



DX MONITOR

The official publication of the
International Radio Club of America

July 23 2016 – Volume 53 Number 35 – Edition 1707 – ISSN 899-9733

This is the last issue of "DX Monitor" Vol 53. Vol_54_N01's Seattle "DX Monitor" deadline is Monday 8/15 6 PM PLT (4 week break). Eric Bueneman is returning as EDXR editor beginning next issue. He also plans a SportChannels column soon.

Note: For the month of July only, I am moving the deadline for the IRCA's Verification Signers column up a few days to Thursday, July 21, at 1500 ELT, from its usual last Monday of the month deadline. Steve Howe, Saint Albans VT and Albany NY

NRC AM Radio Log

The NRC is now taking orders for the 37th edition of the **AM Radio Log**. The log will ship to the USA via Priority Mail... Canada and overseas shipping is still Global Priority Mail. Prices are as follows:

USA, NRC and IRCA Members – \$26.95, Non-Members – \$30.95. Canada – US \$36.25. Overseas – US \$41.75.

Paypal orders accepted at <http://www.nrcdxas.org>. Check or Money order USA Funds Only.

NRC, PO Box 473251, Aurora CO 80047-3251

Wayne Heinen, Editor AM Radio Log

Madison-Milwaukee DX GTG

The 23rd annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts will be held on Saturday August 20 from 1:00 to 9:30 PM CDT. This year's location is Madison WI and your hosts are Bill Dvorak and Mark Taylor. For only the third time in get-together history the venue is a park, this time beautiful and spacious Lake Farm County Park, 4330 Libby Road Madison WI 53711. For further information please e-mail Bill at dxerak@gmail.com or Mark at markokpik@gmail.com (please include "Madison DX Get-together" in the subject line).

To get a taste of last year's event hosted by IRCAer Tim Noonan in Oak Creek WI, let us direct you to GTG attendee Dave Legler's Flickr photo album of it and see how many IRCA members you recognize: https://www.flickr.com/photos/dave_legler/sets/72157659027189280.

Participation by IRCA members is strong every year for this event and this year should be no exception. We hope you can join us! See you on August 20! (Tim Noonan)

2016 IRCA-NRC-WTFDA-DecalcoMania CONVENTION

The IRCA will join the members of the NRC, WTFDA, and DecalcoMania on September 9-11 2016 in Kansas City MO and other DXers in AM, FM or TV. It will be held at the Hyatt Place Kansas City Airport, 7600 NW 97th Terrace.

HOTEL REGISTRATION: 1-816-891-0871x3. Ask for the Group Rate for the National Radio Club. The group code is: G-NRCC. Reservations will need to be secured by 8/18/16. <http://kansascityairport.place.hyatt.com/en/hotel/home.html?comp>. Rates are \$99.00 per night for 1 to 3 persons per room plus taxes and fees. Plan to arrive on Thursday for 3 nights and ends on Sunday noon. Free airport transfers and breakfast each morning.

Convention registration: \$55 per person which includes a free Friday evening pizza party and Saturday evening banquet. Checks made payable to NATIONAL RADIO CLUB and sent to ERNEST J WESOLOWSKI, 13312 Westwood Lane, Omaha NE 68144-3543. Please mention which clubs you belong to for club treasury info. Dale Hamm W5LNL and Ernie are your hosts. 73's neerniew@yahoo.com.

Ernie Wesolowski is now accepting items for the convention auction, send to the above address.

Hotel rooms are filling up fast. Make your reservations now!! A tour of WDAF-TV-4, KCMO-710 and WHB-810 plus the Truman Presidential Library and Museum are planned. Dan Verbeck will be the speaker at the Saturday night banquet. Maybe even a Chief's Football Game on Sunday afternoon. See you in Kansas City MO!!



IRCA PRESIDENT – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
E-mail: phil_tekno@yahoo.com

2017 CONVENTION BID

It's that time again. Anyone thinking about hosting an IRCA (or combined) convention in 2017, contact me at the address above. The deadline for bids is October 15th 2016.

Brandon Jordan has resigned as **DX Test – Broadcast Tests Coordinator**. If interested, please contact me right away.

In addition, we are still looking for a volunteer to take over the duties of **DX Monitor** Editor-in-Chief.

We discontinued the printed bulletin some time ago due to a lack of volunteer for Publisher. However, if someone is now willing to step forward as Publisher, I see no reason why we cannot resume putting out a printed bulletin as well as our email version. Duties would involve getting the .pdf to a local printer (copy shop more likely), addressing envelopes (or printing addresses on the bulletins), stamping and mailing the completed issue.

If you are interested in these positions, please contact me at the above address. Thank you... pb



BROADCASTING INFORMATION – Robert J Wien – 14051 Belle Chasse Blvd #415 – Laurel MD 20707
E-mail: wienbob@aol.com Phone: 301-477-3733 Column Deadlines: Saturdays

DATE OF COLUMN: July 16 2016, **Column data span:** June 18-July 16 2016, Data courtesy of Stationintel.com, FCC database and member contributions. 2 columns combined – pb

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
1000	WDXZ	Robertsdale, AL	WJNZ
1230	KVAS	Astoria, OR	KKOR

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ CALL CITY OF LICENSE

540	KWMT	Fort Dodge, IA
560	WCKL	Catskill, NY
610	KONA	Kennewick-Richland, WA

NEW INFORMATION

changes city of license from Ft Dodge to Fort Dodge
was silent, back on with new unknown format
changes city of license from Kennewick to Kennewick-Richland, WA

770	WJBX	North Fort Myers, FL	was ESPN Deportes Radio Network, now talk. old slogan: "ESPN Deportes 770", new: "WJBX News Talk and More"
	KJCB	Lafayette, LA	adds slogan: "Soul 770 KJCB"
780	WIIN	Ridgeland, MS	old slogan: "Super Sport 930", new: "Super Sport 780"
820	WSWI	Evansville, IN	old slogan: "The Edge", new: "95.7 The Edge"
850	WAXB	Ridgefield, CT	old slogan: "B 107.3 Danbury's Classic Hits", new: "B 94.5, More Music, More Fun"
	WPTB	Statesboro, GA	was Yahoo! Sports Radio, now CBS Sports Radio, old slogan: "Yahoo! Sports Radio 850", new: "CBS Sports Radio"
860	KTRB	San Francisco, CA	was ESPN Deportes Sports Radio Network, now talk, old slogan: "ESPN Deportes 860 AM", new: "860 AM The Answer"
890	KVOZ	Del Mar Hills, TX	changes city of license from Laredo to Del Mar Hills
910	WFDF	Farmington Hills, MI	was urban gospel, now talk, old slogan: "The Word Network", new: "910 AM Super Station"
	WSRP	Jacksonville, NC	adds slogan: "La Grande 910"
	WAVL	Apollo, PA	was classic hits, now adult hits
930	WSFZ	Jackson, MS	now silent
940	WNRG	Grundy, VA	was silent, now Westwood One Classic Country, adds slogan: "Double Barrel Country"
	WFAW	Fort Atkinson, WI	changes city of license from Ft. Atkinson to Fort Atkinson
1020	WIBG	Ocean City/Somers Po, NJ	changes city of license from Ocean City to Ocean City-Somers Po
1050	KORE	Springfield-Eugene, OR	changes city of license from Springfield to Springfield-Eugene
1060	WGSB	Mebane, NC	was silent, now regional Mexican, adds slogan: "La Grande 1060"
1130	WALQ	Carrville, AL	was silent, now country
	WRRL	Rainelle, WV	was silent, now southern gospel, adds slogan: "Faith Radio"
1150	KNRV	Englewood, CO	old slogan: "La Buena Onda 1150", new: "KNRV 1150 AM"
	WBAG	Burlington-Graham, NC	changes city of license from Burlington to Burlington-Graham
1160	WAIX	Mechanicville, NY	was hot adult contemporary, now Bloomberg Radio Network business news, old slogan: "Sporty 1240", new: "Empire News Network"
1170	WFDL	Waupun, WI	was adult standards, now oldies, adds slogan: "Oldies FM 103.3 and AM 1170"
1190	KREB	Bentonville-Bella, LA	changes city of license form Bentonville-Bella Vista to Bentonville-Bella
1220	WREV	Reidsville, NC	was silent, now regional Mexican, adds slogan: "La Grande 1220"
1230	WTBC	Tuscaloosa, AL	old slogan: "Catfish Country 102.9", new: "Catfish 100.1"
	KFPW	Fort Smith, AR	old slogan: "News Talk 1230", new: "The Marshall 1230 AM"
	WLNR	Kinston, NC	adds slogan: "La Grande 1230"
	KKOR	Astoria, OR	was classic country, now classic hits, old slogan: "The Spirit Of The West", new: "106.3 The Beach"
1240	WFWN	Fort Myers, FL	changes city of license from Ft. Myers to Fort Myers
	WWNS	Statesboro, GA	was news, now classic rock
	WFTN	Franklin, NH	was adult standards, now oldies, adds slogan: "Oldies 92.9"
	WPTR	Schenectady, NY	was Westwood One NBC Sports Network, now Bloomberg Radio Network business news, old slogan: "Sporty 1240", new: "Empire News Network"
1260	WFTW	Fort Walton Beach, FL	changes city of license from Ft Walton Beach to Fort Walton Beach
1280	WSUX	Seaford, DE	was adult hits, now 80's hits, old slogan: "Seaford's Best Music Mix", new: "Smash Hits WSUX"
1300	WPNH	Plymouth, NH	was adult standards, now oldies, adds slogan: "Oldies 92.9"
	KOLY	Mobridge, SD	was adult standards, now soft adult contemporary, old slogan: "Great Songs, Great Memories", new: "The Life"
	KLLS	Lumberton, TX	was silent, now classic hits, adds slogan: "Music Radio LLS"
1310	KZYP	Malvern, AR	now silent
1330	WJNX	Fort Pierce, FL	changes city of license form Ft Pierce to Fort Pierce
1340	WAML	Laurel, MS	changes city of license from Collins to Laurel
	WCDT	Winchester, TN	was Westwood One Mainstream Country, now Westwood One Adult Contemporary
1350	WNLK	Norwalk, CT	was silent, now religious teaching
1360	WOEN	Olean, NY	was adult standards, now talk, adds slogan: "The Answer"
1370	WLLN	Lillington, NC	was silent, now regional Mexican, adds slogan: "La Grande 1370"
1380	KDXE	North Little Rock, AR	was silent, back on with new unknown format
	WKJG	Fort Wayne, IN	changes city of license from Ft Wayne to Fort Wayne
1390	WSPO	Charleston, SC	was unknown format, now urban gospel, adds slogan: "Heaven 1390"
1400	WSTC	Stamford, CT	was silent, now adult standards, talk
	WJZN	Augusta, ME	was adult standards, now classic rock, old slogan: "Kool AM", new: "Capital 95.9"
	WKNW	Sault Saint Marie, MI	changes city of license from Sault Ste Marie to Sault Sainte Marie
1410	KNTX	Bowie, TX	was oldies, now classic hits
1420	WQBC	Vicksburg, MS	now silent
1430	WOIR	Homestead, FL	was silent, now Spanish contemporary Christian, adds slogan: "Radio Zoe 1430 AM"
	WDJS	Mount Olive, NC	changes city of license from Mt Olive to Mount Olive
1450	WIBM	Jackson, MI	was sports, now country, old slogan: "ESPN Radio 1450", new: "95.9 The Power Cow"
1480	KLEE	Ottumwa, IA	adds Westwood One Good Time Oldies
	WAML	Laurel, MS	changes city of license from Collins to Laurel
1490	WSYL	Sylvania, GA	now silent
	WPCI	Greenville, SC	was classic hip hop, now variety
1530	WLLQ	Chapel Hill, NC	adds slogan: "La Grande 1530"
1580	WMTI	Morovis, PR	now silent
1590	WGGO	Salamanca, NY	was adult standards, now talk, adds slogan: "The Answer"
1600	WHNP	East Longmeadow, MA	now silent
	WEHH	Elimira Hts-Horseheds, NY	changes city of license from Elmira Heights-Horseheads to Elmira Hts-Horsehds

MEMBER CONTRIBUTIONS

Mike Sanburn of Bellflower CA sends along the following dated 7/6/16 from IRCA Digest (original contribution by Pat Martin of Seaside OR):

1230 KVAS OR, Astoria now Oldies, ex Country. "Your place for the 60s, 70s and 80s, 106.3 The Beat" 250w ERP on the FM for better coverage for their local GYer 1600 EST 7/5. (Note: station granted calls KKOR-ye ed)

Mike Sanburn also sends along the following dated 7/6/16 from IRCA Digest (original contribution from Northwest Broadcasters):

AM 730 CHMJ Vancouver (British Columbia-ye ed) transmitter destroyed by fire.

