

April 27, 2013 – Volume 50, Number 27 – Edition 1598 – ISSN 899-9733

Bill Nittler

Bill was another charter member of IRCA, who has supported IRCA in many ways over his long association with the club. He was the brother of fellow DXer Francis "Fran" Nittler. Bill was 78 years old when he passed away on April 10, 2013 in Belen, NM. Bill's contributions to IRCA (especially to WDXR) will be sadly missed. IRCA extends its condolences to Bill's family in their most difficult hour.

FROM THE EDITOR-IN-CHIEF

You never expect anything like this kind of weather until it actually happens to you. On the night of April 10, 2013, a tornado, categorized as an EF2 on the Enhanced Fujita Scale (look that one up in your favorite Internet search engine-EIC), slammed into Hazelwood, MO. Your Editor-in-Chief's QTH only sustained antenna damage, as well as an uprooted tree.

I was able to get the VHF single sideband portion of my Amateur Radio station back on the air by Sunday (4/14); I also got my VHF FM Amateur Radio station back on at less than half power. My QTH was without electricity from about 2100 ELT 4/10 to 1545 ELT 4/12. The QTH I started my experience in the DX hobby at in 1981 on Lamplight Lane sustained significant roof damage. A house up the street from my original QTH suffered chimney damage. The worst damage was just a few blocks to the south of my QTH. John Tudenham of Joplin, MO gave me a phone call (a "land line" in Amateur Radio parlance) on the morning of 4/11; he also sustained damage in the 2011 Joplin tornado. As a result of the April 10 tornado and resulting power outage, for SDXM subscribers, Volume 50 Number 27s was a couple of days late. Our thoughts and prayers are with the family of Bill Nittler in their most difficult hour. It was on the same day that the tornado hit near my QTH that we lost Bill. He will be sadly missed by IRCA and the DX community. Just a reminder that IRCA **still desperately needs a DXM Publisher**...we only have a limited number of hardcopy issues left. If there's anything you would like to do for IRCA, let Lee Freshwater know. **Come on, let's give Fresh a hand!**

NEW EASTERN DX ROUNDUP EDITOR

Beginning with Issue 28s (28 for you hardcopy subscribers), your Editor-in-Chief has added another column: Eastern DX Roundup. IRCA sends its appreciation to Lee Freshwater for his stewardship of the column, and wishes him the best of luck in his future endeavors. Your EIC has had the fortune of living and vacationing in the EDXR area. Also, my first hardcopy DXWWE column is in this issue.

IRCA ELECTION UPDATE

For those who have not already voted in the IRCA elections (it's been slow so far), please note that the deadline for ballots to be received is June 1st. Please take a moment to send either an e-mail ballot to nhp@ieee.org or a regular postal ballot to: **Nick Hall-Patch, 1538 Amphion St., Victoria, BC, Canada V8R 4Z6**. The ballot and details were contained in the 30 March 2013 *DX Monitor*. Take a moment to show your appreciation by voting for one of the candidates who have worked hard for IRCA.

The ballot must be RECEIVED by the Election Committee Chairman no later than 0001 hours Eastern Standard Time, June 1, 2013. (contact the ECC if you do not have a ballot)

Those subscribing to both the hard copy and electronic versions of the DX Monitor may vote by using the hard copy ballot OR by e-mail, whichever is the most convenient to you. PLEASE DO NOT DO BOTH. Thank you.

(I have tried to confirm by return mail every e-mail ballot that has been received. Unfortunately, spam filters sometimes eat mail, so, if you voted by e-mail, and did not receive a confirmation, please try re-sending your ballot and cc it to nhallpatch@netzero.net to guarantee arrival. Thanks.)

NEW PUBLISHER NEEDED NOW!

Friends...we have three hard copies of DXM left in this Volume. As of today, **NO ONE** has expressed interest in taking over the publication duties. Should this lack of interest continue, I will be forced to ask for a Board of Directors vote on ceasing publication of the printed version of DX Monitor. I will not be waiting until the last

minute on this. Plans have to be put place ahead of time for this to happen. **THERE WILL BE NO REPRIEVE**. IRCA will become an "Internet only" club. We will continue to publish DX Monitor as before, but only in a PDF file. Those who do not own a computer will be able to get a free E-mail account from various sources (Yahoo!, Gmail, et cetera) and print a copy at their local library (most good libraries have Internet access). Members who get the hard copy version will have their dues adjusted accordingly. Those who want refunds will get them, or they can apply any overage to their membership. We announced that this would be the last volume in the hard copy version LAST AUGUST. The time has come. **IF SOMEONE DOES NOT COME FORWARD IN THE NEXT FEW WEEKS, THE HARD COPY VERSION WILL END THIS AUGUST.** (via IRCA President Lee Freshwater)

LEARNING AND SHARING: 2013 - TWIN CITIES

This note joins our information with yours, regarding your attendance. We're excited you're planning to join us for this great get-together...and we'll keep you busy!

To inform others of your whereabouts:

DATE: August 1-4, 2013

HOTEL: Holiday Inn Bloomington Airport South. 1201 West 94th Street, Bloomington, MN 55431 (952) 884-8211

MUSEUM OF BROADCASTING: (Main venue) 3517 Raleigh Avenue, St. Louis Park MN 55416. (952) 926-8198. Use this address, "c/o Steve Raymer", to pre-ship auction items etc.

