the aid of a couple of WWV time ticks). Just in case anyone wants to run the Great Circle from Cape Flattery (48°24'N, 124°44'W) to Diamond Head (21°16'N, 157°49'W)---2615.30 miles, S56°00'W, initial course.



$\Delta C = \Delta Lo =$ difference in longitude.

Equation 1

$$\cos c = \cos a \cos b + \sin a \sin b \cos C$$

$\cos c \times 69.1 =$ result in statute miles

If ΔA or ΔB are required, use

Equation 2

$$\frac{\sin a}{\sin A} = \frac{\sin b}{\sin B} = \frac{\sin c}{\sin C}$$

* * * * *

TYPIST'S COMMENTS: The above method of calculating distances and loop bearings is definitely easier than most I've seen. However, when calculating loop bearings, the answer given by equation (2) has to be added or subtracted from 180 or 360 to give the correct answer; i.e. - from Seattle, Europeans are between 0 and 90°, most Latins 90-180°, Down Unders 180-270°, Asians 270-360°. A better equation to use for finding loop bearing would be: $\cos b = \cos(a)\cos(c) + \sin(a)\sin(c)\cos(B)$, which after a bit of manipulation becomes $\cos(B) = \frac{\cos(b) - \cos(a)\cos(c)}{\sin(a)\sin(c)}$

If the station is east of you, the great circle bearing is B. If the station is west of you, the great circle bearing is (360-B).

--- Bruce Portzer

HP-25 Program Form

Title Great Circle Distance Page of

Switch to PRGM mode, press PRGM, then key in the program.

DISPLAY	KEY ENTRY	X	Y	Z	T	COMMENTS	REGISTERS	
00		$\cos C = \cos A \cos B + \sin A \sin B \cos C$					R0	
01	RCL1							
02	g→H							
03	fcos						R1 side a	
04	STO4							
05	gcos							
06	fsin						R2 side b	
07	STO5							
08	RCL2							
09	g→H						R3 dLo	
10	fcos							
11	STOXA							
12	gcos						R4	
13	fsin							
14	STOX5							
15	RCL3						R5	
16	g→H							
17	fcos							
18	STOX5						R6	
19	RCL4							
20	RCL5							
21	+						R7	
22	gcos							
23	6							
24	9							
25	.							
26	1							
27	X							
28	RCL5							
29	STO00							
30								
31								
32								
33		5280						
34		6080.80 = .868392						
35								
36								
37								
38		Program for Equation 2 is straight						
39		proportion! due regard being given						
40		to latitude of TX						

AB---0

BC---5-BPTW--590, CHTK--1030, CPBV--1080, CPNI--1140, CPNG--1400,

ME---3-CPAR--590, CPEN--610, CPNS--1130,

ND---1-CPNV--1490,

NP--16-CPPD--570, CPNA--600, CPYQ--610, CHCN--620, CKGA--720, VOXR--900, CPIN--1050,
CPIN--1210, CPDP--1240, CPBB--1340, CPBW--1340, CPYQ--1350, CPV--1450, VOUS--1490,
CPDQ--1490, VOXP--1490,

NWT---5-CPOT--600, CHAX--860, CPFB--1210, CJGD--1210, CPNI--1340,

NS---1-CPAB--1450,

OH---3-CPIN--1230, CPIN--1340, CPRO--1490,

PEI---0-

QU--18-CPNP--620, CPHC--710, CPEN--750, CPON--1230, CJAP--1240, CPD--1240, CHLS--1240,
CPNI--1280, CHAD--1340, CPFL--1340, CPNS--1340, CPNH--1340, CPV--1350, CHRV--1490,
CPEN--1490, CPRA--1490, CPILR--1490, CPEN--1490,

RI---0

compiled by Don Kaskey

YT---0-

*UNDERLINED HAVE NOT BEEN REPORTED TO EITHER IRCA or NRC during this period.

Radio signals may kill cars

DAVENTRY, England (UPI) — A 500-yard stretch of highway near this English Midlands town is known locally as the "Bermuda Triangle," because so many automobiles break down there.

A patrolman for the Automobile Association, called out to aid several stranded motorists, suggested that the breakdowns are caused by signals from the British Broadcasting Corp.'s transmitters nearby — the radio signals interfering with the electronic ignition systems on many new autos.