(From Northwest Broadcasters website): 07/03/16 – The AM 730 CHMJ Vancouver transmitter has been destroyed by a large fire at Burns Bog in Delta, south of Vancouver. The fire broke out on the west side of the bog where several transmission towers for local radio stations are located. AM 730 Global News CKNW News CBC News.

07/04/16 – With extensive damage to the AM 730 CHMJ Vancouver transmitter site at Burns Bog in Delta, the station's signal has been added to 101.1 as HD3. Additionally, AM 730 continues with an on-line feed at its website. Station engineering reports that tower one is completely lost and other damage is to be assessed. The massive fire continues to burn with firefighters tackling it from both the north and south fronts. The large plume of smoke is visible from both sides of the border. News1130.

07/06/16 – Structural engineers are examining the damaged AM 730 CHMJ Vancouver radio towers and BC Hydro staff are checking power lines in the area of the massive Burns Bog fire in Delta. Cooler and wetter weather is helping crews gain the upper hand on the fire and the focus is now turning to what sparked the flames in the first place. Meanwhile, AM 730 remains off the air, but is available at 101.1 HD3 and online. Amy Judd, Global News.

07/06/16 – AM 730 CHMJ Vancouver is expected to return to the air later today or early tomorrow after engineers returned a standby antenna on the downtown TD Tower. Tower 4 at the main Burns Bog transmitter site was cut down around 12:20 pm. Tuesday following a structural engineering recommendation and safety considerations. An insulator failed, plunging the tower off its base and 30 feet into the bog. The main building, common point building and tower 2 have been saved, but three tower huts were destroyed in the blaze. The wildfire that broke out Sunday morning is now 100 per cent contained. Delta release.

07/06/16 – AM 730 CHMJ Vancouver returned to the air during the dinner hour with 500 watts from the top of the TD Tower office building in the downtown area. The ISED (formerly Industry Canada) approval for temporary emergency service is 1 kW. 250 watts can be run without approval.

(1st column) Got back from my trip to Wheeling WV last weekend, drove up to see towers and transmitter building of WWVA-1170, got some gorgeous pictures there (along with some great WWVA signs on the sides of buildings in Wheeling itself), sent some to Mike Sanburn to put on IRCA Facebook page. Done with trips for awhile now, don't know where I'll head next but it'll be a while. Fourth of July weekend is upon us, hope your DX lights up the sky like the great fireworks we hope to see this weekend! Enjoy all that great barbecue food also! 73's. **Bob Wien**

(2nd column) Well, 4th of July weekend is over, planning my next trip to Atlantic City 7/24-7/27 but this time we're taking the ferry from Lewes, DE to Cape May, NJ and driving up that way (and reversing direction coming back), so should be interesting, and I'll be at Harrah's this time. Mike Sanburn posted some of my prior Atlantic City trip's transmitter photos to the IRCA Facebook page a month or so back if you're interested in looking at them. Trip to Wheeling was good, got to take photos of WWVA's transmitters which should also be on IRCA Facebook page. I turn 56 on 8/5, wow, I'm getting old, heh. Hope everyone has a great summer of DX and report anything you hear on your trips wherever you go to the appropriate columns (including this one!). 73's. **Bob Wien**



CANADIAN RADIO NEWS – Dan Sys
E-mail: sysdan@gmail.com

For **June 2016** (July 1 2016 – next update August 1 2016)

AM TO FM CONVERSIONS GRANTED

830 QC La Tuque CBVE-1 Move to 101.9 with 265 watts (598 watts Max ERP).
1340 ON Moosonee CBEY Move to 99.9 with 135 watts.

PROPOSED NEW STATIONS

580 AB Edmonton n/a Commercial. 10,000 watts fulltime. Multilingual. South Fraser Broadcasting.
AB Edmonton n/a Commercial. 10,000 watts fulltime. Multilingual. 1811258 Alberta Limited.

PROPOSED AM TO FM CONVERSIONS

880 MB Brandon CKLQ Move to 91.5 with 100,000 watts. 880 will remain on the air as a nested repeater with 10,000 watts.



WESTERN DX ROUNDUP – Nancy Johnson – 2922 S Olivewood – Mesa AZ 85212-2923
E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: August 12, August 19, September 2, September 23, September 30, October 7, October 14, October 21 and October. 28. Please use Eastern Local Time.

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(AWP) **Art Peterson**-Richmond CA **awpetersonrf@att.net**
Sony ICF-2002, Quantum loop

- 560 KMON **MT**, Great Falls 7/14 0135-0140 initially weaker with 2-3 others mixing then strong and alone as "Cherry Creek Radio" because of simulcasting. (JP-AB)
580 KUBC **CO**, Montrose 6/29 0115-0136 weakest of the "Three Amigos" between KNRS-570 and KQNT-590, each with syndicated simulcasts of Coast to Coast (C2C) and dominant on their frequencies. KUBC was all alone with local commercials, weather and part of an oldie to fill out the C2C break. I suspect previous reception of a dominant KANA-580 was accidental or test use of day power. September CRTC Edmonton hearing includes multiple applications to use old CKUA-580 transmitter site. (JP-AB)
610 CKYL **AB**, Peace River 6/30 0202 ID during momentary fade-in after patiently nulling CHNL. (JP-AB)
CHNL **BC**, Kamloops 6/29 0140-0150 strong signal and all alone with oldies, no sign of CKYL. (JP-AB)
630 KIDD **CA**, Monterey contrary to my last report, is still classical, not sports. (AWP-CA)
KFXD **ID**, Boise 6/11 0410 probably the source of the echo of KPLY. Echo gone after Boise sunrise. (AWP-CA)
KPLY **NV**, Reno 6/11 0410 sports with half second delayed echo, and with no echo at 0800. Announced as Fox Sports. (AWP-CA)
710 KIRO **WA**, Seattle 7/2 0350 with KFIA looped. L.A. and Seattle both possible, but there was a reference to the Northwest and Seattle Mariners team, so this most likely. (AWP-CA)
750 KXTG **OR**, Portland "The Game" 7/2 0520 over Price with sports talk, trading places. (AWP-CA)
KOAL **UT**, Price 7/2 0515 over Portland with Coast to Coast talk. (AWP-CA)
770 KKOB **NM**, Albuquerque 7/2 0530 with call ID and Red Eye Radio. (AWP-CA)
790 KEJY **CA**, Eureka 7/4 0730 with KABC looped, on day power with Spanish music. (AWP-CA)
800 KBFP **CA**, Bakersfield 7/4 0740-45 faint under the Mexican with comedy skits. (AWP-CA)
820 KGNW **WA**, Burien 6/29 0129 mostly dominant, as would be expected from their 5kw night pattern, but surprising given multiple previous "all alone" WBAP nights. (JP-AB)
830 WCCO **MN**, Minneapolis 6/29 0124 unexpectedly clear and listenable beside local CFCW-840 thanks to semi-local CKKY-830 moving to FM. (JP-AB)
840 KXNT **NV**, North Las Vegas 7/2 0630 with Modesto looped, Coast to Coast talk. (AWP-CA)
KKNX **OR**, Eugene 7/4 0705 oldies with Modesto looped. (AWP-CA)
870 ?KLSQ? **NV**, Whitney 7/2 0650 tentatively the Spanish under KRLA, no definite ID. (AWP-CA)
880 KKMC **CA**, Gonzales 7/2 0710-0800 call ID a couple of times, carrying The Patriot and the Preacher talk show, mostly on top. (AWP-CA)
KWIP **OR**, Dallas 7/2 0757 surfaced with Mexican music, apparently going to day power. Good day for Oregon. (AWP-CA)
KCMX **OR**, Phoenix 7/2 0700 call ID and "Weather at top and bottom of each hour," fighting KKMC to peek through at times. (AWP-CA)
970 KNWZ **CA**, Coachella 7/4 mixing with XEJ 0800 with "KNWQ Palm Springs, KNWZ Coachella, KNWH Yucca Valley, K-News 94.3 FM and 970 AM" into CBS News. New for me. (JCJ-AZ)
980 KWSW **CA**, Eureka 7/2 0925-35 with tourist info and several mentions of Humboldt County, sunrise skip. (AWP-CA)
KVLV **NV**, Fallon 7/2 0945 with C&W under KWSW, faded by TOH due to sunrise in NV. (AWP-CA)
1030 XESDD **BCN**, Tijuana "La Tremenda" heard daily in Spanish for the last year or so, not on any list I've see. Thanks to Nancy for ID help. (AWP-CA)
1060 KXPL **TX**, El Paso 7/10 weak, local KDUS off the air. 0801 with Spanish music, numerous "Fiesta Mexicana" slogans. New for me. (JCJ-AZ)
1080 KSLI **UT**, Price 7/4 0610 with C&W, Portland looped. (AWP-CA)
1090 KFNQ **WA**, Seattle 7/4 0555 with sports under the Mexican sports QRM. (AWP-CA)
1100 KNZZ **CO**, Grand Junction 6/30 0135 presumably this was "Newstalk Eleven Hundred" strong and alone. (JP-AB)
1110 KBND **OR**, Bend 7/4 0535 spot for Staples, then promo for Deschutes County Fair, other QRM looped. New. (AWP-CA)

