

DX MONITOR

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OF THE



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RADIO CLUB
OF AMERICA

DEVOTED EXCLUSIVELY TO BROADCAST BAND DXING

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NEW MEMBERS

Richard Ivy, Mission Viejo, CA
Richard Richmond, Waverly, RI
Robert Kjolseth, Auburn, CA
Doug Allen, Woodland Park, CO

NOTES FROM HQ

A Beverage Celebration: October 14 marks the 95th birthday of Harold Beverage, the inventor of the Beverage antenna. As a way of marking this occasion, Nick Hall-Patch has suggested having a series of Beverage antenna expeditions around that date. Speaking from experience, a Beverage expedition is a lot of fun and a great way to start the season. If you go through with it, be sure to report your results to DX Monitor. Harold Beverage incidentally is still alive and living in a small town in New York. (And for the newcomers, a Beverage antenna is a long straight wire. It's highly directional if you make it long enough, like 1500' or longer).

Next DX Monitors will come out October 8, then October 22, and weekly thereafter.

Convention 89: The 1988 convention was enjoyed by all who were there -- our thanks to Ted Fleischaker for another wonderful gathering. If you'd like to host the 1989 convention, then contact president Zuk right away for a bid form.

FLASH TIPS

We'll begin this issue with the latest word on Radio Newyork International. Karl Zuk says the station has left Boston harbor in their ship, Sarah, and as of September 16 is anchored at their intended broadcasting location. All is ready, but they have not started broadcasting yet (the transmitter crystals are back on the mainland). They are presently trying to get a favorable court decision, allowing them to broadcast without the inconvenience of the Coast Guard and the FCC going aboard. If they are successful, they will begin broadcasting on 1620 & 6240 kHz and 103.1 MHz.

Some major changes are in the making in the New York radio market. Karl Zuk explains it this way: WNBC-660 is being sold by GE/NBC. WFAN-1050 has also been sold and will move to 660 with sportstalk & Imus in the morning. WSKQ-620 will move to 1050, and the 620 spot (now Spanish) will be owned by the wife of WSKQ's present owner. However, Billboard (Sept 3 issue, via R. Wien) says the 1050 spot will become WEVD, which will move their big band format from 97.9 FM, and WSKQ will stay on 620 with a Spanish newstalk format and have a separate Spanish mx format on 97.9. To add to the fun, WOR-710 has been sold by RKO to Buckley Broadcasting, and may change call/format change while WNEW-1130 has been sold to a group including Westwood One, which will thin out the big bands and add more talk. Meanwhile, on the FM band WYNY-97.1 is being sold by GE/NBC and will move to 103.5 with a country format, and WQHT-FM will move from 103.5 to 97.1. Why does this sound like an Abbot & Costello routine about baseball players?

Meanwhile, out in Denver, KNUS-710 abruptly dropped their all news format at 1:05 pm MDT on August 25. According to the Rocky Mountain News (via Rob Harrington), the owners called everyone into a meeting at 1 pm and told them they no longer had

jobs, at 1:05 pm KNUS started re-laying KBPI-FMs rock format.

KWKW-1300 Pasadena, CA has purchased KFAC-1330 Los Angeles for \$8.75 million, and will move to 1330, which has a more northerly signal and can reach Latinos in the northwestern San Fernando Valley (KFAC-92.3 will continue w/classical mx). A new station, KAZN (K-Asian) will take over the 1300 spot, and become the first N. American station to devote 100% of its programming to Asians, with 4-6 hour blocks each to JJ,CC, KK, Filipino & Vietnamese pgms. The moves are scheduled to take place in Mid November. (via Steve Mittman & Father Jack Pejza)

ODDS AND ENDS

For Sale or Trade: DX Monitor, fall 1975 through 1985. Will trade for old issues of Sky & Telescope and/or Astronomy, or make cash bid. W.T. Farmerie, 62 Sunrise Avenue, Grafton, MA 01519-1006.

Sticker Collectors: We've gotten a couple inquiries from overseas collectors of radio/TV stickers. They are Geoff Wolfe, 40 Charlton St, Mt. Waverley, Victoria, 3149 Australia; and Manfred Landzettel, Schumacherstrasse 5, 6052 Muhlheim 3, West Germany. Write them if you're interested in trading with them.

A Seattle Gettogether: There will be a DX gettogether on Saturday, October 15, 1988 at the home of Tim and Sue O'Hare, 20023 84th West, Edmonds, WA 98020 (206)778-3668. Things will start around 2 pm. Around dinner time, spaghetti, lasagna, etc will be served for \$4 a head. All DXers are invited, bring radios, junk food, etc.

PRESIDENT'S REPORT

The following proposals will soon be voted on by the IRCA board of directors. Write to president Zuk or the board members if you have any comments you wish to make on them.

- Confirm Ray Bauernhuber as EDXR ed
- Confirm Floyd Perry as Goodie Factory (reprints) manager.
- Supply Popular Communications with a free subscription to DX Monitor in return for publicity in their magazine.
- Approve either Albert Lobel or Lynn Hollerman as ANARC computer bulletin board rep.
- Raise dues to Canada to \$22 for two issues every two weeks and \$30 for one issue every week (increase due to higher postage rates to Canada).
- Raise the cost of reprints to:
 - 13 cents US & Mexico members
 - 14 cents Canadian members
 - 16 cents US & Mexico nonmembers
 - 17 cents Canadian nonmembers
 - 16 cents IRCA members surface mail overseas
 - 19 cents IRCA non-members surface mail overseas
 - 25 cents IRCA members airmail overseas
 - 25 cents nonmembers airmail overseas

Above costs are per page of reprints

- Drop complimentary subscription to WRTVH (The WRTVH MW info is compiled by an Arctic Radio Club member who already receives our bulletin, so the WRTVH copy is redundant).
- Run a double page pullout ad in DX Monitor, so you can pull it out and hang it up at work, send it to friends, or whatever.

NY POST 9/14/88 via Ray Bauernhuber



New York Post: Bruce Center

ROCK THE BOAT: The freighter Sarah is anchored off Long Island, set to fill the airwaves with rock 'n' roll.

Pirate radio ship is back making waves off L.I.

Sarah, the freighter that housed a "pirate" radio station that made waves here last summer, is back — anchored off Long Island while her managers await court approval to go back on the air.

"We are establishing our maritime right to be there," says Randi Steele, 31, of Queens, the operations manager of what is billed as Radio Newyork International, or RNI.

The ship had been in Boston Harbor until it was towed back to Long Island's south shore, where it is anchored 4½ miles south of Long Beach.

The 170-foot freighter, which has passed Coast Guard inspection and is properly insured, is equipped with shortwave and long-wave transmitters that "are ready to be fired up at a moment's notice," Steele says.

Even so, Steele has promised not to go on the air until he has

cleared all legal hurdles.

Station officials recently ran a classified ad, requesting people interested in "hard work" and "living at sea."

The pirate station was knocked off the air last summer by the Federal Communications Commission, but Steele argued that the ship was beyond the three-mile territorial limit of the U.S. and, therefore, not bound by FCC regulations.

The station broadcast briefly on 1620 on the AM band, 103.1 FM and 624 on shortwave.

Steele says RNI plans to resume broadcasting only on 1620 AM, "which no one has alleged causes interference to anyone."

The station broadcast for four nights in July 1987 before government officials raided the ship.

The charges were dropped after a month. No one was ever prosecuted, Steele claims.



Eastern DX Roundup
Editor: Ray Bauernhuber
141-12 243 St., Rosedale, NY 11422

DEADLINE: September 22nd

=====
(RB-NY 1) Ray Bauernhuber, DX'ing from Cooperstown, NY
Sony ICF-2010, Telescopic Antenna
(RB-NY 2) Ray Bauernhuber, DX'ing from Rosedale QTH,
Sony ICF-2010, Telescopic Antenna + Shotgun Loop
=====

730 WDOS NY, Oneonta 8/23 0835 EST: Good signal with NX, SPX,
and WX with Kathy Francis. ID = "Steve Bernardo on
730, W-D-O-S, Oneonta's 1st Station." (RB-NY1)

800 CKLW ON, Windsor 9/5 0145 EST: Good signal with a MYL
format with host, Bob Bowers. ID at 0200: "AM 800,
C-K-L-W." (RB-NY2)

910 WRKL NY, New City 9/5 1640 EST: Fair signal with AC Mx;
'Lost Dog Bulletin' and announcement of the Tappan
Zee Electrical Engineers get together. (RB-NY2)

940 WINE CT, Brookfield 9/5 1650 EST: Good signal with Oldie
R&R format. ID = "Solid Gold, 940, W-I-N-E."
(RB-NY2)

1070 WKMB NJ, Stirling 9/5 1445 EST: Poor-Fair of a 250 Watt
station featuring C&W music. ID at 1456. (RB-NY2)

1110 WBT NC, Charlotte 9/5 0230 EST: Very strong signal with
AC Mx, local WBT soccer promo and plenty of ID's:
"68 degrees and raining in the Queen City of
Charlotte." (RB-NY2)

1190 WSCM NY, Cobleskill 8/23 0900 EST: Good signal with NX
followed by "...and that's the news at 9 at
WSCM." They then went into a discussion about how
much time and water people use when taking a
shower. (RB-NY1)

1200 WAGE VA, Leesburg 9/4 2335 EST: Fair with C&W mx (a
tribute to Patsy Cline); host Cal Everett. ID =
"W-A-G-E, Your Sound Choice." (RB-NY2)

1230 WLFH NY, Little Falls 8/23 0915 EST: Good with C&W mx;
"Your chance to win on W-L-F-H, Country Quiz"
followed by Maxwell House Coffee promo. (RB-NY1)

=====
Not too much of a column this time, probably (I hope, hi) due
to last minute barbecues, etc. as summer wanes. Now that Labor
Day has passed and cooler weather prevails (finally!), I hope
loggings will pick up. Remember, the next deadline will be
September 22nd. Till then, good DX and 73's from Mr. "B"

A DXer's TECHNICAL GUIDE

Now in its 2nd edition, this 120-page book answers questions on how receivers work, how to make them work better, what audio filters and loop antennas will do for you, how to build a beverage and phasing unit, and much more. Only \$5.50 for members, \$6.50 for nonmembers (\$2.00 extra for overseas airmail). Write IRCA, P.O. Box 21074, Seattle, WA 98111.



WESTERN DX ROUNDUP

2301 PACIFIC AVE., ABERDEEN WA 98520

DEADLINES FOR WDXR TIPS: MONDAYS

REPORTERS FOR THIS ISSUE:

- (JH) Jim Hall-240 Byron Road-Pittsburgh, PA 15237
- (BHI) Bill Hardy-DX'ing on U.S. 101 between Discovery Bay & Lake Crescent, WA
Delco car radio
- (GL) Gary Larson-2806 Lincoln-Burbank, CA 91504
- (PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138
SP-600JX, 200' NE term. wire, 1500' E. Beverage, 500' NNW wire,
2 rods--ground system
- (5P) Dale Park-2253 Kanealii Ave.-Honolulu, HI 96813
- (FPJ) Floyd Perry Jr.-6408 Morgan Pl. #218-Stockton, CA 95209
Sony FM/AM stereo-corder CPS-W501 with no external antenna
- (bp) Bruce Portzer-DX'ing at Sombrio Beach, BC
Yaesu FRG-7 with 1500' E-W Beverage
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE Superadio, GE long-range portable, SM-2

OF SPECIAL INTEREST:

- 600 CHRX BC, Vancouver ex-CJOR 9/4 0829 call/format change with rock
oldies & IDs as "Classic rock AM 600, CHRX." (bp-BC)
+9/11 1830 "Where you never have to wait for a classic on
Vancouver's classic rock, CHRX." Doors music. Strong on new
Beverage. (PM-OR)
- 970 KOOK CA, Modesto 8/29 0900 ex-KHYV. They have just switched calls,
that's all. Format still rock oldies via SMN's "Pure Gold." (FPJ)
+9/5 1427 good with several local spots, ID "AM Stereo Oldies
970, KOOK, Modesto." Call change, ex-KHYV. Thanks to FPJ for
this tip! (RW-CA) (It's hard to believe KOOK-970 is Modesto, CA
and not Billings, MT!--NH)
- 1320 KSMX WA, Walla Walla 9/7 1005 fair over KXRO with Spanish program in
morning. ID in Spanish, spots for Safeway & Bimart. Haven't
heard since they were KHIT. (PM-OR) (Also ex-KAFR.--NH)
- 1340 KMAK CA, Fresno per call, will change calls to KKAM & pick up SMN's
"Heart & Soul" format on Monday Sept. 12. (RW-CA)
- *****
- 570 (KLAC) CA, Los Angeles 8/22 0255 noted off, KSFO-560 in fair. (GL-CA)
KISN UT, Salt Lake City 9/6 0212 fair over KVI with rock, "Kisin"
ID. (PM-OR)
- 620? *KGW*? OR, Portland 8/22 0411 susp. loud with tone looping north in
KTAR null. (RW-CA) (Why not KWSB?--NH)
- 660 KGDP CA, Orcutt 9/3 0900 fair with s/on, giving power as 10kw day/
1kw nites, rel., followed by SSB, then soft music. (PM-OR)
- 690 KQMQ HI, Honolulu now operating in AM stereo, using the Motorola
system since April. This is HI's 2nd AM stereo, KIKI-830 is
the first. (5P-HI)
- XETRA BCN, Tijuana 8/29 has switched from rock oldies (69 Extra Gold)
to news/talk. They carry the syndicated morning talk show "Rush
Limbaugh" // WABC & KFEK, bringing back the "CBS Mystery Theatre"
and they have ABC news on the hour. They ID as "Extra news-talk
690." (FPJ-CA)
- 750 KFQD AK, Anchorage 9/8 ID under KXL at 0133. Sounded like sports
promo. (PM-OR)
- 790 (KABC) CA, Los Angeles 8/22 noted off at 0300. (GL-CA)
- 850 KBBM OR, Waldport 9/6 0930 poor-fair with KSWB-840 splash. Big Band/
MOR music, ID & weather. Also noted 9/4 & 9/5 but not as good.
Not bad for 250w next to a local. Now I am back to 100% of OR
stations heard. (PM-OR)