Scientists study links between sunspots and magnetic storms

Scientists from National Oceanic and Atmospheric Administration (NOAA) report that bubbles and holes in the Sun's diffuse outer layer can cause as much disturbance in Earth's magnetic field as solar flares. The scientists said that bubble-like clouds of erupting gas in the Sun's tenuous halo, the corona, appear to be associated with the two largest storms reported so far during the 11-year sun spot cycle. In addition to these coronal "transients," there are long-lived sources of high-speed particle streams, called coronal holes. The relationship of coronal holes to the sunspot cycle has just been described mathematically by the NOAA investigators. "So far in this sunspot cycle, about 7% of all significant flares and 25% of all major flares actually produced storm activity," comments Dr. JoAnn Joselyn, a NOAA forecaster-researcher, "but nearly 25% of all disappearing filaments [particle eruptions marked by the sudden disappearance of dark bands of gas supported in the corona] can also be associated with geomagnetic storms."

It's official: Motorola is spotted lead in AM stereo race

Revised matrix means Magnavox, Kahn/Hazeltine, Harris and Belar have an uphill fight

The FCC finally has released its further notice of proposed rulemaking on AM stereo, adopted by unanimous vote on July 31, and it looks much as expected.

The notice includes two evaluation matrices that rank the five proposed systems according to a number of criteria established by the FCC staff. The first matrix no longer means much. It formed the basis for the FCC's tentative selection of the Magnavox system as the industry standard at its April 9 meeting (BROADCASTING, April 14).

The second matrix is a revision of the first and is the heart of the new notice. It reflects the FCC's more intense analysis of the AM stereo docket after the April 9 meeting and indicates that the Motorola system is now the system to beat. Other proponents will have the opportunity to challenge it in comments (due Dec. 9) and reply comments (due Jan. 8, 1981). The other three companies vying to have their systems adopted are Harris, Belar Electronics and Kahn/Hazeltine.

At the April 9 meeting, the FCC staff was ordered to rewrite the report and order

that had recommended the marketplace approach—that all five systems be approved—to reflect the FCC's decision in favor of Magnavox.

However, in going back over the docket, the staff soon realized that because of omissions and ambiguities in the record, the selection of Magnavox was not wholly defensible. So instead of returning to the FCC on July 31 with a report and order naming Magnavox, it came back asking for the adoption of the further notice to gather additional information.

In the notice, the FCC said, "We emphasize that our purpose is not in any way to delay the selection of an AM stereo system but, rather, to base our final determination upon a full, complete and accurate record."

The revised matrix is similar in format to the original. Unlike the original it contains asterisks where the FCC felt it had insufficient information to make a valid rating. In the notice, the FCC said it is "allowing all AM stereo system proponents an additional opportunity to present evidence in any evaluation category where they feel their system may have been misrated." It also solicited comments on "the appropriateness of the evaluation category on the weights assigned to them, on whether any category should be added or deleted from the evaluation table, and on our assignments of engineering data scales corresponding to numerical scoring scales." The FCC also asked for comments on how each of the systems would affect monophonic coverage areas.

Following the tentative selection of the Magnavox system there was an outcry

raised by the other proponents and many broadcasters who believed the Magnavox system produced intolerable interference in the nulls of directional antenna patterns. The new notice specifically asked for comments on this problem and added, "even monophonic signals can become badly distorted and we see nothing in any of the proposed stereo systems which would tend to exempt them from such a natural deterioration."

The notice also had a specific question on the Kahn/Hazeltine system. The FCC said the stereo noise figure it had on the system was extremely poor and asked whether this was typical and, if not, what would be a more accurate number.

The notice also invited comments on whether the FCC should resurrect the marketplace approach by approving two or more systems. The notice also asked about the feasibility of universal decoders that would allow one receiver to process the signal of many systems.

"Another approach that the commission could consider," the notice said, "would be the selection of a system by lottery. This could involve selection from ... all systems," assuming that all are minimally acceptable.

In the notice, the FCC said that failure of the proponents to provide sufficient information will not preclude a decision. "We are confident that if we received no further information at all, and were thereby forced to use only the information on hand, we are in the position to choose an AM stereo system which would serve AM broadcasters and the American public very well."

