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VOLUME 13

NO. 27

WHOLE NO 410

M, RCH 27, 1976

DX CALENDAR DX CALENDAR DX CALENDAR

ELT

IRCA Thu. 4- 1-76 0530-0630 KBBV-1050 Big Bear Lake, CA 4kw
 NRC Tue. 4- 2-76 0530-0630 WRTA-1240 Altoona, PA 1 1/4
 IRCA Mon. 4-12-76 0600-0630 KCVR-1570 Lodi, CA 5kw
 NRC Tue. 4-13-76 0200-0400 WEAQ- 790 Eau Claire, WI 5kw
 IRCA Mon. 4-19-76 0300-0330 KSLM-1390 Salem, OR 5kw

KBBV-1050 (daytime only) will mention IRCA. Also will have KFX669 1622 khz going with 250w ND. Reports to Vern Thompson, Radio KBBV, P.O. Box 1050, Big Bear Lake, CA 92315. Arranged by Mike Sanburn.
 WRTA-1240, no details available. Reports to Chief Engineer, Radio WRTA, P.O. Box 272, Altoona, PA 16603.
 KCVR-1570 (daytime only) will have tones, music and IDs. Reports to Ed Gehres, CE, Radio KCVR, P.O. Box 600, Lodi, CA 95240. Arranged by Mike Sanburn.
 WEAQ-790, no details available. Reports to Chief Engineer, Radio WEAQ, P.O. Box 1, Eau Claire, WI 54701.
 KSLM-1390 will have music with TT and code IDs on their day non-directional antenna. Calls OK but not collect to 503-364-8433. Reports to Tom Wirch, CE, Radio KSLM, P.O. Box 631, Salem, OR 97308, Arranged by Jeff Brasier.

*** NEW MEMBERS

Jim Stewart Hill, W6IVW, 3801 Palos Verdes Drive North, Palos Verdes Estates, CA 90274
 John Colyard, 530 Oregon Ave., Bricktown, NJ 08723 (joint)
 Craig Healy, Box 182, Cumberland, RI 02864
 Garry C. Eckart, 6000 Rivers Ave., Lot 255, Charleston Hts., SC 29405
 Larry Gutter, 1125 Oak Ridge Dr., Glencoe, IL 60022
 Leonard A. Jozwiak, 5999 Yorkshire, Detroit, MI 48224
 Gavin C. Bennett, P.O. Box 844, Invercargill, NEW ZEALAND
 William Joseph, P.O. Box 316, Waterville, ME 04901
 Brock H. Whaley, 6320 N.E. 6th Court, Apt. 4, Miami, FL 33138

Address Changes:

Dave Martin, 546 E. 6th Ave., Helena, MT 59601
 David Johnson, 7200 E. Evans, #606, Denver, CO 80224

Renewals:

Richard J. Franey, John A. Callarman, Gregory S. Neuman, David Johnson, Cary Simpson, Don Erickson, David Rogers, Glenn Goodwater, Michael J. Albanese, Mike Mitock, Bill Nittler, John Robinett, Rolf Blödorn, Mike Hardester

CPC Results and FLASH TIPS..

Received too late for publication is the word that Radio Millon-625 would have their final test on March 27, 28, and 29 starting at 0100 EST. They would use both freqs again with 1 million watts on 625 and 50,000 watts on 9615 khz. (RFS)

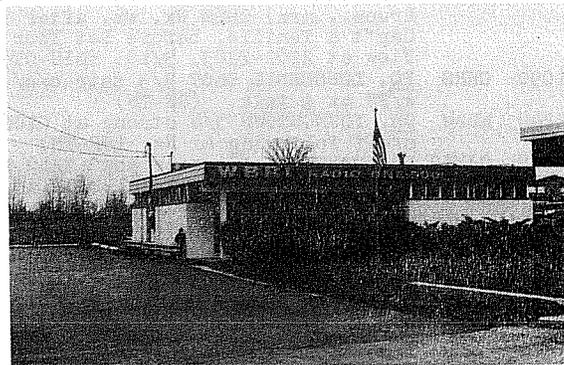
From Bill Nittler, McCook, Nebraska:
 KRXV-1540 (ex KBUY) is now AN-7 with NIS.
 The Radio Millon DX heard here easily as they should have been country-wide.
 850-Georgia station heard ETing 3/8 but couldn't catch call or location. Might be the new Statesboro station-WPTB, or WCUG Cuthbert.
 KVBR-1340 DX heard here easily 3/1 as was KRYT-1530 unnn.

KSEK ran Boston Pops March Music and no TT, so probably wasn't as well heard as it could have been. (PB)

Geomagnetic Indices



Telecommunications should continue unsettled through early April, with conditions probably becoming moderately disturbed 26-29 March.



The Inside Story —

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- 1230 KAAA AZ, Kingman 3/14 2049 w/EZ mx, ad for something in Kingman. Couldn't make out what. Barely audible in the mess.
- 1230 KWTC CA, Barstow 3/14 2059 w/ID, / (BLH) then into AP nx. They had an ad for a local car dealer during the first commercial. KXO underneath w/NBC nx. KSON-1240 slop nulled. (BLH-CA)
- 1270 KDJI AZ, Holbrook 3/15 0833 going strong w/Navajo Indian talk, followed by an EE C&W song, by Johnny Cash. (BLH-CA)
- 1310 KFKA CO, Greeley 3/15 0830 w/ad for a local tractor dealer. Call given, then into a song. (BLH-CA)
- 1390 KFML CO, Denver 3/15 1959 w/s/off barely detectable in KGER null. (BLH)
- 1510 KDKO CO, Littleton 3/15 0755 w/a talk on something having to do w/Negroes. Then gave wx. (BLH-CA)
- 1550 KRGO UT, Salt Lake City 3/15 0813 w/contest promo, then an ad for the Continental Bank of Salt Lake City. (BLH-CA)
- 1550 KUAT AZ, Tucson University of Arizona 3/15 0848 in like a local w/very long classical cuts. Finally got an ID, then they gave a spot for an upcoming program over NPR (Nat'l Public Radio). Back to more classical mx. Local XEBG came on at 0855 in the middle of a song. (BLH-CA)
- 1570 KLOV CO, Loveland 3/15 0819 w/rmmx, gave current temperature, then a few ads. (BLH-CA)

C.M. Stanbury II-Box 218-Crystal Beach, ON LOS LBO
 Randy Seaver's PROPAGATION NOTES in the 3/6 DXM were very interesting. Taking them point by point: #1 is correct. #2 is correct, except, "The possibility of reception with the prevailing disturbed conditions would obviously not be as good as one could expect with quiet conditions" - on several occasions it has been noted that moderately disturbed conditions actually enhanced very high latitude paths. #3 yes, I stand corrected (is this really CMS's report?-jz), although I'm not certain that the distance from the North Magnetic Pole can be meaningfully expressed in miles. #4 I don't understand the point of Randy's argument here, but my statement was correct. When non-deviative absorption is virtually zero, as it must be for any very distant MW reception, frequency no longer enters into it because something times nothing is always nothing. As non-deviative absorption starts to reappear, its effects will be felt first at the low end of the band and then, assuming the same mode all the way up to 3 MHz, will move rapidly upward toward the hf portion of the spectrum. Nothing in Randy's note contradicts this. There's really no basis for argument here. #5 Absolutely correct (provided we substitute "above 1605 kHz" for "above medium wave") - bear in mind, however, that the major difference between 2 MHz and the BCB is the level of interference. If the BCB QRM level were anywhere near as low, we could determine much more exactly the correlation between the two bands. (portion deleted, per EP III, A.-jz)

After the larger WDXR of last week I had a feeling that this weeks would be on the short side. Hope you'll report soon. 73

Scott Mentzer-Rt. 3-Tylertown, MS 39667
 Greetings once again from "SAM, the Test-Gambling Man, down in Mississippi Land". Late season CX continues to be about as predictable as a Las Vegas (NV, not NM, hi) roulette wheel, with a surprise at almost every twist of the dial. Great openings one minute and zilch the next; unknowns looming in for a few seconds with signals strong enough to knock a young bull elephant for a loop; pests not to be found or barely readable; and this morning, the wildest happening I can remember in four years of DX - thunderstorms passing almost right over the house and almost NO QRN. Wierd! Not too much new to report on the verie scene; a nice v/l from the CE at WTAB, and a very attractive v/q from WTOD (if you like the same wierd color combinations I do, hi). Costa Rica DX Special easily heard here, despite fairly heavy QRN, and KNIE logged for state #36; other catches can be found in the CDXR. I echo 100% Mike Harvester's observations concerning more CW IDs. (Even though I'm not too potent on code myself, dear old "Doggie Daddy" learned the stuff at Fort Dix some 20 years ago, and can still read it pretty well, hi.) Since Bob Lazar reports a big purge at WEMP, maybe someone will finally get around to sending a verie on my lone WI logging (no, Marc, I still don't have the "****&*" thing hanging on my bedroom wall, yet), hi. Also, what ever happened to those giant size v/qs from KAAA; granted, my report to them for state #33 wasn't a literary masterpiece, but I didn't think it was quite that bad, hi. Till next time, 73s and good DX from the only town-in the smallest county-in the Greatest State-in ALL OF DIXIE!

~~~~~ John Zondlo  
**eastern dx forum** 6617 Maryland  
 ~~~~~ Hammond, IN 46323

NOTICE: This is the last weekly EDXF. Following are the upcoming deadlines: 4/2, 4/16, 4/30, 5/14, 6/4, 7/2, 7/30.

David Ball-62 Lexfield Ave.-Downsview, ON M3M LM5
 First off, welcome to Ted Bojarski! The QTH here is in metro Toronto, so as MW DXers go in this area, we're practically neighbours, hi. Be sure to look me up if you're ever in Toronto. On the subject of Top 40 radio, if you haven't seen it already, be sure to look up Gene Lees' article in the September '75 High Fidelity. I must agree 100% with his conclusions. Probably the best rock station in this area is WBEN-FM, 102.5, Buffalo, NY, which beats both CHUM-FM and the Toronto AM rockers by far. In one aspect, however, Canada has the States beat by far: namely, the informational & cultural programming of CBC-AM, which has no counterpart in the U.S. For the benefit of those of you who never listen to radio, but only DX it, check out the following CBC programs (Stn. local time): "As It Happens"--Mon-Fri 1830-2000, an award-winning news and views magazine program, hosted by Barbara Frum; "Quirks & Quarks"--an exc. program on science hosted by Dr. David Suzuki, Wednesday, immediately following "As It Happens"; "Concern"--a program on a wide variety of topical social questions, Wednesday at 2100; "Cross Country Checkup"--listener phone-in show with a different topic each week, Sunday 2200; "Inside From The Outside"--comedy at its best, Friday during the last half-hour of "As It Happens". On another subject, I must agree with Rth's comments in the 3/6 WDXF about superpower: broadcasting in NA can't be compared to broadcasting in Europe, where a few superpower stations dominate. Not much DX here lately, but I hope to get in some time at the dials in the next few weeks. Guess I'll make a last run at overtaking Rob Keeney in the Domestic Contest, hi. I'm also busy right now sending out CPC requests for tests in Sept./Oct., might as well start early on next season now that I've missed this one! So far one tentative & several non-replies. Best of 73 & remember to REPORT! -Dave.