- 870 (KIEV) CA, Glendale 8/22 0305 nothing here. (GL-CA)
- 900 KNUI HI, Kahului now airs ABC-E news. Sked is 24 hours except for MM SP 0600-1000 EDT. News airs at :00. (5P-HI)
- 950 KYGO CO, Denver 9/5 0415 good under KAHI-semi-null, KJR totally nulled. ID as "AM 950, KYGO" & "Denver's all-new AM 950, KYGO." Call change, ex-KIMN. (RW-CA)
- KNFT NM, Bayard 9/5 0800 suddenly appeared out of nowhere loud over KAHI with ID "KNFT, 102.9 Bayard, New Mexico." Many local spots, didn't fade out for 30 minutes. Last heard on f/c in 1984, 1st time on RS. (RW-CA)
- (XEGM) BCN, Tijuana 9/5 0300-0900+ totally off, 950 wide open. (RW-CA)
- 960 ?KZOL? UT, Provo 9/5 0815 tent. fade up under KOOL et al in KARL null. Partial ID as "Salt Lake's oldies station..." but no ID heard. Was speculated to change calls ex-KPMY on 9/3. (RW-CA)
- 970 KTRW WA, Spokane 9/3 1010 with "Spokane's True Country" IDs, over KYTE. C&W music. (PM-OR)
- 1010 KZRC OR, Milwaukie 9/4 1024-1035 thundering in with heavy metal rock & "Z-rock" slogans. KZRC ID & JC Penney ad at 1035. (bp-BC)
- 1070 CKST AB, St. Albert per call, has not changed calls to CHMG yet, but does use ID "1070 Magic Gold." Is currently building their new facilities for 1200 kHz, should be on 1200 in "late fall." (RW)
- 1100 (KFAV) CA, San Francisco 9/4 0630 not noted, but was very strong at later checks. Either off for maintenance or the null in the Beverage shifted. (bp-BC)
- 1150 KRZN CO, Englewood 8/29 0530 good in KIIS null with ID. 1150 now open to the east since KLOK switched to Spanish, splash cut down 50%! (RW-CA)
- 1210 KEBR CA, Rocklin-Sacramento 9/3 ID at 1000 "KEBR Rocklin-Sacramento" then promo for network "Family Radio" via satellite. (PM-OR)
- 1340 KMTW NV, Las Vegas 8/29 0332 loud on top with ID, lost to KIST. (RW)
- 1390 *KGER* CA, Long Beach 8/22 0422 good over KMIX with TT, ID, looped SE. (RW-CA)
- 1520 (KJSM) WA, Sequim 9/4 1420 drove right through town, no sign of them on the air. Not even any sign of radio towers yet. (BH-WA1)
- 1530 (KFBK) CA, Sacramento 8/22 0413 & 8/29 0327 totally off. (RW-CA)
- 1550 KNTR WA, Ferndale 9/4 0909 s/on strong, apparently now relig. (ex-newstalk). (bp-BC)
- 1600 WXVI AL, Montgomery 8/30 heard again while adjusting antenna at 0200, into gospel program. I can't seem to get anything else, hi!(PM)
-
WA, Port Angeles 9/5 1750 noted sign for "Tourist Radio, Tune 1600." Fair-poor signal near ferry landing, mostly commercials for Vancouver Island businesses, repeats every 24 minutes, easily separated from 1610 TIS three miles away. Probably an unlicensed 0.1 watt operation. (BH-WA1)
- 1610 KNHD262 WA, Discovery Bay 9/4 1400 still active with Hood Canal Bridge message and call signs. Transmitter is here, not Uncas which is apparently not a bonafide community (there is an Uncas Road nearby). (BH-WA1)
- KOD773 WA, Olympic National Park 9/4 1445 fair signal two miles away in Port Angeles. Transmitter is at park headquarters at south end of city. KOD773 calls are positive, noted on equipment cabinet inside visitor center! (BH-WA1)
- KOD771 WA, Olympic National Park (Lake Crescent) 9/4 1530 has been reborn. Federal Highway Administration had run a TIS here some years back. This one might use same equipment. Signal still limited to immediate vicinity of the lake, advising some highway construction but also talks about park activities. Calls indicate licensing at same time as Port Angeles. (BH-WA1)

Help with an unID:

Re: RW-CA's unID 1560 from 8/6 WDKR. Robert's unID may have been Haiti's 10kw 4VVE from Port-au-Prince, but I'd suspect they might have Creole at the listed time (0547 Eastern/0947 UTC) which may have just been the possible French he heard. Haiti s/on at 0900 UT and should get out well on SRS. Also the propagation was there if WQXR (who should've appeared at 0530 from reg. MM SP) was mixing, and his loop bearing agrees also. Best chance at a repeat reception would be a MM between Haiti 0500 s/on & WQXR s/on if QXR QRM's a lot. See also DXWW-E 3/5/88 for additional info/pgm. Good luck, Robert! (JH-PA)

Thanks everyone for the reports this time. See you in two weeks! ♡

DX WORLDWIDE EAST

EDITOR: JIM HALL # 240 BYRON ROAD # PITTSBURGH,
PENNSYLVANIA 15237-4015 U.S.A.

■ First off, per a phone tip from George Hakiel-NY comes word of a new outlet in the British Virgin Islands. New is ZBM (keep in mind that some Bermudans also use this same callsign)-895 kHz in Tortola, BVI w/10kW. For more information see the PanAm DX section in this column. Since they are announcing 895 kHz it seems likely this will be a permanent operation. Many thanks to George for taking the time to phone - (sorry for the bad line, George, my extension is in bad order). I was able to log them here and it's a new country for me, never having heard the 780 Roadtown, Tortola which is reported from time to time. Helping also, of course, are the LA antennas of which I recently realigned/reterminated the 950 footer which delivered audio on most of the split LA's in this edition's PanAm section. 9/13 UTC was at least semi-AU per cx, but indicies were unavailable from WWV on HF since their system was down, so I'm not sure of the numbers. I will also miss Phil Bytheway's presentation of the Geomagnetic indicies column in DXM which of course helps us in international DXing. In other news, note that YVLT-830 Caracas/San Antonio de los Altos, Venezuela is charted to move to 1050 kHz. Since they often dominated 830 in the East much of the time in good LACx this may open the freq. up for better reception of Belize and possibly others (although if the Cuban Taino relay is permanent for 830 we will just have to contend with their QRM in place of YVLT's). And so far this early in the season TA's have been doing well some eve's with some good high-latitude openings. Many eve's scores of freq's were producing good hets and/or carriers including some interesting freq's like: 927 (Belgium?), 1152 (Romania?), 567 (Ireland?), 981 (Algeria?), 1188 (Hungary or GDR-Bill Harms rpted a GDR new here), 1071 (Czech. or Yugo.?), 612 (Yugo?), 729 (Spain?), 792 (France?), & 1224 (Bulgaria?) plus numerous others which I'll be trying to get audio out of this season. So far it appears that TADX from mid to high latitudes will be good this season, so please report what you hear to the columns. Finally, deadlines for submissions are Tuesday, Sept. 27th, Saturday, Oct. 8th, then weekly. I will not post deadlines for the weeklies since if a report does not arrive for one it automatically goes into the next week's column, but I'd generally expect reports by each Monday. Reports are UTC in DXWW-E:

IRANS - P A C I F I C D X

- 756 uniD, t TP 1035 9/8 : Weak carrier remaining til just after 1100. (Hall-PIT)
774 uniD, t TP 1037 9/8 : V. weak, fadey carrier. No 738/747 this AM. (Hall-PIT)
- 1620 uniD, t TP 1039 9/8 : Could not get a good DF fix on this and 1629 at these frequencies. A fair to good carrier noted here. (Hial-PIT)
1629 uniD, t TP 1041 9/8 : Fr/gd carrier, no gd DF. Both 1620 and 1629 seemed fluttery and ripply. Also noted 1 or 2 other mornings in early SEP. Ray Moore and others have heard the Australian RPH stations here. (Hall-PIT)

IRANS - A I L A N T I C D X (Hall-PIT)

- 693 t ENGLAND, Droitwich 0442 9/9 : Seemed to be the one w/some audio occ surfacing in slop. Either UK or Port likley.
927 t BELGIUM, Wolvterem 0411 8/25 : Gd strength carrier now noted here in gd TACx. Not hrd at all previous seasons. 9/3 DXWW11 lists BRT-927 now on full power @ 300kW "following installation of a guy wire system which was supposed to give better protection in case of lightning strikes but also increased high angle radiation and decreased field strength in the svce area, necessitating a power increase" via AVE in ARC. May be a best bet freq. for Belgium now along with 1512.
- 1071 uniD, 0441 9/9/+ : Screaming het on 1070, seemed to produce some audio from time to time using ECSS, possible m tik. Several possibilities.
1125 t YUGOSLAVIA, Tovarnik 0315 9/7 : Presumed 1134's // but not enough audio over slop levels. Last season of the two 1134 was always strongest.
1134 YUGOSLAVIA, Zadar 0038 9/7 : Just o/noise level w/Slav. high-life vocals.
1215 t ENGLAND, Moorside Edge 0439 9/9 : Possibly the one on N. Europe mini-Beverage w/snippets of audio. Albania a possibility too.
1314 NORWAY, Kvitsøy 0212 9/8 : Noted many eve's early SEP. This time w/Horse folk/pop mx gd/v. gd. +0429 9/9 V. strong w/lite piano, NN talk and nx.

- 1521 SPAIN, synchros. 0626 8/29 : SS talk fr against 1520 - Iberian cx fr/gd w/1562 again on brink of audio.
SAUDI ARABIA, Duba 0314 9/7 : Fr w/AA chants & calls. Possible 2nd stn under, either Spain or the Czech.
- 1538.8 SPAIN, graveyarder 0322 9/11 : Hetting 1539-TA's & 1540 domestics. M & w w/rapid SS talk, some SS lyrics. Occ appeared o/heterodynes.
- 1557 MALTA, Cyclops 0356 9/1 : Listening to uNID Latin in WQXR null when @0356 a loud 3 kHz het appeared from 1557 - tuned and immed. found R. Mediterranean w/the Deutsche Welle relay w/several DW Beethoven IS's @s/on. BACK ON AIR after downtime due to power supply problems (see also 9/3 DXWII). Gd w/slop.
- FRANCE, Nice 0418 9/1 : Suddenly on at 0418 w/1 kHz TT preceeding s/on, almost totally obscuring Cyclops. DG still audible in France signal dips.
- 1566 SWITZERLAND, Sarnen 0420 9/1 : GG Alpine mountain yodelling w/bouncy accordions, briefly w/an xint strength/very readable if my GG was better. GG talk by m betw yodels. Note that Monte Ceneri has been added here at 300kW, per '88 WRTH, along w/Sarnen.
- 1575 SPAIN, synchros. 0324 9/11 : //one on 1584, fr/v. gd.
- 1584 SPAIN, 2 gy's 0330 9/11 : One was //1575, the other possibly //the 1538.8 Spaniard. Fr/gd & mixing.

