



DOMINO

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VOLUME THREE #17

DX CALENDAR

Jan. 31	CFYK 1340	Yellowknife, N.W.T.	1kw.	0205-0330	IRCA
31	KPRM 1240	Park Rapids, Minn.	250w.	0300-0330	NRC
Feb. 7	CKOX 1340	Woodstock, Ontario	250w.	0330-0430	NNRC
7	WBAA 920	West Lafayette, Indiana	1kw.	0400-0430	NRC
14	WAMO 860	Pittsburgh, Pa.	250w.	0315-0330	TEST
28	KGAR 1550	Vancouver, Washington	1kw.	0300-0310	NASA

RENEWALS

Rusty Vernor, Jacksonville, Ill. Ray Droszcz, Chicago, Illinois
 Mike Reynolds, Denver, Colorado

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 WC DX Roundup: Lance Muller, 8895 Halsted St., San Diego, Calif.
 DT&: Dave Johnson, 940 Veta, Pueblo, Colorado

DOMESTIC CONTEST TOP TEN

1. Jeff Kadet, Md.	133 pts.	NRC	6. Ken Butterfield, Mich.	70	NRC
2. Don Erickson, Cal.	126	BOTH	7. Chris Lucas, N.Y.	61	NRC
3. Bruce Reynolds, Mo.	94	NRC	8. Ed Marr, Ill.	52	IRCA
4. John Navin, N.C.	77	IRCA	9. Walt Breville, Mo.	50	NRC
5. Larry Lehmer, Ia.	76	BOTH	Gregg Calkin, N.B.	50	NRC

DX FORUM

Larry Godwin, P.O. Box 1048, Berkeley, California 94701

"Hi gang! The new WRTH arrived the 10th and I see the IRCA is listed prominently with the other US radio clubs this year. Congratulations to Art on his Haiti-1035 verie (the true call on this one is still a great mystery). See you in Santa Barbara." 73.

Arthur Peterson, 2726 Rollingwood Drive, San Pablo, Calif. 94806

It's me back again! V/q from 4VEC-1035 broke a 3 week fast from QSL's for country #15. DX since last time: 12/27 2305 YSS-655 strongest I've heard with an ID every 30 seconds. 1/7 2330 XEWA-540 very much on top of CBK most of the time. 1/10 0538 WBUC-1260 believe to be the one heard along with WNDR. Spent most of the morning on 1260 trying to coax this weak signal in with only limited success for my efforts. The new WRTH is now available from Gilfer Associates, P.O. Box 239, Park Ridge, N.J. for \$4.95. California DXers remember the DX get-to-gether at Santa Barbara on Jan. 28-30. DU DX should be getting better soon, so watch for it. That's it for now! 73.

Mike Reynolds, K5UPV, 1970 Kipling, Denver, Colorado 80215

Hello "Wolfman" fan clubbers. This is my first report since summer. Fired up the clock rx on 1/8 and came up with KDKA-1020 0300, KENO-1460 0327, WAKY-790 0345, WABC-770 0349, CKDM-730 0400. At 0400 I checked in with Tom Swyer at KOMA via land line. This woke up my new wife and she promptly ended my DXing. Received an airmail letter from ZCO, Tonga Island, with a negative verification. This put me out of contention for country #17 (from Guam). If any of you hear KOMA taling about going "free and clear", it does not mean that KYMN is going off the air. It is only a contest between the day and night jocks. To QSL KOMA you should QSL direct with the jock. I think the PD is throwing away reports now. Write me direct for info. 37's AR.

22 January 1966

P.S.T. DX ROUNDUP

I.R.C.A.

Lance Clayton Muller

8895 Halsted Street

San Diego, Calif. 92123

- 620 KGW Portland, Oregon - s/off at 0401 on 1/17. (LCM)
- WSUN St. Petersburg, Florida - heard with good to excellent strength from 0401 to 0421 on 1/17, CKCK, Regina Saskatchewan looped (LCM)
- 790 KWIL Albany, Oregon - very loud on 1/17 on 0330. (KGS)
- 800 CHAB Moose Jaw, Saskatchewan - in well on 1/9, at 0630. (AP)
- 850 KICY Nome, Alaska - s/off 0502 on 1/9. (AP)
- 910 KPHO Phoenix, Arizona - weak at 0630 on 1/9, but readable. (SE II)
- 950 KJR Seattle, Washington - heard concluding TT at 0451 on 1/17. (LCM)
- KPRC Houston, Texas - s/on at 0630 on 1/17, with NA. (RJS)
- WSPA Spartenburg, S. Carolina - heard with s/on at 0451 on 1/17. (LCM)
- 1140 WRVA Richmond, Virginia - in very strong on 1/3 at 0555. (AP) Excellent on 1/17 from 0604 to 0638 with farm programming. (LCM)
- 1260 WBUD Trenton, New Jersey - Possibly with WMDR, Syracuse, New York on 1/10 at 0538. (AP)
- WEZE Boston, Massachusetts - a welcome catch! Farthest domestic heard on 1260; 0510 on 1/3. (AP)
- WFBM Indianapolis, Indiana - s/on 0515 (AP) (no date, lcm)
- WTFH East Point, Georgia - over WMUU, Greenville, S. Carolina at 0500 on 1/3 (AP) s/on 0501 on 1/17, out at 0503 by WMUU s/on. (RJS)
- 1320 KCPX Salt Lake City, UTAH - good on 1/8 at 0230 to 0300. Wattage? (5,000 Watts, lcm) (MG)
- 1360 WSAI Cincinnati, Ohio - good on 1/17 at 0425 to 0440, with KRUX, Glendale, Arizona looped out to poor. (LCM)
- 1450 KLMX Clayton, New Mexico - heard f/c at 0245 on 1/17 (KGS)
- 1480 WYZE Atlanta, Georgia - heard RS at 0413 on 1/17 with unknown strong OG. (KGS)
- 1560 KHGO Hoquiam, Washington - Excellent, with many ID's on 1/17 from 0345 to 0410 fro DX test. (KGS)
- 1580 WCLS Columbus, Georgia - Big surprize with 1,000 Watts. Was in astoundingly well on 1/9 at 0543. (AP)

Many thanks to: AP- Art Peterson; KGS - Gray Scrimgeour; SE II - Serge Neumann II; RJS - Randy Seaver; MG - Marc Gottlieb; LCM - your editor. I will accept any DX Forum reports not running over 10 lines with DX Roundup tips. Any member living in the Pacific Standard Time zone, north of the U.S.A.-Mexico border, and south of Kamloops, B.C. can contribute! Perhaps another "Roundup" section can be started for the other zones. Any volunteers? Please send tips in this form, or call them in to 278-1591.

* * * * *

Lance Clayton Muller - 8895 Halsted Street - San Diego, Calif. 92123

Howdy from the largest monument to correction fluid in the world! I never dreamed I would become a stencil stamper! Newest QSL is CBE-1550, for my fifth blue CBC card. That gives me 435 heard/120 verified on BCB. Or 19/8 countries, with reports out to Radio Americas-1157 & 1160 & 1165, and JOBB-830, along with about 45 other reports, (37/31 states, 6/6 Canuck provinces.) Look for the IRCA Verification Request Form in a few issues, written by your's truly. I guess it's okay, since I get comments like "Thanks for the most detailed report we received. Good Show!" (KYME DX test); and "Excellent report, with added DJ verification", (WLS-890,) after Concrats to Ferdinando O. Martinio (2/66 PE); Don Erickson (11/65 PE); and Dallas A. McKenzie (2/66 PE, 1/2 page) for getting in magazines. Why not mention BCB also, though? IRCA HQ: how about plans for a "box" loop antenna? The "spiral" IRCA loop antenna is the only one I've ever used.