1180 KCKQ **NV**, Sparks 7/4 0445 oldies, with Wasco looped. (AWP-CA)
1200 KFNW **ND**, West Fargo 6/30 0146 "Faith Radio" ID and 0200 mention of Fargo, with syndicated religious program in between. (JP-AB)
1210 KRPU **CA**, Rocklin Radio Punjab 6/17 2000, call ID and specified Rocklin-Sacramento as location. Mostly singing in Indian dialects. (AWP-CA)
1220 CJRB **MB**, Boissevain 6/30 0140-0152 stands out with wide range of classical music, including opera, on Classics Till Dawn 0000-0600 nightly //CFAM-950. (JP-AB)
1230 KSGG **NV**, Reno 7/4 0410 with C&W, the only distinctive item in the mess. (AWP-CA)
KVAS **OR**, Astoria now oldies, ex country. 7/5 1600 "Your place for the 60s, 70s, and 80s, 106.3 The Beat." 250w ERP on the FM for better coverage for their local GYer. (PM-OR)
1250 KLLK **CA**, Willits 6/11 0600 TOH ID as KLLK, Willits and KDAC, Fort Bragg, which is on 1230, apparently in //. The towns are about 30 miles apart at opposite ends of the Skunk Railroad tourist attraction. (AWP-CA)
1260 KNWH **CA**, Yucca Valley 7/11 mixing with KZER 0800 with "KNWQ Palm Springs, KNWZ Coachella, KNWH Yucca Valley, 94.3 FM F-News and all the news at knews.com." New for me. (JCJ-AZ)
1300 KAPL **OR**, Phoenix 6/18 0300 call ID, finally. (AWP-CA)
1320 KSCR **OR**, Eugene 6/11 0635 with Spanish, under KIFN. (AWP-CA)
CHMB **BC**, Vancouver 6/18 0340 assumed the CC talk. (AWP-CA)
1330 KLBS **CA**, Los Banos 6/18 0355-0405 Spanish leading to English ID at TOH, then switched to PP program. (AWP-CA)
KJPR **CA**, Shasta Lake City 6/18 0405-0500 History Hour program in British EE. This is the only possible that seems to fit, and this is similar to what I heard on KOAC-550 Corvallis. TOH was a mish-mash of voices, so no definite ID. The PR is call suggests "Public Radio." (AWP-CA)
1380 KLPZ **AZ**, Parker 6/18 0612 call ID sounded like this, looped SE, and playing C&W. Night power is a bit lean, but maybe on day power. Regardless, this is the best bet. (AWP-CA)
KVSM **CA**, Santa Maria 6/18 0635 tentatively the Spanish, surfacing weakly at this time. (AWP-CA)
1390 KLOC **CA**, Turlock 6/11 0710 Bible references in Spanish, with horrible splash from local KVTO-1400. Also 6/18 0645 fighting the 1400 splash which periodically calmed down to this in. (AWP-CA)
1410 KERI **CA**, Bakersfield 6/18 0720 religious talk looping SE, also fighting the 1400 splash. (AWP-CA)
1420 KITI **WA**, Centralia-Chehalis 6/18 0745-50 oldies, a Motown song leading into a 1960s surfer song and in a call ID at 0748. (AWP-CA)
XEXX **BCN**, Tijuana 6/12 0100-0200 Spanish music in Cumba style and specifying Tijuana and "catorce-vente AM" IDs but did not hear calls. Typically dominant over semi-local KSTN at night. (AWP-CA)
1430 KJAY **CA**, Sacramento 6/18 0800 with CC, weak. Also 6/22 0945 CC with spots, faded at TOH. (AWP-CA)
KMRB **CA**, San Gabriel 6/25 0855-0900 clear call and city ID in English, at last after many failed attempts. Specified multi-lingual format in ID. Also 7/4 at 1030 amazingly still in way after sunrise, and this is summer! (AWP-CA)
KLO **UT**, Ogden 6/18 0753 strong, crystal clear ID – once in a while we win one! Slogan is "More of what you're looking for." (AWP-CA)
1440 KFNW **CA**, Riverside under KVON 6/24 1005-20 with network talk show in English, was UnID at this date. Then, 709 0400 nice call ID with mention of Riverside and San Bernardino. Very unusual to hear anything other than the local. (AWP-CA)
1450 KEST **CA**, San Francisco 6/11 0740 announcing Music of Your Life, nostalgia format but switches to ethnic Asian at various times. (AWP-CA)
1460 KENO **NV**, Las Vegas 6/25 0415 spot for a Las Vegas casino. (AWP-CA)
1470 KUTY **CA**, Palmdale 6/11 0745 in Spanish. (AWP-CA)
CJVB **BC**, Vancouver 7/9 0505 came up with Indian talk into ethnic music briefly, thanks to Mexican fading down. (AWP-CA)
XERCN **BCN**, Tijuana La Voz de la Gente (Voice of the people) 6/25 0455-0505 with clear call ID in Spanish, religious format, trading places with KUTY but mostly dominant. (AWP-CA)
1480 KGOE **CA**, Eureka 6/25 0600 local highway conditions report, then nice full ID at TOH. (AWP-CA)
KYOS **CA**, Merced 6/25 0602 mention of local activities, then into full ID, nicely spaced from the KGOE ID, amazingly! (AWP-CA)
KVNRR **CA**, Santa Ana 6/25 0515-0605 non-stop laid-back instrumentals, kind of EL style, only some having an Asian flavor, no spots or announcements and no ID at TOH that I could detect. No ID but nothing else fits. (AWP-CA)
1490 KRKC **CA**, King City tentatively the C&W that surfaced 6/25 at 0705. (AWP-CA)
KBLF **CA**, Red Bluff 6/25 0650 assumed to be the one with the Godfather movie theme and Perfidia which matches NOS format. (AWP-CA)
KOWL **CA**, South Lake Tahoe 6/25 0645-0700 nice call ID at TOH after local weather report, emerging from the mess. (AWP-CA)
KOGN **UT**, Ogden tentatively the Spanish 6/25 0630, with Petaluma looped. (AWP-CA)
1510 KGA **WA**, Spokane 7/11 0020-0040 under local KSFN with sports talk breaking through without looping the local, being the same bearing to both. (AWP-CA)
1520 KMPG **CA**, Hollister in Spanish trading places with KKZZ 6/25 0915-1000, but mostly losing out even though it is a semi-local. (AWP-CA)
KKZZ **CA**, Port Hueneme 6/25 0915-1000 with clear ID at TOH and oldies rather than the Spanish I have heard in the recent past. Maybe switches format for night and day. Amazingly solid, considering it's 4 days past summer solstice and the bright sun is streaming into my window now. (AWP-CA) (Recently I heard them switch from oldies to Spanish at 0900.—NJ)
KKXA **WA**, Snohomish 6/25 0707-35 with call ID and Classic Country slogan. (AWP-CA)
1560 KKAA **SD**, Aberdeen 6/30 0115 likely the vocal religious hymn heard under dominant KVAN. (JP-AB)
KVAN **WA**, Burbank as usual 6/29 0214-0231 dominant in Spanish; occasional long fades revealing English talk in the null with "1560 AM" only part of ID heard clearly. (JP-AB)
1580 KGAL **OR**, Lebanon 7/9 0720-40 CBS sports talk, with KBLA looped. (AWP-CA)
1590 KVTA **CA**, Ventura 7/9 0750 with nice call ID, KLIV looped. (AWP-CA)
KLFE **WA**, Seattle 7/14 0210-0222 dominant as usual, except when KTLI is on day power/pattern, but surprised me at 0215 with 30 second spot repeatedly mentioning WHK and whkradio.com. At first, I thought WAKR-1590 and WHK-1420 had swapped frequencies then discovered that both KLFE and WHK are owned by Salem and branded as "The Answer." (JP-AB)
1600 KGST **CA**, Fresno 7/9 0755 Spanish music, including a familiar selection by La Sonora Santenera, KUBA looped. Then at 0900 IDs on both KGST and KUBA. (AWP-CA)
1620 KYIZ **WA**, Renton 7/14 0154-0205 with syndicated show by WNBW-FM New York DJ Mike Shannon with "Today's Best Mix of R&B" branding. (JP-AB)
1650 KFOX **CA**, Torrance 6/11 0450 preaching in Korean with several Alleluias. (AWP-CA)
1670 KHPY **CA**, Moreno Valley 7/9 0924 with Redding faded down, pretty much all alone in Spanish. (AWP-CA)

UnIDs

620 UnID 6/11 0405 two sports stations, not //to each other, but one was //630. Portland and Phoenix have sports format. (AWP-CA)
1080 UnID 7/4 0610 religion talk at the bottom of the heap, but don't see such a format on a logical possible on this freq., any ideas? (AWP-CA)
1210 UnID 7/4 0425 with Rocklin looped, religion talk in Spanish. A WA, CA and TX are Spanish with similar power at night. (AWP-CA)
1500 UnID 7/9 0520-40 with faint sports under San Jose and 1510 splash. Maybe KSTP, an old friend from the 1960s. (AWP-CA)
1500 UnID 7/9 0615-25 with talk, near dawn at KXEL so maybe them. (AWP-CA)

Thank you to our reporters this issue! – Nancy 7/15 1900

REPORTERS TO VOLUME #53 WDXR:

Reporter	Total number of tips/number of issues
1. Bill Block	310/25
2. John C Johnson	144/34
3. Rick Barton	112/16
4. Art Peterson	111/3
5. Nigel Pimblett	62/5
6. Nancy Johnson	37/14
7. Glen Hansen	30/5
8. Jon Pearkings	27/7
9. Brian Rachford	13/1
10. Stan Weisbeck	13/1
11. Edward Kusalik	11/3
12. Dennis Gibson	8/3
12. Martin Foltz	5/2
13. Reid Wheeler	5/1
14. Larry Godwin	3/3
15. Patrick Martin	2/2
16. David Gordon	1/1
Nick Hall-Patch	1/1



CENTRAL DX ROUNDUP – John C Johnson – 2922 S Olivewood – Mesa AZ 85212-2923
E-mail: John_Johnson@prodigy.net **CDXR reports ONLY: cdxr@ircanonline.org**

OPEN MIKE

As you may have noticed, I have had zero reporters to CDXR since issue number 26. Hopefully with the new season we will see more support. This column was done to provide the reporter totals for Volume 53. 73, John

CDXR REPORTER TOTALS FOR VOLUME 53

1. [EB-MO] 196/22 Eric Bueneman, Hazelwood, MO	7. [TMJ-IL] 5/5 Tom Jasinski, Shorewood, IL
2. [RD-NE] 30/4 Rick Dau, South Omaha, NE	8. [MB-TX] 4/1 Mike Beu, Austin TX
3. [SP-WI] 27/8 Sheryl Paskiewicz, Manitowoc, WI	9. [JcJ-AZ] 4/1 John C Johnson, Mesa, AZ
4. [NK-IL] 8/1 Neil Kazaross, Barrington IL	10. [TN-WI] 3/1 Tim Noonan, Oak Creek, WI
5. [KDF-IL] 6/2 Karl Forth, Chicago, IL	11. [JT-MO] 2/1 John Tudenham, Joplin, MO
6. [RB-AZ] 6/1 Rick Barton, El Mirage, AZ	



EASTERN DX ROUNDUP – Eric Bueneman (NØUIH) – 631 Coachway Lane – Hazelwood MO 63042-1347
E-mail: n0uiheric@gmail.com **DEADLINES: Thursday 2000 EL**

Eric is returning as EDXR editor beginning next issue. Please send your reports to him at the above address(s). Thank you to **John, Kraig, Mark and Paul** for supporting this column during Eric's absence... much appreciated... pb

TUNING THE DIALS THIS ISSUE:

- (JJR-MI) **John J Rieger**, L'Anse MI
Grundig Satellit 750, stock antenna, Terk AM1000 loop
- (KK-VA) **Kraig Krist** (KG4LAC), Manassas VA
Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop
- (PS-ON) **Paul Snider**, Welland ON, Canada
ICOM IC-R75, Pixel RF Pro-1B loop, MFJ-1020C tuner