Original matrix

	MAGNAVOX	MOTOROLA	HARRIS	BELAR	KAHN/HAZELTINE
I MONOPHONIC COMPATIBILITY (15)	12	11	7	12	11
II INTERFERENCE CHARACTERISTICS (1) Occupied bandwidth (10) (2) Protection ratios (10)	7 5	5 3	9 8	5 5	8 7
III COVERAGE (10)	7	6	6	5	5
IV TRANSMITTER STEREO PERFORMANCE: (1) Distortion (10) (2) Frequency response (10) (3) Separation (10) (4) Noise (10)	6 9 9 7	7 4 9 8	3 5 6 7	9 10 10 6	2 7 6 6
V RECEIVER STEREO PERFORMANCE Propagation degradation (5) Directional antenna effects (5)	3 3	5 3	4 4	3 3	5 3
VI MISTUNING EFFECTS (5)	3	3	4	3	3
TENTATIVE TOTAL SCORE (100)	73	64	63	71	59

Revised matrix

	MAGNAVOX	MOTOROLA	HARRIS	BELAR	KAHN/HAZELTINE
I MONOPHONIC COMPATIBILITY (1) Average harmonic distortion (15) (2) Mistuning effects (5)	*	9	6	*	12
II INTERFERENCE CHARACTERISTICS (1) Occupied bandwidth (10) (2) Protection ratios (10)	5	5	5	5	5
III COVERAGE (Relative to Mono) (1) Stereo to mono receiver (5) (2) Stereo to stereo receiver (5)	10	10	10	10	10
IV TRANSMITTER STEREO PERFORMANCE (1) Distortion (10) (2) Frequency response (10) (3) Separation (10) (4) Noise (10)	7	10	8	*	9
V RECEIVER STEREO PERFORMANCE Degradation in stereo performance over that measured at the transmitter, including consideration of directional antenna and propagation degradation (10)	*	*	*	*	*
	8	8	6	8	4
	8	5	5	6	8
	7	10	2	6	3
	6	10	8	6	*
TENTATIVE TOTAL SCORE (100)	51	67	50	41	51

GROUP PHOTO - 1980 IRCA Convention - in front of WHAS studios (as if it wasn't obvious, hi). Left to right: Sandy Wallace, Mark Kulbacki, Rich Eddie (mostly hidden), Ted Fleishaker (hiding Mr. Eddie), Rich Segalas (seated), Dave Peters, Ernie Cooper, Greg Monti, Ron Thompson, part of Roger Giannini's head, George Greene (in CFUN T-Shirt), Gary Atkins, Steve Schaefer (W-4 T-Shirt), Fred Schafer, Ken Chatterton, Bill Townshend, Walt Breville. Photo courtesy of Gerry Thomas.



Until a 5,000-watt station called KABC-AM (750) came along, talk radio was viewed throughout the country as more of a filler than a format.

After all, every disc jockey in the country has always had his own version of talk radio, right? That is what they do between songs — they talk and talk and talk some more. Then maybe they spin another album — then talk again.

It was 20 years ago almost to the day (Oct. 20, 1960) that Ben Hoberman, then KABC general manager, took a monumental gamble. Going against every radio adage there was, he decided to unplug the turntables and cut out most of the music, switching the station to all-talk.

That had never been done before. Critics laughed. How can a radio station survive without music, they wondered. People would certainly have to get bored with just a bunch of yakking. After all, didn't "all-talk" mean "no action"?

Now, of course, the talkers have the last laugh.

Hoberman has since been promoted to vice president of ABC Radio in New York. KABC perpetually tops both Los Angeles ratings services, Arbitron and Mediatrend, as the No. 1 station in the area. And KABC is the prototypical station in what is expected to be the wave of AM radio's future — talk and information programming.

True, you can't dance to it or make love to it, but people have discovered that talk still can be fun.

"Our objectives back in 1960 were the same as they are today," said Hoberman from his New York office. "We tried to find a need in the community that needed serving, then see if it better than anyone else."

"It took time to build the concept up. It took time to gain acceptance, from advertisers and from the public. But the way we sold it to advertisers is that "talkradio" (as KABC calls it) demanded greater attention from the listener and, thus, they listened more intently to the commercials, too."

Indeed, the listeners established KABC, but only because the station knew how to please them. It let them participate via telephone — the theory being that audiences were more likely to tune in if they could put their two cents in.

The concept worked even better than had been anticipated. Now, everyone from top politicians to movie stars, sports personalities and authors participate in what has been called the world's most extended party line.

But neither the phone-in concept — nor the popular guests to talk to — were there with KABC in the beginning.