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PLEASE DOUBLE SPACE ALL REPORTS TO THE FORUM. USE EST AS OFFICIAL TIME.

SEND REPORTS TO THE EDITORS AS LISTED ON THE THE FRONT PAGE. A NEW DXWW EDITOR WILL BE NAMED SOON BUT ED WILL CONTINUE TO FEBR. 5th.

THE WEST COAST DX FORUM

Marc Gottlieb, P.O. Box 674, Grover City, California

Hi everybody. Just heard KPIX, Salt Lake City, 1320 (call is KCPX, Marc. lrs) 1/8 @ 0230-0300. The announcer was pre-occupied with pineapple the entire time. In answer to the editor's question, Pismo Beach still would like to host the World's Fair, and tries every year. Somehow, tho, we never made it. But we sure would like to host the California IRCA DX fest on the 29th. I'll do all the work of hotel reservations, entertain-
mnt, radio station visiting arrangements, etc. if I'm given the chance. All we can offer is a good time to everybody, dancers, surfers, TV-add-
icts and even IRCA DXers. Please? Anyway, that's all the news here. I'm still giving away clams, just write for one. Best wishes for DX from Pismo Beach, Clam capital of the Free World!

Jack Alexander, Jr., 1639 W. Ball #3, Anaheim, California 92802 WPE6TQU

Hi this is controversial Jack back at it again. First how can we as a radio club tell someone, ~~is~~ proposal 2.1-43, to stop passing out a mimeo rpt form, when the person mentioned is doing it as a free service to fellow DXers? I'll say this I'm getting a few thousand of them printed here in Anaheim--let me see you say something, just one word! Oh, by the way, if there are any extras after passthem out here there free for postage. (Are you sure that's what you wanted that to say? lrs) This Radio Americas noise is getting sickning and verry 'dull--howsabout opening up with DX--not noise as I do, hi! Mr. President I think your letter about this club myght fyld yp--EXCELLENT! Well heres my DX (?) 12/20 WHAM at 0535 12/23 KEEN at 0444; KGB at 0454--hard enuf to got to be considered DX, hi! KRDY at 0459; KENO at 0505. 12/27 KEX at 0449; WJR at 0500 w/KEABC under; Peiking-1040 kc. at 0525 under WHO. (Are you SURE this keeps you off the streets? lrs) QSL's in are KSL and KFAB. Got a new rx. It is a Lloyds 7 tuber, AM/FM model TM-75. Thats it for awhile rpt forms anyone?--Oh Paul S. Lotsof--I think I sent you a tape original; for Don Erickson--your tape coming soon--sorry. Well 73's (Re this friendly note to your editor that you enclosed: Ask me if I'm impressed!

Serge Neumann II, 2323 20th Street, Santa Monica, California 90405

Another report from the "Golden State"... Several developments have arisen since my last report: Recently I was able to listen without strain of the ears to R. Belize on 834 for 38 minutes (!). It was on the 13th of Dec. at 2220 with public service announcements for clubs and events sched-
ules in and around Belize City--I could understand 99% of everything said. On S7 I'm now 113/105 countries, my most recent QSL coming from KCBS Pyongyang, 11745, via a report and reply thru the Danish Shortwave Club International. As you know, there is no direct postal service between the U. S. and N. Korea and N. Vietnam. Mike Hunter: There is NO lazy man's way to DX on S7! No matter what kind of a rx. Jeff Ross: What's an LLC5--a tube? Tom Peary: Why don't we bring Oscar Reyes to the USA? All you WPE lovers: ANY person can get a WPE call--any person can get a WPE award WITHOUT having any knowledge or prior experience in the hobby. Now, down to DX: QSL'S in from these extremely low powered jobbers: WHO, KOB, KSL, KTAR, KOA, WMAQ, WCCO, WFAA, & KOMO. That gives me a huge total of 9 states verified. Report sent to KGRB 250 w. West Covina. Does KWIZ QSL? KNBR comes in great all the time. Congrats to Jerry Wolff who has turned in what to me seems to be the best, most interesting DXF report to date, since I joined in September. Agree with several others that what we need are specialized clubs, NOT general coverage clubs. TOM PEARY...Your 6A8 tube is on its ywa compliments of this shack. Till next time--ZAPP! (I'll have to ask KFVB what that means, hi!)

(Serge, you give me eye-strain! A mottled pox on you for not double-spacing your report, hi. Everybody should always double space their reports, please. Have mercy.) (All preceding comments by your editor, lrs.)

THE WEST COAST DX FORUM

Pat Laird, 55 3d Ave. N.E., Swift Current, Saskatchewan, Canada

Hi gang, finally got my Heathkit fixed. I waited for a coil from Daystrom for a long time and am I glad it came. Before I had wires running all over the shack to cover up for the wretched coil (wire from the tuning plates etc.) My antenna trimmer and noise limiter didn't work worth a darn but now the GR91 works better than my "Electra" and has less tube. I have heard a lot lately (mainly on the SW bands) about people hooking up batteries to their antennas. They are supposed to limit noise etc. but how well would this work with my Heathkit? I know of one guy who tried this but he almost got electrocuted and wrecked his rx. so will it be okay for the GR? Another friend of mine hooked a ground onto his new National NC 33 and wrecked a few parts. If anyone has a different assortment of eqpt it must be me. Lafayette, Rogers Majestic and Heathkit plus an antenna tuner that VE5PE4V made. It's 35 below here and it sure is nice to listen to those sunny warm countries now. Still no sign of the Jap on 1180. What's the ID? No new QSL's and TNX to all who sent Xmas Cards. 73's. Radio station CKS7 is planning a satellite station at (can't read it Pat; sorry. lrs) 250 w. day, 1 kw. nite, it will be mainly a relay station but, if the BBG approves of the station there will be short broadcasts from the station.

John Richards, Jr. WPE6GAX, 4136 Briarwood, Palo Alto, California 94306
Greetings. Verics: v/c from XERB-1090 for 3d Mexican verified, v/q from WGN-720 with a pamphlet on clear channel broadcasting, and a v/l from K BOW-550. The CE of K BOW said to his knowledge that mine was the first report he had received from Palo Alto. Paul Lotsof: PJB-800 runs 500 kw and is non-directional, I think; the rr station u/WOR is either KEEL in Shreveport, La. or KBTR in Denver, Colo. (both 5kw at night), and the Jones Log is a booklet which contains the power (day and night) location, and frequency of over 5,000 AM stns in the US, Canada, Cuba, Mexico, and all of Latin America. (Also FM and TV. lrs) Are there any more loop plans available? (Yes, I think so. Write to HQ w/ a SASE. lrs) Totals are 58/39 for 62% verified. 73,