ACROSS THE DIAL

- 720 WHYF **PA**, Shiremanstown. 7/10 1955-2205. Mixing with WGN. 2028 male "WHYF 7-20 AM is now at the end of our broadcast day...." (KK-VA)
- 950 KTNF **MN**, Saint Louis Park. 6/29 0733 Poor – "Saint Louis Park-Minneapolis-Saint Paul" clear behind WERL. No WWJ. (JJR-MI)
- 960 KNEB **NE**, Scottsbluff. 7/16 0630 Poor, though steady "KNEB" into Cowboy Corner show. Atop. Only 2nd time heard. Rare! (JJR-MI)
- 1020 KCKN **NM**, Roswell. 7/2 0600 Fair! Radio Christina LID for affiliates. Alone! (JJR-MI)
- 1070 KNX **CA**, Los Angeles. 6/28 0612 Very poor – "Southern California's only all news... KNX 1070 Newsradio" Real Estate ad, lost to WTSS. (JJR-MI)
- 1110 WJML **MI**, Petoskey. 6/28 2232 – News with WJML mention, ID @ 2233 "Northern Michigan's News/Talk Giant, 1110 WJML..." into Free Talk Live. Good to poor mostly over WBT. (PS-ON)
- 1230 KWNO **MN**, Winona. 7/14 0747 Poor – "...your Winona YWCA..." in/out in mess. (JJR-MI)
- 1240 WRTA **PA**, Altoona. 6/27 2358 – Alan Colmes Show. ads, "Central Pennsylvania's only newsroom... 1240 WRTA, Altoona, Pennsylvania" @ TOH, ABC news, more ads, weather on "Newstalk 1240 WRTA". Very poor in multi station mix including CJCS Stratford, Ontario. (PS-ON)
- 1340 KWLM **MN**, Willmar. 7/13 2330 Very poor – "News Talk 1340 and 96.3 KWLM" out of pile. Never have hrd 1590 KDJS in Willmar in 49 years of DXing. Go figure! (JJR-MI)
- 1400 WATW **WI**, Ashland. 6/29 0719 Very poor – "Heartland weather" jingle "Freedom Talk 1400" through WQXO WCCY (JJR-MI)
- 1450 WQNT **SC**, Charleston. 7/9 2353 – Lots of Fox Sports promos, Sports talk show, ads (Angry Orchard, Geico, boosterseat.gov etc), Fox Sports Sunday Promo, TOH ID "This is 1450 WQNT Charleston...." Very poor in station mix including a Fox News station (WENI?). (PS-ON)
- 1490 WESB **PA**, Bradford. 7/4 2232 – Heard clear "WESB" ID @ 2234, into music and then lost. Very poor mixing with possibly WNTJ or WMGW and unknown Fox Sports station (WDLF?) (PS-ON)
- 1600 WKXX **WV**, Wheeling. 7/14 0024 – Game Night (in Las Vegas), lots of Yahoo Sports mentions and promos, national ads(LLC.com, Angry Orchards, Mini C Pap, Parkview Credit, GNC etc), TOH ID "The Watchdog, WKXX Wheeling...." Poor to very poor mostly under Spanish station (WHOL?) and lots of static from approaching thunderstorm. (PS-ON)



DX WORLDWIDE – WEST – Patrick Martin – PO Box 843 – Seaside OR 97138
E-mail: mwdxr@webtv.net **all times UTC**

Next deadline Monday 8/15 1201 PM PLT. All times UTC/GMT.

PAN AMERICAN DX ROUNDUP

- 620 **MÉXICO**, XEBU, Chihuahua, Chih. 7/15 strong and alone on 620. Local KTAR off the air. 0428 out of music with a long promo with many mentions of Chihuahua and "XEBU" calls mentioned three times. New logging for me, first time I've found KTAR off the air. (JcJ-AZ)
- 1090 **MÉXICO**, XEPRS, Rosarito, BCN. 06/29 0515-0525 fluttering partially distorted fade-ins preventing KFNQ HD from locking in. Only time I've heard that kind of fade-in was from the rumoured "short towers" of then-KPWX (KXET) over CKWX-1130 at sunset. (JP-AB)
- 1570 **MÉXICO**, XERF, Ciudad Acuna, Coah. 0607/16 0440-0450 clearest signal yet, after being virtually impossible before CKMW moved to FM, with the CCRadio-EP outshining the CC Skywave on sound quality. (JP-AB)
- 1700 **MÉXICO**, XEPE, Tecate, BC. 07/14 0543-0559 mostly all alone with ESPN Radio ID and some local programming with Golden State and San Diego mentions. (JP-AB)

ODDS AND ENDS

6/28 (via **Gary DeBock**). From Chris Kadlec (previously near Seoul, S Korea) are some comments and recordings concerning this powerful low band TP station. This is copied from a Facebook post:

"I've been meaning to post about this for quite some time:
 639 CNR-1 Beijing (400kw) has been off the air for the past 2 months. I was quite sure about it but figured maybe they were just lower power. The signal was poor at about 30dBu, which was not the norm (since I have a very detailed bandscan showing 40+ with heavy echoes). I made sure to compare the recent recording to my most recent good recording of April 27th and they have absolutely 100% been off the air (or very low... power at the most) since around the start of May. No word on why or when they will return. As I'm not in Asia now, I will be unaware when they do. You can still pick up 639 signals as its part of the CNR-1 network, but the strongest of them has been off. Some recordings of them, 599 miles out, from Seoul.

639 – Late April: http://www.beaglebass.com/dx/external/Beijing_Before.MP3 (42dBu).
 639 – June: http://www.beaglebass.com/dx/external/Beijing_After.MP3 (31dBu)."

THANKS TO THESE REPORTERS

- GDB-WA **GARY DeBOCK**, Puyallup WA (via eGroup)
7.5" loopstick C.Crane Skywave + 15" FSL antenna, Stand-alone 3" FSL Tecsun PL-380
- JcJ-AZ **JOHN C JOHNSON**, Mesa AZ
Icom IC-R75, 75' N-S and 70' E-W longwires, Kiwa loop
- JP-AB **JOHN PEARKINS**, Edmonton AB jon@pearkins.com
CCRadio-EP, CC Skywave and SPARC SHD-TX2



DX WORLDWIDE – EAST – Brandon Jordan – PO Box 338 – Rossville TN 38066
E-mail: bdjorda@gmail.com all times UTC

Deadline – Sunday Midnight Central Time.

1620 **CUBA**. June 24 at 0152, Spanish music, but not //Radio Rebelde 5025, which is sports talk, maybe during a silly BB game. That causes the 1620 outlet to switch feed to the FM network, confirmed at 0155 ID as "La FM Rebelde cadena grande", pop "música viva". Other Rebelde on MW, 670 and 1180 remain //5025. (Hauser-OK)

CONTRIBUTOR

[Hauser-OK]

Glenn Hauser, Enid OK, USA
 DX-398 with internal antenna only or PL-880; NRD-545 with ALA-330S inside E-W or inside random wire N-S; ICR-75 with E-W longwire; FRG-7 with NW-SE short wire



DX FORUM – Richard C Evans – 3908 Grand Oak Ave Apt 4 – Indianapolis IN 46237
E-mail: REvans5435@yahoo.com DEADLINES: Saturdays

Deadlines: 8/13, 8/27, 9/10, 9/24, 10/1, 10/8, 10/15 and 10/22

Art Peterson, 851 31st St, Richmond CA 94804 **awpetersonrpf@att.net**

I want to offer a word of praise for Gerry Thomas of Radio Plus for his great products. I ordered a Quantum loop recently, and it is the very best loop I have ever owned. It is professionally constructed and has every feature you could want in a loop. I have yet to explore all the bells and whistles, but it has been pulling in the DX very well. I have been amazed how much DX has been coming in in the summer when you do not expect a lot; I hope that is a sign of a good DX season ahead. I had a pile of DX Monitors on my computer and found it laborious to search through past issues for information. I hit upon a solution to the problem that has been working well for me. I set up a master Word file, opened each issue, hit control A to "select all," copied it to clipboard, and pasted it into the master file. Since the columns are separated with stars, I separated issues with a row of slashes. Since I don't need 34 copies of the last page which contains the club contact info, I pasted a single copy to the beginning of the file and deleted the rest. For Volume 54, I have set up a new master file for it. Now I can open one file and search all the accumulated issues in an entire volume all at once. Works like a charm. I hope others will find this idea useful. To get around my eyesight problem I have been collecting reference materials and my personal DX records in digital form; printed materials just do not work for me anymore. I will be fully set up for the next DX season, having acquired lists for LW beacons, domestics, Mexico, and the PAL Log. 73. (I have one as well and love it--rce



ULTRALIGHT NEWS – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
E-mail: phil_tekno@yahoo.com

Oregon Cliff (Rockwork 4 – July 2016) Ultralight DXpedition (Daily dialog)

Gary DeBock (DXing at the Rockwork 4 ocean cliff near Manzanita OR, USA), 7.5" loopstick CCrane Skywave Ultralights (3)+, 17" and 15" DXpedition FSL antennas (detailed ocean cliff setup photo posted at <https://app.box.com/s/fscdusr7ottw9gwlmjbata86nnhgr7id>).

7/5. A bizarre collection of monster FSL antennas crossed the bridge into Oregon at the wacky hour of 0145, after having been crammed into an overloaded Toyota Corolla for a one week trip. As such, the July 2016 Rockwork 4 International DXpedition kicked off with an early start (most of the participants, including Japanese DXers Hiroo Nakagawa and Satoshi Miyauchi, will arrive later this week).

As is common at this wacky ocean side cliff (notorious for Murphy's Law), a "sleeping squatter" occupied my usual antenna setup space, but four huge FSL antennas were deployed anyway at the northern edge of the turnoff. One FSL was used to record 531 kHz, two were used for South Pacific MW-DX reception and the fourth was used for Longwave (which unfortunately was a propagation dud from the South Pacific this morning). After the recent demise of Vancouver "traffic" 729 was also a prime target, but it failed to cooperate. The session was fairly good for New Zealand reception, although the really exotic Kiwis on 531, 576, 585 and 936 stayed down in the noise. A couple of Australian big guns (531-4KZ and 774-3LO) managed decent signals in and out, although others on 576, 702 and 891 were missing in action. 567-RNZ seems to have demolished most of its signal along with its old tower – it's now running a poor second to 675-Christchurch as the RNZ flagship. Stars of the session were 531-PI with potent Samoan speech for most of sunrise enhancement, and 603-Waatea with a 25-minute run of beautiful Maori music from 1206-1231.

- 531 **AUSTRALIA**, 4KZ, Innisfail. Pop music fighting it out with PI throughout session; the usual ID jingle at 1209 <https://app.box.com/s/phtsbdi0tatmxeB0fq677it0emsa3i>.
NEW ZEALAND, 531 PI, Auckland. Strong female Samoan speech at 1214; trace of 4KZ underneath at end <https://app.box.com/s/pe8gr1917b4vn3gccskee5gep6go7cft>.
- 603 **NEW ZEALAND**, Manukau, Radio Waatea. Vibrant Maori music at 1226; part of 25 minute potent run <https://app.box.com/s/982pn4hhi2frzhlepvg60z7fpa34k3y>. More beautiful Maori music at 1230 <https://app.box.com/s/ais2ir778xx4zzgjs86kkgddkod49nls>.
- 657 **NEW ZEALAND**, Tauranga, 'Star'. Christian music at decent level //much weaker 963 at 1232 <https://app.box.com/s/cd63akjano1hziwuytiym8qce0ivhbqf>.
- 675 **NEW ZEALAND**, Christchurch, Radio NZ National. Strongest RNZ outlet after the demise of 567's old tower; good level Kiwi English speech at 1257 <https://app.box.com/s/mv1mklx892mkn4b0vs2negjw47xive3g>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Première Polynésie. The usual African music at a potent level at 1251 <https://app.box.com/s/unqd2glul8lxi1ux03mbcy41o053il9i>.
- 765 **NEW ZEALAND**, Napier-Hastings Radio Kahungunu. Maori male speech //603 at 1229; not a bad signal for 2.5 kW <https://app.box.com/s/ds0ga322aujgbxto3m5ml02siwnbho5z>.
- 774 **AUSTRALIA**, 3LO, Melbourne. The strongest Oz station this morning, //much weaker 828. The usual ABC network interview at 1222 <https://app.box.com/s/egf89xhrr29obvisblm7cb9bzehid62jh>.
- 792 **NEW ZEALAND**, Radio Sport, Hamilton. "Fox Sports Radio" ID (as relayed by Radio Sport after local midnight) with promo at 1220 <https://app.box.com/s/um0gfofok28blvq90n0eeoeuuoq3v5jzzy>.
- 1503 **NEW ZEALAND**, Christchurch or Wellington, Radio Sport. Fox Sports Radio ad with Yankee English accent //792 at 1244 <https://app.box.com/s/wed793j34pnu0thkulc3w8o7v716gs98>.