John Zondlo-6617 Maryland-Hammond, IN 46323
 Greetings. Tis the final weekly DXM, and am I ever glad, hi. Not much in the way of DX here, as I've more or less lost interest. Only verie in here recently is from KRYT for their special. Costa Rica special heard here, even on the TRF. See y'all in two big weeks.....

WNOE AM/FM
 529 BIENVILLE ST.
 NEW ORLEANS, LA 70130
 (504)/529-1212

1060 50,000 WATTS 5,000 WATTS-NIGHT

DEADLINE

THURSDAY

APRIL 01

western! dx forum!

EDITOR: RICK HEALD
840 WARFIELD AVE., #6
OAKLAND, CA. 94610

BILL HARDY-2301 PACIFIC AVENUE-ABERDEEN, WA. 98420

And I'm back this week. Actually, I'm writing this at the same time as my Anniv Issue Forum report, because I've been so busy lately that I'm behind in telling you folks what's been happening. I've been doing something since 2/8 that I hate w/a passion - namely, getting up at 4am and going in and signing KBKW on. Six days a week. The 5.30-11.30am shift at KBKW is very involved w/lots of network taping-and-delaying, and on top of that I have to make all the local phone calls for news stories and write up all the local news, since the s/on man doubles as newsmen. It's hectic. Most days I've been there till 2pm, so it's a long day. Then on 2/26, in walks the FCC inspector, for the first time in 4 years. We'd been expecting him for a year so we were ready. This was the first FCC inspection I'd ever even seen, much less be CE for. Thank goodness the boss's first words in telling me the inspector was here were, "Stay calm". I've been KBKW's CE since June, and what I've lacked in knowledge I've had to make for in organization. Everything the inspector asked me for, I had for him in 20 seconds. So we passed w/flying colors, and the inspector said, "You've got a fine radio stn; you've got a good engineer." Needless to say, that sort of made my year. Anyway, if you've sent a Special Feature to me and haven't seen it in print yet, please be patient. I will be on this horrid early shift until they find a new s/on man, which could be a couple more weeks. (wait til you get inspected by a half-looped inspector, such as back at KSEW, what a riot, hi-RtH)

ELDON LUOMA-10653-137A ST-SURREY, B.C., CANADA-V3T 4J7

Hi everyone, welcome to the land of 50 kwers! Hopefully this will make it into the Anniv Issue, if not, that's OK too. It's been a long time since I've entered these pages. I'm 24, studying broadcast engineering, an independent broadcast researcher, am currently working on an application for a new FM stn, and hobbies include AM/FM DXing, SCs, CMs, hiking & cruising! Some of you probably know me from 1969-70 FAY FAME CORRESPONDANCE has been slack because I've been extremely busy w/above mentioned occupations, even hobbies have had to forego a lot of time. So former correspondants, pls hang tuff I will get back to you. Took a vacation/business trip last Summer to Eastern USA and Canada, saw several IRCA members and a lot of radio stns. Made at least 25 cassette tape airchecks of stns there. I also collect photos of stns so if you want to swap pictures of your local stns for pix of the Van Ian 50kw giants let me know (I collect mainly studio photos of bldgs, but also XR sites to a limited extent). Also, I have tapes of the latest CRIC Hearings (mainly about CATV) for anyone interested. Anyone interested in exchanging airchecks by cassette let me know, send me your locals and I'll do likewise. I prefer cassette, but reel-reel (3 3/4 - 7 1/2 up to 7" reels) and 8 track recorders. DX-wise I've hrd 417 stns w/117 varied. Latest is KATA 1340 Arcata varied by a letterhead coverage map! So far this year, I've hrd 20 new stns. One of my most wanted 50 kwers is 1050 CHUM, how I envy all you California DXers that have gotten this one lately! So much for now, next Forum report I'll describe equipment I use. Take care and the best of DX in '76 with 73.

BILL HARANG-811 NEVADA AVENUE-SAN JOSE, CA. 95125
Ph: (408) 292-8198

It was on Tue night, 4/15/75 that KDWN DJ Jack London said, "I'd love to hear from you tonight, wherever you may be, whether you're listening to us from Sacramento, maybe San Francisco, San Mateo. I really appreciate the guys that have been sending the letters. You know, it's really nice to receive mail---especially from the folks out of town that are listening to us here on the Jack London Go-Around; one of which is a very nice letter from Gary Parton. We thank you Gary, for the kind letter and that. And Albert Lobel of El Cajon, CA sent us a nice picture and also a tape recording of the show which he was recording and listening to us in El Cajon, CA. El Cajon is a suburb of San Diego. He typed us up a nice letter. And in the event that you'd like to phone us or give us a couple words of encouragement or what have you, we would certainly love to hear from you by all means. Simply mail it to: Radio Station KDWN, in c/o the Union Plaza Hotel, No 1 Main St., Las Vegas, NV 89101." The average dialed telephone uses lines w/very limited frequency response, perhaps 400-2000 cycles; sometimes better. However, leased telephone lines for broadcast purposes are available in a variety of frequency response curves. The basic unqualified line, used for most voice- only remotes by most stns

top out at about 5kc, but already are rolling off. Equalized lines, costing progressively more, are available w/response to 5kc and up. As KEX PD Eric Norberg pointed out to me, KEX and KMPC use 15kc lines to XR. KEX will probably install a microwave link in a year or so, since despite the frequency response, there tends to be a loss of transient response on landlines, due to phase shift. Leased telephone lines are different lines than are used for phone calls, so there is usually no dialing pulses or other phone lines. KIQI's CM shows them putting a .5 mv/m groundwave signal into: Modesto, Carmel, Los Banos, Pittsburg (CA, that is), Colverdale, and Plantation. (And that "Turkey" wants still more power?-RtH)

RICK HEALD-840 WARFIELD AVENUE #6-OAKLAND, CA. 94610

Greetings, etc!! Yes folks, you read quite correctly, RtH has done moved again, please make note. Hopefully, this will be for a longer period than previous address. All mail is being forwarded, in fact, I'm on the same route as before, so all postman has done is moved my mail from one slot to another. New QTH is all of 2 blks from previous QTH, this time on the windward rather than leeward side of the hill. Have a view of beautiful downtown Oakland, and the giant TV tower atop SF's Mt. Sutro. Nulling certain locals not as good as before, so guess hill did make a little difference in blocking out signals. I was only 30ft below hilltop before, now about same down the other side of same hill. This now gives me a clear shot to the West, just in time for what had better be good for TPs & DUs. Did note KEEN 1370 off last SM at (3/14) 0245 PST, usually AN 6, SP MM. Noted the usual stuff there, dominated (if you can call it that) by CHPQ. To my knowledge, not since the NRC Convention in Denver '63 (birth of IRCA) has a club had Commemorative QSL Cards, and thanks to Charles Wolff, the San Francisco 1976 IRCA Convention will have them. If you'd like to verify or re-verify KVON or KWUN, you'll get one. Have submitted a proposal at KNBR w/their GM for KNBR to use them. Bill Harang, your mention of KIQI's CM brings up the question, if he's getting a .5 mv/m signal into Modesto, in KIQI's deepest null, then why a power increase request? Proof that all he's interested in, simply, power. After all, he's got the most powerful FM stn in the West, therefore less than maximum power for the AM would be out of the question. Like I mentioned in a Forum several months back, in King City, 150 mi S of SF, KIQI had a great signal on my Sony, w/KCMJ null'd, of course. I must admit though, K-101 is about all the choice we have here in the Bay Area for Pop mx. KFRC has been called "a new low in radio" by the Chronicle, and then there's KYA, always second rate, was second to KFRC, then KEMW, and even second to KOBY back in the 50's. Philadelphia, would you do us a big favor in the Bay Area? Take back Dr. Donald D. Rose, put him on a boat in the middle of the Delaware and crash and sink it in Camden? His jokes must come from the same book he used back in his WQXI days, then polluted WIBG with them and now the Big Sick-Ten, K-FaRce. Bi-weekly now, monthly very shortly. Good DX to all, and contrary to Rittenhouse's statement, this is not 3 dot journalism. 73 de RtH..

CONDITION OF FREQUENCIES LIST

H John Clements, 11425 Albers St #5, North Hollywood, CA, 91601

The Condition of Frequencies is an aid for the DXer which lists days that stations are on or off between 12 and 5 AM local time. This allows a DXer on a given day to narrow down his possibilities as to who a station can or can not be. This list hasn't appeared much recently because of the meager conditions and consequent meager contributions. However, since this season is much better, I think it is time for the list to appear again. I need the following information: call, freq, state, days, and times the station is on or off the air between 12-5 AM. If you know a station is on after 12 but are not sure if it goes off, use "AN" (All Night). If it never goes off except for once in a while, use "NSP" (No Silent Period). If you know only the days but not the times, just put the days down. There seems to be a trend away from NSPers here in Los Angeles. The latest to go off are KPOL-1540 and KWKW-1300, both on Monday mornings. If the rest of the country is following suit, then there is no reason why we can't have a really good size list.