Mike Bratcher, Route 1, Maysville, Oklahoma 73057

Greetings everybody. I have now enjoyed being a member of this really great club for 1/2 year and am looking forward to many more. Verics in lately are v/q KNBR and KFEQ. v/l WACO and KELI. No DX although I have received six new stations in two nights. 1/1 KVGB-1590 @ 0104m KLEO-1480 @ 0144, WKBH-1410 @ 0200 w/ QRM from KWBB, KXYZ-1320 @ 0220, KGBX-1260 @ 0229, also KNOR-1400 s/off @ 0208 s/ SSB. 1/10 KKOK-630 after WNAD s/off Here is a little information picked up about the first few stations in Oklahoma: "The first station in Oklahoma was WKY with 20 watts built by Earl Hull as a hobby in his garage. He took to the air in January, 1920. This station was third in the United States and the first west of the Mississippi to broadcast regularly scheduled programs. In 1922 WKY first broadcast election returns. The Daily Oklahoman at that time did not own the station but was constantly promoting its growth by stories in its columns. WKY received its license in 1923. At that time, it and the station operated by the Detroit News were the only ones on the air in the central part of the United States. Earl Hull received a partner shortly after this in the person of H. S. Richards. The homemade transmitter was then operated from Richards' home in Westwood. They operated from the Masonic Temple for some time in 1926 and from the Huckins Hotel until 1928. In July, 1928, the station was purchased by the Oklahoma Publishing Company. The broadcasting studios were moved to Plaza Court that same year and remained there until 1936 at which time they were moved to the Skarvin Tower Hotel. They were transferred to a new location on Britton Road in 1951. The next station in Oklahoma was WMAB, which is no longer in existence. The third was KFJF, now KOMA, in Oklahoma City, and the fourth was WNAD at the University of Oklahoma in Norman. As of 1965 there were approximately seventy stations in Oklahoma, a 130% increase since 1920." That's all for now so 73 and best of DXing to everybody.
P.S. BEAT THE NRC!!

THE WEST COAST DX FORUM

Larry Snouffer, 98 Perkins Hall, Athens, Ohio 45701

DX: WVNA-1590 re-log of a regular sometime after sunset, MTN-1300 1745, WHK-1420 SSS, WEUP-1600 SSS, WLFA-1590 SSS, CKBC-1360 1945, w/rr, and WKBW-1520 comes swinging in here every night. I thought "KB" was directional to the east! Does anyone have the latest word on them? I am holding one report because it does not have a name or address on it. Gray sent it to me, it was on a half sheet of paper, and I lost the envelope with the address on it, so if you think it was yours, write and say so, and I will print it. I don't censor constructive or criticism Jack Alexander, just irrelevance and slander.

Richard Tom Stevens, WPE7CCL/W714541, 932 Pine Street, Edmonds, Wash. 9802
I just thought I'd take a break from college and send in a note. I just finished repairing my receiver, and it's working better than before. Now I can get back into the swing of things. I got WSM and WVR last night (1/11/66) during ET 182. I got a verification from KTKN today (1/12) and suggest listening for their freq. check the first Friday night of each month just after Midnight. Next one Feb. 4. Hi! to everyone. Trying to set up a broadcast for IRCA, who do I tell when I do set one up? 73. (I'd send all the data to HQ if I were you, to get it printed on the front page. lrs) (P.S.--Thanks for reporting. See you again next week? lrs)

John H. Oldfield, 11623 84 Street, Edmonton, Alberta, Canada

These stations are again carrying AN CBC mx only: CHWK-1270 (and its relay CFVR-1240), CFGP-1050, and CKPG-550 now using 10kw. All four are left unmanned during AN and carry no local ID except CBU and CBC (CGGP) network ID @ :00 and :30 (note Bob Astman). And for the "quality" DXer there's a new 40 watt relay at Clinton mines (40 miles west of Dawson), Yukon which relays CFWH/CBU on AN. Questions: Is CFCN-1060 using 25 or 50 kw. nights? (50 kw. day and 25 kw. nights. lrs) Is CKNL on 970 or 560? (560. lrs) I have 46 contest points. Ron Schatz: I am 100% in favor of your #2 and #4 proposals (p. 5, 12/25) but am against your #1 proposal. Anyone having s/on times of some Miss., Ala., and S. Car. stations. best heard here 0530-0630, and perhaps something on Vt., N. H., & R. I. stations. I need these states verified. Local CHQT-1110 may apply soon to Canada's BBG for change in night pattern...possibly less "protection" for KFAB. This clear channel protection so far away from KFAB is ridiculous. There are pros and cons concerning clear channels. I think it is almost as stupid as was the U. S. civil defense channels of 640/1240.

Bill Nittler, 4590 So. Julian St., Englewood, Colorado 80110

DX STILL remains practically non-existent at my location. However, did listen on 1/17 for a change but nothing new logged. Noted Radio Trinidad on at 0500 with religious program and very strong signal. To add another call to the 4VEF-4VEC controversy...when I verified them in 1961, they specified 4VE as the call for BCB. They were heard loud and clear on the AM of 1/16. TIRICA-625 apparently the SS on at 0515 on 1/16 also but didn't stay around for an ID...up late and just flipped across the dial before I went to bed. Received a promotion at the bank this week so things are looking up at this end. Only 3 more months of activity to complete for my year as President of the Englewood Jaycees. We have had an extremely active year and should finish near the top in Colorado competition. Sorry I haven't ordered my calls, Randy, but can't talk the kids into parting with part of their bottle cap collection! The spirit of co-operation still exists in the IRCA as at least two members have volunteered to take over the DXWW section. Park will be in Tuscaloosa now so perhaps we can make final transfer arrangements. Did get a v/1 this week in the form of CJME-1300 for their NRC DX. May make 2200 by season end yet. Only 3 stations reported thus far in 1966, Thank# to Larry Godwin for the magnificent article on foreign reception reports this week! 73.

Mike Hunter, 1703 Westwood Avenue, Richmond, Virginia 23227

Hello out there. Well, this week was pretty slow for DX, as I didn't get but once for any AM DX. 1/9 WVCU-870 1719 w/non R&R mx. Fair sig u/L. WZOK-1320 2125 w/ID & ABC programming. 1/10 WKEY-1340 0001 s/off w/SSB. No sign of CHOV spl. 1350 was a mess. 0024 ended my greatest want was satisfied with KFI finally plastering CMQ on 640. Calif. #3. WTAR signed off at 0031, and nearly broke my ear drums with a slightly piercing TT. WPAL-730 0034 on a f/c. Must be a r/c. Veries in are WQXR, WIBC, WJR, WMMW. Well I won't tire out Steve anymore, so 73 & send me a tape at 1 7/8 or 3 3/4 ips.

Elliot Straus, 27 Devon Drive, West Orange, New Jersey 07052

Hello again gang. Still haven't seen a DXM since Dec. 4. I don't get it. New DX is 1295-Crowborough, Eng. rpt. 785-R. Barbados 2000-2115 1/10. MM 1/10 saw new stations XEDM-1580, 647-Daventry, Eng., WRBC-1300 Miss., CHIC-790 Ont. YVKE-1100 Maracaibo, Venez. with a R. Reloj ID. Heard WABR test for the NRC. Also XELZ-1440 Mexico City. New veries in since last report are VOA Germany, CHOV, CJCH, WONE, CKK, & WDKD. Rewrote whole log and had to delete some stations. New totals are now stns 706/316. Sta 40/38. Prov. 7/7. Countries 16/6. Just received 834-R. Belize 1/10 2140. New Jones came and I found 10 mistakes in the first day. Glad it came though. Tnx for the info Dan. Took a dxpediton to Port Jervis last Sat. got 8 new stns. That's all new from this outlet till next time. See ya.