7/6. What started off as a pretty mediocre session ended up with a turbo boost in Kiwi propagation, resulting in one of the wackiest ocean cliff mornings in recent memory. It was almost like someone turned on a switch at 1220, giving every New Zealand station on the band a serious energy surge. The exotic Kiwis on 576, 585 and 936 suddenly came out of the noise to reach respectable levels, after having been MIA since the start of the trip. The only problem was that there wasn't enough time to go after all of them before the wacky propagation collapsed around 1300.

Although the "sleeping squatters" left Rockwork 4 alone this morning it seemed like exotic DX would do the same – at least for the first hour of the session. Four mega-FSLs were all set up and ready to record, but Longwave from the South Pacific was again dead, and only the Kiwi big guns had any readability on MW (and even they were sounding anemic). High priority frequencies like 558 and 729 were barely registering carriers, and as if to rub it in some splatter from a domestic 530-TIS station was dominating 531. Suddenly around 1220 the Kiwis seemed to get a resurrection call, with Tony W's 684-Rhema suddenly coming up out of the KNBR splatter to sound pretty healthy at 1231. The NZ big guns on 702, 1035 and 1386 started pounding in at awesome strength, and a check of the rare 936-Chinese Voice (1 kW) at 1243 found it with music and speech at a decent level. The rare Kiwi rush was on, but checking the parallels for low power stations like

576-Star and 585-Radio Ngati Porou takes time, and time was running out on sunrise enhancement. 576 (the "Dwarf Star") and 585 were logged for the first time on this trip, but by 1250 the Kiwi turbo boost was starting to collapse, and only 738-Tahiti was holding up at a potent level. 702-Magic, 1035-Newstalk ZB and 1386-Radio Tarana managed their best-ever signals for me during this freakish surge, which would have been legendary if it had continued throughout the entire session.

- 531 **NEW ZEALAND**, 531 Pl, Auckland. Good-level Samoan male and female speech at 1205 (with trace of 4KZ underneath). This frequency seems to have its own special propagation, often running contrary to the rest of the MW band (there was no Kiwi propagation surge)
<https://app.box.com/s/bmyntn0crrmmu6t3eygkxtog1prt1mh>.
- 684 **NEW ZEALAND**, Gisborne, Radio Rhema. Sounding pretty healthy (despite an impending eviction order) with Christian contemporary music //594 at 1231
<https://app.box.com/s/uwclidud8a2z7jdp8phbvzystkqh11u9>.
- 702 **NEW ZEALAND**, Auckland, "Magic". Best-ever strength with oldies music during Kiwi propagation surge at 1240
<https://app.box.com/s/wkptlzd7c15dgoq6h2r09ts55f746hm>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Premère Polynésie. Participating in the Kiwi propagation boost with potent jazz music just prior to the 1300 TOH
<https://app.box.com/s/m3zd7joc18kprigy0nafqua7aamp4q1>.
- 765 **NEW ZEALAND**, Napier-Hastings Radio Kahungunu. Strong Maori music from this 2.5 kW station //603 at 1218
<https://app.box.com/s/h0qswrkoigxigcmhf5gx1qo64tb1cd13>.
- 936 **NEW ZEALAND**, Chinese Voice, Waiuku. Rare 1 kW Kiwi was a major beneficiary of NZ turbo boost with good-level music and speech at 1243
<https://app.box.com/s/sng6i7c70sqm3e5bpymy3mfy1dbpbfdn>.
- 1035 **NEW ZEALAND**, Wellington, Newstalk ZB. Best-ever strength with NW political talk show during start of Kiwi turbo boost at 1225
<https://app.box.com/s/ngkbwd2pc6zfnuqxxtifh4aktz4z3c0ah>.
- 1386 **NEW ZEALAND**, Auckland, Radio Tarana. Another Kiwi big gun with best-ever strength, pounding in with S9 level Hindu music at 1246
<https://app.box.com/s/aaguo8hp57aa38eulommx06tm3l22qw>.

7/7. Although most TP-DXers have come to accept the fact that ocean cliffs do enhance transoceanic DX, the undeniable fact is that they also enhance transoceanic weather fronts. Rain and wind combined to make for an interesting session this morning, and sent most of the area's "sleeping squatters" into panicked departures back to Portland. Steady rain drenched everything in sight, temporarily knocking out two ICD-SX68 digital recorders. Everything else survived, although the session's DU-DXing results seemed somewhat "watered down."

The Kiwi big guns sounded healthy as usual but the more obscure NZ stations (576, 585, 936 etc) were missing in action. The most interesting frequency was 702, where the 10 kW Auckland station ran out of Magic in its fight with the Oz big gun 2BL after 1211. The Sydney powerhouse finally demonstrated why it is one of the prime DU targets in the Midwest, sending 702-Magic and its oldies into complete oblivion with awesome S9 peaks throughout the rest of sunrise enhancement. Its parallel 774-3LO was almost as strong, but suffered seriously from Seattle splatter. Besides these 783-Access Radio made its first decent appearance of the trip at 1241 with ethnic music and an unknown language (sounding very much like Samoan to me, someone who hears too much of 531-P). 1008-Newstalk ZB also showed up with a fairly decent signal at 1220 /stronger 1035, and 675-RNZ once again ruled over its 567 parallel (which has sounded like it's on emergency power all three days, after having demolished most of its signal along with its old tower). Overall the session was pretty modest for Rockwork 4, but it's very easy to get spoiled here.

- 675 **NEW ZEALAND**, Christchurch, Radio NZ National. Interview program with Mideast refugee at good level //weak 567 at 1248
<https://app.box.com/s/ts9ra2pfcphx2blb6tmx8hmgg2jv2bk2>.
- 702 **AUSTRALIA**, 2BL, Sydney. Star of the soggy session with S9 ABC interview program //774 obliterating Magic after 1211
<https://app.box.com/s/f0qfop5x7ymw1gbyowg65obveuqjwf6m>.
- NEW ZEALAND**, Auckland, "Magic". Oldies at good level at 1211 before being dispatched by the Oz big gun for the remainder of the session
<https://app.box.com/s/jnmrxrvyezt5mzerm0qpu939hnyjgzjbt>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Premère Polynésie. Instrumental music at meltdown level at 1237; strongest DU of the session
<https://app.box.com/s/3vk2thq7d2t78gsgdrh86k0sz65dp19n>.
- 783 **NEW ZEALAND**, Access Radio. Wellington. Wellington's multi-cultural station at good level with apparent Samoan music and speech at 1241
<https://app.box.com/s/yg4xp9r7er4hyul4jvcpsr5x747vqkf2>.

7/8. Weather and DU propagation both improved dramatically this morning as a serious contingent of American, Canadian and Japanese DXers approached this wild ocean cliff DXing site. Kiwi propagation returned to its usual excellent level, with 756-RNZ managing its best ever signal here (quite a trick, considering the site is only 70 miles from the 50 kW 750-Portland pest) while the NZ stations on 603, 657, 675, 765 and 1035 all pounded in with their best strength of the week

The weather once again seemed dreary at my 1030 UTC (0330 local) antenna setup time, with yesterday's rain and wind still hitting the highly exposed Highway 101 site. The rain tapered off just before the sunrise enhancement session, though, and the wind died down to a tolerable level (although it didn't seem very tolerable at the time, watching four huge FSL's rocking back and forth). The first sign of improved DU propagation was early on at 1203, with 657-Star reaching its best level of the past few years (it normally gets hit very hard by domestic splatter). Shortly thereafter an overachieving 756-RNZ took advantage of the solid rock cliff's ideal position by pounding in over 750-Portland splatter with music //675 (which, incidentally, was stronger than any signal yet this week from its newly anemic 50 kW parallel 567-RNZ). The potent Kiwi rush was on, with 2.5 kW 765-Kahungunu, its 603-Waatea parallel and 1035-Newstalk ZB all reaching near S9 levels throughout the session. As a final exclamation point 675-RNZ managed its best signal of the week at 1257, confirming its status as the new kingpin of RNZ transoceanic strength. Propagation to other South Pacific areas was decidedly subdued, however, with the exception of the usual 738-Tahiti blowtorch (which temporarily dropped its R&B music at 1228 in favor of French YL and OM speech – at the usual energetic level). Overall the propagation was a distinct improvement over yesterday's, with excellent timing considering the approach of the international DXpedition contingent.

- 603 **NEW ZEALAND**, Manukau, Radio Waatea. Maori station playing classic oldies //765 at a potent level at 1250
<https://app.box.com/s/fspvmdphc0bct2431k0fro8ntqoppw9q>.
- 657 **NEW ZEALAND**, Tauranga, "Star". Best signal in recent years with Kiwi English commentary early on at 1203
<https://app.box.com/s/55gx8u2s3f2k2s61kon8rrgqmax7wcj>.
- 675 **NEW ZEALAND**, Christchurch, Radio NZ National. Music and Kiwi female speech at energetic level just prior to the 1300 TOH
<https://app.box.com/s/wx9b9i1dex7mqyrb9b9zgbnk1n3svvew>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Premère Polynésie. French woman and man speech at a huge level at 1228 (and also throughout the session)
<https://app.box.com/s/27ml9ngmqyaqelxij20y5xsr2itkbn>.
- 756 **NEW ZEALAND**, Auckland, Radio NZ National. The 10 kW Kiwi (//675) really socks it to 750-Portland splatter (at 70 miles) with its best signal ever. The solid rock cliff deserves some measure of credit, reducing the 50kw pest to a manageable level
<https://app.box.com/s/qlx6esrtgccrg32pkwqt0yr71suuw52d>.
- 765 **NEW ZEALAND**, Napier-Hastings Radio Kahungunu. The 2.5 kW overachiever rocks the Pacific with Motown music //603 at a near S9 level
<https://app.box.com/s/p04c5i3fvvpxfw449nbsa2jwmpsh6n>.
- 1035 **NEW ZEALAND**, Wellington, Newstalk ZB. Call-in talk program discussing Kiwi real estate at local-like strength at 1222 (on days like today this cliff also seems like a piece of NZ real estate) <https://app.box.com/s/a21xkbbz6pbbqj73j0ted4ft3fjua>.

7/9. Tom and I were honored to welcome our first international participant to the cliff this morning (well, OK, Nick of Victoria BC). Fortunately we had the Highway 101 turnoff to ourselves for antenna setup this morning, but Nick encountered a typical Rockwork 4 session featuring rain, wind and Murphy's Law.