P A N - A M E R I C A N A D X (Hall-PIT) unless noted

- 535 GRENADA, St. George's 0124 9/13 : Radio Grenada gd w/rigs m vocal.
- 555 St. KITTS, Springfield, Basseterre 0125 9/13 : V. gd w/Carib. vocals similar to reggae (not calypso) - v. strong & no Nicaragua at time.
- 550 opp JAMAICA, Montego Bay 0359 9/8 : Fr. //580 w/mellow blk-oriented vocals.
- 560 JAMAICA, Kingston 0550 9/3 : Gd in jumble w/reggae.
- 580 JAMAICA, Galina 0552 9/3 : Just o/het mess created by Cuban Rebelde. Also 0356 9/8 //550 with blk-oriented vocals, later w/rastafarian mx.
- 595 DOMINICA, Hillsborough, Roseau 0131 9/13 : Fr/gd w/a soul-type vocal/funk mx.
- 655 EL SALVADOR, San Salvador/Sensuntepeque YSSS 0153 9/13 : SS talk by woman, at gd level as always. Note that '88 WRTH lists another city and YSSS.
- 705 St. VINCENT, Kingstown 0133 9/13 : Struggling on their low-modulation to put some audio up o/slop/noise levels - seemed to by calypso-type Carib. mx.
- 770 COLOMBIA, Bogota RCN 0033 9/13 : HJKH RCN w/trop. mx, m SS ancr, no WABC on Southern bev's. Colombia now showing more regularly on many freq's with fall.
- 780 VENEZUELA, San Cristobal YVOD 0032 9/13 : Ecos del Torbes LOUD //4980, Ven. pops.
COLOMBIA, Riohacha HJZW 0128 9/13 : "Radio Almirante" ID's, bouncy Col. vocals, then way over YVOD and WABC.
- 810 t BAHAMAS, Freeport 0119 9/13 : Likely ZNS-3 @0120 dominant w/preaching. Lost to WGY when domestics recovered most freq's eve 9/13 which seemed at least semi-auroral just after LSS. In the interim Colombia was also easily heard here.
- 840 t St. LUCIA, Castries 0006-0033 9/13 : Dominant, well o/any trace of WHAS/Cuban at times, seemingly a rigs presentation (just continuous talk) by f in FF Creole, at 0029 m with 2 possible "Radio Caribes" ID's still in the creole FF. Seemed to be the one, and St. Lucia IS supposed to be FF Creole at this time, but aren't they supposed to have a music (EZL, Sinatra etc.) show @ this time? Does St. Lucia run any rig at this time, or am I confounding this with the Haitian?
- 860 t MEXICO, uNID outlet 0512 9/4 : Seemed to be a Mexican (or possibly a SW US :SS stn) occ o/CJBC on LA bev's - no Cuban at time. Can anyone please confirm a Mex. or domestic Spanish formatted stn audible in the NE w/laid back SS talk (m hrd at this time) and mellow vocals, crooners, and actually some unusual pipe organ mx?? Presumed an XE since a US stn at this time would be on low Can-Clear author.
- 870 VENEZUELA, Barquisimeto YVMP 0323 9/8 : New and a great surprise w/o WWL at the time on Bev. w/Venezuelan pops (SS) and bouncy rural vocals, "R. Lara" SID by ladies, occ a 2nd SSLA audible u/, more than likely the HJ then per cx.
COLOMBIA, Barranquilla HJSB 2356 9/12 : "Mar Caribe A.M." ID, SS talk betw. several men. Fr/gd w/another LA, seemed to be Cuban Progreso, no WWL. The YV has not been heard here and hasn't shown since.
- 885 MONTSERRAT, Plymouth ZJB 0114 9/13 : In very well, very readable on Bev. w/US 740/pop (I.e. McCartney "No More Lonely Nights"). Armchair copy at times with only some occ slop to contend with.
- 895 ~~****~~ BRITISH VIRGIN ISLANDS, Tortola ZBM 0100 9/13 : New stn being hrd here announcing 895 kHz and 10kW, fnt of soul-type mx w/bassy m ancr, stn ID's by woman. Signs off at 0200 w/anthem. Callsign ZBM and possible slogan "Bonn Radio" (or Zon) or similar. Stn is off weekends. (Hakiel-NY phone tip)
+I checked here after receiving George's tip @0100 9/13 and found them at very good, occ very readable levels w/EE man (bassy as George said) and the soul-blk-type fnt (incl. some US mx) and s/off annts @0159 announcing 10kW, carrier cut 0200. Short anthem at s/off is just a basic instru. anthem but not British. Earlier that eve before George's tip I had passed o/some weak audio on the freq. taking it for the usual weaker Haitian, but it was very likely BVI then (0025a). New country here, thanks to George. (Hall-PIT)

- 914 t SURINAME, Nieuw Nickerie 0004 9/13 : No doubt RAN! the source of the fr carrier on 914 in briefly heightened LACx, N. coast SA (Venezuela) in well.
- 1080 t HAITI, Port-au-Prince 0918 9/12 : 4VDN v. strong, loud & well o/WTIC/KRLD/Cuban on LA beverage w/FF Creole hymns and a jazzy instrumental. No ID heard but I did hear this last season and recognized them. May be a best bet for Haiti along with 1030/1170 if you can skirt the Cuban. Best chances seem to be LSS in AUcx just before the Cuban fades up, or an AU morning at or just before their LSR. Also, the Haitian splits of 765, 895, and 1146 might be in the best bet category (alluding to the Connelly 'Best Bet' articles on LA DXing). Also, the new 1560 4V may be possible although they're still new and haven't been reported much yet. A selective receiver and beverage antennas are probably necessary for any of the splits.
- 1127.15 COSTA RICA, San Jose 0338 9/8 : Mellow Latin vocal mx, m ancr "...Costa Rica, para usted TISHB, Sonido, Once viene..." (announcing 1120).
- 1170 COLOMBIA, Cartagena HJNW 1000 9/12 : Subdued fnt of casual m & f talk in SS, nearly obscured at times by deep het from unID LA, and after 1000 a third LA signed on and was mixing 10% with upbeat SSLA mx which sounded Colombian. Mixing with KVOO on wire antennas, on amp'd wedge KVOO was null'd 100%. WVA off this AM. This finally peaked up well at 1001 w/numerous "CARACOL" ID's, soon lost.
- 1205 CAYMAN ISLANDS, George Town 0557 9/3 : Fr/gd w/some EZL instru's. Also LOUD in some sloop using AM narrow on R71 around 0016 9/13 with similar casual mx.
- 1360 CUBA, Rodolfo Ramirez Esquivel CMHW 0547 9/3 : Mixing heavily but occ peaks left them semi-dominant //1380/910, m SS ancr and SS cubano rumbas.
- 1505 ANGUILLA, The Valley 0120 9/13 : Very strong, almost best ever w/an unID style vocal (seemed US pop). Never seems to use the "1505 Radio" ID, but the readability here is often poor due to 1510 sloop.
- 1555 CAYMAN ISLANDS, Gun Bluff : BACK ON - as of 9/6 UTC as hrd @0345 as strong as ever w/same strength as usual. Carrier is now hrd nightly and I'm certain they were down for a short time. Usual EZL/instru. Island mx, good strings, pianos.
- 1580 MEXICO, Hemosillo XEDM 0434 9/9 : "La Grande de Sonora" ID & Mex. ranch accordion mx, = w/several on freq. (WVKO/CBJ/WKKD/WAMJ).
- COLOMBIA, Barranquilla 0703 9/12 : HJQZ w/bouncy Col. tropical mx. This one gets out quite well on 1kW - has also been heard in Ontario by Niel Wolfish years ago.

AUG/SEP unID carriers/off-freq. stns: (Hall-PIT)

- 715.6 0134 9/13 - LA?
- 760.7 0123 8/30+ : Fr/gd het on 760, seems like an LA per cx when in.
- 763.8 1052 9/9 - LA?
- 769.6 1059 9/9 - LA?
- 815 0221 9/13 : In cx that eve which were semi-AU, this wss fr/gd. Thomas-FL heard it also. Might be S. American origin.
- 815.7 1007 8/25 : Interesting carrier to my south - Is this the same as the above unID?
- 925 1005 8/25 : No doubt the Guatemalan as hrd here before.
- 1079.7 0402 9/8 : Seems like a low LA w/deep het to 1080.
- 1090.7 0257 9/7 : Could not get a DF fix, seemed to loop SSE.
- 1321 0213 9/8 : Carrier only, pr/fr. Clean het & not TVI from 1321.678 kHz.
- 1384.3 0014 9/13 : In good LA cx this eve, likely an LA, possibly Haiti listed for 1385? This was NOT a TVI sweep from the 1384.615.
- 1499 0451 9/11 : Carrier, seemingly to my east.
- 1525.15a 0448 8/29 : Almost certainly a wayward LA at the time, mostly a het but briefly seemed to produce audio above het ringout. There was also the usual TVI sweep carrier on 1526.2 at the time.
- 1580.7 0436 8/29 : Carrier hitting 1580 lightly - fair only on LA bev's. Cuban Agramonte?

CREDITS:

- (Hakiel-NY) George Hakiel, 739 Van Buren Avenue, West Islip, New York 11795
(phone tip)
- (Hall-PIT) Jim Hall, Editor, 240 Byron Road, Pittsburgh, Pennsylvania 15237

ANARCON-88 Tapes, Photos Available: High quality audio recordings of ANARCON-88's speakers, and color photos of convention highlights, are now available. Such as: Cassette #303 - George Jacobs on Allied clandestine broadcasting in World War 2. #307 - the ANARC Forum: R Horvitz chairs a session on ANARC's present and future. #308 - Paul Hale on Listeners/Friends of Radio Beijing's tours of China. #314 - Ray Briem's banquet speech. Tapes are \$5.00 each to US addresses, \$6.00 each to Canada, and \$7.00 each to other parts of the world. Photographs are \$24.00 for a package of 12, \$13.00 for a package of 6, or \$3.00 each. Send payment, orders and inquiries about other tapes in stock to: Stewart Mackenzie, 16182 Ballad Lane, Huntington Beach, CA 92649-2204 USA.

DX Worldwide - West



PAT MARTIN

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Time: UTC phone (503) 861-3185

DEADLINES: Tuesdays
9/27, 10/11, 10/18,
10/25.

Had some good openings to the South Pacific of late with reports from Bruce Portzer, Nick Hall-Patch, and yours truly. So on with reports:

TRANS-PACIFIC DX ROUNDUP

- 531 AUSTRALIA, West Kempsey-2MC-good w/ID "24 hours a day, 7 days a week, Stereo 2MC" and rr mx 1310 9/4 o/TIS stations on 530. Even good on Sony Walkman with lead in wrapped around it! (BP-BC)
+Also noted exc. with "Stereo 2MC" IDs and rock music 9/2, 9/3, and 9/4, over unid on 531 (prob. NZ at 1330. (PM-OR)
- 540 AUSTRALIA, Longreach-4QL-fair with ABC news at 1301 on 9/4, o/LPRTS. (PM-OR)
- 549 AUSTRALIA, Orange-2CR fair in 550 splash w/ABC news at 1302-974. (PM-OR)
- 558 UNIDS, presumed DUs in jumble, sounded like Fiji in there. Apparently Fiji is now 24 hours, as I have heard them most AMs of late, 1323 9/4. (PM-OR)
- 567 JAPAN, Kobe-30CR, fair w/gal in JJ, Pop mx at 1311 on 9/6. (PM-OR)
AUSTRALIA/NEW ZEALAND, mixing here in passing at 1326 9/4. (PM-OR)
JAPAN, Sapporo-30IK-good w/JJ talk o/NZ (presumed) at 1319 9/5. (PM)
- 576 AUSTRALIA, Sydney-2FC-good w/Clas. mx in passing all AM 9/4. Best in quite sometime. (PM-OR)
- 585 AUSTRALIA, Hobart-7ZL, // w/792 and 576 at 1339 9/4. (PM-OR)
UNID, male DU talk possibly //792 but couldn't tell for sure, then faded 1307. (BP-BC)
- 594 AUSTRALIA, Horsham-3WV, good w/DU talk at 1314 9/4. (PM-OR)
JAPAN, Tokyo-30AK-exc. w/JJ talk in passing 9/6 at 1356 (PM-OR)
- 603 REPUBLIC OF KOREA, Seoul-HLSA -weak w/KK talk at 1345 9/7, o/unid. too much noise. (PM-OR)
- 612 AUSTRALIA, Brisbane-4QR-good with DU talk at 1315 9/4. (PM-OR)
- 621 UNID, presumed 3AR, weak light mx, maybe clas. at 1340 9/4. (PM)
- 639 AUSTRALIA, Coffs Harbour-2CS-vy good 9/2 at 1329 w/wx and several IDs, pop music "at Stereo 64, 2CS" and "64-2CS" Reported new. (PM)
- 648 AMERICAN SAMOA, Pago Pago-WVUV-good with U.S. DJ and rr hits, good signal at times o/Aussie (presumed) on 9/2 1337. (PM-OR)
- 657 NEW ZEALAND, Auckland-2YC-good w/Clas. mx at 0735 9/13. (PM-OR)
- 666 NEW CALEDONIA, Noumea-FR3 1417 9/4 man in FF poor to nil //7170
Also noted at home using loop at 1331 9/5. Woman and man in FF, then Jazzy mx //7170 again, nil to vy poor. (NHP-BC)
+Good carrier, poor audio //7170 1419 9/4. (BP-BC)
+Good signal, best hrd in several years with m&f in FF at 1330 on 9/2. Hrd weakly 9/4 also. (PM-OR)
- 675 NEW ZEALAND, Christchurch-3YA // to 756 with light MOR mx at 1344 9/4 in passing, some 680 splash. (PM-OR)
- 684 FIJI, Woman ancr in presumed Fijian in KHBR splash at 1357 9/4. (PM)
- 693 JAPAN, Tokyo-30AB-only decent TP this AM 9/4. Noted 1107 and several rechecks. (BP-BC)
+Noted good mornings on 9/4, 9/5, 9/7, etc. with JJ talk (PM-OR)
- 702 AUSTRALIA, Sydney-2BL good w/MOR mx and frequent talk by man ancr in passing AM 9/4. (PM-OR)
- 711 UNID, strong het on 710, sounded // to 702, but hard to tell, at 1336 9/4. (PM-OR)
- 720 U.S.S.R., Yuzhno-Sakhalinsk-FS good w/JJ talk at 1350 on 9/12, some KDWN QRM during fades. (PM-OR)
- 729 AUSTRALIA/JAPAN, both mixing AM on 9/6-5CL w/Clas. mx and JJ talk mixing.