DX Worldwide



BRUCE PORTZER,
Editor

All times GMT/UTC
Deadline Saturdays

7021 Sand Point Way NE, #215 - Seattle, WA 98115 - 206-522-2521

Hi gang! Before we begin this week's DXWW, here's a hot tip on a new station:

CAYMAN ISLANDS. According to a letter from the station, R. Cayman is not yet on the air, but hopes to be on sometime in April. They are presently waiting for final installation of their transmitting equipment. The info as listed in 76 WRTH is for the most part correct; they will be on 1205 & 1555 kHz and will be on until approx 2230 EST, with about 90 hours a week of on-the-air time. (Keeney)

ATLANTIC DX ROUNDUP

- 764 SENEGAL, Dakar in clear at 0558 s/on 3/1 w/WABC off; that was the last MM so far that cx favored good reception. WJR splash bothersome, though. (Foxworth, NY)
- 11439 LUXEMBOURG, Absolutely the best reception ever from this one all Sunday eve 2/29, which was 0040-0300 s/off 3/1 during very unusual cx. They were just blasting in here, pops show, some memory stuff (Glenn Miller, etc) & lots easier here than on 6090; enjoyable listening, remarkably fade-free. All the usual high-end Germans were really potent then, too. Wish someone would explain why all this good high end TA reception has been happening during active geomag cx, w/K-indices of 4 & 5, as has been the case several times this season. (Foxworth, NY)
- 1502 ? UNID, a sig here 0645 3/15 & likewise one on 1578. All the EU's out by this late hour & think these may be W. Africans. 1578 by the way was 2 carriers w/ approx 250 Hz het on the freq. Some weak audio, unreadable on both. (Foxworth, NY)
- 1502 POLAND, This should be the unid "w/седате mx." Hrd again 0710 3/1 & WRTH says Poland here w/c1 svc then; agrees with signal observations. (Foxworth, NY)
- 1525 CHINA, Ürümqi, there has been occasional carrier noted here around 2330 some days in early March (checked only on weekends) but no good signal. This one is best, too, when geomag cx are "active" or "unsettled". New Chinese orthography--this one is now "Wulumuqi, Xinjiang" & suggest we so adopt. (Foxworth, NY) (I agree & will attempt to do the same on other Chinese locations. However, my official Chinese map (printed in Beijing in 1974) shows this as Ürümqi; which is correct? bp)
- 1602 WEST GERMANY, BR best of season, as good as WWRL here 0200 3/1, no trouble separating them. (Foxworth, NY)

PAN AMERICAN DX ROUNDUP

- 625*****COSTA RICA, San José, R. Millón 3/8 0741 great on ET. OM in EE & YL in SS. R. Millón IDs, lots of slop from KTAR-620 & KHOW-630. S9 on HQ-180, 26 db o/S9 on SPR4. Also said testing on SW on 9615 kHz. (Hanavan, CA) --- 0600 3/8 w/scheduled test. In w/S-9 sig despite KTAR-620 not signing off per info in NRC log at 0200 EST. Was quite surprised at the address of a prominent IRCA/NRC member being given as person to send rpts to; mine is out (a taped rpt). Hope the FCC was listening to that one & got a good dose of what a high pwred xr is capable of. (Lobel, CA) --- 3/8 0552 Loud & steady w/EE ID by OM, then SS ID by YL. Signal faded amid rapidly varying TT which followed. Little splash from 620 or 630. (Hall-Patch, BC) --- Test from R. Millón hrd ok MM 3/8. OC 0600, pgmg hrd 0610 thru tuneout 0735, repeating amnts in EE/SS/PP & rapid audio sweep osc making a "bird chirp" effect. Certainly as good a C.R. sig as ever hrd here, but did not quite seem like a megawatt. Shallow modulation, too, & moderate fading; several carrier breaks noted, e.g. 0703. Reception was generally about as good as R. Paradise is normally hrd here, WPRO splash a problem. Reported to the FL addr given (which is RFS' mailbox!). Not hrd since, tho haven't really tried. The previous night, Omega-625 was hrd w/normal sig/pgmg, are they off now? (Foxworth, NY) (Don't think so, I believe RFS told me the R. Millón owners had worked out a special deal w/the owners of Omega. bp) --- in like a mad dog 0700 3/8. Not related to R. Omega, TIXE. (Taylor, IN) (Agreed. Ngr is it R. Millón, which is what most rpters have reported it as. bp)
- 750 COLOMBIA, Medellín, HJDK, noted poor-fair fighting unid CC OBTO 3/1 w/Caracol ID preceded by string mx & followed by brass mx. (Hall-Patch, BC)
- 880 t BRAZIL, Belo Horizonte, WCBS silent for quarterly maintenance ck 0800 3/1 & Cuban up high as usual. This week they seemed to be right on freq. A 4 Hz SAH 0805 & PP

- 1210 audio came up briefly, am 90% sure it was R. Inconfidencia. WCBS went on w/dummy load ant just then (which is hrd S6 here, blocking channel); sharp loop null on Cuban allows no room to play. A careful check for any sign of NZ was negative, there seems to be possibility that early per SR-SS maps. (Foxworth, NY)
- 1590 CUBA, WCAU was off Thur AM 3/9, at 0738 noted R. Relej on 1209 and another weaker 1A on 1210. The QRM on the high side, often noted as hets in the evening, seemed to be off the air then. (Foxworth, NY)
- MEXICO, Ensenada, XEHC, R. Bahia, ID at 1928. A few ads. (Hanavan, CA) (Date? bp)

PACIFIC DX ROUNDUP

- 625 N. KOREA, Haeju //655 w/3 low & 1 high pip 1200 3/22, then inst mx. (Bytheway, WA)
- 635 N. KOREA, Chongjin good 1121 3/22 w/man talking in KK, not 77 655. (Bytheway, WA)
- 647 USSR, Iman booming in w/Russian NA 1358 3/22, then Kremlin Chimes 1400. Talk by YL followed. (Bytheway, WA) (WRTH lists this as 1000 kw. bp)
- 655 N. KOREA, Pyongyang 3/16 1345-50 tuneout w/spirited speech by OM. KK amnts 1350, then speech continued. Fair signal. (Williams, OR)
- 712 S. KOREA, Seoul, HLKA putting wicked het against KMPC 0832 3/22. Fair-poor w/bits of chorale mx & male talk in KK. (Portzer, WA)
- 750 ALASKA, Anchorage, KPQD booming in w/local-like signal 0730 3/22 w/rr oldies, mx headlines & temperatures given in centigrade. (Portzer, WA)
- 780 t JAPAN, fair w/JJ talk 1323 3/22. (Bytheway, WA)
- 780 t NEW ZEALAND, Dunedin, HYA fair 3/22 w/jazz & accented EE 1226. Sounded like DJ show w/short amnts between records. 1242 mentioned "Downtown ---", 1300 6 pips & mx, 1304 mx pgm. (Bytheway, WA)
- 830 JAPAN, Osaka, JOBB 1403 3/16 w/EE pgm, talk about poetry in the EE language, fair. (Williams, OR)
- 840 ? UNID, woman talking in unid oriental lang 0911 3/22 way u/WHAS, bits of opera type mx noted around 0924. Prob the Russian. (Portzer/Bytheway, WA)
- 870 t JAPAN, Kumamoto, JOGB good 1325 3/22 //830/770. (Bytheway)
- 973 t USSR, Yuzhno-Sakhalinsk, 3/16 very weak 1335-1341 (lost) - cl piano mx, no amnts; severe adjacent channel slop. (Williams, OR)
- 1020 CHINA, 3/22 1131 1/2 w/man & woman in CC jabbering back & forth. Good signal. (Bytheway, WA)
- 1210 t CHINA, 0303 3/22 w/woman talking in oriental language, sounded like CC; weak-fair. (Bytheway, WA)

INTERNATIONAL QSL ROUNDUP

- 530 AUSTRALIA, Dalwallinu, 6DL sent usual ABC card in about 12-14 days. Rpt sent to ABC address in WRTH. (Williams)
- 660 NEW ZEALAND, R. New Zealand card for 1/19 reception of 2YC-560, Wellington. Signed by manager, but signature unreadable. (Hall-Patch, BC)
- 660 AUSTRALIA, 2BY. Same as 6DL-530. (Williams, OR)
- 700 AUSTRALIA, 2NR. Same as 6DL-530. (Williams, OR)
- 1020 TONGA, Nuku'alofa, A3Z card for 1/13 reception. This one is very welcome as my rpt was tentative due to lack of readable IDs. Postage stamps on card are shaped like bananas--a stamp collector's nightmare! (Hall-Patch)

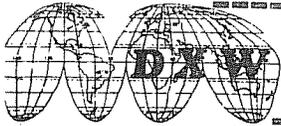
CONTRIBUTORS

A tip of the hat and a spin of the loop go out this time to:

- Phil Bytheway, 6635 57th NE, Seattle, WA 98115
HQ-150, SM-1
- Bob Foxworth, GPO Box 2111, New York, NY 10001
HQ-150+SB-620, GPR-90, 2 IWS, SM-2A
- Nick Hall-Patch, 3272 Alder St., Victoria, BC V8X 1P2
National HRO, h' Box loop
- Brett Hanavan, 845 First Avenue, Chula Vista, CA 92011
HQ-180, SPR-4
- Albert Lobel, 247 N. First St., Apt 27, El Cajon, CA 92021
DX-150, Sanserino loop
- Bruce Portzer, HQ-180A, SM-2
- Charles Taylor, 939 Eastern Ave., Indianapolis, IN 46201
AR-88, ISCA-1
- Dave Williams, Box 615, Hwy 101, Astoria, OR 97103
Collins 75S-3C w/converter & SM-1
- Oops, also Rob Keeney, who sent his item in by phone.....



Radio Nacional de España



CHARLES A. TAYLOR, Editor

939 EASTERN AVE.

INDIANAPOLIS, IN 46201

DXWW II No. 44 Phone: 317-638-4166; 0030 to 0300Z, Mon-Sat; Sun 1300-0300Z.

Brazil (MW) PRE2, R. Vera Cruz in Rio de Janeiro has now become ZYEBB, R. America. Schedule is 24 hrs. Address: Rua Buenos Aires 168, 2º Andar, CEP 20.000, Rio de Janeiro

Channel Islands (MW) Decision on a MW station is expected late 1975 or early 1976. There is anathy toward Local Radio...more interested in Colour TV. (Ken Toms)

Brunei (SWNS) (out of order, sorry) Brunei (pronounced Broo Nay, ed.) is in the process of ordering four, 100-kW mediumwave transmitters, which will probably be used in pairs, i.e. as two 200-kW transmitters.

Gilbert and Ellice Islands Gilbert and Ellice Islands have split. The Ellice Islands are now known as Tuvalu and are said to be planning to set up their own broadcast service.

Liechtenstein (SWNS) R. Liechtenstein will be a 500-kW commercial station owned by Jean Frey, a Swiss publisher, who beat out German publishing king Axel Springer for the license. When the new frequency plans comes into effect, R. Liechtenstein will operate on 1386 kHz. For those interested in history, the British firm of Roditi International Corporation negotiated in 1937 for the Liechtenstein radio rights, with plans to broadcast ads to England; but the plan was cancelled when World War II broke out. (4 February Variety via R. L. Foxworth)

Mozambique The Frelimo have renamed Lourenço Marques as Maputo, not Can Phomo as originally planned. The new name should not be confused with a town of the same name in Natal. (Denzil V. Baker, Durban, R.S.A.)