Tom Layde, 4968 N. Idlewild Ave., Whitefish Bay, Wisc.

Greetings! Hope everyone has a very Happy New Year! I wanted to stay out of the WPE controversy, but since I do have a number and cards, I may as well explain. I see both sides arguments and I wholeheartedly agree with Eric Westenberg's stand. If any card swappers wish to send me their card - I'll swap. Otherwise, me and WPE will be attached only as long as my WPE number-bearing sticker last. (Which, unfortunately, will be for sometime.) Now to the hobby for which we joined IRCA. DX: 12/18 WMIR & WMAD-1550 1420; 12/20 WMNI-920 0500 s/on; 12/24 WOC-1420 0100; WGHN-1370 1326; WKMF-1470 1722; 12/27 KCB-770 0120-0207 (only time audible here. WABC had TT for most of the time.); KNX-1070 0300 (I think they s/off.); GBA-1070 0305; WCOL & WCPO-1230 0335; 12/29 KELI-1430 0155; WMCA-570 0235; 1/7 WLBJ-1410 0045 (Is this the Pres. stn? Hi!); KFVS-960 0101 w/TT. Presents from the mailman: vq XELO, WAVE, W L, WKY, WKBN, WAMR, WBAM, WHN, WOC, KOB, and KNX. v1 KNOE, WKTY, WCOL (for a rpt in early Aug.), WGHN, & KELI. Totals 343/179, sta 38/37, prov 7/6, countries 7/4. 73 and Good DX!

Ralph Vatalaro Jr., 97 Rear Franklin St., Somerville, Massachusetts 02145

Hi IRCAers. Glad to see a lot of new names in the 12/11 & 18th issues. Give a hand to the EC, finally we had more reporters than the WC. (clap, clap, clap, hi) DX: 1/4 XEW-900 2230 weak u/CHML. A few words at a time came in but I could tell it was SS. Mysteries that nite: CBC-900 ??? at 2230; ID (missed it); R&R u/HN at 2245 CHUM??? (I've already sent them a report, do they QSL??)(CHUM is R&R and they do QSL--SRR) 1/5 WABY-1400 1801, ID only "This is WABY, in Albany", if that "in Albany" wasn't in the ID, that would've been another station not added to my totals. Veries: CHML & WHEB (CE just woke up after an 8 month nap, hi) Got my WPE call letter, but whypick on them? By the way, I'll swap 100% when I get my cards, and also if I owe you a card, you'll get it. Randy Seaver: Must we hear 30 countries to get in ur club?? By the way Randy, football caps expired on 12/5 here. (hi) Ed Marr, you will probably know this by the time this is printed but, hi means laughter. That's pretty good: "Let me in on the joke!" hilarious! I do not agree w/the FF report form, most stns. if sent the form will send back a ltr. in FF. If you send a rpt in EF, you may get an answer in EE, but sometimes you may rpt in EE to the right stn that may not have a translator or somebody, and RRRRIIIIPPPP. That's about the only time it should be used, when the stn never answers. 73 and good DX from WPEIGOP.

Jerry Walsh, 368 16th St. East, Owen Sound, Ont. Canada

Greetings; first of all, I am 100% against abolition of DX Forum, as suggested by RFS in 12/25 DXM. DXF is the only place where individual members can express their ideas and opinions of club matters. I do think, however, that DX Forum should be used for comment; not for long lists of letters, dates and freq. These could be incorporated in an enlarged DTI-DX Roundup, either in regional sections or continent-wide. Ron's ideas don't always agree with mine but at least he is not afraid to express them and try to help the IRCA to expand. We need many more members like Ron. All you "silent" members IRCA is a club not a magazine - you have a responsibility to keep your club alive. Recent DX: (all tips sent to DTI) MM 12/27 brought WQAM-560 0412 w/R&R mx, (con't next p.)

(J. Walsh's rpt con't)- KHOW-630 0429 strong, 0507 WIE-580, KFT-620 0525 my first low power Texan, WPHB-1260 0603. 12/29 0030 WMAX-570, 12/30 WJNR-1230 0500, XETRA-690 0515, 1/2 CTPA-1230 1915, 1/3 KTCR-690 1800, 1/5 WKLO-1080 1730, 1/7 WREO-970 1830.73 for now.

Ron Schatz, Box 5308, South, Univ. of Fla., Gainesville, Fla. 32601

Greetings from the Heart of the Deep South! Returned to this California-like clime on 1/6 (brrr!) and found several interesting postal items in 5308, including a ne'er-to-late Xmas card from a NE member. Thx for all Xmas cards; much cherished. And belated tnx to Horie Modell for a nice Jewish New-Year's card, tho I am not of that faith (Are Unitarians still persecuted? Hi.) Enough! I hope everyone read CMS's report which appeared in the ein/ein MONITOR on page "sechs". It is Stan's contention that my DF measurements do not indicate the actual location of R. Americas, since my bearings were theoretically thrown aside by "unnoticeable" jamming under RA's signal. However, read the article again, and you will realize that I obviously corrected the final result of my bearings to compensate for the "declinations" I mentioned caused by interfering carriers. Also, not the slightest trace of jamming was noted via any means of detection I have available to me while tuned to 1165, the nearest jammer being one of strength equal to RA's on about 1161 kc. Bearings were taken during pure daylight (during a tropical summer as well!) when both signals measured about S-5 at average. I calculated statistically that the effect of the undetectable jammer was negligible; i.e., hardly enough to make a difference in my final azimuthal reading, considering the other factors of deviation that I've had to take into account. Still, my correction factor may have been too large, and Americas may be East of S'an (by no more than 2°) as likely as it is West of it. I am presently preparing the second part of my article, "Radio Americas' Location - the Proven Facts" in which I will compare bearings taken by Gordon Nelson in Mass., Jack Keene in Houston, Clarence Freeman in Calif., and me in Miami. It should prove interesting, for Stan would be hard put to dispute the "proven facts", hi. (Don't give up, Stan!) And to end it all, the Gospel: No loop bearings have ever been more than "very good guesses", so I consider CMS' statement an unintentional compliment. OK, thanks to Nelson, Freeman, and Keene for info for the article. Patria o Muerte, Venceremos! And off I go to audition for WRUP-FM (103.7)! They didn't consider me last time because I was taking the wrong major; broadcast majors get first choice, and their "cream of the crop" include some very nauseating voices, a trademark of most college stations. But we'll see. Best auditioning to all prospective locutors. 73.

Mike Mitock, 1529 Nichols Ave., Lorain, Ohio 44053

Greetings to all. After a long absence I thought I'd let you all know I'm still around! Latest (?) DX: 12/18 XEM-900 w/S-9 signal f/2340-0019. Sent rpt. 12/27 KSYL-970 logged on monthly f/c at 0220. Later, at 0225, in came KFJZ-1270 w/an S-7 signal. Logged state # 27 in the form of WKY-930 0334. At 0455, notes PJB at S-9, w/CKLA off. A bit of a note: Don't look for NBC Monitor on WKYC-1100. They carry Monitor on FM only. 73 to all.

Bill Gerlog, 66 W. High St., Nazareth, Pa. 18064

Hi Gang! I haven't reported for a long time because I haven't been DX'ing for a long while. DX: 1/2 WCPC-940 1650; WKOK-1070 1700; WUST-1120 1715; WCAR-1130 1720; WHCU-870 1730; 1/13 WLCY-1380 1755; WOKO-1460 1800. My receiver is a car radio converted for use with A.C., rigged to an ordinary car antenna. Anybody have any tips or suggestions on how to get any Californians of TA's?? Steve R.: Just sent a report to WUST in Bethesda, do they verify?? (No.--SRR) 73 a gud DX 2 all.