- 738 AUSTRALIA, Grafton-2NR good w/Clas. mx // 576 at 1340 on 9/7. (PM)
TAHITI, FR3, fair on 9/12 at 0715, woman in FF and presumed
Tahitian, KCBS splash. (PM-OR)
- 747 JAPAN, Sapporo-JOIB-good w/KXL splash at 1323 9/9, JJ talk, lang.
Lessons. (PM-OR)
- 756 NEW ZEALAND, Auckland-1YA-fair w/MOR mx and National prm. at 0756
9/11. (PM-OR)
- 765 NEW ZEALAND, Hastings-2ZK, good with album rr mx at 1349 9/4 (PM)
- 774 AUSTRALIA/JAPAN, both mixing AM on 9/7, 3LO w/MOR mx and JJ talk,
Language lessons. (PM-OR)
- 783 UNID, weak mx, possibly NZ at 1350 on 9/11. (PM-OR)
- 792 AUSTRALIA, Brisbane-4QG-good o/unid w/concert mx at 1323 9/4, plus
many other rechecks. (PM-OR)
- 801 UNID, weak rr mx (sounded like), KPDQ/ETC splash, DU? at 1338 9/7(PM)
- 819 t AUSTRALIA/NEW ZEALAND, presumed the mix at 1312 9/7 (PM-OR)
- 828 AUSTRALIA, Sale-3GI, good in passing at 1311 9/8 (PM-OR)
- 837 NEWZEALAND/JAPAN, TC from National program (presumed) at 1322
9/7. Some JJ talk in jumble. (PM-OR)
- 846 KIRIBATI, fair with native talk at 0656 9/11. (PM-OR)
- 855 t AUSTRALIA, presumed the MOR mx in passing at 1315 9/5 (PM-OR)
- 864 t AUSTRALIA, Toowoomba-4GR 1412 9/4 fair w/woman giving wx forecast
which ended with predicted high for Toowoomba and 21 degrees in
the Garden City" A jingle was the only ID, and was unreadable.(NHP)
(Good catch, Nick. This wasn't too easy even years ago.PM)
NEW ZEALAND, Invercargill-4ZA good w/time pips "Radio New Zealand"
ID and nx at 1100 9/4. (BP-BC)
- 873 AUSTRALIA, Sydney-2GB-Good w/tele talk and 87-2GB ID at 1256 on
9/2. Haven't heard it this good in years. (PM-OR)
- 882 AUSTRALIA, Brisbane-4BH-good with wx for Brisbane at 1306 on 9/2
lost in jumble in a few minutes. (PM-OR)
- 891 t AUSTRALIA, Townsville-4RR, was Townsville, but didn't catch a good
call letter ID, for spot for Dry Cleaners in Ayr (Nearby), but
by the time there was a jingle, the signal was u/Fiji. Will keep
trying for the new call at 1345 on 9/2. (PM-OR)
- 918 UNID, Het and weak audio at 1335 9/4. (PM-OR)
- 927 UNID, Het and weak audio at 1335.30 9/4. (PM-OR)
- 936 UNID, weird Oriental mx 1353 9/4. (BP-BC)
- 945 UNID, weak pop mx in passing. Stopped long enough to hear the
signal fade, prob. NZ at 1340 on 9/4. (PM-OR)
- 954 JAPAN, Tokyo-JOKR-Good signal w/JJ ancr, ment. Tokyo in Spot,
and "JOKER" ID after Spot at 1350 on 9/7. Good signal, Pop mx
and woman ancr. (PM-OR)
- 963 t NEW ZEALAND, Christchurch-3YC, presumed the clas. mx in passing
at 1341 9/5. (PM-OR)
- 972 REPUBLIC OF KOREA, Kimje-HLCA 1222 9/4. Poor w/man declaiming in
KK 776015 (NHP-BC)
- 981 UNID, Pop mx station giving the business to 980 stations briefly,
but faded before I hrd any talk at 1357 9/4. (PM-OR)
- 990 HAWAII, Honolulu-KHVV-vy strong all lone w/News at 1401 9/4. Later
some KRKT QRM, as KHVV was fading. Best heard in a longtime. (PM-OR)
- 999 UNID, Het on KOMO 1316 9/5.(PM-OR)
- 1008 NEW ZEALAND, Tauranga-LZD, good w/Pops w/"LZD" ID, not // 1035
at 0745 9/12. 1010 splash. (PM-OR)
- 1026 UNID, Pops here mixing with 4MK AM on 9/4. Probably NZ. (PM-OR)
AUSTRALIA, MacKay-4MK, good o/unid with rr mx "4MK" ID at 1338
9/4. Best heard in a longtime. (PM-OR)
- 1035 NEW ZEALAND, Wellington-2ZB-good w/pops in passing 9/5 1312.(PM-OR)
- 1044 NEW ZEALAND, Dunedin-4ZB, // 1035 in passing 1313 9/5. (PM-OR)
- 1053 NEW ZEALAND, New Plymouth-2ZP-pop mx, woman ancr //1215,1008 9/4(BP)
- 1062 AUSTRALIA, Thursday Island-4TI-weak //9660 0624 9/4. w/male talk and
mx (BP-BC) (Good catch Bruce, especially that early.PM)
- 1089 UNID, het on 1090 at 1344 9/10. (PM-OR)
- 1107 AUSTRALIA, Sydney-2UW-good w/pops at TC at 1336 on 9/6 "2UW" ID
into Andy Gibb, I Just Want to Be Your Everything-record. (PM-OR)
Also noted on 9/4, but not as strong.
- 1116 AUSTRALIA, Brisbane-4BC-tele. talk 1155 9/4,into mx at 1200,wx for
Brisbane 1203. 6 pips 1200,not sure if them or NZ as two stations
rews 1200-1202 (BP-BC)
- 1134 UNID, weak pop mx in jumble AM on 9/4, noted at 1349 and other
times in passing. (PM-OR)
- 1143 NEW ZEALAND, Hamilton-1YW 1322 9/4. Man and woman talking, poor
to fair 77756 pop mx station UNID under. (NHP-BC)
+Also noted 1322 9/4 fair //756 (BP-BC)

- 1152 t NEW ZEALAND, Timaru-3ZC, good with pops, UNid station underneath, poss. Aussie at 1344 9/4. (PM-OR)
- 1161 UNID, commercial and DU DJ 1405 9/4 (BP-BC)
- 1215 NEW ZEALAND, Kaikohe-1ZE 9/4 1250 good w/Mike Hoskins on New Zealand Tonight" This was strong and consistent most of the Morning. (NHP-BC)
+Also noted 1252 9/4 teletalk and Radio NZ ment. woman DJ. Good on many rechecks. used to check other NZers for //s (BP-BC)
+Also noted very good with "New Zealand Tonight" at 1253 on 9/4 (PM)
- 1224 UNID, man and woman talk fair then faded 1341 9/4, DU ancrs (BP-BC) (Hrd 2WS here several years back. PM)
- 1269 t NEW ZEALAND, Takata 2ZT 1343 9/4. Vy poor in splatter with pop mx which seemed // to 1ZE-1215, but not quite certain. Listed as 400 watts. (NHP-BC) (If your right, great catch. Nick. PM)
- 1278 NEW ZEALAND, Napier-2ZC 1332 9/4 poor w/woman talking //1296 lots of these little Zedders in the AM in the 1200s. (NHP-BC)
+Also hrd // 1215 1331 9/4. (BP-BC)
- 1287 NEW ZEALAND, Westport-3ZW 1305 9/4 poor w/pops //1215 And 1296. (NHP)
+Also noted 1306 9/4 //1296, 1215. (BP-BC)
- 1296 NEW ZEALAND, Hamilton-1ZH-1234 9/4 poor to nil at this time, but much better by 1300. Hrd w/schmaltyz vocal mx //1026 and 1008. (NHP)
+Also noted // 1215 at 1305 9/4. (BP-BC)
- 1332 UNID, 1150 9/4 old rr mx (Easy Come, Easy Go-Bobby Sherman), hetting KUPL. (BP-BC)
- 1341 UNID, 2 stations w/DU male talk, ads, rr mx 1335-1340 9/4 no ID hrd but will go back over tape to try and decipher it. (BP-BC)
- 1413 t AUSTRALIA, Newcastle-2K0- 1304 9/4 news seemed // 200-1575, fair could this be Aussie News net? (NHP-BC)
+Also noted at 1345 with pop mx // 1575, Apparently 200 and 2K0 are running //, satellite format? 9/4. (PM-OR)
- 1476 USUAL HET, noisy carrier from USSR and or China 1122 9/4, weak (BP)
- 1548 AUSTRALIA, Emerald-4QD 1210 9/4 fair w/man talking //9860. This was not nearly as strong as expected, and hasn't been for some time. (NHP-BC) (4QD seemed to drop off about the time they moved to 1548 from 1550, years ago. I don't know why the difference, unless the station moved more than the freq. PM)
- 1557 UNID, Prob. 2RE briefly good w/rr songs, no ID 1249 9/4. (BP-BC) (2ZH-NZ used to be more of a rr than 2RE. That was a few years back. PM)
- 1575 AUSTRALIA, Wollongong-200 9/4 1402 loud with nx. (BP-BC)
+Good with Pop mx // 1413 at 1346 9/4. (PM-OR)
- 1584 UNIDS, several weak carriers and hets, some with weak audio in vy weak jumble noted at 1350 9/4. Several 100 watters listed. (PM)
- 1593 t NEW ZEALAND, Auckland-poss. 1XP, Radio Pacific, but heard they were recently sold, so maybe not, station with pop mx, Aust? 1245 9/7 (PM)
- 1602 UNID, Likely Australia, DU male talk and 6 pips 1400, 9/4 then lost in KJET 1590 splat. 3 low powered Aussies listed all under 200 watts! (BP-BC)
- 1615 NEW ZEALAND, Ohura "OR" good w/morse ID 1221 9/4 (BP-BC)
- 1620 AUSTRALIA, one of the RPH stations good w/nx by woman 1113 9/4. Even audio on Sony with leadin wrapped around radio! (BP-BC)

THANKS TO THESE REPORTERS:

- NHP-BC NICK HALL-PATCH-1538 AMPHION STREET-VICTORIA, B.C. V8R 4Z6 (CANADA)
DX'ing at Sombrio Beach, Homebrew rx ICF-2010, 1000' Bev. at 260 deg.
- BP-BC BRUCE PORTIZER-6546 19TH AVENUE, NE-SEATTLE, WA. 98115
DX'ing at Sombrio Beach with 1500' EW Beverage, FRG-7, sony Dig. Walkm.
- PM-OR YER EDITOR
SP-600, 200' Term. NE/SW Antenna, 1400' NNW Beverage, Ground system.

IF YOU KNOW Trans World Radio's religious PJB Bonaire, Netherlands Antilles, you probably know it as the station that made it hard for a lot of us on the East Coast to listen to CKLW Detroit at night. With 500,000 watts—10 times the strength of any North American AM—PJB often duked it out with CK for possession of AM 800, and even near Detroit it was usually a draw.

The radio preachers I remember from PJB in the late '70s were harsh and unsparring. One once berated George Burns' movie "Oh God" for daring to suggest that a

deity might be warm and friendly and predicted that Burns would face divine retribution in the afterlife. (The same preacher also bragged once that his teenage buddies who laughed when he embraced religion were killed in a car crash shortly afterward.)

For a while, PJB also ran some European pop music—usually Dutch-produced countdowns where all the acts sounded like Abba. Hearing "Ma Baker" by Boney M on a religious station was sort of incongruous, and I seem to remember that the top 40 part of the service didn't last very long.

What brings this all to mind is the announcement that PJB is now even easier to hear. The station recently retired its 24-year-old transmitter, replacing it with a more fuel-efficient 500,000-watt model. More than 100 people showed up "on the friendly island of Bonaire" for the ceremony. Trans World's Wally Hollis says PJB's teaching programs are "not as hard-line" these days and that the Europop has long since been replaced with softer, Christian AC.