Sri Lanka (SWNS) According to Radio Sweden, Voice of Germany and Iran are building a joint relay here: one 600-kW MW and three 250-kW SW transmitters.

Publications (some notes from Charles Keleher on the new WRTH 76 and the current Gilfer catalog.)

-QSL Albums are up to \$9.45 each. Rats!

-Gilfer now has available SWL Address Book by Gerry Dexter. This can be a valuable tool to the BCB QSL seeker (i.e. MW BCB, ed.) as well. If you have WRTH, you can usually figure out which foreign stations have MW parallels to their SW operations. It is quite likely that a station which is a good verifier on SW will have the "machinery" set up for verifying and is potentially a good verifier on MW. SWL Address Book has a wealth of info on verie policies of specific stations, and should be most valuable to anyone who doesn't like spending money on exorbitant postage rates and not getting answers (which included most of us).

-The new WRTH does not appear to be of much better quality construction than the 1975 issue. It does have a special section on DXing, including an interesting and detailed review of several portable receivers, and interesting articles on MW DXing by Thom Sundstrom and Philippine broadcasting by some whippy Hoosier.

(ed note: the special section is the incorporated How to Listen to the World.)

An Opinion on the Status of DX Clubs (SWNS) by Steve Kamp.

While researching a college paper, I came across a list of DX-related articles in legal periodicals between 1960-75. This list of 35 articles was culled from the "Radio" heading of the Index to Legal Periodicals and took less than two hours to compile. Subjects include shortwave broadcast, pirate radio, FCC clear-channel policy, US/VE/XE border warfare, RF spectrum problems, and direct broadcast satellites. Meanwhile a cursory glance at the Public Affairs Information Service reveals a number of additional, DX-related articles in other academic journals. The fact that the existence of these articles has gone almost entirely unnoticed by the DX sub-culture might be described as a "scandal".

On the flip side of the coin, Glenn Hauser in NASWA's Jan FRENEX laments the fact that the editor of International Listener is unaware of NASWA's existence. That's hardly surprising, because NASWA, in this context, simply doesn't exist: their publications are not indexed by PAIS nor are they catalogued by the Library of Congress. Someone researching SW radio would naturally go to PAIS and LoFC listings first, and since these don't list DX club publications, the researcher would be unaware of them. Since this is (World, ed.) DX Club Year, might it not be a good idea to get DX publications in PAIS and the Library of Congress?

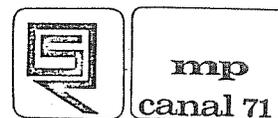
And what about university libraries? I can walk into any library on the UCLA campus and find articles about DXing—by Hauser, C.M. Stanbury and others in Popular Electronics and the defunct Electronics Illustrated, but I can't find any DX bulletins. Now this is not to say that DX clubs don't exist at all in university libraries—for example it is quite easy to find volume 15 of December magazine which contains a scathing critique of the DX sub-culture by GMS ("CIA Shortwave: Through the Looking Glass 1973"), but nowhere are DX club bulletins to be found!

To sum up, there is a large body of material bearing directly on DX-related subjects of which the DX sub-culture is entirely unaware even though it is indexed in widely-used periodical indexes. Moreover, DX club publications are not listed in these indexes, thus researchers in these areas are unaware of DX clubs as are most of the roughly two million Americans who own shortwave receivers. And if they did become aware, they would probably be turned off by overemphasis on the technical side of the hobby and subsequent underemphasis of "controversial" areas such as the clandestine aspects of international broadcasting (only CIDXC, IRCA and NASWA devote significant space to this subject) and pirate radio, and by slipshod appearance, ungrammatical and poorly written articles.

Five points come to mind after reading Steve's Opinion:

1. I've seen much of the DX-related material to which Steve refers. I hesitate to print it because, as I've already experienced, some individuals will complain of the "esoterica".
2. If all this material were printed, wouldn't we be getting so far afield of DX as to make our DX publications irrelevant to the true DXer? As has been written and said privately to me, it perhaps appears that DX publications are ceasing to have anything at all to do with DX in the traditional sense of the term. I don't necessarily agree with this mode of thinking, but it deserves recognition.
3. Perhaps we had better be thankful that the "roughly two million Americans who own shortwave receivers" don't belong to DX clubs. The though staggers: would DX become the "bread and circuses for the masses" that professional "sports" already are?
4. Technical articles are in constant demand, according to IRCA HQ.
5. Ungrammatical and poorly written articles are to be expected of a generation to whom, perhaps, the art of clear, expressive writing has ceased to be (to use the current catchword) "meaningful".

To those whom I may have offended in last number of DXWW II by referring to certain U.S. cities (including my own) as "snot-nosed, hick-towns", I apologize publicly. However, I still feel that Durban, R.S.A. rather severely outclasses many "cosmopolitan" U.S. cities. Open mouth, insert foot. 73 de *Charlie*



radiatorama



 Editor: Bill Hardy *
 2301 Pacific Ave. *
 Aberdeen, WA, 98520 *

Special Features

NEW "TWO-TONE" SYSTEM DUE APRIL 15th FOR E.B.S. The week of April 11th

thru 17th, you'll probably be hearing a lot of stations running equipment tests (ET's) with a funny two-tone transmission which you've never noticed before, but which you'll be hearing on all AM, FM, and TV stations with more than 10 watts power in the future.

What you'll be hearing is tests of the brand new tone-sending equipment for EBS, the Emergency Broadcast System, that all broadcast stations (except 10-watt educational FM's) will be required to have by FCC regulations, effective April 15, 1976.

You've probably heard an "EBS test" sometime in your lifetime on a local station. (You generally don't hear them during DXing hours because they must be run randomly, once a week, between 8:30 a.m. and local sunset.) This is the announcement with "This is a test. For the next 60 seconds this station will..." etc., then some tones, followed by "If this had been an actual emergency you would have been instructed where in your area to tune...". Even TV stations run this on their audio transmitters.

Since the early 1960's, when EBS replaced CONELRAD (remember the CONELRAD frequencies, 640 & 1240 kHz? Some older radios still have them marked!), the EBS test has featured an alerting system where the transmitter is turned off twice for 5 seconds apiece, then a 1000-Hz tone is aired for 15 seconds, followed by the rest of the EBS script.

The old procedure, called the "Attention Signal," called for each station to cut the carrier (i.e. signal) off the air for 5 seconds, return it to the air for 5 seconds, cut it off again for another 5 seconds (a total of 15 seconds of silence, as far as the audience is concerned), then run the 1-kHz tone for 15 seconds. TV stations cut only the sound carrier signal.

Every broadcast station in the U.S. is constantly monitoring some other broadcast station (generally the highest-power AM station in the local or state area) with a special receiver that remains silent normally, but pops on whenever the station it is monitoring sends out the Attention Signal.

Each station is to send out this signal whenever it receives an EBS alert, whether from AP or UPI teletypes, a radio or TV network (which have their own tone procedures), or another station over-the-air. In this way, each station can send the EBS alert down the line until all stations in the country receive it, within a matter of minutes, like a string of dominoes falling down in succession.

Each station tests the EBS each week to be sure the equipment that receives the Attention Signal is in good working order at all stations monitoring that station. 10-watt FM's are exempted from sending the tests, because the FCC figures that no station would need to monitor such a small station with more powerful key stations available; but the 10-watt FM's do have to have equipment that can receive the Attention Signal from another station.

While the basic practice of random tests of the Attention Signal each week and requiring each station to monitor a key EBS station is not being changed, the method of sending the Attention Signal is being changed. And that's why every station has to invest in new equipment, worth up to \$500 per station. Almost every station is facing a minimum outlay of \$150 to \$200, even if they tie in with their existing EBS receiver, because they need a brand new piece of equipment to send out the tones - they can't just play a tape cartridge with the tones, because the audio frequencies have to be precise within $\frac{1}{2}$ Hertz. Since most stations have EBS receivers dating back to the 1960's, most of which are getting to be in shabby, unreliable condition, many stations are laying out from \$300 to \$500 for all-new receiving equipment as well. (Perhaps some DXers can make use of the surplus old receivers, which will be virtually useless to most stations after April 15th?)

The tone you will hear is actually a composite of two tones, within half a Hertz of the audio frequencies 855 and 960 Hertz. Checking Ron Schatz's article, "Whistle a Happy Het?" in the 3/23/74 DXNW (IRCA's 10th Anniversary Issue!), these two frequencies are sandwiched in between the musical notes of G# and A, and between Bb and B, above "High C" on a piano or guitar. The idea is that these notes are very close in musical pitch, much longer than would be held in a popular song or even a drawn-out classical or jazz work, so that it is highly unlikely that a station would run these two tones at a minimum 40% modulation for the 8 to 10 seconds it will take a receiver to detect the two tones and activate a muted speaker so that the receiving station can hear the test. The station will be required to send the tones for a full 20 to 25 seconds. The station will NOT turn its carrier signal off the air with the new system.

Why all the fuss about changing the EBS Attention Signal and making thousands of broadcast stations buy new gear to send and receive it?

The old system has not been as reliable as had been hoped for when it was adopted in the 1960's. EBS receivers at stations were activated by a cut of 2 to 4 seconds in the key station's carrier (i.e., longer than the time necessary to change power and/or antenna pattern at sunrise or sunset, but less than the 5-second signal cutoff used in the EBS alert or test). This worked fine much of the time, but if the station left the air for any reason, or if the signal had a deep slow fade (such as a nighttime skywave signal from out of town), the receiver would be activated. Some of the less expensive EBS receivers would activate any time the key station left the air, with no time delay. Sometimes these irregular outbursts from the EBS receiver would be so annoying that deejays would simply turn the receiver completely off, in violation of FCC rules that say it must be operational any time the station is transmitting. Some "star-bound" rock deejays just can't be "bothered" with such "unnecessary legalities" as keeping an EBS receiver on (I suppose "reading news" falls in the same category for some "budding super-stars," hi). The new system will provide fewer false alerts, since it'll take the tones to activate it, and so it should provide more reliable service.

This new two-tone system must be operational on Thursday, April 15, 1976. Up through April 14th, the old cut-the-carrier, play-the-tape-with-the-1000-Hertz-tone system continues in effect.