I was separated from Tom and Nick by about 10 meters, and my south side of the turnoff was crammed with the usual 4 large FSL antennas, Ultralight radios and digital recorders. Having learned the hard way that 1017-Tonga has only one late sign-off per week (on their late Saturday night), a determined effort was made to set up my largest (17") FSL immediately upon arrival at the cliff (at the bizarre hour of 0330 local, or 1030 UTC). The effort paid off with fairly good reception of foreign language from the station around 1130, while all of us were still setting up our antennas in the predawn darkness. The propagation once again favored New Zealand (so what is new?), with very potent signals from the usual regulars (including an awesome signal from the 2.5 kW 765-Kahungunu). From my standpoint the more obscure Kiwis (576, 585, 936 etc.) seemed to be playing hard to get, though, while Australian signals seemed to have fallen off of the cliff. Nick and Tom were both able to record various NZ signals 1 kHz away from domestics (such as the 1 kW 549-Trackside) which were fairly hopeless with my rudimentary-filtered Ultralights, but Murphy's Law's typically has no chance to knock out such crude radios (which depend on live human operation – a stone age concept). At one point in the session Nick came over and inquired about the DU signal on 729 (a prime frequency for all of us, with the reduction in "Vancouver traffic"), but I needed to admit that my Ultralights weren't exactly the optimal gear to filter the 730 splatter. As usual there were minor weather challenges, with stiff wind late in the session rocking the Financial Sinkhole Loops back and forth (and causing no lack of consternation in their creator). Finally, although 738-Tahiti certainly has a reputation of being a blowtorch on this cliff, this morning it was a blowtorch on steroids. Its French language program at 1230 was so overwhelming

that its splatter was drowning the usual pest 740-KCBS, to the extent that the Frisco station was struggling to be heard. Later today we welcome the first Japanese DXers to participate in a Rockwork 4 DXpedition (or possibly, the first to participate in a west coast MW-DXpedition?) – **Hiroo Nakagawa** and **Satoshi Miyauchi**. Highly skilled in both Perseus-SDR and Ultralight radio DXing, our two honored guests will be participating in the ultimate wild DXing experience for the next couple of sessions.

- 684 **NEW ZEALAND**, Gisborne, Radio Rhema. Fair level Christian contemporary music at 1247 (log them while you can, according to Tony W) <https://app.box.com/s/691ddrcehygaiko5pgpll2jp1nu1en91>.
- 702 **NEW ZEALAND**, Auckland, "Magic". Oldies music at blistering level pounding in at 1223; garbled ID between songs <https://app.box.com/s/gtd8u8zxdwupirybso99kigyum2ja5c>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Première Polynésie. French program at near nuclear level threatening to crunch my Ultralight's front end at 1233 <https://app.box.com/s/pw2gpfgh7vd19b33yz8ag7466y18462t>.
- 765 **NEW ZEALAND**, Napier-Hastings, Radio Kahungunu. Beautiful Maori female vocal music from this 2.5 kW overachiever at 1230 <https://app.box.com/s/qnmsxpgqgdntk772vt8rbc3rfnvfjweuw>.
- 1017 **TONGA**, A3Z, Nuku'alofa. Rushed antenna setup pays off with a good-level logging of male speech at 1130 (the only non-English DU on the frequency). Not quite as strong as Bill W's classic sign off MP3 from a few years back, but I'll take it anyway <https://app.box.com/s/jz35gvlr8re5ldfql9h6ux0kd04dea5>.
- 1044 **NEW ZEALAND**, Dunedin, Newstalk ZB. Good level call-in talk program getting through the splatter //1035 at 1210 <https://app.box.com/s/z7flaydc0if63v9qhro7deyvp3rno67d>.

7/9. The famous Japanese DXers **Hiroo Nakagawa** and **Satoshi Miyauchi** have arrived to participate in the Rockwork 4 DXpedition here in Oregon State. Tonight the full DXpedition team (**Tom Rethlisberger**, **Nick Hall-Patch**, the Japanese guests and me) had a wonderful welcoming dinner at the aptly-named "Tsunami" restaurant in Wheeler OR.

Both Hiroo-san and Satoshi-san seemed awestruck in their first visit to the wild ocean cliff site. A video of their first visit to Rockwork 4 is posted at <https://www.youtube.com/watch?v=l4cz1otmP3o&feature=youtu.be>, during which Hiroo-san says "kangeki shite imasu," meaning "I'm deeply moved."

7/10. It's probably safe to say that none of our DXpedition group has ever endured such a miserable DXing session. Severe rain and wind pounded the highly-exposed Rockwork 4 ocean cliff turnout throughout our antenna setup and radio listening, providing a very stark welcome for our distinguished Japanese visitors.

We all knew we were in trouble as soon as we drove up to the ocean cliff site at the bizarre hour of 0315 (local time). A toxic mixture of heavy rain and wind was hammering the cliff, making even our antenna setup a most miserable experience. Having been through this bad movie before (at Cape Perpetua in August of 2014) I came prepared with strong plastic tie wraps to anchor the FSL bases and waterproof covers for the antennas themselves, but unlike the smart Japanese visitors none of the North Americans had come with raincoats. As such, both Tom and I were thoroughly drenched and shivering while Hiroo-san and Satoshi-san seemed warm and comfy. Nick was only drenched from the knees down, apparently having escaped the worst by deploying a more modest antenna requiring less setup time. Tom's broadband loop supports absolutely refused to stay vertical in the stiff wind until I offered him several of the 175-lb test plastic tie wraps, and of course in the predawn darkness (and foul weather) the loop wires had unintended foot traffic, at one time causing the loop to be tightly snagged in Satoshi-san's car trunk (really). Despite the challenges we all managed to deploy our antennas and receive DU-DX, although we were all in agreement that the session's propagation was somewhat "watered down." The single, thoroughly drenched 15" FSL managed to receive 657-Star, 702-2BL, 738-Tahiti and 1035-Newstalk ZB for both Satoshi-san and me, which is probably the first time in history that a single FSL was used to boost two Ultralight radios for simultaneous MP3 recordings. We have one more morning together at the wild ocean cliff site, which obviously can't be any worse than the one we just experienced. For those interested, an on-site video of the "Session from Hell" is posted at <https://www.youtube.com/watch?v=Lw9k6E08eME&feature=youtu.be>, featuring a sorry collection of soaked and shivering DXers wondering how they ever survived such a wacky experience.

7/11. The final session of the July Rockwork 4 DXpedition featured both clear weather and great New Zealand propagation, providing a thrilling experience for our Japanese DXing guests as they heard multiple Kiwi signals for the first time ever (Australian MW signals dominate in Japan). Satoshi Miyauchi became a very quick expert in the process of tracking down strong DU signals with an ICF-2010 spotting receiver, tuning a 15" FSL antenna to match the desired frequency, and inductively coupling his 3" FSL Tecsun PL-380 model (which he built himself, in Japan) to the FSL to receive a huge gain boost. In fact, he caught on so quickly that halfway through the session he was even telling me which frequencies I should be checking to receive some very strong Kiwi signals :-). Of course I was helping him in the same way, so we both had a blast!

After the vicious weather session on Sunday morning we were all highly motivated to show up at the cliff early, and get our "revenge" for what had been a miserable experience. Nick, Satoshi, Hiroo and I assembled at my Nehalem Bunk House Motel room at 0300 local time (1000 UTC) and immediately proceeded to the cliff, which not only featured clear weather but superior predawn propagation. As soon as we arrived at 0315 I noticed a decent carrier on 1017, and alerted the rest of the group that Tonga was again coming in (this station almost never stays on the air until our sunrise enhancement). Tonga's signal (featuring the usual male and female announcer) stayed an anemic level in and out of the noise until their sign-off at 1107, but the foreign-language male voice was the same as the one on the 1017 recording on Saturday morning. The Kiwi propagation was above average in the predawn darkness, and after 1200 UTC featured some pretty strong signals from the NZ big guns (which sounded fascinating to the Japanese, even though we regular visitors hear them all the time). 603, 657, 702, 738 and 765 all had potent signals in and out, with 738-Tahiti's blowtorch signal at 1235 motivating an astonished Satoshi to record a video of his stand-alone 3" FSL PL-380 receiving S9+ French music right in front of the sweeping Oregon coast scenery.

The Kiwi propagation was exceptional enough for me to get another modest signal from the 1 kW station 936-Chinese Voice around 1238 (after having heard it at a good level on Wednesday morning) and receive the obscure 2.5 kW station 576-Star (ex-The Word) in Hamilton //657 at 1242. Nick was not at the cliff this morning, but at a sea-level campsite in Nehalem (about 5 miles south) running relative-strength DU signal tests between Rockwork 4 and the sea-level site. From what Nick told us when he drove back to join us after the session, the comparison was really no contest. The sea-level site could only manage a few DU heterodynes.

As mentioned previously, a video taken during this last-day session is posted at https://www.youtube.com/watch?v=cjda-ko_oQE. We were all highly honored to welcome the Japanese DXers Satoshi and Hiroo during this DXpedition and their DXing skill and determination was an inspiration to us all!

- 531 **NEW ZEALAND**, 531 PI, Auckland. Male Samoan language speech at good level at 1225; a trace of rock music (presumed 4KZ) underneath <https://app.box.com/s/ugw25uiffr5py54r854frskozgb9nd61j>.
- 576 **NEW ZEALAND**, Star, Hamilton. The obscure 2.5 kW Kiwi station ("dwarf Star?") managed a fair signal with Christian music //657 at 1224 (the first 12 seconds of the MP3 are on 576; the second twelve seconds are on the 657 parallel) <https://app.box.com/s/m548dxdvwu1ke99z4e1y2r12prdf809>.
- 603 **NEW ZEALAND**, Manukau, Radio Waatea. Strong Maori language music //765 at 1218; this 5 kW station acts like a Kiwi big gun <https://app.box.com/s/xdxju7jr1flspiin9nz1havsvd8gy85o>.
- 657 **NEW ZEALAND**, Tauranga, 'Star'. Strong Christian music at 1210; Satoshi alerted me to this potent signal <https://app.box.com/s/mxti60qwfcc3298c541ak4k5p9s3vqj5>.
- 738 **FRENCH POLYNESIA**, Papeete, Radio Première Polynésie. Another blowtorch signal featuring French music at 1235. Satoshi not only alerted me to this but made a video of his stand-alone 3" FSL PL-380 receiving it <https://app.box.com/s/f46ogt1m89zqe87oeg41vcnf42omke9>.
- 765 **NEW ZEALAND**, Napier-Hastings Radio Kahungunu. Good-level Maori female vocal music //603 early on at 1202 from this 2.5 kW overachiever <https://app.box.com/s/qmfojmo7hhtzp9q5621e67eag2pzwo0n>.
- 1017 **TONGA**, A3Z, Nuku'alofa. Male-voiced foreign language staying just above the noise level for an extended period at 1105; signal not as strong as on Saturday morning <https://app.box.com/s/zceepp3znuk35hmp9vy33l3x7dfgxye>.

A full report will appear in the bulletin at a later time... pb

SPECIAL FEATURE

One Idea for Antenna Switch-Reversal Mark Durenberger

Reflector member Michael Yule got me thinking about antenna-reversal in conjunction with "Vactrol"-based remote nulling. Such a remote dc-controlled nulling system for an antenna like the D-KAZ is becoming the preferred approach. It can be very effective at almost any distance from the shack and its impact on antenna performance is minimal. Two approaches to remote nulling that seem to be proving out are: 1) the use of a "Vactrol" or other solid-state "photocell" of the proper characteristics and; 2) a motor-controlled rheostat such as Bruce Conti is developing.

Remote-controller systems use a separate signal line (usually twisted-pair), run to the null end of the antenna. A *signal* line heads to the shack from the other end. This signal line is either a coax or balanced twisted-pair lead-in. That's pretty much state of the art today.