John Whitehead, 2513 Whitehall Circle, Rockford, Ill. 61107

DX: 1/7 CJCA-930 0359, WGEZ-1490 (less than 20 miles but was first time they made it in) 2100, 1/8 KFYD-1400 0429, ~~XXXXXX~~ CJCX-940 0545, CKDM-730 0554, 1/9 CHAB-800 u/CKLW, @ 0406, CKVL-850 0500, 1/10 KGBS-1020 w/KDKA off at 0417, WCOC-910 1026, 1/12 WBAM-740 0400 (used loop to get rid of CBL), and WYZE-1480 0433. I was disappointed with KGBS. It's a shame to let a 50kw clear ch. station have C&W. BLAH. To Paul Lotsos: PJB is 525 kw, tower is 760 ft. tall, maybe your r&r station u/WOR is WHB. As some of you know I'm making a list of all stations in US, Mex., and Canada that have verified. I get some from the Monitor. I would appreciate you sending me a list of the stations you know verify. About the IRCA I think we should have a station of the month and a DXer of the month in addition to state of the month. I propose 5 separate parts to DXF. #1-Calif., #2-Ore., Wash., Idaho, Mont., Wyo., Nev., U., Ariz., N.M., Colo., Alas., Tex., & Hawaii, #3-N.D., S.D., Nebr., Minn., Ia., Kan., Mo., XEM Ill., Wisc., Okla., Mich., Ind., & O., #4-Ky., Tenn., La., Miss., Ala., W.Va., Ark., (con't next page)-

(J. Whitehead's rpt con't)- Ca., Fla., S.C., N.C., & Va., & #5 Md., Del., N.J., Penn., N.Y., R.I., Conn., Mass., Vt., N.H., & Me. Comments? QSLs since last report: WRFC-960 signed by S/P, & WGEZ both v/l, & v/q. two much wanted stations XETRA, KOGO, & WBT. I can't wait till April (baseball season). 73.

Bob Ziel, 222-89 Braddock Avenue, Queens Village, L.I., N.Y.

Hi Fellas! It's good to be back in the pages of DX MONITOR after a couple of weeks. I was in the hospital from 12/27 to 1/8 (nothing serious, just minor operation) so DX over the Holidays was naught. I stayed up MM, 1/10 (YARN!) and heard the following: WQXI-790 loud and clear 0315-0317; WCOP-1150 good 0320-0330 (wrote to them about a year ago and never received verie). An unID station on 1490 was logged f/0330 to 0415. They were strong at 0330 when first hrd and slowly got weaker over the 45 min. period. The DJ gave time two hours behind EST so it must have been in the Mountain Time Zone. The wx at stations location was "25 to 35 degrees below zero with blowing snow." I figure it to be somewhere in the Mont., Wyo., Colo. area and only 250 watts! At the time, a huge low pressure system was over the North Central States creating the snow and sub-zero temp. They played mostly Popular easy mx (Frank Sinatra, Connie Francis, Henry Mancini, etc.). Anyone know what station it was? More DX: WFUN-790 w/slight WEAN QRM 0424-0430; WSHP-1480, on a test for the NRC, had a great signal 0430-0442 w/JoAnn Campbell's mx (she's the cute blond that plays Honky Tonk piano on Lawrence Welk show, hi); WMBD-1470 0443 w/excellent signal; PCN-1460 strong 0448-0453 w/CW mx; WWSC-1450 good f/0453-0456; and WDEV-550 very good 0515-0520. There are alot of happy C&W mx fans on Long Island because of the new WTHE-1520 (x-WFYI). They changed their call on 1/1 at 12 noon. WTHE's DJ's call themselves the "Countryonauts" while WJRZ, their competitors in N.J., call their DJ's the "Countryropolitans." (that's almost as bad as "Good Guys," hi.) 73 and lots of great DX in the New Year.

Park Barton, P.O. Box 92, Tuscaloosa, Alabama

Everyone please note new address. This is now in effect. I will still get mail at Troy, but it will take a couple of days longer. Here is a project that I think every IRCA'er should feel a duty to do. Go to the post office, buy a postcard, get a magic-marker, write 'THANKS' in great big letters on the back, sign your name, and send it to Ed Krejny. This is one small way that we could say THANK-YOU for the magnificent job he has done for the IRCA the past two years. My card is going out with this report. Who'll be second? Of course the card will cost you 4¢, but you can't lose. What he has done for the club can't be measured by money alone. Here's the latest DX from Troy- 1/7 WHBG-1360 f/c TT 0001-0015, 1/9 WISK-1390 RS 1310, 1/10 KCUB-1290 s/off 0200 $\frac{1}{2}$. Here are some excerpts taken from a verie from Mr. Henry A. Pettigrew, CE, WSHO-800 New Orleans, La. "I want to thank you very much for your taped report of WSHO's sign off, recorded 1/4/66. This tape is of more value to me than all the letters any DX-er could write. Thank you." "I must apologize for the sloppy typing, for my secretary is out at the moment, and I wanted to get this letter off to you immediately." I was an active DX-er until 1958 when I got my Ham license." Once again, allow me to thank you for your most excellent and complete report. I only wish all the fellows would send a tape recording. I wish to congratulate you also on recording it at 7 $\frac{1}{2}$ ips. As you know this is the standard speed of the broadcast industry. None of your equipment is capable of 5 3/4." Wouldm't it be nice if all CE's were ex-DXers. enuf & 73.

Bob Astmann, 191 Louvaine Drive, Kenmore, N.Y. 14223

Hi Fellas! The mailman was very good to me this week bringing the following veries: WOSU, WJPG (6 months), KDON (Calif #4), WONE, WANN, WIBW (Kan.#2), WVOC (DX Spl.), WKID, WSGO & WHVR. DX this week was also good: 1/9 WRAD-1460 0600 s/on; WSGO-1440 0658 s/on. 1/10 MM CFAC-960 0400 for my frist Albertan; CKY-580 0415 w/excellent signals, yet I've never hrd them before. WKOW-1420 0430 w/ID as "the big K"; WHVR-1280 0500 s/on. 1/12 WSIG-790 1712-1715 s/off. Here is a report of our local and semi-local stns: WGR-550 is NBC w/daily s/off 0000, s/on sometime between 0500 & 0600. 930-WBEN is CBS w/daily s/on @500 (0600 SM). s/off is 0005 on MM and 0100 daily. There is always a short f/c after s/off but no ID. 970-WEBR is Mutual. Silent period is daily 0200-0505 (s/on is sometime later on SM). 1080-WUFO has Negro R&R w/ s/off at ISS. 1120-WWOL has religious programs and C&W mx in/s/off at ISS. 1230-WNIA-R&R, don't know s/on, but daily s/off is 0030. 1270-WHLD has adult-type mx w/s/off at ISS. 1300-WMMJ C&W mx s/off at ISS. 1400-WYSL ABC w/adult type mx off only on MM. 1440-WJLL adult type rx off at ISS. 1520-WKB. "KB" R&R w/Joey Reynolds nights - directional East. Off MM only 0000-0500 but tests 4th MM. Totals are 435/268. States 41/41. Prov. 7/6. Countries 8/7. 73 and best of DX.