Billboard 8/13, via Rbt Wien

EASTERN DX FORUM

Richard C. Evans
Apt. 19
5104 N. Lovers Lane
Milwaukee, Wisconsin
53225
414-466-8754

Deadlines: 9/24 10/8 each Saturday until the middle of March

Karl J. Zuk, 154 Old Post Road North, Croton-on-Hudson, New York 10520
(cont. from last issue) ...Speaking of the ends of the dial, Radio New York International, your favorite off-shore broadcaster, is trying to secure insurance from Lloyd's of London, and then deal with a 30 page restraining order keeping all parties involved from transmitting on land, sea, or air! These guys are really determined, though. Keep watching 1620 for the return of our version of Radio Caroline. My "Medfer" transmitter, or my Part 15 wonder, is still performing well. I'm experimenting with various loading coils and other gimmicks to improve its all ground wave signal. Now all I need is a Program Director and some DJs! Three transistors can really go far on 68 milliwatts! Please send me any comments or suggestions you might have concerning QRP broadcasting. Please support the club this season, and have a great time listening!

Ray Bauernhuber, 141-12 243rd Street, Rosedale, New York 11422
By way of a brief re-introduction, I am a 43 year old DX'er from Southeast Queens, NY. I've labored 20 years for the Nassau County Sheriff's Department and recently was named editor of EDXR. Anyone really into Oldies Rock 'n Roll should listen to 1540 WPGR, Philadelphia. Also on 1540 is WPTR, Albany with good C&W. As Oldies go, try WNBC on Saturday's and Sunday's: in my opinion they jump way ahead of the stalwart WCBS-FM (101.1) because they play a wider variety of oldies with MUCH LESS TALK by disk jockey's who think the listeners tune in for them and not the records. Well, the summer is winding down so finally we'll head into better DX weather. A trip to Cooperstown 8/22 saw 38 and 50 degrees on consecutive mornings (I LOVE IT!) Till next time. 73's de DX de Mr. B.

Gary A. Heisey, Box 310F RD 1, Osterburg, Pennsylvania 16667
Hello, Another good radio program bites the dust. I heard the last and final "music for Moderns" program on WJR, hosted by Gene Elze on 7/23. Gene said that after 20 years at WJR he will be moving on to something different. Gene received many calls from shocked fans and well wishers on his last night. There seems to be a trend happening in AM radio. Dump the best shows and formats and substitute something boring like AC. WIEZ is now on 670, having moved from 1490 where they were EZ listening and sounded good. Now they're oldies or AC. Who knows what tomorrow. By the way, there are no EZ listening stns heard here day or night, aside from BBD formats. ANer, CHTN, which recently moved to 720 interferes badly with WGN some nights here. Usually when I want to listen to Extension 720 program. Likewise WSVS with CKLW nights. Shawn Axelrod, is there a French TV stn on ch. 3 in your town? Think I saw it here recently but could not catch calls. May be a CCFM and many ments of Winnipeg, Man. area during a local eve. TV newscast with a YL anchor and in French lang. (Second report) In my last letter I said no EZ listening stns heard here. I was wrong, WWML has EZ list. but for only 6 hrs in afternoon. Mornings it's rock mx, then 30 minutes of tradio and one hr of polka. Well we had a storm; and lightning finally hit my outside antenna. The wire is 120 ft strung up 15 ft above ground between my utility pole and a dead tree on my landlords property. I use a Brach neon gas glow type arrester with fixed gap. My antenna lead-in terminates thru a flat metal window strip where it enters my house. I did not have my radio connected. However, I did see the small spark flash at my window and heard the snap noise. (I wonder how much stronger the spark would have been without an arrester?) If a Democrat gets elected to the White House, maybe the FCC might start regulating the AM again. We can only hope. In addition to the old regulations that all of us wanted, I had an idea for an extra regulation that would be a benefit to DXers and AM stns as well. That is, those daytimers and some ANers with directional antennas would be allowed to throw their antennas into a non-directional DX mode for anywhere from 10 to 60 minutes before their sign off. Several channels could be selected just as a test to see how well this would work before being expanded throughout the AM band. (One example, KCCV-1510 with 93 antenna I haven't heard yet.) If anyone has already mentioned this idea in a past Forum, I apologize. Let's find out what other people think about this. 73.

Rick Evans, Apt. 19, 5104 North Lovers Lane, Milwaukee, Wisc. 53225

Just got back from a weekend trip to Michigan to see my Dad. He's doing a lot better than I had expected. I had a good time at the NRC convention in Milwaukee over the Labor Day weekend. It was almost completely unstructured for events, but it was fun meeting guys I hadn't seen for a dozen years or more. Met most of the Milwaukee guys, I understand, but John Reiger who didn't show up. Good to meet Jim Albrecht who was one of the regular reporters when I handled CDXR back in the early 70's. I also met one of the area guys who thought he could fix my HQ-100 for me (it wasn't working at all for me when I plugged it in here in Milwaukee), and he picked the radio up on Wednesday. He called tonight while I was typing the column and says the radio's fixed and it's hot, about equal to his HQ-180a. I can't wait to get it back and going again. Now up over 100 heard here on AM, 38 on TV. Gotta run as it's late. See you in two weeks. 73.



AUSTRALIAN RADIO DX CLUB INC.

AUSTRALIA'S PREMIER DX-ING ORGANIZATION

Official publication: "Australian DX News"

A non-profit group dedicated to the promotion and advancement of long distance (DX) radio reception and monitoring as a hobby.
Established: 1965

Reply to:

International Radio Club 3 September 1988
of America,
P.O.Box 21704,
Seattle,
Washington 98111, U.S.A.

ANDREW BROEKHUYSEN
STATIONERY OFFICER, ARDXC
23 DEBLONAY CRES.
GREENSBOROUGH, VIC. 3088
AUSTRALIA

Dear Sir, Madam,

In my capacity as the Stationery Officer of the ARDXC, I wish to bring to your attention some recently printed copies of articles that appeared in our club journal, the Australian DX News. These three articles are general reference data on DXing, QSLing & Propagation and are titled: Afro-Latin Log 1988; The 1987-1988 QSL Review in Retrospect & Trans-Antartic DX. They are being made available by the ARDXC to interested persons and/or clubs around the world, and we would be grateful if you could mention the articles with either a brief or full description in your club magazine.

Afro - Latin Log 1988: August 1988 compiled by Craig Seager, 3 pages, Price: \$A 2.00 (4 IRCs) plus \$A 1.00 (2 IRCs) for airmail postage.

This log details the regularly heard transmissions of stations in Africa and Latin America as heard in the Australian Winter. Loggings cover the past 12 months and are listed in frequency order followed by country. Station location, fade-in/fade-out times and sign-on/sign-off times are shown as monitored.

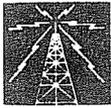
Trans - Antartic DX: June 1988 by Bob Padula, 8 pages, Price: \$A 4.00 (8 IRCs) plus \$A 1.50 (3 IRCs) for airmail postage.

From personal monitoring and radio propagation charts of the I.P.S. in Sydney to Great Circle maps, the author describes the fundamentals that allow reception of South American stations in Australia via the Antartic. A brief reception log and currently available metre-bands for reception are discussed, and then a bibliography is added for further information. Diagrams and charts accompany this article for personal reference by the reader.

1987 - 1988 QSL Review in Retrospect: June 1988 compiled by Lucio Coceani, 5 pages, Price: \$A 2.50 (5 IRCs) plus \$A 1.00 (2 IRCs) for airmail postage. Over a twelve month period Australian DXers have collected some 1926 verifications. All is revealed here and details in an alphabetical listing contains all frequencies, sites, stations, types of QSL, verification signers & time taken, plus other information such as French reports sent, IRCs or stamps enclosed with report, etc. Of special interest to North American & European listeners is the large cross-section of Papuan, Indonesian, Pacific, South East Asian and Australian QSLs received.

Please note that all prices are in Australian dollars and IRCs in brackets. The first price includes surface mail postage, and the second price is to be added if airmail postage is required. If all three items are ordered together then add only \$A 2.00 (4 IRCs) for airmail postage.

All orders are to be sent to the ARDXC's international address at:
the ARDXC Inc.,
P.O.Box 227,
Box Hill, Victoria
Australia 3128.



Western DX Forum

★★★★

IRCA — The #1 Choice of the Broadcast Band DX'er

Editor: Ric Heald • 8539 Bellamy Way • Sacramento, CA 95828 USA • (916) 386-8677

DEADLINES — 27 SEP, 11 OCT, WEEKLY THEREAFTER ON TUE

□ □ □ □ □ □ □ □ □ □

ROB HARRINGTON, P.O. BOX 22202, DENVER, CO 80222-2202

Hello all IRCAnS. Please note my new address. Was forced by a large increase in postal box rates to move to another post office where the smaller boxes were offered.

Our vacation plans were cancelled due to a huge personal credit debt which was turned over to a credit association. Between my car and credit cards an enormous amount is due. The credit association has helped us with affordable payments and now there's some money left over at the end of every month instead of being in the hole. It'll take us about three years to pay everything off. We've also agreed not to charge anything new. I've learned a great lesson, credit cards are bad and I say, get rid of them. (Rob, you're not alone. Millions of Americans have found themselves in a similar situation. I've never believed in credit cards and still don't have any-RtH.)

It's not been good on the employment front either. My employer has experienced money problems due to a drop in business. One of the techs took a month off without pay so that I wouldn't be laid off.

Chris Knight says he'll be in AZ for school this fall and back in CO in late December for Christmas.

I was looking forward to a vacation in Durango and a chance for some DX, but due to our financial state, that had to be cancelled.

If any one is a user of Compuserve, you can send electronic mail to me. My number is 70216,222 vis Easyplex. 73.

WALT BREVILLE, P.O. BOX 13008, ST. LOUIS, MO 63119

I didn't make it to any conventions this year due to mom's illness, other commitments, but did attend last year's IRCA Peoria convention, enjoyed it as I have most of the many conventions of the past, such as IRCA Hollywood '67, Chicago '69, Toledo '71 and all of Louisville's except this year's.

In the 09 July issue of DXM I noted the list of St. Louis local stations sent in by Dale Parks from a newspaper and was flabbergasted to see KSLQ 1350 Washington, MO on that list, whose signal is so weak it's not a noisy semi-local; it's a needed catch. I've never heard it from my location in south central metro area (Affton, Webster Groves), my closest unheard at 38 air miles. WJBD Salem, IL occupies 1350 here fairly strong from 75 miles east of here. KSLQ is due west and CATV noises don't help either. KSLQ is barely audible on the car radio in far western edges of St. Louis County. This car radio isn't the greatest, it's a Proton 214 CD, works very nice on FM and cassette tapes, but it's AM section is awful, weak stations have a much harder time pushing through the noise than the AM-only factory radio in mom's '72 Buick Skylark. (Probably a Delco radio, Walt? Common in GM cars-RtH.)

From what I gather, this is par for modern car radios, AM sections are neglected in their design. One exception was the Kenwood KRC-939 cassette tuner with dual bandwidth and sharp selectivity as well as strong sensitivity on AM as well as FM, also has both AM stereo modes. Was selling for about \$800 without amps in most stores, but last winter it was discontinued and is about impossible to find now. Thanks to Steve Mittman for cluing me in on this, but alas, by the time I decided to get one it was too late. A possible near equivalent of this might be the Blaupunkt Tuscon cassette tuner, local dealer sells it for \$600, has dual bandwidth on AM I believe, and C-quam AM stereo.

Word is rigs with AM stereo have better than average AM circuits and are worth getting even if you just listen to mono AM with no stereo stations available. With today's crowded band and more frequent call changes, I find digital readout to be a must for DX'ing. Disadvantage with push button step tuning is that foreign splits cannot be tuned in, but here in Mid-America splits just about never make it in unless they are very strong Latins like Belize 835. 1969 was the last time I heard a TA (Dakar 764). (Don't worry Walt, Midwest isn't the only place where splits don't make it anymore, hi-RtH)

In the aforementioned St. Louis local list, KHAD 1190, KLPW 1220 and WBOZ 1570 are all too weak to cover more than a tiny portion of the St. Louis metro area and really don't belong in the list. This explains why of 29 stations in the list for Atlanta, 15 are REL, no doubt many of the "religious" really are out there in the boondocks and cannot be heard well in most of Atlanta, like rural town stations in MO have large blocks of preachers in

their format at certain times.

Reviews of car and portable stereos with good AM sections are needed in DXM. . . probably many, like me, have to leave home to get away from CATV leakage and other noises. Does anyone know how good the Sony ICF-SW1 is for AM DX? It's a Walkman size world band portable going for \$300. Sony now has out a Walkman AM-FM radio with digital tuning without cassette player, selling for about \$50. How is this one? (Reviews of car radios are favored by me, but how about something in a more affordable range, like under \$200?-RtH)

FLOYD PERRY JR., 6408 MORGAN PL., #218, STOCKTON, CA 95209

It appears KKSA 1030 has gone silent again. Apparently one of its major investors, Jay Nicholson, was arrested for fraud. I believe a judge or the FCC ordered it off the air. (The judge initiated the action-RtH.) I wonder if it will return or if it will be off forever?