Boredom was KABC's middle name then. Wendell Noble would read newspaper clippings and passages from the Reader's Digest aloud. Someone named Myron Bennett would talk to senior citizens. And Pamela Mason would open up the mike and talk non-stop for three hours daily.

That all changed with two-way talk and the emergence of Joe Pyne, the acid-tongued master of the insult and anxiety attack, who was imported by Hoberman from Montreal in 1963. Marv Gray, another controversial talker-screamer, also came to KABC at about the same time.

Phone-ins were born, as were the argumentative days of talkradio. People called, argued, slammed the receiver down and loved it.

"Those were political days in the '60s," recalls George Green, now vice president and general manager of KABC, who has been at the station through it all, since 1960.

"Pyne would shout at people to 'go gargle with razor blades' and would just yell and scream. Gray was the same way, except he was on the right, Pyne on the left. We wanted to be controversial because we didn't know just how important a station's image was. It was an acceptable thing to do, then."

Another popular Pyne line was "Lady, I'd like to paste a stamp on your nose and mail you to a forest fire." It all went over big. People were talking about KABC. Listening to it was, suddenly, "in."

After Pyne left KABC following a contract dispute in the late '60s, Bill Ballance took over as another in a long line of controversial hosts. He switched his *Feminine Forum* "topless radio" show from KGBS to KABC and hit female listeners with questions like "Are you a red-hot mama?"

Superfan, alias Ed Beiler, was equally controversial in his Sportstalk days with the station.

Beiler could be loud, obnoxious and even downright nasty to listeners with his sports observations — much as a regular fan would be — but he would take it all as a joke and close his program with "Remember fans, in the department store of life, sports is the toy department."

During the '70s, KABC was kind of a toy department within itself. There were all kinds of games to play with in a variety of subjects and personalities, for every taste.

It seems that everyone has answered the phones for KABC at one time or another through the years. Chuck Ashman, Regis Philbin, Maureen Reagan, Stan Duke, Dave Hull, Lloyd Thaxton, Bill Kahn, Dick Whittington, Elliot Mintz, Sal Mineo, Bill Russell, Leo Duracher and Jimmy Persall are among the many.

Guest hosts have included Dom DeLuise, Robert Vaughn, Jesse Unruh, Los Angeles police chief Daryl Gates (who hosts today in place of the vacationing Michael Jackson), city attorney Burt Finnes and James Drury.

"We found several years ago that the most popular approach would be to direct the talk toward current events and topical matters," said Hoberman. "So we developed a magazine format within the talk format."

The current weekday line-up is certainly varied. It starts off mornings with the irreverent humor of Ken Mnyard and Bob Arthur and continues into an issue-oriented program featuring the extraordinarily popular Englishman, Michael Jackson.

Dr. Toni Grant then takes over with personal talk of psychology and social issues, followed by Sportstalk, featuring the likes of Bud Furillo and Rick Talley, then a little stream-of-consciousness listening with Carole Hemingway, the know-it-all mind and tongue of Ira Fiestell and, finally, the early-morning political diatribe of Ray Brem.

"It's like having *Time*, *Newsweek*, *U.S. News and World Report*, *Psychology Today*, *People* and *Golf Digest* all rolled into one," said Hoberman.

KABC is much more refined than it once was. The reason, according to Green, is that it knows its audience.

"We found out a long time ago that we can't get the younger audience, so we don't try anymore," says Green. "The 35-to-49 age demographic is our target. Younger people can't, for the most part, be drawn away from music."

"Success couldn't come until we got established. It takes 20 years just to build up an acceptability in the community. We're a status symbol now. People who listen to KABC are in fashion. So much of this business is peer group pressure and appealing to a certain demographic."

INTERNATIONAL RADIO CLUB OF AMERICA,
6546 19th Avenue N.E.,
Seattle, Washington, 98115



South Fraser Broadcasting Limited
#20 - 11151 Horseshoe Way
Richmond, British Columbia V7A 4S5

ATTENTION: Bruce Portzer

Dear Bruce,

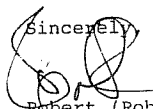
I thought you might be interested to know that as a DX enthusiast my programme on C-ISL is aimed in this particular direction, if you'll pardon the pun.

C-ISL is located in Richmond, British Columbia. We went "on air" May 1st 1980 with 2500 Watts.

My programme runs from 11pm - 6am Wednesday thru Sunday. At present all I'm doing to promote this idea is to read the attached once an hour. Although I have had some response it has not been what I had expected, however I realize that it is probably still too soon.