Taped Reports to Foreign Stations
By Larry Godwin

This is designed to be a supplement to the article on taped reports in the 8/17/65 DX Monitor. There are several additional points pertaining to sending tapes to foreign stations that should be examined.

First, why send a taped report to a foreign station? I can think of five principal reasons:

- 1) The language used by the station may be a barrier to preparing a good written log.
- 2) The station may be audible for only a matter of minutes, as at sign/off or during a brief, unexpected silent period of an AN local station.
- 3) You may want to provide definite proof of reception of a network station. In some cases (as with NHK networks in Japan and ABC regional networks in Australia), programming on a number of stations is continuously in parallel. By taping the call ID on the hour or at sign/off, you can prove that the network station you heard was such-and-such.
- 4) During unusual openings, your DXing time may be at a premium. For example, if you are hearing several Peruvians on late for a fiesta, instead of taking accurate program logs on each you may prefer to tape good ID's for your reports. I would choose to maximize the number of reports during the unusual opening, subject to good tapable material, of course.
- 5) If you are sending a tentative report particularly, the station may be able to recognize the announcer's voice on your tape. It is rather difficult to describe voice characteristics in words, so a tape may be your best bet.

What is the general reaction of foreign stations to taped reports? I have received many favorable reactions, particularly from New Zealand and Australian stations and from several in Latin America. I cannot recall any unfavorable comments.

What, then, should be the procedure for sending a taped report to a foreign station? Obviously, first you should tape a readable ID, or for purposes of a tentative report, at least several readable announcements. The volume level should be properly adjusted, low enough to prevent distortion yet high enough to permit listening without having to turn the recorder volume above normal. If you plan to send the station your original tape, record it at $7\frac{1}{2}$ IPS on one track only. (Half-track is preferable to quarter-track, since the former will sound better on a full-track machine at the station.) If you send the station a copy of your original tape, make sure the transcription is free from hum and, of course, at $7\frac{1}{2}$ IPS, single-track. Sending a copy of the tape has two advantages: 1) You retain the original for following up in case no verie results, and 2) You don't lose a valuable addition to your tape library by sending out your only copy.

On the subject of tape speeds, I asked 4QN which ones are acceptable in Australia. The reply was $7\frac{1}{2}$ and 15 IPS. I think you are taking a great risk if you send taped reports at any other speeds, regardless of the location of the station.

This brings up another point: Do all stations have tape recorders? I think the answer is "yes" in this day and time.

The tape that you send should be of good quality, ie it should be relatively new stock and should contain few, if any, splices. Some "discount-price" tape I have seen would not qualify for sending taped reports. To save postage expense, send tapes to foreign stations on thin Mylar stock, if possible. If you have leader tape, put a short segment at the beginning and end of your reel to dress it up a bit.

Actually, you have the choice of sending your tape on a reel or on some type of card stock. Reels are rather expensive (about 15¢ each) but the tape arrives at the station ready to play. Winding your tape onto a card is cheaper and your report will weigh less, but the station personnel will probably have to unwind it onto a reel, if it is any length at all, to play it. Also you are limited in the amount of tape you can wind onto a card as compared to a reel. There might also be some confusion as to which end of the tape is the start and which is the finish on a card. Incidentally, I received a verie from OAX4A, against its standard practice, only because the manager was interested in the reel I sent and wanted to order some for his own use. If you send your report on a reel, be sure to enclose it in a small box (usually included in the purchase price of the reel) to protect it in transit. It is a good idea to

print your name and address on the box, as well as the station call or slogan. The latter may be particularly important to avoid confusion if you are sending more than one taped report the same day.

Once you have your tape ready to send, I recommend you enclose it with your written report, return postage, etc., in a Columbian clasp #25N envelope (4-5/8 x 6-3/4 inches). The envelope is a strong one yet light-weight, and sells for 4¢-5¢. You may have to detach the clasp prongs, however, as is necessary when sending air-mail packets to South Korea. Check with your local post office.

How should you send your taped report, by airmail or surface mail? In either event, it must go first class and hence need not be left unsealed. If the report goes to Australia, it could be delayed easily one month by going surface mail as compared to 4-5 days airmail, but the rates are considerably cheaper. (See end of this article for a summary of postal rates.) Be sure to take advantage of domestic postal rates when they are available (eg. Hawaii, Puerto Rico, Mexico, and certain stations with APO boxes, like HLKX). Have the Post Office weigh your report (it should be 1½-2 ounces, depending on the length of the tape) to determine the exact postage required, and I recommend the use of meter tapes rather than stamps on the envelope. (Your report may otherwise be snagged by a postman because of the pretty stamps on the outside.) If you want to send some cancelled stamps to the station, put them on the inside of the envelope.

If you send tape reels to certain areas (including all of Latin America, especially Brazil), I recommend you register your reports. The flat registry fee is 60¢, and could well make the difference between the report's arriving or not. If you have already invested 15¢ for the reel and 39¢-\$1.00 for postage, the extra 60¢ would be warranted. However, I don't think it is advisable to register packets to New Zealand, Australia and most European countries; it is required for air packets to South Korea. Two taped reports that I sent registered to Chilean stations in 1964 were returned unclaimed, perhaps because an import duty was attached, so keep this in mind when reporting to this country. If you register your taped reports, the envelope must be completely sealed (note that Scotch-type tape cannot be used).

Whether or not you request the station to return your tape is up to you, but if you do, it may decrease your chances for a verie. You should include additional return postage if you want the reel back. If you make no request for the tape's return, you are showing good will to the station and may receive special consideration. Some stations will return your tape gladly (eg. BBC, New Zealand stations, etc.), but they are, I think, exceptions. I have never received a tape returned from a Latin American station, except from the two Chileans already mentioned.

What is the cost of a taped report:

Reel and box	\$.15
Recording tape	.05 - .25 (depending on length)
Leader tape (optional)	.02
Columbian clasp #25N envelope	.05
Postage	.39 - .75 for 1½ oz.; .52-1.00 for 2 oz.
Registry (optional)	.60

Postage rates vary according to the area of the world concerned. For precise information, get a copy of "International Mail" (POD Publication 51) free at any Post Office.

North America mainland: domestic rates apply (includes Mexico).

Central America (includes Caribbean islands): 13¢/½ oz. airmail, 11¢/oz. surface.

South America: 15¢/½ oz. airmail, 11¢/oz. surface.

Europe: 15¢/½ oz. airmail, 11¢/oz. surface. Note: Air rate to USSR is 25¢/½ oz.

Africa: 15¢/½ oz. airmail to northern countries, 25¢/½ oz. to central and southern countries; 11¢/oz. surface.

Asia, Australia and Pacific islands: 25¢/½ oz. airmail, 11¢/oz. surface.