So we DXers can expect to hear a number of stations testing their new gear in early April. Be aware that some stations with redundant stations (namely auxiliary transmitters, production studios, and dummy antennas) can test the system on their regular gear while continuing regular programming on the air from the standby facilities into the main antenna, and thereby test the new equipment without testing it on the air. But I think you can expect many stations to test their new EBS equipment during their silent periods up to April 15th (and perhaps right after that date if it's not functioning correctly yet). Best dates to watch will be MM 4/12, Thursday morning 4/15, the two intervening mornings (Tues. 4/13 & Wed. 4/14), and for those stations with Sunday-morning maintenance and silent periods, Sunday morning 4/11.

Good luck!
 --Bill Hardy, IRCA Special Features Editor.

ANOTHER PIRATE BITES THE DUST

The following letter from the FCC (retyped at IRCA HQ) was sent in by Thomas H. White, Arlington, VA:

March 5, 1976 - G

FCC CLOSES UNLICENSED RADIO STATION IN VIRGINIA

The Federal Communications Commission announced today it had closed an unauthorized radio station in Charlottesville, Va.

The station, using the call letters WHGC, was operating with 50 watts power on the 1606 frequency, at the top of the radio dial. It was located in the Holy Temple Church of God and Christ, and had been home-built by John Brown, the 20-year-old son of the minister, FCC agents reported.

Programming gospel music, the station had been heard throughout the Charlottesville area for some months, said Jerry Freeman, head of the FCC's Norfolk, Va., office, whose inspectors closed the station last night. It had been heard more than 100 miles away at the FCC Monitoring Station in Laurel, Md., he added.

Under the Communications Act, operation of an unlicensed station on an unauthorized frequency can bring severe penalties -- a fine of up to \$10,000 and a term of up to a year in jail.

-FCC-

GOODBYE WHGC The FCC announced on March 5th that it had closed down an unauthorized 50-watt AM station in Charlottesville, Va. The FCC said that the station was using call letters WHGC at the top of the radio dial on 1606 kHz. The commission said that the station was located in the Holy Temple Church of God and Christ in Charlottesville, and had been homebuilt by John Brown, the 20-year-old son of the minister. FCC agents shut down the station after the station was reportedly monitored more than 100 miles away. (From 3/15/76 Broadcasting, used by permission.)

MEXICAN BROADCAST STATIONS NOTIFICATIONS TO THE FCC

Mexican List No. 275 from the Federal Register via Glenn Hauser.

| | Day | Nite | | |
|-------------|-------|-------|-----------------------------------|---------------------------------|
| new 600 | 500 | | Palenque, Chis. | CP |
| XEJB 630 | 5000 | 500 | Guadalajara, Jal. | from lkw-D, 500w-N |
| new 650 | 250 | | Mérida, Yuc. | CP |
| XERPM 660 | 50000 | 5000 | México, D.F. | from 10kw-D, 5kw-N |
| new 660 | 1000 | | Jerez, Zac. | CP |
| new 700 | 250 | | Tamazunchale, S.L.P. | CP |
| XEDP 710 | 5000 | | Ciudad Cuauhtémoc, Chih. | new |
| XEABC 760 | 20000 | 5000 | México, D.F. | from 5kw-D |
| new 770 | 5000 | | Juchitán, Oax. | CP |
| XEZN 780 | 500 | | Celaya, Gto. | from 250w-D |
| XEIM 810 | 500 | | Saltillo, Coah. | new |
| new 810 | 1000 | 150 | Acapulco, Gro. | CP |
| new 870 | 250 | | Puerto Escondido, Oax. | CP |
| XEW- 900 | 1000 | | Querétaro, Qro. | CP |
| XEW- 900 | 5000 | | Mazatlán, Sin. | CP |
| XEWB 900 | 50000 | 10000 | Veracruz, Ver. | from 50kw-D, 5kw-N |
| new 920 | 2500 | 200 | Ensenada, B.C. | was XEHC-1590 |
| XEFY 950 | 500 | 250 | Cortazar, Gto. | CP |
| new 1020 | 2000 | | Oaxaca, Oax. | CP |
| new 1020 | 500 | | Álamo, Ver. | CP |
| new 1030 | 1500 | | Acapulco, Gro. | CP |
| new 1040 | 250 | | Colima, Col. | CP |
| XEEP 1060 | 50000 | 50000 | México, D.F. | from 5kw-D, 500w-N |
| new 1070 | 1000 | | Guerrero Negro, B.C.S. | CP |
| new 1070 | 1000 | 100 | Venustiano Carranza, Chis. | CP |
| new 1070 | 2000 | | Zihuatanejo, Gro. | CP |
| new 1070 | 250 | | San Luis Potosí, S.L.P. | CP |
| new 1070 | 1000 | | Tantoyucan, Ver. | CP |
| new 1080 | 250 | | Aguascalientes, Ags. | CP |
| new 1080 | 500 | | Cancún, Q.Roo | CP |
| new 1080 | 1000 | | Los Mochis, Sin. | CP |
| new 1090 | 250 | | Ocotlan de Morelos, Oax. | CP |
| new 1090 | 5000 | | Panuco, Ver. | CP |
| new 1110 | 1000 | | Puerto Vallarta, Jal. | CP |
| new 1110 | 250 | | Naranjos, Ver. | CP, was at Álamo, Ver. on 1100. |
| new 1120 | 500 | | Melchor Ocampo de Balsas, Mich. | CP |
| new 1120 | 250 | | Cancún, Q.Roo | CP |
| new 1140 | 250 | | Campeche, Camp. | CP |
| XEMR 1140 | 50000 | 50000 | Monterrey, N.L. | from 10kw-D, 350w-N |
| XEIU 1160 | 500 | | Oaxaca, Oax. | new |
| new 1170 | 1000 | | Bahia de Kino, Son. | CP |
| XEIB 1170 | 250 | | Caborca, Son. | from XEGV |
| new 1180 | 1000 | | Tuxtla Gutiérrez, Chis. | CP |
| XEWK 1190 | 50000 | 50000 | Guadalajara, Jal. | from 50kw-D, 10kw-N |
| XEIV 1190 | 500 | | Oaxaca, Oax. | new |
| new 1190 | 5000 | | Tampico, Tams. | CP |
| new 1200 | 1000 | | Culiacán, Sin. | CP |
| new 1200 | 1000 | | Hermosillo, Son. | CP |
| new 1250 | 250 | | Puruandiro, Mich. | CP |
| new 1270 | 250 | 100 | Taxco, Gro. | CP |
| new 1270 | 2500 | 500 | Umán, Yuc. | CP, was XEYUC at Merida, Yuc. |
| new 1280 | 500 | | Guerrero Negro, B.C.S. | CP |
| new 1300 | 1000 | | Ramos Arispe, Coah. | CP |
| XEHU 1300 | 5000 | 100 | Martínez de la Torre, Ver. | from lkw-D, 500w-N |
| new 1330 | 500 | | Manzanillo, Col. | CP |
| XECI 1340 | 1000 | 250 | Acapulco, Gro. | from 250w |
| new 1340 | 1000 | 250 | Apatzingán, Mich. | CP |
| new 1340 | 1000 | | Villa de Seris, Son. | CP |
| XEYR 1340 | 500 | 150 | Teapa, Tab. | from 250w-D |
| new 1350 | 1000 | | León, Gto. | CP |
| XESV 1370 | 500 | | Morelia, Mich. | new |
| XEVD 1380 | 500 | | Ciudad Allende, Coah. | CP |
| new 1380 | 5000 | | Atoyac de Álvarez, Gro. | CP |
| new 1390 | 1000 | 100 | Guamúchil, Sin. | CP |
| XEARO 1400 | 1000 | 250 | Nueva Rosita, Coah. | from lkw-D, 150w-N |
| XEOJ 1400 | 1000 | 100 | Melchor Ocampo, Mich. | CP |
| XELRY 1400 | 250 | 100 | Linares, N.L. | from XELR (?) |
| new 1410 | 500 | | Zihuatanejo, Gro. | CP |
| new 1430 | 300 | 200 | San Cristóbal de las Casas, Chis. | CP |
| new 1430 | 1500 | 100 | Colima, Col. | CP |
| new 1430 | 250 | | Río Verde, S.L.P. | CP, from |
| XETUN- 1440 | 1000 | 150 | San Luis Potosí, S.L.P. | 1kw |
| new 1440 | 5000 | | Pichucalco, Chis. | CP |
| new 1440 | 5000 | | Uruapan, Mich. | CP, from |
| XEEK | | | Cherán, Mich. | 1kw-D |

| | | | | |
|------------|-------|-------|--------------------------|---------------------|
| XEIE 1450 | 1000 | 200 | Matehuala, S.L.P. | CP |
| XEZC 1450 | 500 | 250 | Río Grande, Zac. | from 250w |
| new 1460 | 5000 | 250 | Ciudad Jiménez, Chih. | CP |
| new 1460 | 200 | 100 | Guadalupe Victoria, Dgo. | CP |
| new 1470 | 500 | 150 | Reforma, Chis. | CP |
| new 1480 | 1000 | | Atlixco, Pue. | CP |
| new 1480 | 250 | | Hermosillo, Son. | CP |
| new 1480 | 250 | | Río Blanco, Ver. | CP |
| new 1490 | 1000 | 100 | Ciudad Cuauhtémoc, Chih. | CP |
| new 1490 | 500 | 100 | Benjamin Hill, Son. | CP |
| XERH 1500 | 20000 | 20000 | México, D.F. | from 20kw-D, 5kw-N |
| XEUV 1500 | 500 | 250 | Villahermosa, Tab. | from 250w |
| XEOF 1510 | 5000 | | Cortazar, Gto. | from 500w-D |
| new 1510 | 500 | | Puerto Vallarta, Jal. | CP |
| new 1510 | 500 | | Melchor Ocampo, Mich. | CP |
| new 1520 | 1000 | | Guadalajara, Jal. | CP |
| XECGP 1520 | 500 | | Morelia, Mich. | CP |
| XESZ 1520 | 250 | | Cholula, Pue. | CP |
| new 1520 | 1000 | | Empalme, Son. | CP |
| new 1530 | 250 | | Chihuahua, Chih. | CP |
| new 1530 | 500 | | Oaxaca, Oax. | CP |
| new 1540 | 1000 | | Ciudad Delicias, Chih. | CP |
| new 1540 | 250 | | Torreón, Coah. | CP |
| new 1540 | 250 | | Durango, Dgo. | CP |
| new 1540 | 500 | | Coahuayana, Mich. | CP |
| new 1540 | 250 | | Cuernavaca, Mor. | CP |
| new 1540 | 5000 | | Santa Catarina, N.L. | CP |
| XEYN 1540 | 5000 | 5000 | Hermosillo, Son. | CP |
| new 1540 | 500 | | Villahermosa, Tab. | CP |
| XEAVR 1540 | 5000 | 1000 | Alvarado, Ver. | CP |
| new 1540 | 3000 | | Panuco, Ver. | CP |
| new 1540 | 1000 | | Poza Rica, Ver. | CP |
| new 1540 | 250 | | Fresnillo, Zac. | CP |
| XEVIP 1560 | 10000 | 10000 | México, D.F. | from 10kw-D, 500w-N |
| XEMAS 1560 | 1000 | 250 | Salamanca, Gto. | from XERX |
| new 1560 | 250 | | Arandas, Jal. | CP |
| XERIO 1560 | 1000 | | Ixtlán del Río, Nay. | from XERMM |
| new 1560 | 250 | | Guaymas, Son. | CP |
| new 1580 | 250 | | Saltillo, Coah. | CP |
| new 1580 | 250 | | Valle de Bravo, Méx. | CP |
| new 1580 | 250 | | Mazatlán, Sin. | CP |
| new 1580 | 250 | | Tierra Blanca, Ver. | CP |
| new 1590 | 250 | | Aguascalientes, Ags. | CP |
| new 1590 | 250 | | Irapuato, Gto. | CP |
| new 1590 | 500 | | Pihuamo, Jal. | CP |
| new 1590 | 250 | | Tepic, Nay. | CP |
| new 1590 | 250 | | Matehuala, S.L.P. | CP |
| new 1590 | 250 | | Culiacán, Sin. | CP |
| new 1590 | 250 | | Ciudad Obregón, Son. | CP |
| new 1590 | 1000 | | Ciudad Madero, Tams. | CP |
| new 1600 | 1000 | | Torreón, Coah. | CP |
| new 1600 | 1000 | | Poza Rica, Ver. | CP |