I was hoping you might have some thoughts or ideas on how I could promote this further. Anything you could contribute would be greatly appreciated.

I hope to hear from you.

Sincerely,

Robert (Rob) Allen
Announcer

WE ARE C I S L, C-ISL 940, THE VOICE OF THE FRASER DELTA. WE BROADCAST 24 HOURS A DAY WITH 2500 WATTS AT 940 KILOHERTZ. OUR STUDIOS & TRANSMITTERS ARE LOCATED IN RICHMOND, BRITISH COLUMBIA. IF YOU'RE OUT OF OUR NORMAL LISTENING AREA & RECEIVING OUR SIGNAL, DROP ME A LINE, I'D LIKE TO HEAR FROM YOU. PLEASE INCLUDE IN YOUR REPORT DETAILS OF BROADCAST SUCH AS COMMERCIALS, NEWS, OR SONGS ETC., HOW WELL WAS THE BROADCAST HEARD, THE TYPE OF RECEIVER YOU'RE USING, AS WELL AS THE WEATHER CONDITIONS AT TIME OF RECEPTION & YOUR LOCATION. MY ADDRESS IS:

ROB ALLEN,
C-ISL RICHMOND RADIO,
#20 - 11151 HORSESHOE WAY,
RICHMOND, B.C.

I'LL MATCH YOUR INFORMATION WITH OUR LOGS AND IF IT'S CORRECT YOU'LL RECEIVE A QSL CONFIRMATION OF RECEPTION.

KABC's success story was not complete, however, until the station started broadcasting Dodger games in 1974. Green says carrying Dodger baseball introduced millions of fans to talkradio, what with the pre-game shows, post-game shows and Sportstalk.

Where will KABC go from here? Wally Sherwin, the station's program director, has an idea.

"News is where everything in AM radio is going," says Sherwin, "not CBS-type news, but pertinent information. That's what we want to continue to give our listeners. We'll also become more involved in lifestyles and activities in California — a lot more remote broadcasting, stuff like that

THE INTERNATIONAL RADIO CLUB OF AMERICA

A non-profit organization devoted to the hobby of listening to distant radio stations on the AM broadcast band (510 to 1630 kHz). IRCA is a member of ANARC, the Association of North American Radio Clubs.

OFFICERS: President: Father Jack Pejza, 3433 Somerset Avenue, Castro Valley, California 94546. Secretary-Treasurer: Rich Segalas. Board of Directors: Phil Bytheway, Nick Hall-Patch, Don Kaskey, Paul Mount, Bruce Portzer, Susan Strulnick, Gerry Thomas.

MEMBERSHIP DUES: \$16.50 First Class to the U.S.A., Canada, and Mexico. \$20.00 Air Mail to the rest of the world via Canada. Air mail direct from the U.S.: \$25.00 to Central America, Caribbean, Colombia, and Venezuela; \$30.00 to the rest of the world. Sample copies cost 50¢ each or three International Reply Coupons. Make checks and money orders payable to I.R.C.A. Persons living outside the U.S. should send checks or money orders payable in U.S. funds. DUES AND ADDRESS CHANGES should be sent to Rich Segalas, P.O. Box 26254, San Francisco, CA 94126.

DX MONITOR, the official bulletin of the IRCA, is published 34 times a year: weekly from October to March, twice in September and April, and monthly from May to August. PUBLISHING STAFF: Bruce Portzer (editor-in-Chief), Dave Korinek (Publisher), Evelyn Portzer, Nick Hall-Patch, Jef Jalsun, and Phil Bytheway. Phone: 206-522-2521 (Portzer)

THE IRCA GOODIE FACTORY. The IRCA Almanac, Foreign Logs, reprints, and other materials are available for nominal charges. For a complete list, write to P.O. Box 17088, Seattle, WA 98107.

Unless otherwise noted, permission is granted to publish, broadcast, or otherwise reproduce non-copyrighted material appearing in DX Monitor, provided credit is given to IRCA and the original contributor.

Opinions expressed in DX Monitor are those of the contributors and do not necessarily reflect those of the IRCA, its publishing staff, editors, or officers.

DX Monitor is printed by Save-on Printing, Seattle, WA.

IRCA

**P.O. BOX 21074
SEATTLE, WA**

U.S.A.



First Class

**D.A. Nyholm
2071 Cedar Street
San Carlos, CA 94070**

19