On Labor Day at 1215 PDT I was scanning the dial and came upon a station on 890. Just an OC. Can that be KPFO testing? I tried calling the number listed for KPFO but no answer. (Aha! Put 2 and 2 together and we come up with the 4 towers I spotted near Sloughouse - probsbly KPFO, but I've yet to hear an OC, so maybe just getting testing underway. Good work Floyd-RtH)

KWG 1230 has dropped Transtar "The Oldies Channel" and carry it only on the overnight and some weekends. They now air rock oldies 24 hours though they do still carry some syndicated programming and Transtar's live all request oldies show, Super Gold on Saturday and Sunday nights. There is talk KJOY 1280, KWG's competitor, will soon pick up Transtar's "The Oldies Channel" and replace Larry King. It hasn't happened yet, but I'll keep an ear out for it.

RtH, have you received your bid form for the '89 IRCA convention? (Working on it-RtH.) I'm sure we West Coast members (including myself) will support Sacramento in 1989. Would you need some help? (yes, Yes, YES!-RtH.) Just give me a call.

73 de FPJ and Sacramento in '89!

RIC HEALD, 8539 BELLAMY WAY, SACRAMENTO, CA 95828 Tele-Forum: (916) 386-8677 1000-1300 PLT & pd

Greetings and all that. Now that my neighbor 45 miles down the pike has filled you all in on the Sacramento scene, hi, I'll add to it. KRAK 1140 now running Interstate Radio Network after 2300 PLT, aimed heavily at the truckers. KPFE 940 also carries it. They like all the others have a toll free line - never can get through to find out origin on program and network.

It's a pleasure with 1030 silent. Can get a weak signal from KJDJ, a little better than their neighbor on 660. Mr. Nicholson was involved in a large-scale fraudulent pension funds deal - coops. KKSA was a personal toy.

I've got a fairly decent AM section in my Honda AM/FM radio and did some band scans on it (my car is the designated smoking area at my house; hi). I did a little too much DX though and wound up with an almost dead battery, hi. Funny thing, although I have FM, all 5 buttons are preset for AM: KGO 810, KRAK 1140, KEBR 1210, KSMJ 1380 and KPFBK 1530. I've noticed that when the FM isn't drifting, hitting KEBR then the FM, I land on KRAK-FM. When it decides to drift I land on - ready? - KEAR! (KEBR takes their programming from KEAR). What's wrong, a bad AFC?

Speaking of KEBR 1210, they're back on daytime, but seem to be having audio problems. It's often distorted.

Gene Martin, in your last forum you were talking about the FCC's decision on locations for new stations, i.e. wide places on the road. It appears that way, however, Rocklin is not so. With 10,000 folks and an area growing at 10 new families a week it's the fastest growing area in the metro. Rocklin is now a bedroom community of Sacramento. True, the intention wasn't Rocklin or Roseville, it was Sacramento 22 miles down the road. The only station in the Roseville-Auburn corridor really serving the local community is KAHN 950, that's AM and FM.

Dale Park, I have a partial list of the 49'ers network. Flag, as always, KGO 810. On the net, KPAY 1060 Chico, KJOY 1280 Stockton, KGNR 1320 Sacto., KMIX 1390 Turlock, KOB0 1450 Yuba City. My guess is the KINS 980 Eureka is carrying them again this year. Dumno about Monterey Bay area, reception in that direction is limited. And once again this year, KSMJ 1380 carries the Raiders.

I'm half as close to Reno and Tahoe as I was from the Bay Area, but reception to those areas at night is much worse from here. Possibly I'm in that zone of "too close for skip and too far for groundwave." KOWL 1490 was a regular pest from San Francisco - never heard here.

Phone-wise, I have every other weekend off, with days off during the week on the other weeks (it's great, never more than 4 days in a row), so calling here is limited to when I'm home, so Saturday morning would be your best bet.

That's it for another edition. Moving back into the weekly schedule, so watch the deadlines. Best of DX and 73 from IRCA's home of the 25th anniversary convention, Sacramento de RtH. .

IRCA VERIFICATION-SIGNERS COLUMN

Editor: TIM HALL 350 S St. #F-1, Chula Vista, CA 92010-4559
 Deadlines: Last Friday of the month: 9/30 10/28 11/TBA

COLUMN 022
 9 / 07 / 88

FREQ	CALL	SIGNER'S NAME / TITLE	ADDRESS	WHAT	WHEN	WHO
550	CHND	JERRY CLIFFORD, GM [*]	[SEE NOTE #1]	SUDBURY, ON		JA
570	CKSH	LEONARD ENNS, GM [*]		SWIFT CURRENT, SK		JA
580	CXJR	JAE SUBEOFF, PROG MGR.	P.O. BOX 69	SALMON ARM, BC	V0E 270 L	12 TRH
590	CFAR	DOUB D'BRIEN, GM [*]		FLIN FLON, MB		JA
600	CFCH	ROBERT TEMPLETON, GM [*]		NORTH BAY, ON		JA
610	CHNL	TOM SIMPSON, ENG.	P.O. BOX 610	KANLOOPG, BC	V2C 5L9 LB	19 TRH
	CKTB	GENE STEVENS, GM [*]		ST. CATHERINES, ON		JA
	KDAL	JOHN R. SNEE, VP / GM	425 W. SUPERIOR ST.	DULUTH, MN	55802 Q	4 TRH
620	WHEN	RAY "Z.", CE	P.O. BOX 6975	SYRACUSE, NY	13217 PB	8 TRH
630	CFCD	ART KOVATS, GM [*]		CHATHAM, ON		JA
	CKRC	JOHN NORRIS, PD [*]		WINNIPEG, MB		JA
650	NKGO	DAVID W. ACALAY, GM	P.O. BOX 1060	HIBBING, MN	55746 LNB	14 TRH
660	WHIC	PAUL OSENTOSKI, ENG.	19 SOUTH ELK ST.	SANDUSKY, MI	48471 L	13 TRH
680	CFPA	DENIS COLLETTE, STN MGR [*]		EDMONTON, AB		JA
	KLDY	DON CHAPMAN, GM	68 S.SOUND CENTER,BOX 3487	LACEY, WA	98503 P	11 TRH
730	CJNR	JERRY CLIFFORD, GM [*]	% CHND,	SUDBURY, ON		JA
	CKDH	LINUS J. WESTBERG, GM [*]		DAUPHIN, MB		JA
	KULE	BOB KERBY, ENG.	910 BASIN ST., SW	EPHRATA, WA	98823 P	19 TRH
	KWRE	STEVEN D. ROTZ, ASST CE	P.O. BOX 220	WARRENTON, OR	63383 QQL	356 TRH
		[THAT'S THE THIRD QSL CARD THEY'VE SENT FOR THE SAME REPORT !! -- TRH]				
750	CJWH	DON FRIESEN, ENGINEERING	345 FOURTH AVE. SOUTH	SASKATOON, SK	S7K 5S5 Q	11 TRH
790	CKBO	PAUL LARCHE, STN MGR. [*]		SUDBURY, ON		JA
	KNIL	RAY DAMMON, CE	34545 HWY 20, P.O. BOX 278	ALBANY, OR	97321 P	14 TRH
800	CKDK	BRANT SHERWOOD, PD [*]		PENTICTON, BC		JA
	CKST	HARVEY GOLD, GM [* NOTE #2]	201-20627 FRASER HWY.	LANGLEY, BC		JA
850	CFVR	BOB SINGLETON, GM [*]		ABBOTSFORD, BC		JA
	WRNR	[UNSIGNED]	ONE RADIO LANE	CLEVELAND, OH	44114+ Q	5 TRH
880	CKLQ	KENT ASHTON, ENG.	P.O. BOX 880	BRANDON, MB	R7A 6W6 LB	10 TRH
890	KBLX	DAVID LOUISE, PD	1206 S. MAIN	LISBON, ND	58054 L	14 TRH
900	CFBR	JERRY CLIFFORD, GM [*]	% CHND,	SUDBURY, ON		JA
	WFRO	THOMAS J. WOLFE, GM	905 N. STATE ST.	FREMONT, OH	43420 P	8 TRH
920	KDEU	CHRIS KELLEY, NX DIR.	P.O. BOX 48	OLYMPIA, WA	98507 PLB+	10 TRH
930	NEOL	BLENN P. SMITH, CHIEF OP.	538 BROAD ST., BOX 4006	ELYRIA, OH	44034+ LH	8 TRH
940	CJBX	GEORGE BALLAGHER, STN MGR[*]		YORKTON, SK		JA
950	CFAN	ED SIEMENS, STN ENG.	P.O. BOX 950	ALTONA, MB	R0B 0B0 L	10 TRH
960	WSBT	ROBERT W. BELL, CE	300 W. JEFFERSON BLVD.	SOUTH BEND, IN	46601 LMB	10 TRH
970	CJVR	NEL LAZARENKO, GM [*]		EDSON, AB		JA
	KTRW	TOM SHERRY, PROB ASST.	5505 S. REBAL	SPOKANE, WA	99203 P	6 TRH
	WDAY	MARTY BERLINGER, CE	P.O. BOX 2466	FARBO, ND	58108 LB	12 TRH
980	CKWH	JOHN ASHBURIDGE [IRCA :]	815 MC BRIDE PLAZA	NEW WESTMINSTER, BC	V3L 2C1	JA
		[JOHN IS THE NETWORK COORDINATOR FOR THE WESTERN INFORMATION NETWORK]				
	CKWN	DAVE GLASSTETTER, CE	815 MC BRIDE PLAZA	NEW WESTMINSTER, BC	V3L 2C1 L	16 TRH
990	NEZO	RANDY F. ORBAKER, CE		ROCHESTER, NY	P	10 TRH
1030	KMAS	STEVE WILLIAMS, PD	P.O. BOX 760	SHELTON, WA	98584 LM+	13 TRH
1050	CFBP	BORD SHARP, PD [*]		GRANDE PRAIRIE, AB		JA
	CJNB	HARRY DEKKER, GM [*]		N. BATTLEFORD, SK		JA
	CKSB	M. DESAULNIERS, GM [*]		ST. BONIFACE, MB		JA
1080	CKSA	KEM RUPTASH, GM [*]		LLOYDMINSTER, AB		JA
	KNDK	JIM TURBES, OP MGR.	P.O. BOX 182	LANGDON, ND	58249 PL	7 TRH
1140	CIBS	[ILLEGIBLE], TECH DIR.	804 16TH AVENUE, SW	CALGARY, AB	T2R 0S9 Q	12 TRH
1200	KFWH	[ADDRESS CHANGE:]	P.O. BOX 6008	FARBO, ND	58108	TRH
1220	CHSC	JAY JACKSON, OP MGR. [*]		ST. CATHERINES, ON		JA
	CJRL	JIM BAULD, STN MGR. [*]		KENDRA, ON		JA
1230	CJLB	JOHN MACKAY, GM [*]		THUNDER BAY, ON		JA
	CJNL	ROY HAFELI, DJ [Dixer]	P.O. BOX 1630	HERRITT, BC	V0K 2B0 LB++	12 TRH
	KTRF	T.S. STORCK, PRES.	P.O. BOX 40	THIEF RVR FALLS, MN	56701 L	5 TRH
	KWYZ	BRIAN AASE, CE	P.O. BOX 1230	EVERETT, WA	98206 PLr	13 TRH
	WECK	DAVE PRESCOTT, OP DIR.	2700 GENESEE ST.	BUFFALO, NY	14225 L	5 TRH
	WNPC	ARNOLD L. BRACY, MGR.	P.O. BOX 104	LAPEER, MI	48446 PL+	8 TRH
1240	CKBO	A. SCHMIDT, CE	% CHWK, P.O. BOX 386	CHILLIWACK, BC	V2P 6J7 L	13 TRH
		[THE ABOVE HAS ACTUALLY AN AWARD CERTIFICATE -- REALLY NICE ! -- TRH]				
1250	CHSH	ELMER HILDEBRAND, GM [*]	% CFAM,	ALTONA, MB		JA
	CHND	MICHAEL CAINE, GM [*]		OAKVILLE, ON		JA
	WEMP	ALBERT C. HAJNY, CE	11800 W. GRANGE AVE.	HALES CORNERS, MI	53130+ Q	6 TRH
1260	KCYX	RICH PATTERSON, PD	P.O. BOX 207	MC MINNVILLE, OR	97128 P	9 TRH