Speaking of the Auction: This year the Museum is adding some items of its own, including a Hallicrafters FPM-300 and a Kenwood TS-520S. So bring your checkbook! Unless you tell us otherwise, we'd like to mention your name when we publish the list of who's attending. (This might encourage your friends to come to see you.)

What are your primary interests in attending? _____

Will you need any special accommodations that you haven't arranged with the hotel? _____

YES: _____

Your expected mode of transportation to Minneapolis _____

Your expected arrival date/time at the hotel: _____

Please return the info we need to **Mark Durenberger, 6400 Barrie Road, Suite 1600, Edina MN 55435**, or e-mail the information by clicking the "**Contact Us**" button at www.durenberger.com (We don't need this form, just your info.)

Response has been terrific for the August Joint DX Convention in Minneapolis. At this point the following folks are signed up or (we're told by their friends) may be attending:

Scott Fybush Bill Dvorak Frank Merrill Rick Lucas Steve Walko Doug Smith Matt Sittel Nigel Pimblett Mike Bates Todd Skaine Eric Koester George Sherman John Crabtree Scott Blixt Steve Kremer Mel Larson Mark Pysick Pete Reiter Skip Dabelstein Mark Durenberger Dean Sorenson Nick Hall-Patch Neil Kazaross Theo Donnelly Andrew Ooms Wayne Heinen Paul Swearingen John Sampson Ernie Wesolowski Mike Lantz Phil Bytheway Lee Freshwater Mike Sanburn Bill Dvorak Jim Dale Eric Cooper David Jones. Others are signing up.

We wanted you to know about these folks in case it gave you the idea that you might want to attend, to hook up with them. Many attendees will be presenting technical "papers" and 'show-and-tell.'

The hotel is the **Holiday Inn Bloomington South Airport Mall** in Minneapolis. Make your hotel reservations *right now*, to get the special convention rate. Call the Holiday Inn at 952-884-8211. Use the registration code "NRC" to obtain the special convention rate of \$73.00 per night, plus tax. Cost for convention registration is \$45 for members and for guests. This includes the Saturday night banquet, as well as the **Museum of Broadcasting** and the Friday evening "Pizza-fest" at the Museum.

Your check or Money Order for registration should be payable to: "**The National Radio Club**". Send to **Skip Dabelstein at 8008 North Iron Ridge Drive, Tucson, Arizona 85743**. You can contact Skip at ckdabel@comcast.net. Once you're registered, we'll send you an information form so we can learn about your special needs and interests. *Register early so we can send you pre-convention information.*

You can also sign up on-line at <http://www.nrcdxas.org/convention/13nrccon/2013info.htm>

Remember to add a dollar to the on-line cost if you're using PayPal. If you have questions, please contact Host Mark Durenberger at www.durenberger.com. For further information about the clubs, go to: <http://www.ircaonline.org/>

FROM THE PRESIDENT (Lee J. Freshwater)

Volunteers are needed for the following:

AWARDS : Not much to do here except for printing out the HEALD award every year. . No one has applied for the DX awards for many years.

PUBLISHING : Get address list from Lynn. Create labels and envelopes. Send (email) PDF file from the EIC to the printers. Pick up, Staple, Fold, stuff, then mail. It takes me about an hour to do the labels and envelopes. I usually do the envelopes on Wednesday morning before leaving for work. I pick up the DXM at the Printers on Wednesday night on my way to dinner. I staple, fold and mail on SATURDAY AM. It takes about an hour to fold and staple. It helps when you have a wife that assists you. You can set your own schedule as long as the issues go out on or before the masthead date. You will also need to send out sample issues as needed.

I will be giving up these duties at the end of VOLUME 50. If no one comes forward during VOLUME 50, these features WILL go away. I will NOT extend my club duties past VOL 50.

CANADIAN RADIO NEWS

Dan Sys- sysdan@gmail.com

For March 2013 (April 1 2013 – next update May 1 2013)

TECHNICAL CHANGES ON THE AIR

1410 QC Montreal CJWI Moved from 1610 and increased power from 1,000 watts (fulltime) to 10,000 watts (fulltime)

AM TO FM CONVERSIONS GRANTED

1050 MB Winnipeg CKSB Move to 88.1 with 100,000 watts

PARTIAL AM TO FM CONVERSIONS GRANTED

590 MB Flin Flon CFAR Move to 102.9 with 191 watts (CFAR 590 will remain on the air as a nested repeater)
 610 MB Thompson CHTM Move to 102.9 with 190 watts (CHTM 610 will remain on the air as a nested repeater)
 1240 MB The Pas CJAR Move to 102.9 with 250 watts (CJAR 1240 will remain on the air as a nested repeater)

CALL FOR APPLICATIONS

BC Vancouver The CRTC has issued a Call For Applications for Vancouver after receiving an application from South Fraser Broadcasting for a new EE language commercial FM station in the Vancouver suburb of Surrey (no details regarding this proposed station have been released yet)

BROADCASTING INFORMATION

Robert J. Wien (KG6RJW/3) - 902 Hall Station Drive #104 - Bowie, MD 20721
E-mail: wienbob@aol.com Column Deadlines: Saturdays