**Mexican State Abbreviations
(can be used for postal addresses)**

| | | | |
|--------|---------------------|--------|-----------------|
| Ags. | Aguascalientes | Mor. | Morelos |
| B.C. | Baja California | Nay. | Nayarit |
| B.C.S. | Baja California Sur | N.L. | Nuevo León |
| Camp. | Campeche | Oax. | Oaxaca |
| Chis. | Chiapas | Pue. | Puebla |
| Chih. | Chihuahua | Qro. | Querétaro |
| Coah. | Coahuila | Q.Roo | Quintana Roo |
| Col. | Colima | S.L.P. | San Luis Potosí |
| D.F. | Distrito Federal | Sin. | Sinaloa |
| Dgo. | Durango | Son. | Sonora |
| Gto. | Guanajuato | Tab. | Tabasco |
| Gro. | Guerrero | Tams. | Tamaulipas |
| Hgo. | Hidalgo | Tlax. | Tlaxcala |
| Jal. | Jalisco | Ver. | Veracruz |
| Méx. | México | Yuc. | Yucatán |
| Mich. | Michoacan | Zac. | Zacatecas |

*Help Stamp Out
XERF*

LSCA-2

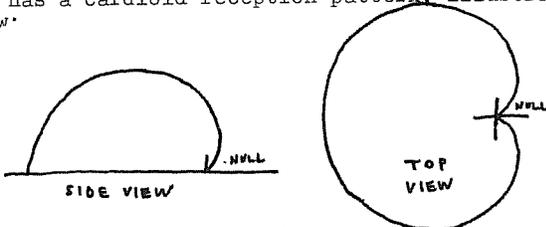
CONSTRUCTION PLANS

§ Ron Schatz §

The LSCA-2 is a practical cardioid array. Its unique reception pattern permits it to do things that are impossible with an ordinary loop; e.g.,

- 1) Separate stations lying in opposite directions (i.e., 180° apart).
- 2) Null out as much as an 180° sector of stations.
- 3) Resolve the "180° ambiguity" for DF purposes.
- 4) Under certain conditions, receive distant stations through a local in the same direction.

The reason behind these "miracles" is that the LSCA has a cardioid reception pattern, illustrated below:



The LSCA-2 is the end result of years of research and experimentation into cardioid arrays. The extreme instability, delicacy and unpredictability that once discouraged their use have largely been overcome, so that the LSCA-2 is intended to all but replace the ordinary loop for DX'ing purposes. The LSCA-2 is an advanced model of the LSCA-1, construction plans for which first appeared in the NRC's DX NEWS of 10 March 1975; new features have been added to the LSCA-2 to improve pattern control and the "cardioid effect".

The LSCA-2 may be described as a tri-sectional combination of loop, longwire, and control unit:

- 1) LOOP SECTION - a 6-turn, 2-band, low-Q, altazimuth, unbalanced spiral loop. Although it is designed primarily for use in the cardioid mode, it can serve as a better-than-average figure-8 loop as well. The altazimuth feature is for use only in the figure-8 mode.
- 2) SENSE SECTION - a "longwire" pair, one 20 to 40 meters in length, the other one-third that length, combining into a shielded lead-in. The exact length and lay of the longwire is left to the builder's experimentation.
- 3) CONTROL SECTION - a commercially-available FET amplifier along with those switches, capacitors, and potentiometers necessary for tuning and operation.

(WARNING: The LSCA-2 is three times as hard to build and to operate than an ordinary loop. Experience in loop construction and cardioid theory is a prerequisite for building this device. This is definitely not a project for beginners!)

Parts and components used in the LSCA-2 are all commonly available; with the possible exception of the FET amplifier, no part need be specially ordered. In the United States, Calectro and Archer products are available from Heathkit, Lafayette (LRE), Radio Shack, and similar outlets in all major cities. Some Calectro part numbers are included in the following list:

LSCA-2 Parts List

(All non-relative dimensions are in centimeters).

Wooden sections:

- A) 2.7 x 2.7 x 152 cm. (loop X-arm, vertical)
- B) 2.7 x 2.7 x 150 cm. (loop X-arm, horizontal)
- C) 2.7 x 2.7 x 50 cm. (altazimuth brace, horizontal)
- D) 2.7 diameter x 100 cm. dowel (loop axle)
- E) 2.7 x 2.7 x 80 cm. (altazimuth brace, diagonal)

Plexiglas or plastic sections:

- F) 16 x 16 cm. (loop center brace)
- G) 7 x 16 cm. (control mounting board, front)
- H) 7 x 10 cm. (control mounting board, rear)
- I) 2 x 9 cm. (loop-winding spacers, 8 needed)
- J) 3 x 8 cm. (altazimuth holding plate)

Metallic parts:

- K) 7.6 x 5 x 13.3 cm. (chassis box, front section)
- L) " " " " (chassis box, rear section)

Wire and cable:

- W1) "Speaker" wire, no. 14 AWG, 25 meters.
- W2) "Speaker" wire, no. 16 AWG, 5 meters.
- W3) "Speaker" wire, any AWG, 50 meters unsplit.
- W4) Co-ax cable, RG-58/U, loop-receiver length /plus slack.
- W5) Co-ax cable, RG-58/U, loop-longwire length (2 needed) /plus slack.
- W6) Insulated hook-up wire for control-box connections.

Hardware:

- T1) Nut-bolt combo, .5 x 4 cm. (6 needed)
- T2) Nut-bolt combo, .5 x 7 cm. (2 needed)
- T3) Wingnut-bolt combo, .5 x 7 cm. (2 needed)
- T4) Wood screw, 9 cm. (1 needed)
- T5) Machine screw, .5 x 1 cm. (27 needed)
- T6) Misc. hardware necessary for mounting FET amplifier and tuning capacitor (screws, spacers, nuts, etc.)

Electrical components:

- B1) Standard 9-volt transistor battery.
- C1) Capacitor, tuning, 10-365 pf, A1-227.
- C2) Capacitor, silver mica, 330 pf, A1-011.
- R1 & R2) Potentiometer, 10 k Ω , B1-683 (2 needed).
- S1, S3 & S4) Toggle switch, miniature, SPST, E2-116 (3 needed).
- S2) Toggle switch, miniature, DPDT, E2-118.
- S5) Toggle switch, miniature, SPDT, E2-117.
- X1) 9-volt battery connector, F3-052.
- X2) Knob, calibrated 0-9, E2-729 (3 needed).
- X3) Vernier dial, 4 cm. diameter, E2-744 (2 needed)

Items obtained beyond these instructions:

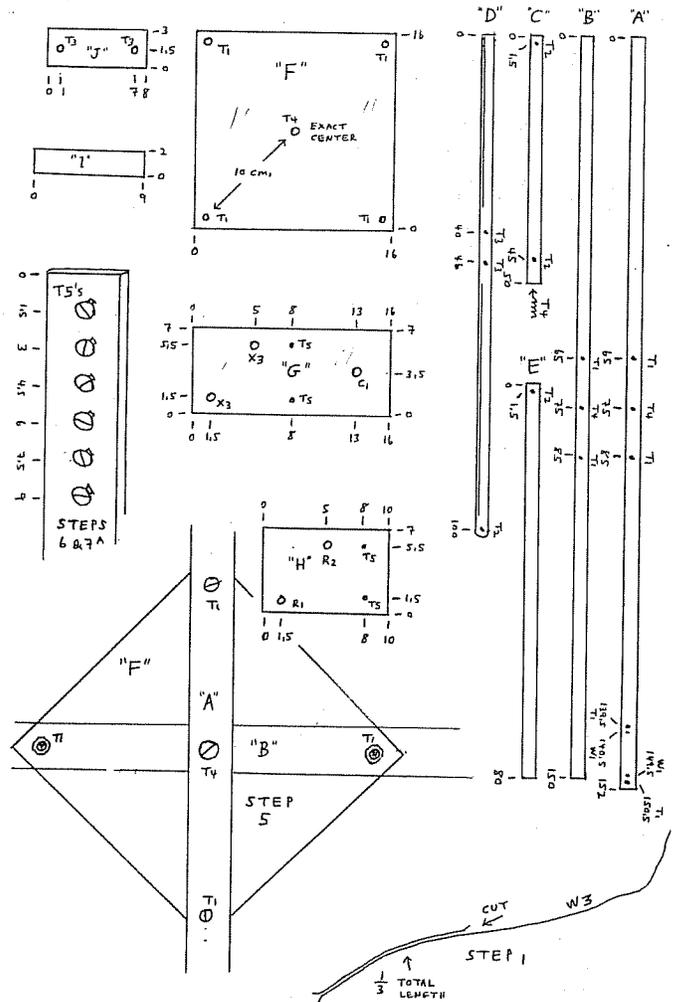
- A1) FET amplifier of the printed-circuit board type, small enough to fit into part L. Either the "BCB Super-Booster" or the BAX-1 is recommended. Remove and/or omit any accompanying coil and tuning capacitor.
- Y) Loop base stand, should accommodate part D, complete with circular protractor, pointer, etc.