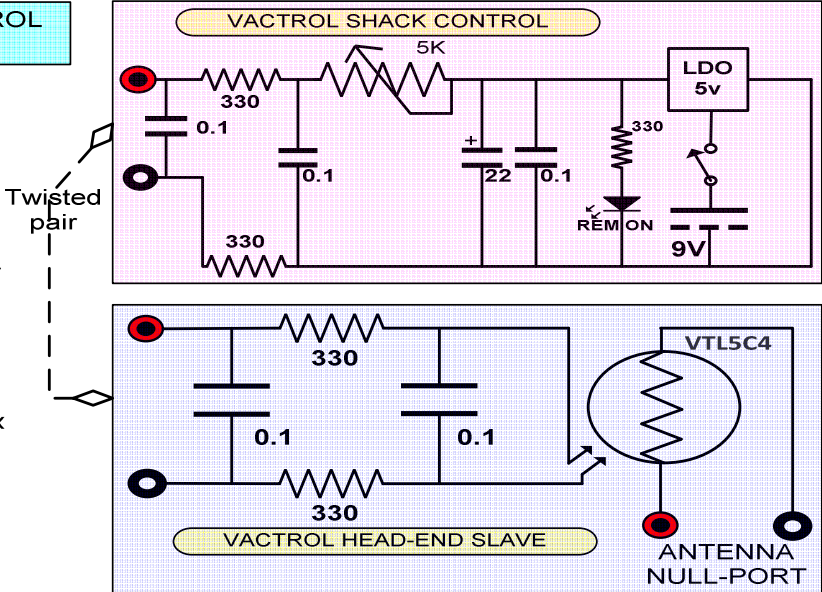
So how do we add *antenna-reversal capability* to this arrangement? Michael Yule considered a single Vactrol near the mid-point of the antenna, with relay switching that would assign the Vactrol to either end. We're taking his idea one step further.

I'm a confirmed Cat-5 user: Cheap (\$40/1000ft), four well-balanced pairs, can be impervious to weather and works FB as a lead-in for *both* signal and control lines of practically any length. With four pairs in a Cat-5 going to each end, it wasn't a great mental leap to realize we had the means to control antenna-reversal switching.

First, here's a *single-channel* Vactrol controller for uni-directional applications that seems to work fine and draws little current from the internal 9-volt battery:

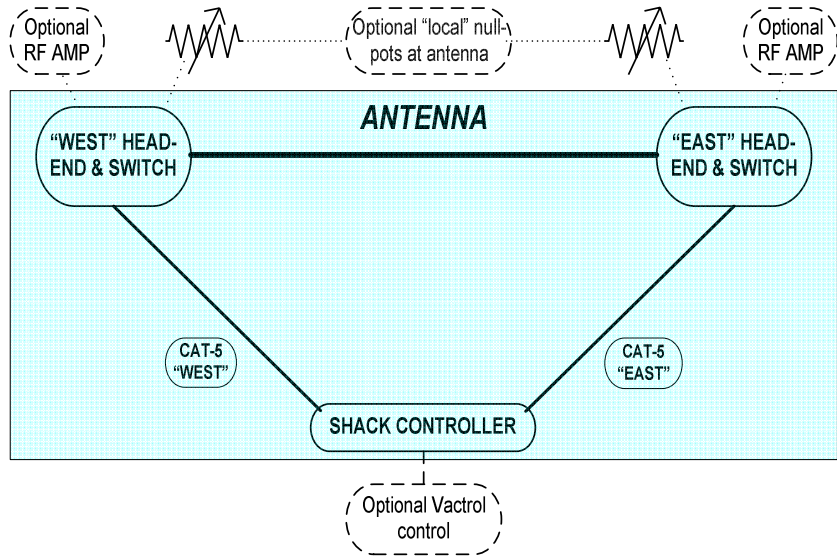
SINGLE-CHANNEL VACTROL CONTROLLER MD 0516

- 5---330-ohm ½-watt resistor
- 5---0.1 disc capacitor
- 1---22 mfd 25-volt capacitor
- 1---5kohm potentiometer
- 1---Vactrol VTL5C4
- 1---LDO-style 5-volt regulator
- 1---Garden variety LED
- 1---SPST switch
- 1---9-volt battery and holder
- 3---Dual banana posts
- 2---Hammond 1591SSGY
- Grey ABS Plastic Project Box



This controller provides "single-ended" antenna control and is usually all you need... unless you want to flip the antenna without major rewiring. To turn the uni-directional antenna into a reversible array we add some simple relay switching.

Here's the basic antenna-toggler platform. One switch in the shack simultaneously controls the mode of both ends of the antenna. Three pairs of the Cat-5 cable send control to each "antenna-head-end" and one Cat-5 pair downlinks the RF from the selected direction:

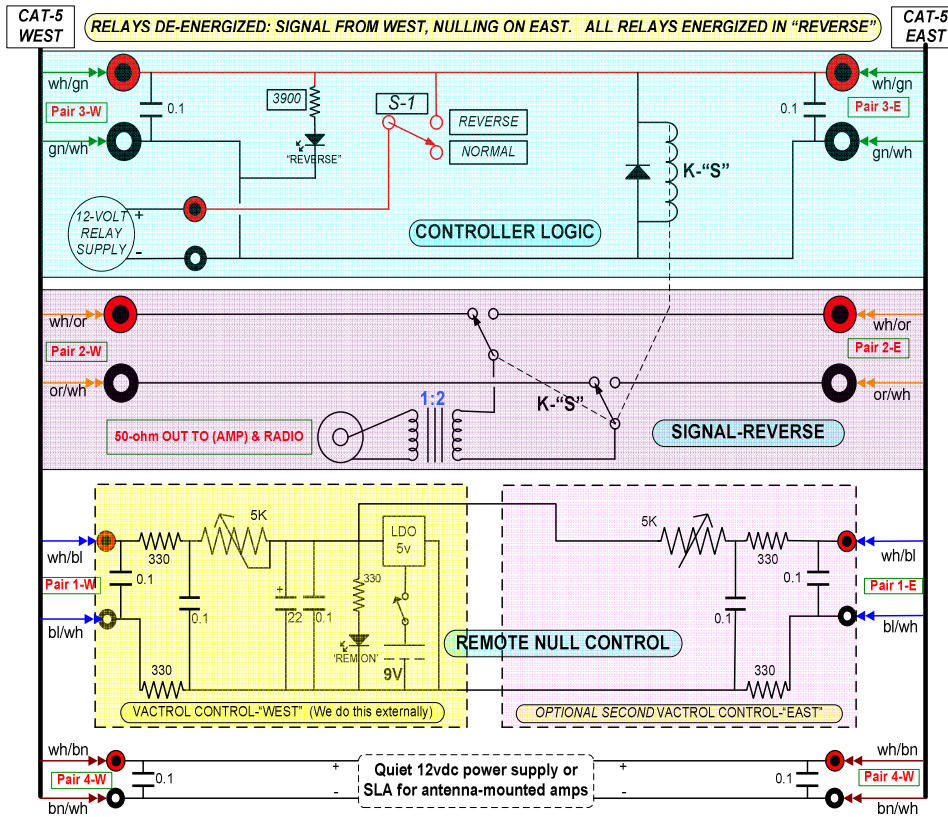


The antenna head-ends can include local null-pots for those of us who use "set-and-forget" nulling. For remote control of the null, Vactrols may be built in. The head-ends can also accommodate individual RF amplifiers at both ends. (Quiet 12-volt dc amplifier power is delivered via the 4th Cat-5 Pair.)

The arrangement to be described places the RF amplifier in the shack. Recent extensive testing (data available on request) has shown that, with Cat-5 lead-in and decent matching transformers, performance is not degraded when a single amplifier is located in the shack and locally-powered. In the 400ft+ Cat-5 lead-ins we measured, common-mode chokes were tried and were not needed (YMMV on very long lead-ins).

The shack control system can be configured with one Vactrol controller that's switched to follow the antenna direction selected. (Two Vactrol controllers can be used if you wish to preset the respective antenna nulls so that, when you reverse the direction, the opposite side is nulled and ready).

Here's the shack controller with areas color-coded by function:



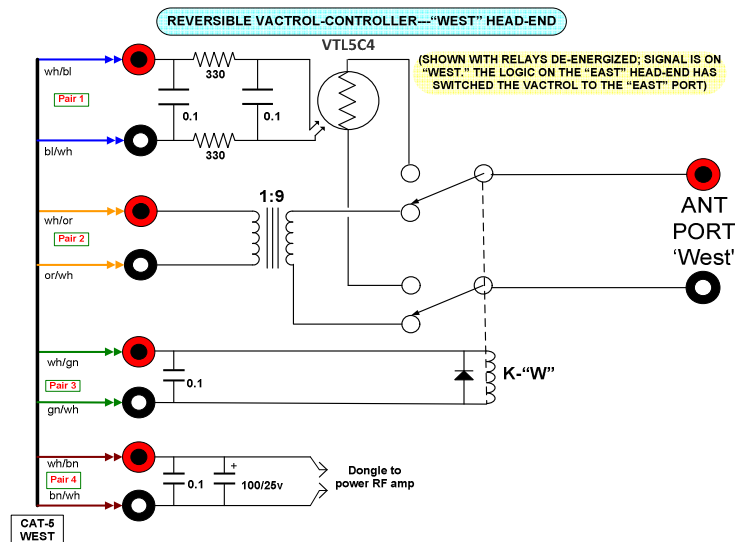
CONTROL LOGIC: The 12vdc control circuit to both Pair 3's drives the slave relays at each head-end. "K-S" in this drawing switches the signal path in concert with the relay switching at the head-ends. That's all you need for a basic reverser. Our system is set up so that when power is off, relaxed relays make "West" the default direction. When the reverser is enabled, all relays operate in tandem (*combined current draw 160ma*).

SIGNAL-REVERSE: Self-evident. A second switch (DPDT) can replace the relay.
REMOTE NULL CONTROL: We use plug-in 'outboard' Vactrol controllers since we wanted to also use these on other antennas. If you use a *single* Vactrol controller, you can switch it between desired antenna ends with an extra SPDT pole on either "S1" or "K-S."

The controller in its Hammond case. The banana plugs at lower left and right ("Pair 1's" in the diagram) don't go anywhere internally, since the Vactrol controllers are outboard. We simply jump the outboard controller outputs across these banana plugs.