DATE OF COLUMN: APRIL 20, 2013

Column data span: April 6, 2013-April 20, 2013

Data courtesy of Stationintel.com, FCC database and member contributions

COLUMN DEADLINES: SATURDAYS

FORMAT, SLOGAN AND SILENT STATUS CHANGES

| FREQ | CALL | CITY OF LICENSE | NEW INFORMATION |
|------|------|-----------------|---|
| 570 | KVI | Seattle, WA | old slogan: "Smart Talk 570", new: "Talk Radio 570" |
| 580 | WELO | Tupelo, MS | adds slogan "Tupelo's Heart and Soul" |
| 580 | WELO | Tupelo, MS | was classic country, now urban AC |
| 680 | WINR | Binghamton, NY | adds slogan "Oldies 96-9" |
| 800 | WDSC | Dillon, SC | old slogan: "The Light", new "800 NBC Sports Radio" |
| 800 | WDSC | Dillon, SC | was black gospel, now Dial Global NBC Sports |
| 960 | KOVO | Provo, UT | was Fox Sports radio, now Dial Global NBC Sports |
| 1010 | WELS | Kinston, NC | was silent, now black gospel |
| 1180 | WSQR | Sycamore, IL | was adult standards, now classic hits |
| 1240 | KRJW | Altamont, OR | new construction permit |
| 1240 | KVRC | Arkadelphia, AR | old slogan: "Newstalk 1240", new: "Kix 106.9" |
| 1240 | KVRC | Arkadelphia, AR | was talk, now country |
| 1270 | WTSN | Dover, NH | was ESPN sports, now Fox Sports Radio |
| 1280 | KPTQ | Spokane, WA | new: "1280 Fox Sports Spokane" |
| 1280 | KPTQ | Spokane, WA | old slogan: "1280 Classic Country" |
| 1280 | KPTQ | Spokane, WA | was classic country, now Fox Sports Radio |

| | | | |
|------|------|----------------------|---|
| 1280 | KZNS | Salt Lake City, UT | was Fox Sports radio, now Dial Global NBC Sports |
| 1310 | WKZD | Priceville, AL | old slogan: "1310 Oldies", new: "Oldies WKZD" |
| 1330 | WJSS | Havre De Grace, MD | now silent |
| 1340 | WALH | Mountain City, GA | now silent |
| 1340 | WNBS | Murray, KY | was news/talk, now CBS Sports |
| 1350 | WOYK | York, PA | was Dial Global NBC Sports, now Yahoo Sports Radio |
| 1380 | WSYB | Rutland, VT | deletes 'secondary format' (not listed-ye ed) |
| 1400 | WGHC | Clayton, GA | now silent |
| 1420 | WRSR | St. Albans, VT | now silent |
| 1470 | KWRD | Henderson, TX | was ESPN sports, now Cumulus Today's Best Hits |
| 1490 | WBSS | Pleasantville, NJ | was silent, now classic hits, adds slogan "Kool 98.3" |
| 1490 | WFAD | Middlebury, VT | now silent |
| 1500 | KHKA | Honolulu, HI | old slogan: "ESPN Radio 1500", new: "NBC Sports 1500" |
| 1500 | KHKA | Honolulu, HI | was ESPN radio, now Dial Global NBC Sports |
| 1520 | WVOH | Spindale, NC | now silent |
| 1550 | WAMA | Tampa, FL | old slogan: "ESPN Deportes 1550", new: La Ley 1550" |
| 1550 | WAMA | Tampa, FL | was Spanish sports, now regional Mexican |
| 1550 | WVAB | Virginia Beach, VA | now silent |
| 1600 | KIVA | Albuquerque, NM | new: "The Rock of Talk 1600" |
| 1600 | KIVA | Albuquerque, NM | old slogan: "The Truth 1600" |
| 1690 | WIGT | Charlotte Amalie, VI | is new, format not available |

A fairly small column this time, no new call changes nor new member contributions, so must be getting into the slow time of DX season now. Getting my house in order right now with new ceiling fans installed and shutters coming soon, and lots of furniture to move around so lots of work still to do here. DX'ed a bit the other night and caught great ID from WCKB-780 NC. at signoff! Weather getting warm here with many trees here in full spring bloom now with white, pink and even purple flowers on them, gorgeous! Spring has sprung! 73's, Bob Wien

WESTERN DX ROUNDUP

Nancy Johnson – 265 Waterton Way – Billings MT 59102-7755
E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: May 3, May 17, May 31, June 21, July 5, July 19. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

(RB) **Rick Barton**-El Mirage, AZ desertmoon_dxshack@inbox.com
 Hammarlund HQ-120X & HQ-180A, Slinky, Panasonic RF-2200
 (RB-AZ1) DX'ing from Benson, AZ with Panasonic RF-2200, Radio Shack DX-375, GMC pickup factory car radio

(AB) **Art Blair**-730 SW 3rd St.-Fruitland, ID 83619 artblair1937@gmail.com
 NRD-515, Kiwa loop

(MF) **Martin Foltz**-Mission Viejo, CA martinfoltz@cox.net
 HQ-180A, 80' wire

(DG) **Dennis Gibson**-831 Cliff Dr. #C-3-Santa Barbara, CA 93109-2342 wb6tnb@yahoo.com
 Sony ICF-2010