Have the above two items under control before beginning.

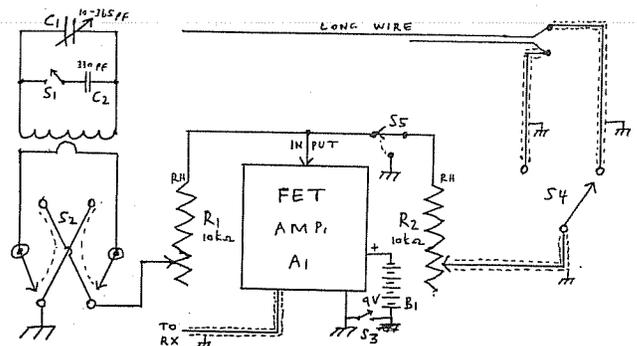
Building the LSCA-2

- 1) Wires W1, W2 and W3 are 2-conductor. Split apart W1 and W2 completely. Split W3 only for two-thirds (2/3) of its length, then cut off one of the split sections at the base of the split.
- 2) Prepare wooden sections A through E as illustrated. Drill holes just wide enough to accommodate hardware and wire indicated. Wood screw T4 is to screw into the stub of C; take care to center its socket exactly. The two W1 holes on A should be of a diameter that W1 will be drawn through with notable effort but without tearing the insulation; this is designed to hold the wire in place.
- 3) Prepare plexiglas sections F through J as illustrated. The material cracks easily, so take care when drilling and cutting. Not illustrated on G are 4 screw holes necessary for mounting the two vernier dials so that their respective "Y" marks point directly away from each other on a NE-SW line. The mounting holes for capacitor C1 are likewise not illustrated. On H the holes necessary to accommodate the holding tabs of pots R1 and R2 are not illustrated; the pots will face shaft-forward with leads downward. These components must be used to determine the correct positions and sizes of these holes.
- 4) Prepare aluminium chassis K and L as illustrated, including cutting off the four back corners on K. On L, drill extra holes as necessary in order to mount the FET amplifier board to the rear inside surface.
- 5) Assemble loop cross-frame as illustrated with parts A, B, F, and T1 hardware. Insert bolts via wood side; affix nuts to plexiglas side.
- 6) Lay cross-frame on the floor with A on top and B on the bottom. Implant six (6) small machine screws T5 halfway into each end of B as indicated - with a 1.5-cm spacing.

- 7a) Turn cross-frame over. Likewise implant six T5 screws into the holeless end of A. These screws will face in the opposite direction from those in B.
- 7b) Implant five (5) T5 screws at 1.5-cm intervals between the W1 holes at the opposite end of A.
- 8) Mount chassis section L onto holed end of A (opposite machine screws), inserting two T1 bolts via the chassis side.
- 9) Wind the loop primary with W1 wire, 6 turns around the T5 screws, anchoring ends through W1 holes in L via A. Tighten windings as much as possible. Adjust T5 heights as necessary for a neat fit. Put the loop assembly aside for now.
- 10) Carefully trim the shafts of potentiometers R1 and R2 to a length of exactly two (2) cm.
- 11) Mount R1 and R2 onto H; refer back to Step 3.
- 12) Remove shaft holding screws from vernier dials X3. Mount the dials, as per Step 3, on the front side of G, using appropriate hardware. Mount tuning capacitor C1 to the rear side of G, again using appropriate hardware. Replace shaft screws back onto X3.
- 13) Mount FET amplifier onto inside surface of L with appropriate T6 hardware. Use minimal length metallic spacers to clear surface of L yet ground amplifier to it. "Working/soldering" surface of A1, of course, must face outward so that necessary connexions may be made.
- 14) Mount assembly G onto chassis side of A so that bottom of G rests flush against top side of L and dial knobs face forward. Affix with two small machine screws T5.
- 15) Mount assembly H onto opposite side of A. Insert shafts of R1 and R2 into respective sockets of dials X3, then affix with two T5 screws onto A.
- 16) Rotate R1, R2, and the X3 dials to their extreme clockwise limits; tighten the X3 set screws.
- 17) Mount the five toggle switches onto K so that they flick vertically, locating them as illustrated.
- 18) Use insulated hook-up wire to connect opposite corner lugs of switch S2 "criss-cross" fashion as illustrated.
- 19) Hook up power circuit for FET amplifier A1 as illustrated, using X1 and S3. 9-volt transistor battery B1 is to lie loose on the bottom of L.
- 20) Connect ends of the primary winding to tuning capacitor C1. (It may be wise to retighten the windings once more before soldering).
- 21) Hook up band-change circuit as illustrated, using switch S1 and capacitors C1 and C2. Use electrical tape or "spaghetti" to insulate the leads of C2, or cut them short and bridge with W5.
- 22) Wind the loop secondary with W2, paralleling the third primary winding from the outside. Double back ends around appropriate machine screws at the bottom of A, then bring them into chassis L through the rear via the W2 holes. After drawing the winding tight, tie holding knots at each W2 hole, then connect each end to the nearest respective center terminal of switch S2.
- 23) Use a piece of co-ax W4 or W5 to connect the center terminal of R1 to one "criss-cross" of switch S2. Connect the co-ax shield to the other "criss-cross" of S2 and to amplifier ground.
- 24) Use a second piece of co-ax to connect the center terminal of R2 to the center terminal of switch S4. Connect the shield to amplifier ground. Leave some shield exposed at the S4 end.
- 25) Use W5 to connect the right-hand terminal of potentiometer R1 to the signal-input terminal of the FET amplifier.
- 26) Similarly connect the right-hand terminal of R2 to the center terminal of switch S5.



- 27) Connect the bottom terminal of switch S5 to the signal-input terminal of the FET amplifier. Connect the top terminal of S5 to amplifier ground.
- 28) Connect co-ax W4 to the signal-output terminal of the FET amplifier; connect the shield to amplifier ground. Prepare the opposite end of W4 for connexion to the antenna terminals of your receiver.
- 29) At this point string longwire W3 outdoors in the customary manner - with the twin-conductor end leading in through the window.
- 30) Use one length of co-ax W5 to connect the top terminal of switch S4 with the "long" conductor of W5.
- 31) Using the remaining length of W5, connect the bottom terminal of S4 to the "short" conductor of W5. Connect the three shields at S4 together.
- 32) Check over above steps carefully for errors; see that the electrical connexions agree with the schematic diagramme below:





DX RECORDS

HEARD: Dr. Michel Breger
VERIFIED: Steve Moss
GRAVEYARD: Walter Kuenast
CENTEXDX: 7217 Creekside Drive, Austin, Tx 78752.

DOMESTIC VERIFIED RECORDS

TDV: total domestic verified, SV/PV: total states/provinces verified, TSV: total stations verified, YR: year started DXing in present location, *: please update totals.

| NAME | TDV | SV | PV | TSV | BEST | YR |
|----------------------|------|----|----|------|------------------|----|
| 1. Wheeler, Pa. | 1613 | 50 | 9 | 1685 | Pa.- 103 stns. | 30 |
| *2. Eddie, Mo. | 772 | 48 | 5 | 788 | --- | 67 |
| *3. Ogrizovich, Ind. | 506 | 42 | 4 | 514 | --- | 69 |
| 4. Murphy, Ky. | 468 | 42 | 6 | 468 | "WCPR"- 1620 NYC | 73 |
| *5. Horne, B.C. | 453 | 37 | 5 | 491 | --- | 68 |
| 6. Hendricks, Ill. | 437 | 38 | 5 | 448 | WHSC- 1450 | 70 |
| 7. Bytheway, Wa. | 408 | 40 | 6 | 417 | --- | 68 |
| 8. Ford, B.C. | 347 | 35 | 5 | 370 | Wash.- 63 stns. | 72 |
| 9. Ball, Ont. | 192 | 34 | 8 | 208 | CBNM- 740 | 71 |
| 10. Hogan, Ind. | 183 | 29 | 3 | 184 | --- | 69 |
| 11. White, Va. | 155 | 34 | 4 | 158 | --- | 68 |
| 12. Orren, Wa. | 119 | 31 | 3 | 119 | --- | 68 |
| 13. McClelland, Ca. | 98 | 31 | 5 | 99 | KMVI- 550 | 72 |
| 14. Plumb, Neb. | 53 | 19 | - | - | --- | 71 |
| 15. Wooten, Md. | 38 | 11 | - | 76 | --- | 72 |

Remember: Alaska and Hawaii stations are counted in both domestic and foreign totals. This means your TSV does not equal your TDV + TFV if you have any Alaskan or Hawaiian stations.

FOREIGN VERIFIED RECORDS

| NAME | TFV | CV | TSV | BEST | YR |
|-----------------------|-----|-----|------|-------------------|----|
| 1. Stanbury, Ont. | 476 | 118 | 1370 | Europe- 118 stns. | - |
| 2. Wheeler, Pa. | 77 | 23 | 1685 | 1YA- 760 | 30 |
| *3. Horne, B.C. | 38 | 16 | 491 | --- | 68 |
| Wooten, Md. | 38 | 13 | 76 | --- | 72 |
| 5. Ford, B.C. | 33 | 14 | 370 | HJCV- 1190 | 72 |
| *6. Eddie, Mo. | 17 | 14 | 789 | --- | 67 |
| 7. Ball, Ont. | 16 | 12 | 208 | HOL55- 860 | 71 |
| Bytheway, Wa. | 16 | 8 | 424 | --- | 68 |
| 9. Hendricks, Ill. | 11 | 4 | 448 | ZNS- 1540 | 70 |
| *10. Ogrizovich, Ind. | 8 | 9 | 514 | R. Victoria- 925 | 69 |
| 11. White, Va. | 3 | 5 | 158 | ZBVI- 780 | 68 |
| 12. McClelland, Ca. | 2 | 4 | 99 | Belize- 834 | 72 |
| 13. Hogan, Ind. | 1 | 3 | 184 | --- | 69 |

CV includes U.S. and Canada, TFV does not.

Many of the reports were compiled before the new rules were published. If necessary, please update your totals according to the rules outlined in the 11-25-75 issue of DXM, using the above format (no special report form is necessary.) Any suggestions concerning the rules or format of the column are welcome. Hope to have more of you in the listings next time.