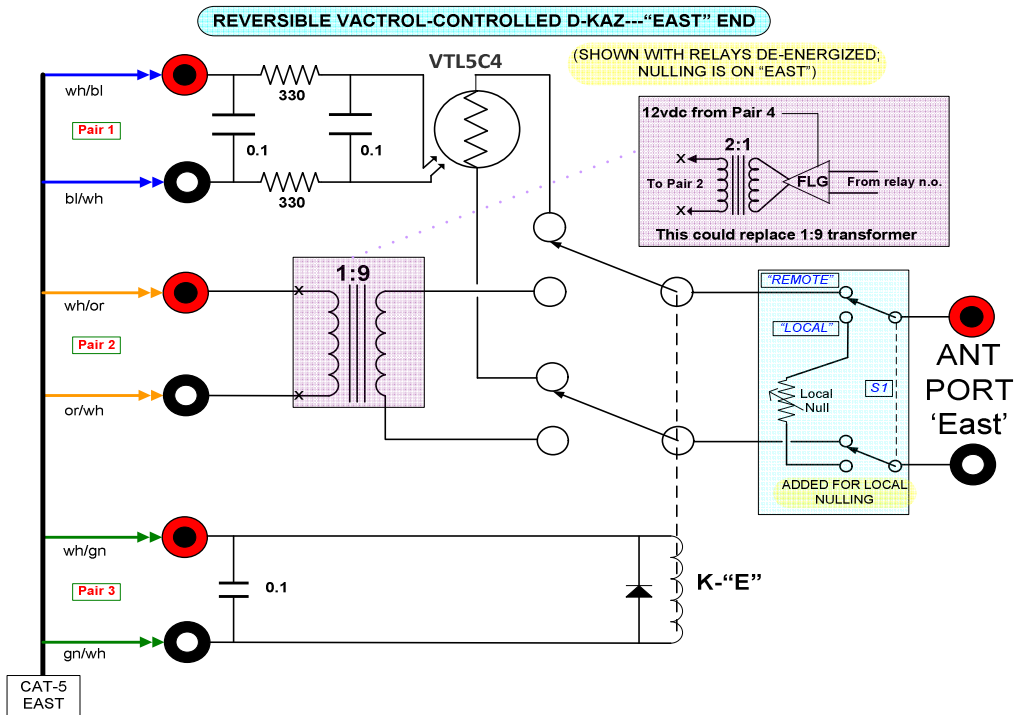
Now two different configurations of the antenna head-ends. First the "West" head-end, including a Vactrol slave and the powering for an optional antenna-mounted RF amp:



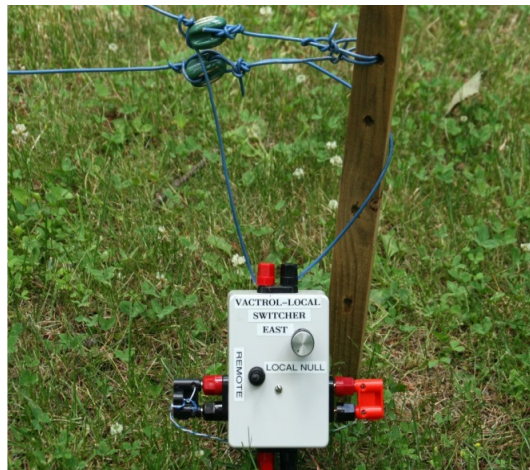
Here's the "West" head-end, below one end of a "treed" D-KAZ antenna:



The "East" head-end below is a version in which a *local-null-pot* which might be used in place of a Vactrol. We also show how an RF amp is inserted in the signal flow:



Finally, the "East" head-end at the other end of the D-KAZ:



(By the way, "East" and "West" are arbitrary creations to establish a frame of reference. Obviously, actual directions and default antenna-switching is up to you; we chose "West" as default since that's the direction we're usually looking.)

And that's about all there is to it. The system has been tested extensively in a quiet north-woods environment; both with and without common-mode chokes in the Cat-5 lines. (While the Cat-5 pairs exhibit excellent balance and common-mode rejection it's possible that in an electrically-noisy environment such chokes might be of some merit.)

It's fun to "pre-null" both sides of the antenna and, when switching between ends, find different stations on the same frequency; each at armchair-copy.

The next step in all this is the deployment of a directive "noise antenna" in conjunction with the reversible D-KAZ... to start looking for serious *daytime* DX.

Hope this is useful information; please feel free to sass back!

Mark Durenberger 070316, **mark4-at-Durenberger-dot-com**



GEOMAGNETIC INDICES – Compiled by: Phil Bytheway

E-mail: phil_tekno@yahoo.com

Geomagnetic Summary June 1 2016 through June 30 2016
 Tabulated from email status daily (K @ 0000 UTC.)

Date	Flux	A	K	Space Wx										
6/ 1	86	6	2	no storms	6/11	88	10	4	no storms	6/21	80	4	1	no storms
2	85	4	1	no storms	12	94	10	2	no storms	22	78	14	4	minor, G1
3	83	3	1	no storms	13	91	9	1	no storms	23	78	12	4	no storms
4	80	4	2	no storms	14	88	21	4	moderate, G2	24	76	12	3	no storms
5	79	29	5	minor, G1	15	87	14	1	minor, G1	25	77	7	2	no storms
6	79	26	2	moderate, G2	16	88	6	2	no storms	26	77	11	4	no storms
7	79	9	3	no storms	17	87	8	1	no storms	27	75	10	2	no storms
8	80	6	1	no storms	18	84	8	2	no storms	28	73	6	1	no storms
9	85	4	1	no storms	19	85	5	1	no storms	29	74	4	1	no storms
6/10	85	9	3	no storms	6/20	84	4	1	no storms	6/30	73	6	3	no storms

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level

6/27. Solar cycles changing <http://www.forbes.com/sites/brucedorminey/2016/06/27/sun-has-likely-entered-new-evolutionary-phase-say-astronomers/#394283ba278e>. (IRCA eGroup via Russ Edmunds)

6/27. Yet another take is the following: <http://www.earth-syst-dynam-discuss.net/esd-2015-30/> (a link to the full paper can be found in the upper right corner of the page). A precis and discussion is at <https://judithcurry.com/2016/06/27/are-we-headed-for-a-new-solar-minimum/>.

These links look at this from the perspective of the sun's effect on climate, but a quietening sun, periodic or otherwise, is of interest to DXers. (IRCA eGroup via Nick Hall-Patch)

“DX Monitor” Volume 54 Schedule

Issue	Volume	Deadline	Masthead	Event										
1708	#54-01	08/15/2016	08/20/2016	Beginning of Volume 54	1726	#54-19	01/09/2017	01/14/2017						
1709	#54-02	08/29/2016	09/03/2016		1727	#54-20	01/16/2017	01/21/2017						
1710	#54-03	09/12/2016	09/17/2016		1728	#54-21	01/23/2017	01/28/2017						
1711	#54-04	09/26/2016	10/01/2016	First Weekly Issue	1729	#54-22	01/30/2017	02/04/2017						
1712	#54-05	10/03/2016	10/08/2016		1730	#54-23	02/06/2017	02/11/2017						
1713	#54-06	10/10/2016	10/15/2016		1731	#54-24	02/13/2017	02/18/2017						
1714	#54-07	10/17/2016	10/22/2016		1732	#54-25	02/20/2017	02/25/2017						
1715	#54-08	10/24/2016	10/29/2016		1733	#54-26	03/06/2017	03/11/2017						
1716	#54-09	10/31/2016	11/05/2016		1734	#54-27	03/20/2017	03/25/2017						
1717	#54-10	11/07/2016	11/12/2016		1735	#54-28	04/03/2017	04/08/2017						
1718	#54-11	11/14/2016	11/19/2016		1736	#54-29	04/17/2017	04/22/2017						
1719	#54-12	11/21/2016	11/26/2016		1737	#54-30	05/01/2017	05/06/2017						
1720	#54-13	11/28/2016	12/03/2016		1738	#54-31	05/15/2017	05/20/2017						
1721	#54-14	12/05/2016	12/10/2016		1739	#54-32	05/29/2017	06/03/2017						
1722	#54-15	12/12/2016	12/17/2016		1740	#54-33	06/12/2017	06/17/2017						
1723	#54-16	12/19/2016	12/24/2016		1741	#54-34	06/26/2017	07/01/2017						
1724	#54-17	12/26/2016	12/31/2016	Last Issue of 2016	1742	#54-35	07/17/2017	07/22/2017						
1725	#54-18	01/02/2017	01/07/2017	First Issue of 2017	1743	#55-01	08/14/2017	08/19/2017						

IRCA TIS/HAR LIST (Winter 2016)

The IRCA TIS/HAR LIST lists all US and Canadian TIS/HAR stations, by frequency, including call letters, state (province,) city, county, licensee, address, coordinates, expiration date and dates of DXM/DXN reports/sources. It has been updated with FCC data, DXM, DXN and DXer reports, and on-line listings through March 1 2016.

The 2016 IRCA TIS/HAR LIST is posted on the IRCA website for all to download. The link is: http://www.ircaonline.org/TIS_2016.pdf.

For those preferring a hard copy, one can be ordered from the IRCA.

Prices: IRCA/NRC members – \$9.50 (US), \$11.00 (Canada) \$12.50 (México), \$14.00 (rest of the world). Non-IRCA/NRC members – add \$2.00.

IRCA Mexican Log, 20th Edition (Winter 2015)

The IRCA MEXICAN LOG lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

Prices: IRCA/NRC members – \$9.50 (US), \$11.00 (Canada) \$12.50 (México), \$14.00 (rest of the world). Non-IRCA/NRC members – add \$2.00.

A DXers Technical Guide, 4th Edition (Spring 2004)

In its nearly 200 pages you will learn about the principles underlying the design of successful receivers, antennas and receiving accessories, find reviews of the best commercially available DXing equipment in different price ranges, as well as detailed instructions for building one's own antennas and other DXing aids. Although it focuses on the technical backdrop to medium wave DXing, it will also be of interest to serious shortwave listeners and low band radio amateurs.

Prices: IRCA/NRC members – \$15.00 (US), \$16.50 (Canada) \$18.00 (México), \$20.00 (rest of the world). Non-IRCA/NRC members – add \$2.00.

IRCA Slogans List (Winter 2015)

This completely revised Slogans List includes radio slogans from the US and Canada (over 4400).

Prices: IRCA/NRC members – \$7.25 (US), \$8.50 (Canada) \$10.00 (México), \$10.75 (rest of the world). Non-IRCA members – add \$1.00.

Sunrise/Sunset Maps

12 maps showing 15 minute sunset and sunrise times for the US and 12 maps showing hourly sunset and sunrise times for the World. Explanation includes use of the maps and examples of DX made possible by knowledge of SR/SS times.

Prices: IRCA/NRC members – \$2.25 (US), \$3.00 (Canada) \$3.50 (México), \$4.50 (rest of the world). Non-IRCA members – add \$1.00.

IRCA Foreign Log

The IRCA has published nine volumes of the IRCA Foreign Log which are still available. Each volume contains the several hundred actual tips that were reported to the DXWW sections during an entire year, compiled and retyped in a book format. In addition, special features include articles on foreign DXing (volumes 6, 7 and 8), utility lists (volumes 7 and 8), shortwave parallels (volume 8) and CCB propagation (volumes 6, 7 and 8). The IRCA still has volumes 3, 4, 6, 7 and 8 of the IRCA Foreign Log available for \$2.50 each (overseas add \$3.00/book).

IRCA Reprints

The IRCA maintains a large file of articles that have appeared in past issues of **DX Monitor**. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. Price for the complete list is \$1.00.

Also from the IRCA. "IRCA REPRINTS ON CD"!!! 648 Reprints. The entire set, now on one CD. Categories include: Antennas, Domestic, Foreign, History, DX Lists, Receivers and Receiver Modifications, and Technical. Check out the table of contents at: <http://ircaonline.org/2004ReprintList.htm>.

Prices: **IRCA/NRC members** – \$10.00 (US), \$11.00 (Canada) \$11.50 (México), \$12.50 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

"DX Monitor" on DVD

IRCA's regular bulletin "**DX Monitor**" Volumes 1 through 49 in .pdf format on 2 DVDs. Re-live the days gone by and re-introduce yourself to the former members who helped make the IRCA great!! NOTE: You will NEED a DVD reader to open the .pdf files. These files were TOO LARGE to use regular CD's.

Prices: **IRCA/NRC members** – \$15.00 (US), \$16.00 (Canada) \$16.50 (México), \$17.50 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

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The 7th Edition of the **NRC Antenna Pattern Book** is now available. This all new edition prepared by NRC'er Paul Swearingen is an all-inclusive book of patterns for both Day and Night operation of stations in the USA, Canada and selected foreign stations. The data for the book comes from the 34th Edition of the AM Radio Log and NRC'er John Callerman's comprehensive Mexican station listing.

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The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from November through March, twice monthly from April to November.) **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.



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