(GH) **Glen Hansen**-64985 Olson Rd.-Deer Island, OR 97054 gbhansen2@q.com
 Hammarlund HQ-180, Hammarlund SP-600, TMC GPR-90, 300' wire S/W, 800' wire E/W, Kiwa loop

(PM) **Patrick Martin**-P.O. Box 843-Seaside, OR 97138-0843 mwdxer@webtv.net
 Drake R8, SW EWE, 1500' Eastern Beverage

(NP) **Nigel Pimblett**-Dunmore, AB T0J 1A0 nige2730@telus.net
 Perseus SDR and Wellbrook array antenna

550 KLLV CO, Breen 3/23 0934 KLLV ID and religious talk. (AB-ID)

560 KLZ CO, Denver 3/25 0535 programming promos, "On KLZ 5-60, The Source." Good here in Benson area, not buried under IBOC hash from local KFYL on 550. (RB-AZ1)

590 KUGN OR, Eugene 3/18 0200 ID as "Your station for local news...we're Newstalk 590 KUGN Eugene-Springfield..." then ABC news. (NP-AB)

710 KNUS CO, Denver 3/25 0520 Michael Medved talk show, SRN news at BoH, and spot for "Home Smart Realty on Newstalk 7-ten...Colorado." At home would not be heard under powerhouse KBMB, from just up the road at Black Canyon City. (RB-AZ1)

750 KOAL UT, Price 3/23 2300 NBC news to local spot, mentioned "Eastern Utah," into Coast to Coast AM program. (RB-AZ1)

810 KGO CA, San Francisco 3/24 2330 "On 8-ten, KGO." very good. (RB-AZ1)

850 KHHO WA, Tacoma 4/1 1034 traffic report, ads and Dan Patrick Show. (AB-ID)

910 KKSF CA, Oakland 3/18 2359 local ad for house siding, then ID "...Newstalk 910, KKSF, Oakland-San Francisco-San Jose." (NP-AB)

920 KWYS MT, West Yellowstone 3/17 2158 over KXLY with "Dust in the Wind" by Kansas, then ID at the hour "KWYS-AM, KEZQ-FM, West Yellowstone, Island Park, Yellowstone Park" followed by ABC news. (NP-AB)

970 KHTY CA, Bakersfield 3/18 0700 under dominant WDAY with "This is KHTY Bakersfield, Fox Sports 970" on the hour. (NP-AB)

980 KMIN NM, Grants 3/24 1205 local spots, mentioned "Cibola County," area code "5-oh-5," followed by a "K-Mine Country" jingle. Faint, shaky, but audible after local sunrise. (RB-AZ1)

1000 KKIM NM, Albuquerque 4/5 1000 "KKIM 1000." (AB-ID)

KTOK OK, Oklahoma City 4/5 0800 KTOK ID and news, poor. (AB-ID)

1030 KDUN OR, Reedsport 3/17 2200 ID at the hour as "The most powerful voice on the Oregon Coast, this is KDUN, Reedsport," then Fox news. Virtually alone on the freq. with no KTWO under auroral conditions. (NP-AB)

+4/1 2050 songs "Twilight Time" by The Platters and "Downtown" by Petula Clark, KDUN ID at 2055. (AB-ID)

+4/2 2242-2300 oldies "We're K-dune AM 10-30" once between songs. Lost at 2300, their power change. New. (MF-CA)

1060 KBGN ID, Caldwell 4/1 2057 instrumental music with a bluegrass flavor, "KBGN Caldwell-Boise" ID at 2100. Still on at 2330 recheck. (AB-ID)

KIJN TX, Farwell 3/17 2201 vocal by a woman, then ID just past the hour "Jesus station...1060 AM, Farwell, Texas," then more Spanish language Christian music. (NP-AB)

1080 KSCO CA, Santa Cruz 3/18 0159 recycling PSA, ID as "You're listening to KSCO, Santa Cruz...", then CBS news. (NP-AB)

1100 KNZZ CO, Grand Junction 3/24 2331 local spots, "Western Colorado Alpine Bank," gun talk show. Excellent, at home it would be blasted to oblivion by local blowtorch KFNX transmitting from Carefree Hwy and Cave Creek Road. (RB-AZ1)

1130 KQNA AZ, Prescott Valley 3/24 2143 260(?) miles at 1kw. Local spots and "Yavapai County." Very good. (RB-AZ1)

1140 KNWQ CA, Palm Springs 4/10 2215 in/out over Las Vegas sports station with program calling itself "Ground Zero," excellent on peaks. (RB-AZ)

KXST NV, N. Las Vegas 3/24 2220 sports talk, Missouri hoops, March Madness. Armchair quality. (RB-AZ1)

1170 KFAQ OK, Tulsa 3/23 2312 story telling segment on a talk show, sounded much like voice of Art Bell. Good pre-sunset signal. Heard using omni-directional antenna on GMC factory-dashboard rig. (RB-AZ1)

1180 KERN CA, Bakersfield 3/18 0400 ID at the hour as "This is KERN, 1180 Bakersfield. More people are listening to us...Newstalk 1180," then ABC news. No trace of KOFI in auroral conditions. (NP-AB)