1270	CHWK	BRYAN LAVER, PD [*]	P.O. BOX 386	CHILLINACK, BC	V2P 6J7				JA
1280	CHGB	BRIAN LANGSTON, MGR.	6816 COURTENAY ST.	POWELL RIVER, BC	V8A 1X1	L	13		TRH
1290	CIFX	BOB LAINE, GH [*]		WINNIPEG, MB					JA
	CIFX	[UNSIGNED - NOTE #4]	1445 PENDINA HWY.	WINNIPEG, MB	R3T 5C2	0*	13		TRH
1310	CHLW	MAX WILLIAMS, GH [*]		ST. PAUL, AB					JA
	HNFD	RONALD L. GAIER, CE	1414 WILMINGTON AV, BOX 1206	DAYTON, OH	45401+	PH+	9		TRH
1310	KNOX	SCOTT PARK, GH	P.O. BOX 1638	GRAND FORKS, ND	58206+	P	8		TRH
1340	CHNL2	ROY HAFELI, DJ [NOTE #3]	1 CJNL, P.O. BOX 1630	HERRITT, BC	V0K 2B0	L	12		TRH
	CHNL2	JIM REYNOLDS, PD [*]	% CHNL, P.O. BOX 610	KANLOOPS, BC	V2C 5L9				JA
	CKCR	JAE SUSEOFF, PROG MGR.	% CKXR, P.O. BOX 69	SALMON ARM, BC	V0E 2T0	L	12		TRH
	KOHY	PHIL RATHER, OWNER / MGR.	P.O. BOX 778	HATSDONVILLE, CA	95076	P	13		TRH
	KXPD	DEL NYGARD, MGR.	P.O. BOX 312	GRAFTON, ND	58237	P	6		TRH
	MLVL	ROBERT L. ROONEY, CE	320 MICHIGAN ST.	LOCKPORT, NY	14094	P	6		TRH
1350	CKEB	BOB ADSHEAD, GH [*]		NANAIMO, BC					JA
	KRNT	BILL SEVENDERGEN, CE	1416 LOCUST ST.	DES MOINES, IA	50309	Q	9		TRH
1360	KOHU	HARMON SPRINGER, MGR.	P.O. BOX 145	HERMISTON, OR	97838	L	20		TRH
1370	CFOK	LEN NOVAK, GH [*]		WESTLOCK, AB					JA
	CHPC	HENRY BRILL, DP MGR. [*]	% CHUD, 22 ESPLANADE	NANAIMO, BC					JA
	HNKC	[ILLEGIBLE], CE	(HEW)-- P.O. BOX 1311	ALTONA, PA	16603	LH	9		TRH
1380	CKLC	J.P. WRIGHT, GH [*]		PETERBOROUGH, ON					JA
	CKPC	JOHN YORK, DP MGR. [*]		BRANTFORD, ON					JA
1390	CHDO	LORNA DRAID, STN MGR [*]		AXAX, ON					JA
1400	CHNL1	TOM SIMPSON, ENG.	% CHNL, P.O. BOX 610	KANLOOPS, BC	V2C 5L9	L	19		TRH
	CKGR	JAE SUSEOFF, PROG MGR.	% CKXR, P.O. BOX 69	SALMON ARM, BC	V0E 2T0	L	12		TRH
	CKRP	GRANT SHERWOOD, PD [*]	% CKOK,	PENTICTON, BC					JA
	HCY	JUSTIN H. MARZKE, GH	313 MONTEZUMA AVE.	HOUGHTON, MI	49931	PL	11		TRH
1410	KRWB	JACK MC DONALD, SALES MGR.	P.O. BOX 130	ROBEAU, MN	56751	PH+	6		TRH
		[ALSO INCLUDED A COPY OF THEIR PROGRAM LOG FOR THE TIME I REPORTED THEM ! -- TRH]							
		[UNSIGNED WHITE CARD]	P.O. BOX 209	DUNKIRK, NY	14048	0*	10		TRH
1440	CFCP	GEORGIE COWIE, ASST MGR. [*]		COURTENAY, BC					JA
	KKXL	JOHN VASICHEK, GH	505 UNIVERSITY AVE.	GRAND FORKS, ND	58201	PL	7		TRH
	HRDK	MARVIN BEASLEY, DIR ENG.	P.O. BOX 4186	ROCKFORD, IL	61125	PH+	8		TRH
1450	CKSP	GRANT SHERWOOD, PD [*]	% CKOK,	PENTICTON, BC					JA
	KONP	BRIAN PHILLIPS, PD	P.O. BOX 1450	PORT ANGELES, WA	98362	P	11		TRH
1460	KKAQ	DAVE MALVORSON, PD	P.O. BOX 218	THIEF RVR FALLS, MN	56701	L	6		TRH
1470	CJVB	PAT KARL, STN MGR. [*]		VANCOUVER, BC					JA
1480	KKCQ	JANELLE KLINKE, OFC MGR.	P.O. BOX 606	FOSSTON, MN	56542	PH	5		TRH
	KRED	DANA HALL, PD	5640 S. BROADWAY	EUREKA, CA	95501	LB	14		TRH
1490	CFWB	GREGORY T. PHELPS, STN MGR.	909 IRONWOOD ST.	CAMPBELL RIVER, BC	V9W 3E5	L	14		TRH
1500	CKAY	916 REUTER	435 TRUNK RD.	DUNCAN, BC	V9L 2P3	L	13		TRH
	KVBN	DONALD TROSPER, DP MGR.	P.O. BOX 4207	TUNWATER, WA	98501	DR*	11		TRH
		[THE ABOVE WAS ACTUALLY A VERIE-STATEMENT ON A BUSINESS CARD ! -- TRH]							
1510	CKOT	DOUB COOPER, PROG MGR. [*]		TILLSONBURG, ON					JA
	KHGD	PAUL ZAHN, GH	P.O. BOX 1005	HILBANK, ND	57252	P	6		TRH
1520	KHAV	R.R. FLACKSBARTH, GH	P.O. BOX 36	HAYVILLE, NB	58257	P	9		TRH
1600	KCRG	BRUCE A. KRUSE, CE	SECOND AVE. @ 5TH ST. SE	CEDAR RAPIDS, IA	52401	L	9ff		TRH

WHAT was received: 0=OSL card, L=Letter, P=Prepared card, Lr= rpt used as verie, 0=Bumperstickers, H=Map.
 WHEN did the reply come: Number of days elapsed. f = Follow-up report (or phone call) was necessary.

- NOTES: 1) ALL ITEMS MARKED WITH A [*] ABOVE ARE JOHN ASHBRIDGE'S RESPONSES TO RECENT HELP WANTED ITEMS. THESE ARE POTENTIAL SIGNERS, APPARENTLY FROM JOHN'S NETWORK CONTACT LIST. THANKS, JOHN !
- 2) VANCOUVER PHONE BOOK & JOHN'S TIP BOTH LIST THIS AS CKST -- BUT CKST-1070 SUPPOSEDLY WON'T GIVE UP THESE CALLS UNTIL THEIR MOVE TO 1200. WHO KNOWS ? ANYWAY, NOTE THE ADDRESS CHANGE. -- TRH
- 3) NOTE CALL LETTERS -- SIGNER SAYS THEY ARE NOT CHANGING THESE CALLS TO CJHL -- TRH
- 4) THE CARD FROM CIFX WAS COMPLETELY USELESS -- NO VERIE STATEMENT AT ALL.
 [I HAD ALREADY MAILED THE REPORT WHEN I GOT JOHN ASHBRIDGE'S TIP] -- TRH

Contributor:

JA -- JOHN ASHBRIDGE, % CKNW, Vancouver, BC [address above !]

WELCOME to first time reporter JOHN ASHBRIDGE from New Westminster, BC. Your efforts are greatly appreciated.

I've recently located two reference books in my school library (published 7/88 and 8/88) which have loads of recent info on AM & FM stations -- formats, addresses, & names of station personnel -- so this is a really good time to send me your HELP WANTED items !!!
 Thanks ! See you next month -- Tim

HEARING 50 STATES & 10 PROVINCES IN MANITOBA by Niel Wolfish

Here are some suggestions on hearing all 50 states and 10 provinces from Manitoba based on my three years of listening in Winnipeg, and also on the successes of IRCA members Shawn Axelrod and Wayne McRae. The list is by no means complete, and perhaps could be used by a listener in North Dakota, northern Minnesota, northwestern Ontario or southeastern Saskatchewan as well. The listening period for this article was 1985 to 1988; I would have loved to have had the opportunity to DX from Manitoba in the "good old days" (before the FCC and CRTC ruined a lot of the Clear Channels)

ALABAMA: A difficult state. The only Alabama station to grace the logbook was WJMW-770 which did so on one solitary occasion at sunset. Good conditions to the south might bring in WAAY-1550, but one would still have to contend with KQWB-1550. A "Regional" channel station, such as WMOB-1360 or WMML-1410, would take a lot of luck and a few simultaneous silent periods by closer stations.

ALASKA: Within the realm of possibility, but certainly not easy. KYAK-650 and KFQD-750 may have been possible at sunrise 10 years ago, but today a Manitoban DX'er must contend with (among others) the Saskatoon stations CKOM and CJWW on 650 and 750 respectively. In theory, KJNP-1170 might be the best bet if you can try after Tulsa (KVOO) and Davenport (KSTT) sunrise. However, you must still get by CKGY in Red Deer, Alberta!

ARIZONA: Fairly easy thanks to KTNN-660. Nonetheless, 660 is still usually a dogfight between Calgary (CFFR), New York (WNBC) and KTNN. KNIX-1580 is also possible during the morning while CBJ is silent.

ARKANSAS: Very easy courtesy KAAY-1090. KLRA-1010 will also pop in under the CFRB/CBR/WINS/XEHL mess.

CALIFORNIA: KNX-1070 should be no problem, especially if you can null WTSP-Madison. KFI-640 will be difficult because of CFOB, and the splatter from Winnipeg's CKRC-630. Other stations to look for, particularly in the early morning are 740-KCBS, 990-KKIS and 1020-KTNQ.

COLORADO: I could just say KOA-850 and KRXY-1600 (assuming that is their call this week) and there should be no problem. Colorado will dominate the higher frequencies at sunset on "auroral" days, and can also be found on the graveyards such as KATR-1450.

CONNECTICUT: WTIC-1080 can be heard under KRLD in the evening.

DELAWARE: Your guess is good as mine. WDEL-1150 has been heard in Ontario, but Manitobans must contend with CKX in Brandon! Probably the only hope is WDOV-1410.

DISTRICT OF COLUMBIA: Try WTOP-1500 if you can overcome KSTP.

FLORIDA: Somebody should ask WGTO-540 to test during CBK's silent period. Otherwise, Radio Marti-1180 seems the best bet currently.

GEORGIA: In spite of the C.R.T.C.'s best efforts to ruin things for DXers, WSB-750 can still be heard with CKGB-Timmins and CJWW-Saskatoon on the channel.

HAWAII: I bet KORL-650 used to be the best bet in the good old days before CKOM and WKKQ moved to 650. KGU-760 has been heard twice after Detroit (WJR) sunrise, but DXers must still fight XEABC.

IDAHO: Not that easy although only two states away. Try KVNI-1080 at sunset, KTFI-1270 or KRXR-1480 at sunrise. Many attempts at KBOI-670 and KGEW-1140 have failed.

ILLINOIS: WMAQ-670, WGN-720 and WBBM-780 are all quite easy. Some regionals, such as WIND-560 and WMBD-1470 can be heard as well.

INDIANA: WOWO-1190 is very easy. For variety, you can listen to WQHK-1380.

IOWA: Easy, courtesy WHO-1040, K500-1140, KRNT-1350 and KXEL-1540.

KANSAS: KGNO-1370 and KVGB-1590 are the most consistent stations. Other regionals and graveyards are heard occasionally, particularly at sunset.

KENTUCKY: WHAS-840 is heard most evenings. WPAD-1560 may be heard if KKAA is off.

LOUISIANA: WWL-870 is the best bet, but you must contend with KPRM and CKIR. You can also try KWKH-1130 at sunrise.

MAINE: Has yet to make it to Manitoba. Maybe WGAN-560 if WIND and WEBC are both on a silent period?

MARYLAND: WPGC-1580 has been heard relaying WCLY-FM in the early morning. WBAL-1090 might be possible if KAAY ran out of religious

programmes to air.

MASSACHUSETTS: WBZ-1030 should not be too difficult if you can null KTWO in Casper.

MICHIGAN: WJR-760 is the easiest to hear. Other possibilities are WKHQ-1270, WOOD-1300 and WSDS-1480, particularly at sunset. On the graveyards, WLAV-1340 has been heard a few times.

MINNESOTA: The problem is how to get rid of Minnesota stations, such as WEBC-560, WDAL-610, WCCO-830, and KSTP-1500.

MISSISSIPPI: No success in three years of trying. WOKJ-1550 might be possible after CBE signs off, but KQWB, KZQQ, and KKJO all stand in the way. Superb sunset conditions might bring in WCPC-940, but one must still do away with CJGX on the frequency.

MISSOURI: WHB-710 and KMOX-1120 are both easy. Others that won't be too difficult include KGLD-1380 and WIL-1430.

MONTANA: KATL-770 at sunset is probably the easiest to hear now.

Nonetheless, KMON-560 and KXTL-1370 should be no problem. A number of graveyards, such as 1400 KXGN and 1450-KVCK may also be heard.

NEBRASKA: KFAB-1110 is very easy. KRVN-880 may still be heard fighting it out with CKLQ. Regionals WOW-590 and KLMS-1480 are also regularly heard.

NEVADA: KDWV-720 and KROW-780 are both possible, but not that easy, in the nulls of WGN and WBBM respectively. KROL-870 has been heard in the early morning hours. KENO-1460 might make it to Manitoba if a few closer stations were to cooperate by taking a silent period...

NEW HAMPSHIRE: Perhaps WHEB-750 at sunset in the winter? This would be much more likely if CJWW and CKGB had not moved to 750 recently.