- 530 JO8AD Moreoka City, JAPAN is an experimental NHK 1 station operating to check the practicability of using 530 as another NHK frequency. It is now operating with 10 kws.. This information is from the NRC. That answers my question about the NHK station here. It will probably get a four letter call later. (AP)
- 600 HJHJ Barranquilla, COLOMBIA is believed to have been the SS station on top of this frequency 1/17 at around 2110. It was badly garbled, but I caught mentions of "Barranquilla" and "Colombia". (ELK)
- 646 HIAT Santo Domingo, DOMINICAN REPUBLIC, R. Universal, was logged on this frequency on 1/17 from 2111-2130. Only a slogan ID was heard, but the signal quality and loop bearing agree that this is HIAT. (ELK)
- 650 XEZM Zamora, MEXICO was atop the frequency on 1/8 at 0825 with an ID as simply "ZM". (LBG)
- 695 TGHR Guatemala, GUATEMALA, R. Mundial, is probably the SS station that signed off at 0104 on 1/12 and at 0105 on 1/14. The program featured marimba music and the signal was quite a bit weaker than XEN's was a couple of months ago. (LBG) Is probably what I heard 1/16 from 2320-2350 with XETRA off for "La Hora Nacional". There was no LHN on 695 as XEN would have broadcast, and no "La 'N' Mexicana" IDs, so this leads me to the conclusion that this was TGHR. (RJS)
- 700 2NR Grafton, AUSTRALIA continues to conduct an ET with TT after their s/off. at 0905. It was particularly strong 1/11 and the test seemed to end at 0916. (LBG)
- 715 HRTV Tegucigalpa, HONDURAS, Radio-Television, was heard with a call ID and slogan 1/17 at 0606. Nice, with KMPC off. (RJS)
- 760 YSKL San Salvador, EL SALVADOR was noted at 2356 on 1/16 with a "Radiocadena YSKL" ID amidst a jumble of signals; including the Cuban. (ELK)
- 773 Radio 390, INTERNATIONAL WATERS verified my report of November with a QSL card to become my 5th. "pirate" verie; and also my long awaited 2000th. overall verification! (ELK)
- 780 JOIU Muroran, JAPAN sent a very friendly letter, NHK QSL card, and 8 NHK postcards for my report of 11/23. Mr. Makoto Kinoshita wrote that the station boosted power from 1 kw. to 3 kws. on 30 December 1964, but that most of the signal is directed to the interior of the country. He also said that he read my letter to the station on the local TV station. The station hasn't been in well since mid-December, but I heard the s/off 1/13 weakly at 1000. (LBG)
- 785 Black Rock, BARBADOS sent the standard form air-letter to verify my report of 12/9. The v/s is Dennis Vance, GM; and the address is, fittingly, PO Box 785. (LBG)
- 810 WKVM San Juan, PUERTO RICO returned the postcard of San Francisco that I sent with my tentative report of 1/3, writing on it that "Such is correct". The v/s isn't legible, but he's the station's President. (LBG) (Red-face Department) Larry thinks that this is my "Radio Reporter" of weeks past on the basis of San Juan news items. (RJS) (And also on the basis of veries, hi - ed)
- 820 YVSH Upata, VENEZUELA was heard with "Rumbos" news and chimes in // to 770 on 1/17 at 0510. (The location is Guayana per the NRC.) (RJS) (Ah, but it's really this location per their verie, Randy. Their slogan is, however, Radio Guayana - ed)
- 830 XE??? (?), MEXICO - I heard a 5 letter call several times, but not clear of WCCO, on 1/16 from 1945-2000 apparent s/off. (RJS) (Randy, XELTM in Navaloto was reported here. See DXWW, 4 December 1965, page 3 - ed)
- 850 KIMO Hilo, HAWAII was atop this channel with a newscast 1/8 at 0245. (LBG)
- 871 HCN2Y2 Guayaquil, ECUADOR - I'm 90% sure that this was the station that IDed at 0217 on SM 1/9; the slogan sounded like "Radio Cristal". Did you note this one drifting, Ed? (LBG) (I didn't listen long, Larry. They may have been off frequency, but I didn't notice - ed)

- 879 XETZ Tequila, MEXICO is the Mexican here, I still think. On 1/8 from 0835-0839 I heard several commercials for Guadalajara which is very near Tequila. The VJ log lists a CP for Zapopan on 880 (It is also near Guadalajara), however, so maybe XETZ is now located there. Does anyone know for sure? (LBG)
- 955 TGAX Guatemala, GUATEMALA was logged for a report on 1/15 from 2211-2230. Fairly good signal, but there was severe QSB. Marimba music was featured after 2215. (ELK)
- 1000 YVOB San Cristobal, VENEZUELA, La Voz de Tachira, was heard with an ID on 1/17 at 0456. (RJS)
- XEFV Ciudad Juarez, MEXICO was heard with a call letter ID at their 1935 s/off. (RJS)
- 1025 Safi, MOROCCO is presumed to be the identity of the station heard in Arabic here on 1/17 at 0028. Not too good a signal. (ELK)
- ???? An UnID SS station relayed a WWV TC on 1/10 at 0610; it sounded a bit unusual at the time. It was probably TIAC. (LBG)
- 1025 ???? There was a weak station here MM 1/10 from 0600 to past 0730 that was probably located in Asia. I couldn't hear the language very well, but any SS station would have faded by 0700, I think. Did anyone else hear this? (LBG)
- 1035 4VEF Cap Haitien, HAITI - Does anyone know the true call letters of this outlet? The FBIS lists 4VEC; WRTVH says 4VEF. The station's QSL has 4VEC printed on it, but it has the typewritten entry 4VEF. Who's right? Even the station can't seem to decide. (AP) (As far as I know, Art, 4VEF is correct. This was specifically pointed out on a 1963 verie I received. However, 4VEC was the call used in 1956 when this station was on 1195. I think we in the U.S. have a tendency to place too much emphasis on a station's call, certainly more so than the station's no themselves! - ed) Was heard 1/12 carrying LBJ's "State of the Union" message, in SS; presumably from the VOA. This was at 2330 and on. (RJS)
- 1040 LPRG2 Sao Paulo, BRAZIL IDed as "Radio Tupi" about even with KHVH on SM 1/9 at 0145. (LBG)
- 1042 A???? I'm hearing Randy's mystery SS station here too. On 1/6 at 2315 I believe I heard a TC for EST. Unfortunately, it wasn't in well on SM 1/9 when WHO was off. (LBG)
- 1100 A???? Two SS stations were battling here from 0040-0050 on 1/17. One was obviously HJAT, but who was the other? (ELK)
- 1137 A???? An UnID LA station was here 1/17 at 0612. No IDs were heard. (RJS)
- 1150 A Vladivostok, ASIATIC RUSSIAN SFSR might have been the UnID station here MM 1/10 with a curious melody IS played 3 times each at 0430, 0500, and 0600. Also at 0600 it played 5 pips, spaced 1 second apart. There was interference from what I presume was JOKP, which was noted with NHK pips. (LBG)
- 1160 3XC Timaru, NEW ZEALAND was surely the EE station with British-type accent giving NZ news at 0437 on MM 1/10. Unfortunately, the signal faded rapidly and it didn't reappear the rest of the AM. I've been after this one for 7 years, and I hope to have a good report to send them this spring. (LBG)
- 1170 A???? An UnID LA station was logged with a "La Voz de Campodor" or similar ID on 1/17 at 0530 o/ WWVA. (RJS)
- 1196 Munich, WEST GERMANY - My request for a verie that specified the frequency was answered by a letter that said "The QSL that I am returning is not designed to include the type of information you seek." (RBC)
- 1200 KZOO Honolulu, HAWAII was very strong at s/off in EE 1/10 at 0400. (LBG)
- 1325 4VW Port-au-Prince, HAITI, R. Haiti, was logged for a report on 1/18 from 1857-1925. Fair signal. (ELK)
- 1395 HCVE4 San Jose de Chimbro (?), ECUADOR - No IDs have been heard yet, I noted it on 1/12 at 2332 and on 1/17 at 0602 with an S7 signal; nice. (RJS)