1200 KYAA CA, Soquel 3/23 0030 good with oldies. It has been donated to IHR Educational Broadcasting, which will air it's Immaculate Heart Radio Catholic religion format currently on nearby KNRY-1240 Monterey. It may have changed by the time this is published. (DG-CA)

1220 WHKW OH, Cleveland 3/18 0500 "WHKW Cleveland, WHKZ Warren, bringing the Word to northern Ohio..." then a program promo. (NP-AB)

1230 KINO AZ, Winslow 3/19 0200 ID at the hour "KINO, Winslow, Arizona," then 11:00 time check and into CBS news. Almost alone in auroral conditions. (NP-AB)

1240 KSMX CA, Santa Maria 3/18 0400 ID at the hour as "Live, on line at 1240ksmx.com, 1240 KSMX Santa Maria, a service of Eldorado Broadcasters," then AP Radio news. (NP-AB)

KSUE CA, Susanville 3/19 0000 "First with local news, weather and sports, AM 1240 KSUE Susanville," then into ABC news. (NP-AB)

KSLV CO, Monte Vista 3/17 2200 ID through a jumble as "...your classic country station, AM 1240 KSLV." (NP-AB)

1260 KSFB CA, San Francisco 3/23 0000 religious talk. Fair at times but mostly poor on TMC with S/W wire. Long time no hear. (GH-OR)

1270 WXYT MI, Detroit 3/18 0659 sports talk, then ID through a jumble "WXYT...WXYT-HD, Detroit, CBS Sports Radio 1270..." New for me! (NP-AB)

KBAM WA, Longview 4/10 0135 "Real Country" slogan and C&W music, 1260 KTRP slop. (AB-ID)

1330 KKPZ OR, Portland 4/11 0050 a man and woman talking in Spanish, she gave station address at 0054. (AB-ID)

CJYM SK, Rosetown 3/24 2157 The Beach Boys song "In My Room," CJYM ID at 2200. (AB-ID)

1350 KABQ NM, Albuquerque 3/24 2033 series of spots, "The Travel Show." Pre-sunset and very good. (RB-AZ1)

1360 KKMO WA, Tacoma 4/11 0103 lots of nice Mexitunes, "El Ray" mentioned. (AB-ID)

1380 KENN NM, Farmington 4/7 2203 break from local talk show to PSAs, spot for "New Mexico Lottery," and several references to "Farmington." (RB-AZ)

1400 KCYK AZ, Yuma 4/7 2130 160 miles on 1kw "On AM 1400, KCYK." First log here. ID very clear over muddled GY channel. Heard in null of local KSUN. (RB-AZ)

KWUF CO, Pagosa Springs 3/18 0000 out of the mud with ID "This is KWUF 1400 AM, at one end of rainbow, Pagosa Springs, Colorado." (NP-AB)

KEDO WA, Longview 3/18 0200 ID at the hour as "This is news talk, sports talk, AM 1400 KEDO, Longview..." (NP-AB)

1430 KCRX NM, Roswell 3/24 1000 KCRX ID under KYKN. New. (AB-ID)

1460 KION CA, Salinas 4/7 0030 news & ID. Fair from time to time then buried in the swamp on SP-600 and E/W wire. Not often heard. (GH-OR)

1480 KPHX AZ, Phoenix 3/29 0900 KPHX ID and CNN(?) New, poor with KRXR QRM. (AB-ID)

1510 KCKK CO, Littleton 3/24 0027 spot for "Office Liquidators," "303" area code, very good on loop null of KFNN out of north Phoenix. Unheard at the home QTH. First log. (RB-AZ1)

1520 KOKC OK, Oklahoma City 3/15 0345 good with Red Eye Radio Show through semi-local KUNX open carrier. Audio returned before TOH. Not heard here since 1994, when 1520 was off for several days following the Northridge earthquake. Also heard KOMA on a car radio on my honeymoon in Maui in late September 2001. That was a pleasant surprise. (DG-CA)

+4/12 2100 "On 15-20, KOKC, Oklahoma City...it's eight o'clock," to network news. Actually, it's 6 o'clock PM here, and the sun is still up, bright and hot. So it is always nice to get some early DX. Caught on barefoot RF-2200, sitting on the bathroom towel rack. (RB-AZ)

1530 KFBK CA, Sacramento 4/8 1030 local weather, male announcer "High of 90 degrees," then cleverly going into a local spot for an air-conditioning company. Female with "7:30 on News Radio KFBK, I'm Amy Lewis." Hanging steady well after local sunrise. (RB-AZ)

KCMN CO, Colorado Springs 4/5 0230 fair to good on top of KFBK at times with oldies and I-25 IDs, weaker reports for Colorado Springs and Pueblo. Must have been on day power (15kw ND) with the signal, listed at 15 watts at night. For some reason I have no record of logging this station in the past. This is new for me. (PM-OR)

1560 KNZR CA, Bakersfield 4/8 1020 local talk show on guns. Well after local sunrise, coming thru with one long fade, then back. (RB-AZ)

1570 CKMW MB, Winkler 4/5 2230 C&W with ID. Fair to poor sputtering in the static, on TMC with S/W wire. (GH-OR)

1580 CKDO ON, Oshawa the logging of CKDO in the last WDXR was reported by Patrick Martin, not Art Blair. Sorry Patrick for the mix up!--NJ