NEW JERSEY: Excluding transmitter sites for New York stations, New Jersey is nearly impossible. Maybe WPAT-930 or WWDJ-970 if a few key stations take an irregular silent period.

NEW MEXICO: KOB-770 is the best bet, but suffers from CHQR/WABC/HJKH interference. Similarly, KCKN-1020 suffers from KDKA QRM. KZSS-610 is also heard quite often.

NEW YORK: From Manitoba, WHAM-1180 is the best all round signal. WNBC-660 is the easiest New York City station. WGR-550 and WBEN-930 have been heard at sunset if you want to hear Buffalo.

NORTH CAROLINA: In theory, WBI-1110 should be no problem if KFAB were off the air. Attempts to null KFAB have resulted in WJML at sunset and Latin American stations during the evening. The search continues.

NORTH DAKOTA: KFYZ-550, KSJB-600 and KFGO-790 rank as the worst of all the pests from this state.

OHIO: WLW-700 and WWVE-1100 make it to Manitoba most evenings. When conditions are right several Cleveland/Akron area regionals, such as WHK-1420 and WAKR-1590, will make an appearance.

OKLAHOMA: KVOO-1170 and KOMA-1520 are heard nightly.

OREGON: Not very easy. KWJJ-1080 has been heard at sunset, and KBND-1110 has been heard at sunrise. KXL-750 and KEX-1190 can't seem to penetrate the co-channel interference.

PENNSYLVANIA: KDKA-1020 is heard most evenings fighting it out with KCKN. WCAU-1210 is also not too difficult, but the frequency is much more cluttered. WTAE-1250 was heard once under WEMP during a CHSM silent period.

RHODE ISLAND: Next!

SOUTH CAROLINA: WORD-910 was heard a couple of years ago by another DXer in Manitoba. Aside from that the prospects look bleak.

SOUTH DAKOTA: Unless you live close to CKY-580, WNAX-570 should be no problem. For variety, you can listen to KSOO-1140, KELO-1320 or KKA-1560.

TENNESSEE: WSM-650 can still be heard in spite of CKOM and WKKQ. At sunset, WLAC-1510 is regularly heard. Try WGSF-1210 at sunset.

TEXAS: Easy courtesy KRLD-1080 and WOAI-1200. "Auroral" conditions might bring in others such as KWA5-1360, KVOP-1400 and KEND-1590.

UTAH: KSL-1160 is very easy. KLO-1430 and KMTI-1590 are good bets at sunset or sunrise.

VERMONT: Attempts at WYKR-1100 at sunset have failed so far.

VIRGINIA: WRVA-1140 can often be heard fighting it out with KSOO/CISS.

WASHINGTON: Early morning and sunrise seems to be the best time to hear KIRO-710, KXLY-920, KOMO-1000, KGA-1510 and KJET-1590.

WEST VIRGINIA: WVVA-1170 seems to be the only possibility, making a rare appearance at sunset, before KVOO gets too strong.

WISCONSIN: Take your pick WTMJ-620, WTSO-1070, WIBA-1310, WTDY-1480 and so on...

WYOMING: KTWO-1030 is easily heard. KIML-1270 is less common. Look for KMMZ-1140 and KLDI-1210 at sunset.

ALBERTA: CBX-740 and CBR-1010 are both easy to hear, but suffer from co-channel interference. CUCA-930, CFAC-960, CJOC-1220, and CJCY-1390 also will pose no problems.

BRITISH COLUMBIA: CKWX-1130 and CFUN-1410 are commonly heard stations. CKLG-730, CKQR-760, CKIR-870, CHQM-1320 and CJVB-1470 make appearances in the early morning hours.

MANITOBA: CKY-580 and CBW-990 can be heard everywhere.

NEW BRUNSWICK: Best bet would seem to be CBA-1070 at sunset.

NEWFOUNDLAND: CBY-990 was heard and verified at sign-on (during CBW silent period), but the frequency is usually occupied by XET or KGTM. CBT-540 might also be possible during CBK's silent period.

NORTH WEST TERRITORIES: Maybe a good beverage could snag CJCD-1240?

NOVA SCOTIA: CBH-860 might be possible if CJBC/CBK2 ever went silent. Another possibility would be CJCH-920 on Sunday morning when CFRY has a silent period.

ONTARIO: Lots of possibilities, especially from Southern Ontario, including CBL-740 CFRB-1010, CFGO-1200, CKSL-1410 and CJCL-1430.

P.E.I.: CHTN has not been heard on their new 720 frequency, but chances are probably better than when they were on 1190.

QUEBEC: CBJ-1580 is consistently heard. CKAC-730 and CBM-940 are less common. CFLS-920 has been heard during the CFRY Sunday silent period.

SASKATCHEWAN: The only question is which station from Saskatchewan can't be heard! CBK-540 is audible days and nights.

YUKON: Perhaps CFWH-570 on a directional beverage at sunrise at the same time as you hear all those Alaskans, hi.

Good luck! I hope this will be of some use to somebody.

June 15, 1988

Radio World

via John Johnson

Satellite Beams AM Across US

by Charles Taylor

New Orleans LA ... A satellite hookup between two radio stations in Louisiana and Nebraska has made possible the broadcast of an overnight program with virtually no fading across most of the continental United States.

Program material from the Dave Nemo "Road Gang Show," targeted at on-the-road truckers, is fed from midnight to 5 AM (CST), seven days a week, from WWL-AM's studios in the French Quarter here to KRVN-AM in Lexington NE.

Because the stations are adjacent—WWL at 870 and KVRN at 880—the Galaxie II satellite broadcast creates the effect for listeners of a broad-band signal. Actually, the audio signal is digitally synchronized so it modulates each station's 50,000 W transmitter in unison.

The link is the result of more than a year of planning between Hugh Burney, director of technical services at WWL, and Vern Killion, KRVN's director of engineering.

KRVN, a cooperative station aimed at and owned by 3,500 farmers and ranchers, was broadcasting only during the day, so it seemed a good opportunity to serve another market, Killion said.

For WWL, the joint transmission enabled the station to fill in some gaps in its coverage area. "Our signal was covering most of the central continental United States, but there was a weakness

in the Rocky Mountains and beyond," said Burney. "Here was this station setting out in Nebraska that wasn't running at night and could."

The satellite at work

The simulcast process is relatively simple, according to Burney. "We take our program and feed the output from the studio to a satellite uplink, which is handled by IDB, a company well-known in the satellite business," he said. The program then is beamed 22,000 miles by IDB to a satellite, then beamed back to an uplink at KRVN's transmitter, 950 miles from WWL's transmitter.

Before broadcasting its own signal, WWL feeds it through a Lexicon time delay system to match the slight delay in receipt of the satellite signal at KRVN, allowing simulcast airplay.

"We're getting near-perfect timing on the delay of the WWL signal now so it matches ours," said Killion. "You can notice a slight hollow sound on the voice, but the music sounds perfectly synchronized."

The stations began the simultaneous overnight broadcast 1 March to a faithful national audience. The "Road Gang Show" has been on the air for 17 years, and is well known for providing interstate road and weather conditions to drivers across the country and in parts of Canada.

The simulcast splits on the half hour for local spots and for network newscasts. Because WWL is signed with

CBS and KRVN is with ABC, the news cannot be simulcast.

Positive response

Response to the expanded signal has been wholly positive, said Killion. "We've received quite a few calls here from all over the West—from southern California, Washington, Oregon, Idaho and southern Canada. People love it."

He also is pleased with the quality of sound. "The way the two stations complement each other is really nice. There's no sideband splatter with the stations beside each other. It's going to become even more apparent once we get broad-band NRSC receivers from the industry," he said.

For the future, Killion would like to see the cooperation of WLS in Chicago (AM-890) and WCBS in New York (AM-880) to create satellite capability for simultaneous programming in the event of national emergencies. The stations could create a sort of super-band network, Killion said.

Meanwhile, though, he is pleased with the current effects of the effort between WWL and KRVN. "We're serving a unique market and we're offering a unique service to that market," he said. "We're also utilizing a new application with new technology for something that's already been there."

"I also think," Killion said, "that this is a good example of how AM radio isn't dead."

Biggest Solar Maximum Coming?

Eos, via Richard Eckman

Over the next few years, Earth may be bombarded by particles created by the strongest solar disturbances ever recorded, say scientists from a NOAA-Air Force center. The storms will threaten satellites and ground-based communication and power systems, but will add to the planet's vital veil of stratospheric ozone and help clear space junk from Earth orbit.

The prediction comes from observations of the Sun's 11-year sunspot cycle. The dark spots, which grow as a result of convection near the surface of the Sun's photosphere, wax and wane every 11 years, on average, an indicator of solar activity easily visible to astronomers. The current solar cycle began with a minimum in sunspot activity in September 1986; since then the number of spots forming in the Sun has been going up. The solar maximum should occur around 1990.

Bigger Than 1958

Gary Heckman and staff at the NOAA-Air Force Space Environment Services Center (SESC) in Boulder, Colo., have found that during the present cycle, cycle 22, sunspot activity has risen from the 1986 minimum faster than ever recorded. In general, the 11-year solar cycle is asymmetric, increasing to solar maximum in an average of 4.3 years, then decreasing to a minimum over about 6.6 years. The shorter the "rise time," according to Heckman, the more intense the solar cycle. The rate of increase for cycle 22 is higher than the previous record holder, cycle 19, which peaked in 1958. "We can do a pretty good job of predicting how big the cycle's going to be from the rate of rise about 2 years after it starts," Heckman says.

The positive swing in the sunspot cycle is more or less paralleled by increases in other forms of solar activity like solar flares, although peaks in their intensities do not ordinarily coincide with solar maxima. Unlike sunspots themselves, these events can have far-reaching effects on Earth because of the mass and energy they send toward the planet in huge amounts. Particles and radiation emitted from the Sun are continually striking Earth, but at times of solar maxima the barrage increases by several times.

Satellites, Ground Systems Endangered

Bursts of X rays that occur at times of high sunspot number reach the bottom of Earth's ionosphere and can disrupt short-wave and airline communications and some reconnaissance satellites. Solar-proton events wreak radiation havoc on satellites. Partly ionized iron can penetrate the spacecraft, leaving damaging tracks in electronic gear; high-energy electrons can accumulate in the satellites, too, building up negative electric charges that create stray signals.

Geomagnetic storms are the most well-known effect of the peaking solar cycle. They are essentially disturbances in Earth's magnetic field created by streams of ionized parti-

cles from the Sun. Their effect on terrestrial electrical systems was first recognized in 1859 when telegraph operators in Boston noticed that their lines stopped operating for long periods of time, then mysteriously worked without being attached to a battery—the power was provided by voltage drops associated with the formation of the aurora. Other effects include massive disruption of phone service and electrical blackouts of entire cities. Geomagnetic storms also cause electric current that flows in conductive regions of the atmosphere and heats and expands the thin air. Satellites in orbit around Earth feel increased drag under these conditions and can be knocked off course.

UV Makes O₃, Tidies Space

The Sun's increased output at the coming peak of the solar cycle has some benign effects on Earth as well. Ultraviolet radiation, which reaches Earth in much greater amounts during the upward swing of the cycle, is essential to the formation of ozone (O₃) in the stratosphere. O₃ shields the planet from the harmful effects of almost all radiation with wavelengths shorter longer than 2850 Å. Previous solar maxima have been followed by increases in stratospheric O₃ a few years later, and the global decline in stratospheric O₃ predicted by scientists for the future should be moderated by higher solar UV flux until the next solar maximum.

Like geomagnetic storms, UV radiation can heat and expand the upper atmosphere, and their combined effects could knock many working satellites off their carefully chosen paths or even back to the surface, costing their operators time and money. But there are large amounts of discarded or unused hardware circling above Earth, and intense solar activity can clear some of this space junk from cluttered orbits.

Big Cycle Predicted Earlier

The SESC prediction is supported by the sunspot number rise and by solar flux data at wavelengths of 10.7 cm, but, as Heckman points out, not by all the evidence. Another common forecasting technique involves the examination of solar activity in the previous solar cycle as a guide to the cycle to come. This "precursor method" predicts that cycle 22 will be of less than record size, Heckman says.

Heckman and colleagues were not the first to claim in print that the present solar cycle will be big. Kenneth Schatten of the NASA/Goddard Space Flight Center in Greenbelt, Md., and Sabatino Sofia of Yale University in New Haven, Conn., predicted in a *Geophysical Research Letters* article in June 1987 that solar cycle 22 will be the second largest, after cycle 19 in 1958. Their forecast is based on a theoretical treatment of the Sun's dynamo, a method that depends less on extrapolations than the sunspot-based method, says Schatten. In the article the two predicted that the solar flux at 10.7 cm would be smaller than in 1958, also at odds with the SESC group. Which predictions succeed will become clear as the solar maximum nears.—WWM 23

THE INTERNATIONAL RADIO CLUB OF AMERICA (IRCA)

International Radio Club of America
P.O. Box 21074
Seattle WA 98111

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1630 kHz). "DX Monitor", the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. "DX Monitor" contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



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