Best of DX.....CenTexDX.....Steve

GILFER C-10 Calibrator

This is one of our new products and even the photos aren't available for inclusion on this sheet. We are calling this the C-10 Calibrator and we believe it to be the best unit for SWL'ing we've ever seen.... It has harmonic signals every 10, 25, 50, 100 and 1000 kHz from the long wave band through to the VHF/UHF spectrum....The circuit employs 3 CMOS IC's and a transistor harmonic amplifier. Through the use of a special switching network and circuit optimization, there is no breakthrough of unwanted harmonic signals as frequently happens with poorly designed cheap calibrators (eg, the 25 and 10 kHz harmonics don't appear as weak signals when only the 50 kHz harmonics are switched on)....The C-10 is an exceptionally attractive unit mounted in a small (4x2x6) Ten-Tec cabinet (egg shell white with walnut grain top and side panels). It is powered from an internal 9-volt battery.Since the C-10 was designed for SWL use, there is a "gating" circuit (switched on/off from the panel) that enables you to positively identify your own calibrator signal--even in a crowded International Broadcast Band.

write Gilfer Associates, P.O. Box 239, Park Ridge, NJ 07656, for actual price of C-10.

ANARC ALMANAC-- Happenings in the Association of North American Radio Clubs

ANARC Executive Secretary-- David Browne; IRCA Representatives: Rick Evans, John Zondlo, Fr. Jack Pejza.

1976 has been designated as World DX Club Year by the European DX Council and by ANARC. The purpose of World DX Club year is to promote our hobby, in all of its aspects; to gain new friends for DXing, and to help established DX Clubs and individual DXers to join closer together for the benefit of all.

FCC And DXers. Representatives of ANARC have been meeting with officials of the FCC to review ITU radio regulations and pertinent CCIR documents. The meetings have been under the auspices of the International Broadcasting Service Group.

Upcoming Meetings:

American Shortwave Listeners Club will have their monthly meeting to put out their bulletin on Saturday, April 3, at 11 AM, at 16182 Ballard Lane, Huntington Beach, CA 92649.

European DX Council, the tenth annual convention, May 28-30 in Hilversum, Holland.

ANARC representatives are voting on the site for the 1976 convention, either in Boulder, CO July 9-11 or Los Angeles, CA July 23-25.

National Radio Club, Louisville, KY, Sept. 3-6. Contact NRC, P.O. Box 127, Boonton, NJ 07005 for information.

Texas. Alan Laves, 2902 Willowbrook Circle, Austin, TX 78701 would like to contact DXers in TX, AR, LA, OK, and NM for a regional get-together.

Washington, D.C. It's the Washington International League of DXers. Contact Fred Heutte, Jr., 1600 Newton St., N.E., Washington, DC 20018 for information.

Bob Padula and Robert James of Australia just finished a four-week tour of the US, visiting San Francisco, New York, Washington and Los Angeles among other places.

Handicapped Aid Program (HAP) asks that handicapped members contact Ted Poling, HAP Director, P.O. Box 163, Mt. Sterling, IL. If you can help HAP in any way, please write Ted.

SWL International, originally based in Montreal, has disbanded as of January 1.

Trans World DX Club is publishing a bulletin, DX Data, every two months. Dues to North America are \$5 per year; \$6 elsewhere.

Make all payments in Canadian funds. Write John Chapman, TWDXC, 806 St. Andrews Road, West Vancouver, B.C. V7S 1V4, Canada, for information.

International Listener is a new magazine devoted to program guides for English SW broadcasts. Subscriptions are \$8 per year, or 36 IRCs. Write to International Listener, P.O. Box 3782, Austin, TX 78764. Editor is Ed Mayberry.

WCFL-1000 TO "BEAUTIFUL MUSIC" FORMAT

So you live in the West where KOMO-1000 wipes out WCFL Chicago, one of the Windy City's two 50-kw rock stations (the other is WLS-890) for many years, and you've heard that WCFL is going to a "Beautiful Music" format and you're wondering what it will sound like?

Just tune your radio to 960 and listen to KABL Oakland, California ("in the air everywhere over the beautiful Bay of San Francisco").

Or easier yet (grrrr), tune to 690 and listen to XETRA Tijuana, Mexico.

An ad for a Dallas-based company, TM Productions, Inc., and TM Programming, Inc., says that WCFL is using their "Beautiful Music" (that's a trade name) syndicated service "with the same TM format that made KABL Number 1." The ad points out that certain rating services made TM's "Beautiful Music" #1 in either total people age 12 and older, or adults 18 and older, on KABL-AM-FM Oakland-San Francisco, XETRA, and KAIR-AM-FM Tucson, Ariz. (KAIR is on 1490). "Beautiful Music" is also syndicated (i.e. automated) on more than 100 FM stations across the country.

The ad calls for broadcast executives to listen to the format on WCFL "while you're visiting the NAB Convention in Chicago." That convention took place March 21-24, so obviously the new format is already in use. -Bill Hardy. (Information from ad in 3/15/76 Broadcasting is used by permission.)



NORTHERN INDIANA BROADCASTERS INC.
OLD CHICAGO ROAD, MICHIGAN CITY, INDIANA 46380

AD-VISOR 247 N. FIRST STREET, APT. 27
 EL CAJON, CA USA 92021
 PHONE: (714) 440-2544; HRS.
 EDITOR: ALBERT S. LOBEL 1800 - 2115 PLT.
 DEADLINES: FRIDAY 1800 PLT. ENCLOSE SASE IF REPLY

SOLD!!!

VJ Logs, Vols. 6 & 10 for \$1.75 ea. per ad of several months ago. Still, have volumes 7 - 9 for sale at same price of \$1.75 ea., ppd (with-in U.S.; write or call about other countries.) ALBERT S. LOBEL, Ye' EDITOR.

WANTED

Used oscilloscope, in reasonable mechanical cond. Must be repairable, if inoperative. Want to pay about \$50. Make me an offer.

CHARLES A. TAYLOR, 939 EASTERN AVE, INDIANAPOLIS IN 46201; PHONE: (317) 638-4166, 1930-2200 EST.

Photocopy of Lafayette HA-63A Owner's Manual. BILL HARANG, 811 NEVADA AVE., SAN JOSE CA 95125; PHONE: (408) 292-8198.

SALE

Radio tubes in original cartons. Will sell just one or the whole lot for best offer. They are all tested out, except the # 75 tube. Have the following: 6SA7 (glass), 6SA7 (metal), 6A8G, (2) 50L6, 75, 6F5, (2) 12SA7, (2) 6SQ7. CHARLES GILL, P.O. BOX 84, SPRINGVILLE NY 14141.

8th edi., How To Listen to the World. \$3.50 ppd; CECIL R. WEINSTEIN, P.O. BOX 52 GOLDEN CITY MO 64748; PHONE: (417) 537-8604 (7:00 p.m. to mid-night).

page 340 March 27, 1976

THE INTERNATIONAL RADIO CLUB OF AMERICA, INC.

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

OFFICERS: President - Richard C. Evans, Box 392, New Buffalo, MI 49117 (616-469-3866). Secretary-Treasurer - H. John Clements. Board of Directors - Robert L. Foxworth, Nancy Hardy, Grant Manning, Father Jack Pejza, Bruce Portzer, Ronald F. Schatz, and John Zondlo.

DX MONITOR: The official bulletin of IRCA, published 34 times a year; weekly from November to March, 3 times in October, 2 times in April, May, and September, and monthly in June, July, and August.

MEMBERSHIP DUES: \$12.00 First Class to Canada and the U.S.A., Air Mail to Mexico. \$13.50 Air Mail to the rest of the world via Canada. Air Mail direct from Seattle: \$25.00 to Central America, Caribbean, Colombia and Venezuela; \$30.00 to the rest of the world. Sample copies, 50c or 3 International Reply Coupons. Make all checks and money orders payable to "I.R.C.A." Members outside the U.S.A., please use money orders payable in U.S. funds.

PUBLISHING STAFF: Editor-in-Chief - Michael G. Worst (206-776-8249), Publisher - Phil Bytheway (206-525-8736); Derek Ford, Gary Kayser, Tim and Sue O'Hare, Jon Orren, Bruce and Evelyn Portzer.

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DX MONITOR is printed by Save-On Printing, Seattle, Wash.

17th edition, Guide to Broadcasting Stations. Covers 151 KHZ - 26.496 MHZ. \$2.50 ppd. CECIL R. WEINSTEIN, P.O. BOX 52, GOLDEN CITY MO 64748; PHONE (417) 537-8604 (7:00 p.m. to mid-night).

Superex Headphones originally sold by Heathkit. \$2.50 ppd. Mint cond. CECIL R. WEINSTEIN, P.O. BOX 52, GOLDEN CITY MO 64748; PHONE: (417) 537-8604 (7:00 p.m. to mid-night).

Heathkit model HD-20 100 KCS crystal calibrator. \$20.00 ppd. Mint cond. CECIL R. WEINSTEIN, P.O. BOX 52, GOLDEN CITY MO 64748; PHONE: (417) 537-8604 (7:00 p.m. to mid-night).

Complete parts (includes cabinets, antenna coil, instructions, etc.) to build Tenna Boost broadcast band antenna (similar to SM-1, but simple to build) plus parts to build the shortwave listeners crystal marker. Total for both kits \$8.50 ppd. CECIL R. WEINSTEIN, P.O. BOX 52, GOLDEN CITY MO 64748; PHONE: (417) 537-8604 (7:00 p.m. to mid-night).

ALL ADS BELOW: IRCA HQ, P.O. BOX 21462, SEATTLE WA 98111.

IRCA FOREIGN LOGS:

- Vol. 2 (1972-73 season) \$2.75 (\$3.00 to non-members)
- Vol. 3 (1973-74 season) \$3.50 (\$3.75 to non-members)
- Vol. 4 (1974-75 season) \$4.00 (\$4.25 to non-members)
- Vol's. 2 and 3 \$5.25 (\$5.75 to non-members)
- Vol's. 3 and 4 \$6.50 (\$7.00 to non-members)
- Vol's. 2, 3 and 4 \$9.00 (\$9.50 to non-members)

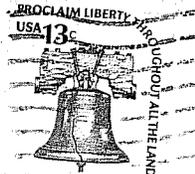
IRCA Rubber Stamp with the IRCA Emblem are available for \$3.00 postpaid.

Index to Vol. 12 DXM (as compiled by Fred McClelland) for 25c and a legal size SASE.

Red and Black IRCA Stationery is available for \$3.00 per 100 sheets, postpaid.

(This part typed at IRCA HQ due to accidently destroying the original. MGW)

IRCA
 P.O. BOX 21462
 SEATTLE, WA 98111
 U.S.A.



First Class

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