1590 KLFE WA, Seattle 3/23 0904 "Freedom 1590" slogan. (AB-ID)

1600 KEPN CO, Lakewood 3/25 0930 breaking from Dan Patrick Show to male and "Denver...AM 16-hundred, The Zone." Fair to good, post sunrise. First log. (RB-AZ1)

1610 CHHA ON, Toronto 3/11 fair and above the jumble briefly at 0503 with O Canada, followed by a female announcer "Radio Voices Latina" ID, lost again in jumble. This station is getting more common. (PM-OR)

1620 WTAW TX, Bryan 4/8 2100 "WTAW College Park-Bryan" to Fox news. Very strong, but faded out after first break from newscast. Caught scanning dial on RF-2200 with loop favoring E-W. (RB-AZ)

1670 KHPY CA, Moreno Valley 4/14 0300 religious talk by female in Spanish to ToH and ID with jingle and female announcer "KHPY Moreno Valley, AM-16-70." Perfect reception. (RB-AZ)

1690 KGED CA, Fresno 3/25 0920 female talk show on guns, very good. (RB-AZ1)

KFSG CA, Roseville 4/8 2340 Spanish vocal music to male in quick cut-in "KFSG, Sacramento" then right back into music programming. Very solid. (RB-AZ)

KDDZ CO, Arvada 4/8 2120 electronic pop, very good. Raising S-Meter way up to S-9 and beyond on Hammarlund HQ-180A and Slinky. (RB-AZ)

1700 WQQK643 OR, Happy Valley 3/13 fair with peaks with different announcements on things going on around Happy Valley "Happy Valley's new radio station..." 1823 mentioned website and they want to hear from listeners. (PM-OR)

DX TESTS

1230 (KSEY) TX, Seymour 3/24 2300-0000 nothing heard, only an unID C&W and unID sports talker from time to time, on SP-600 with E/W wire. (GH-OR)

1400 (WKBI) PA, St. Marys 3/31 2300-0000 as expected, nothing heard. I figured I didn't have a chance but tried anyway. (GH-OR)

1480 (KBXD) TX, Dallas 3/16 2330-0000 nothing heard, only semi-local KBMS and very faint Spanish possibly KRXR. I'm doubting the test was held at all. Exactly like last week. 3 different radios and 3 different antennas. Nothing! (GH-OR)

UNIDS

1240 UNID 3/25 0903 "Cruisin' Favorites." Not audible at home from KOY 1230 splatter. Still checking for slogan, likely was fairly nearby KJAA Globe. (RB-AZ1)

John and I were saddened to hear of the recent passing of Bill Nittler. One of the founders of IRCA, Bill was a regular contributor to WDXR through the years, and entered the contest each season. We'll miss you Bill! -- Nancy 4/19 2100

CENTRAL DX ROUNDUP

John C Johnson – 265 Waterton Way – Billings MT 59102-7755

E-mail: John_Johnson@prodigy.net

CDXR reports ONLY: cdxr@ircaonline.org

RIDING GAIN

[EB-MO] **Eric Bueneman**, Hazelwood, MO **NOUIHEric@aol.com**
GE Superadio III, Yaesu FRG-7, Worcester Space Magnet II.

[GH-OK] **Glenn Hauser**, Enid, OK **wghauser@yahoo.com**
DX-398

[TMJ-IL] **Tom Jasinski**, Joliet, IL **amdixer@core.com**
Drake R8A and Quantum QX Pro V2.0 Loop antenna.

[POB-IN] Pat O'Brien, Pekin, IN obie47165@yahoo.com
Eton S350DL, Grundig Indoor Loop.