- 1395 HCVE4 (cont.) (Where did you find this location, Randy? This station is still in Esmeraldas as far as I know - ed)
- 1525 TIEEAV Turrialba, COSTA RICA sent a note thanking me for my taped report of 12/27; I'm counting it as a verie. The v/s is Humberto Sabrio B., Gerente. No address is indicated. By the way, the call letters on this one are correct. (LBG)
- 1562 ???? An UnID SS station was noted here very weakly, barely audible, although it was hetting 1560 pretty badly, on 1/17 from 2050-2055. It seemed to be broadcasting news, so presumably it was CMGB. (ELK)
- 1580 YNE Managua, NICARAGUA is still tentatively the SS station here. It was heard again 1/10 at 0529 when I believe "Managua" was mentioned along with the frequency. (LBG)
- "PIRATES" Radio Essex has been noted from 1800-2200 with the "Essex Beat Club" on 1350. (WRB)
- ADEN Although reports for the 701 relay station should normally be sent to London, the Aden address is: BBC Middle East Relay Station, PO Box 5153, Ma'alla, Aden. (WRB)
- BECHUANALAND This country is scheduled to become the Republic of Botswana on 30 September 1966. According to a Bechuanaland Government statement the BBC relay station will be closed sometime during 1966 as this country is not unfriendly with Rhodesia. (WRB)
- INDIA All India Radio, PO Box 28, Chandmari, Gauhati broadcasts the "A" program on 730 from 1930-1230 with news in EE at 2130, 0300, 1030 & 1200. (WRB)
- MOZAMBIQUE The corrected sked for Radio Clube de Mocambique is: "A" program on 737 at 2330 (Sunday 0015)-1600; "B" program on 917 at 1000-0000, and on 1358 from 1000-1800. (WRB)
- NORTH VIETNAM The Voice of Vietnam in Hanoi has been on 1240 since 1 December 1965 as follows: 1800-1830 and 0800-0830 a special program for U.S. servicemen in South Vietnam; 0500-0530 and 1030-1100 news bulletins and features for overseas listeners. Additional features are: programs from Radio Pyongyang every Tuesday and Friday from 1030-1100; Vietnam Mailbag on Sunday from 0515-0530 and 1045-1100. These transmissions are broadcast in EE. (WRB)
- SAUDI ARABIA The Foreign Service of Saudi Arabia Broadcasting is transmitted in EE on 725 from 0600-0700 and 1200-1500 only. The Voice of Islam may be heard at 0955-1135 on 602, 647, and 725. Still planned is a 1200 kw. MW transmitter. (WRB)
- SWAZILAND The Swaziland Broadcasting Service at Mbabane will be in operation in mid-February on 881 with 10 kws.. The sked is to be 1100-1330 initially. (WRB)

Contributors this week were:

RBC	Dick Cooper	MASSACHUSETTS	AP	Art Peterson	CALIFORNIA
LBG	Larry Godwin	CALIFORNIA	RJS	Randy Seaver	CALIFORNIA
ELK	Ed Krejny	OHIO	WRB	<u>World Radio Bulletin</u>	

Regarding the Exact Location of Radio Americas

by Gordon P. Nelson, National Radio Club

Until recently all attempts to obtain high precision direction finding bearings on Radio Americas have been thwarted by the presence of considerable amounts of RF energy from Cuban jamming stations on the frequency. During late December, however, Radio Americas managed to evade its jammers long enough to permit a set of high precision measurements from Watertown, Massachusetts. The results are as follows:

The mean center bearing for Radio Americas passes within 23.3 miles of Great Swan Island; the total possible error in this measurement is + 36.1 miles at the

distance of Swan. We therefore conclude that the bearing for Radio Americas is the same as the bearing for Swan Island within the accuracy of the experiment.

Since any published report of a direction finding measurement which does not describe the exact method employed is of questionable validity at best, we shall describe the technique used to arrive at this result.

Receiver: A receiver designed especially for MW direction finding was used for these measurements; a network of mechanical and crystal filters provided the IF bandlimit of approximately 0.3 kcs necessary to guarantee that no QRM was received from jammers on nearby channels. An audio tone proportional to the strength of the received carrier was produced by injecting a heterodyning carrier into the receiver IF stage; the resulting audio tone was then narrow-bandpass audio filtered. Extinction of this audio tone provided an indication of the position of the antenna null point.

Antenna: An experimental high gain DF loop antenna was used for these experiments. This antenna is fully shielded and electrostatically balanced and has a null depth of less than 0.5° at -35 db. Total null depth is -47 db and measured reciprocal asymmetry is less than 0.1° . Angular calibration is good to 0.05° .

Method: Instead of relying upon exact calibration it was decided to measure the bearing to Americas relative to a station of known bearing, in this case YNOL-828 in Managua. The precise great circle bearings to Swan Island and to Managua were calculated by spherical trigonometry on a large electronic computer and these expected values were then compared to the observed bearings. YNOL was chosen to be the reference station because the bearing to Managua is almost identical to the bearing to Swan as viewed from Watertown; thus slight ionospheric perturbations of signal path and polarization should tend to be equalized in view of the similar path geometry.

Results: Each single bearing measurement was made to the nearest 0.1° and great care was taken to avoid systematic errors as well as operator bias. 75 independent measurements were taken on YNOL and 150 on Americas over the space of 4 hours in toto:

YNOL calculated:	207.95 $^\circ$	YNOL Mean Measured Value	207.84 $^\circ$
Swan calculated:	207.53 $^\circ$	Americas Mean Value:	206.68 $^\circ$
Expected Difference:	0.42 $^\circ$	Measured Difference:	1.16 $^\circ$

ANOMALY = $+0.74^\circ$ (= 23.3 miles at the distance of Swan Island)

Error Analysis: There are three likely sources of error in this experiment, scale reading error, statistical sampling error, and "pulling" by inaudible weak jammers: (a) Estimated uncertainty due to scale reading errors is $+0.1^\circ$. (b) The statistical uncertainty is estimated as follows: the standard deviation of the mean from the mean for YNOL was 0.26° ; for Americas it was 0.22° . Assuming Gaussian statistics (both samples passed all of the usual tests for a Gaussian distribution), the standard deviation of the difference of the means is then 0.36° . At the 95% confidence level, the likely possible error is then $\pm 0.67^\circ$ at most. (c) The maximum possible error due to second station "pulling" (see "High Precision Direction Finding on the MW BCB, Part I", NRC Bulletin, 12/15/65) will occur if the unheard jammer is located on the far eastern tip of Cuba; the greatest possible strength that such an undetectable jammer could have is -30 db with respect to Americas. We then calculate the greatest possible error due to this effect as $+0.37^\circ$. The overall error bracket is then $\pm 0.1 + 0.67 + 0.37 = \pm 1.14^\circ$. This corresponds to a distance of ± 36.1 miles at the distance of Swan Island. Thus we decide that the apparent anomaly of 23.3 miles is well within the expected limit of error in this experiment. While this measurement cannot be taken as absolute proof of the location of Radio Americas on Swan Island, it is nonetheless strongly suggestive.

An additional late item from Sweden Calling DXers:

Radio Mayflower is expected to start operation in April from the Wash near Boston, Lincolnshire.