DOWN THE DIAL

560 KWTO MO, Springfield. 4-6 fair over WIND, minor ACI from KTRS-550. 20:35 with Kansas City Royals baseball PBP. [EB-MO]
580 KJMJ LA, Alexandria. 4-6 fair over WIBW. 20:38 with "You're listening to Radio Maria" slogan into Catholic talk program. [EB-MO]
WILL IL, Urbana. 4-6 fair with ACI from KFNS-590. 16:17 with folk music, announcer with details about the music being played. [EB-MO]
630 KVMA AR, Magnolia. 3-27 fair through KJSL. 03:49 with Classic Country format, "KVMA AM 6-30 and 107-point-1 FM" ID. [EB-MO]
640 WCRV TN, Collierville. 4-2 with KWPN nulled. 08:36 with religious program. Now 50kW daytime power. [GH-OK]
790 WKRD KY, Louisville. 3-25 fair to poor over several others. 22:58 with sports talk, "Fox Sports Radio" mention, morning show promo, "Sports radio 7-90 WKRD Louisville" legal ID. [EB-MO]
WQSV TN, Ashland City. 3-25 fair to poor mixing with WKRD. 23:00 with Adult Standards format, local spot, "WSQV Radio" ID. Back on the air, previous DXM mentioned this was silent. [EB-MO]
880 KLRG AR, Sheridan. 4-5 good over WMEQ in WIJR null. 20:20 with Urban Gospel music, "WGLB AM 15-60" mentioned. Milwaukee area spots, jingle ID. Apparently this station switched from a relay of WTAN 13-40 Clearwater, FL. WGLB is licensed to Elm Grove, WI. [EB-MO]
940 WCPC MS, Houston. 4-6 fair to poor mixing with WMIX. 20:45 with IRN-USA sports, network spots, talk on cooking, legal ID into IRN-USA news at 21:00. [EB-MO]
WMAC GA, Macon. 3-25 good to poor over WMIX, KPSZ. 23:58 with local spots, "News, talk, 9-40 WMAC Macon" legal ID into ABC News. [EB-MO]
950 KRWZ CO, Denver. 4-3 good over WWJ, WORD. 02:25 Oldies, "Cruisin' 9-50" ID. [EB-MO]
KWOS MO, Jefferson City. 3-29 good to fair over WWJ. 19:59 with promos, "News radio 9-50 KWOS" IDs, and a legal ID into Fox News Radio. [EB-MO]
960 WERC AL, Birmingham. 3-29 fair over KZIM. 17:58 with "News radio 105-5 WERC" slogan, local spots. [EB-MO]
1040 WLCR KY, Mount Washington. 4-5 fair to poor in WHO null. 20:01 noted with the Holy Rosary broadcast. [EB-MO]
1050 K SIS MO, Sedalia. 3-31 fair to poor, mixing with others in W D Z null. 19:46 with local spots, weather, calls. Also noted later 4-6 poor in W D Z null at 16:03 with Saint Louis Cardinals baseball PBP. [EB-MO]
1060 KBFL MO, Springfield. 4-5 fair to poor over WMCL. 08:56 with Adult Standards format. "99-point-9 KBFL FM Buffalo, AM 10-60 KBFL Springfield" legal ID into local news. This completes my AM logbook for Springfield. [EB-MO]
1080 WFTD GA, Marietta. 4-5 fair in WRYT null. 20:03 with Adult Contemporary format. "La Ley 10-80" slogan in Spanish. [EB-MO]
1090 WCRA IL, Effingham. 4-6 fair with ACI from WRYT-1080, KMOX-1120 in analog mode. 16:10 with Saint Louis Cardinals baseball PBP. [EB-MO]
1100 WISS WI, New Berlin. 4-14 in WTAM null. 23:59 to 4-15 00:06 (7 minutes) as per tip on the internet, caught them on with day power well past sunset. ID on the hour, news and weather, then disappeared. New for me on 1100kHz. Previously heard them years ago on 1090. [TMJ-IL]
1110 KGFL AR, Clinton. 4-7 good to fair over WBT, KFAB. 19:50 with Oldies, calls. [EB-MO]
1130 WBBR NY, New York. 4-1 good to fair over KWKH, KMOX-1120 in analog mode. 22:25 with business talk, "Bloomberg Radio" mentioned, local spots. [EB-MO]
WISN WI, Milwaukee. 4-6 good over KWKH, KMOX-1120 in analog mode. 20:19 with "News talk 11-30 WISN" ID, local spots into talk format. [EB-MO]
1190 WOWO IN, Fort Wayne. 3-31 good to fair in KQQZ null. 19:04 with Fox News Radio, weather, "News talk 11-90 Wo-Wo, now on 92-point-3 FM" and promo for Limbaugh. [EB-MO]
1230 WHOP KY, Hopkinsville. 4-4 fair to poor mixing with others. 20:59 with Nashville Predators hockey PBP, legal ID. [EB-MO]
1290 WIRL IL, Peoria. 3-29 fair to poor mixing with WKLL. 19:42 with Oldies, ID mentioned 107.5 FM. [EB-MO]
1320 WGOC TN, Kingsport. 4-1 fair. 20:24 with spots, recorded "WGOC" ID. [POB-IN]
1340 KSMO MO, Salem. 3-31 good to poor, mixing with KXEO, WSOY. 18:56 with Country format. "KSMO Salem" legal ID at 18:58. [EB-MO]
1350 WKCU MS, Corinth. 4-1 good to fair, drowning out KRNT. 02:27 with local spots, "96-3, the Ticket, Northern Mississippi's ESPN" slogan into Sports Center. [EB-MO]
1360 WSAI OH, Cincinnati. 3-27 good over WMOB. 03:44 with "Fox Sports 13-60" slogan, local spots. [EB-MO]
1370 KGNO KS, Dodge City. 4-6 fair to poor over KWRT. 09:11 with Community Calendar feature, mention of an event in Scott City. [EB-MO]
1390 WRIG WI, Schofield. 4-6 fair over KCLN, ACI from KXFN-1380. 20:31 with Milwaukee Bucks basketball PBP. [EB-MO]
1410 WIHM IL, Taylorville. 3-31 fair mixing with WING, WIQR. 21:20 with the Holy Rosary broadcast. [EB-MO]

1420 WHK OH, Cleveland. 3-27 fair over WOC, WIMS, KBTN. 04:30 with "News talk 14-20 WHK" ID, Mike Gallagher promo, talk format. [EB-MO]
1430 KZQZ MO, Saint Louis. 4-4. 08:40 with "All new KZQZ, 50,000 Watts" into '60s oldie. The 50 kW refers to daytime power, formerly 5 kW. CP must be on now. [GH-OK]
1480 KQAM KS, Wichita. 4-5 fair to poor mixing with WJBM, WCHZ, WLMV. 03:02 with "The Big Talker, 14-80 KQAM" ID, local spot, weather. [EB-MO]
WCHZ GA, Augusta. 3-24 fair signal over WJBM and others. 21:17 with rock format. "95 Rock" slogan. [EB-MO]
WLMV WI, Madison. 3-29 good over a nulled WJBM. 20:05 with "La Movida" slogan in promo into Ranchera music in Spanish. [EB-MO]
1530 KCMN CO, Colorado Springs. 4-5 good to fair in WCKY null. 02:51 "Good times, great oldies, up and down the Range. This is the I-25 Radio Network." [EB-MO]
1550 KLFJ MO, Springfield. 3-31 fair to poor mixing with KAPE. 18:43 with spots for Branson area. "Branson Information Radio" slogan. [EB-MO]
1660 KUDL KS, Kansas City. 3-31 good with WLQR completely nulled. 19:57 with talk format, "Bloomberg Radio" mention, local spots. "This is the KMBZ Business Channel, AM 16-60 KUDL Kansas City" legal ID. [EB-MO]

25 YEARS AGO

April 23, 1988 issue of IRCA's "DX Monitor" ... **Frank Aden** of Boise, ID called KKIC about their call letter change ... **Gary Siegel** of Toledo, OH commented about the difference in how the clubs are run and why IRCA was the best radio club ... **Bill Dulmage** of Colborne, ON rejoined IRCA after being away for 10 years ... **Floyd Perry** of Stockton, CA mentioned KXOA 1470 dropped their Big Band format and went to satellite fed Adult Standards.

OPEN MIKE

We lost an IRCA founder recently. I had known **Bill Nittler** since the 1963 NRC Denver Convention where the IRCA was first put together. It was always great to see Bill and talk with him at conventions over the past 50 years. He will be missed. There is an obituary on the IRCA Facebook page. This column was typed 4-6 & 4-20-13. 73, John

EASTERN DX ROUNDUP

RETIRING EDITOR: Lee J. Freshwater
Eric Bueneman (NØUIH), 631 Coachway Lane, Hazelwood, MO 63042-1347
E-mail: n0uiheric@aol.com **DEADLINES: Thursday 2000 ELT**

(Deadlines for May are May 2 and 16 at 2000 ELT.)

STARS OF THE WEEK

(JJR-MI) John Rieger L'Anse, MI
Grundig Satellit 750, Grundig G6 Avaitor
(KK-VA) Kraig Krist L'Anse, MI
Manassas, VA Winradio G33DDC SDR rx with 12 foot vertical antenna
(RW-MD) Robert Wien Bowie, MD, C-Crane radio, Select-A-Tenna

LOGGINGS

550 ND KFYR Bismarck 3/31 0711 Good! Calls, short wx: 29, partly cloudy, jock:Crystal Rivers, "KFYR 550, the Voice of the Northern Plains." Alone, strong! (JJR-MI)
580 ON CKWW Windsor 3/22 2349 Poor AM 580 non-ids. @:55, "AM 580, Motor City Favorites" in null of others. (JJR-MI)
790 PA WAEB Allentown 2/22 0255-0405 Mixing with WAXY, WNIS, ESPN, preaching / screaming and R. Relej. 0358 "News talk WAEB. An I heart radio station." "Breaking news on AM 7-90 and WAEB dot com.". (KK-VA)
820 NY WNYC New York City 2/22 0255-0405 Mixing with other talk and Spanish. "BBC World Service". 0330 "The BBC World Service is here on WNYC AM and FM New York." (KK-VA)
830 TN WUMY Memphis 3/22 2246 Good in WCCO null. "Y105.5, your country favorites" LID @ :02 +W288BJ. EX:KOTC Kennett,MO NEW! (JJR-MI)
850 CO KOA Denver 2/22 0255-0405 Mixing with WFTL, WKNR, preaching and R. Relej. 0300 "News radio 8-50 KOA Denver. Colorado's only 24 hour news, traffic and weather station." into Fox News. (KK-VA)
910 CO KPOF Denver 3/30 0730 Fair- steady w/LID, Focus on the Family. Not hrd in ages. (JJR-MI)
930 IL WTAD Quincy 3/30 0648 Poor "Talkradio 930 WTAD" into Wall St Journal...Alone on freq (JJR-MI)
930 NY WBEN Buffalo 2/22 0255-0405 Mixing with WRVC, WFMD, Yahoo sports, music and R. Relej. "Coast to Coast AM" mixing, but not in sync with WRVC. 0300 "WBEN News time 3 oh 4". (KK-VA)
OH WEOL Elyria 3/29 2055 Poor "medical minute every afternoon at 1:05 on 930 WEOL. See more at **WEOL.com**. Only thing on freq. 1000w. (JJR-MI)

SD KSDN Aberdeen 3/30 0706 Poor -steady w/wx for Fri night(!), Sat, Sun,Mon,Tu,Wed & Thur.promo:Thom Hartmann NewsTalk 930 KSDN (David Lee v/o) (JJR-MI)

WV WRVC Huntington 2/22 0255-0405 Mixing with WBEN, WFMD, Yahoo sports, music and R. Relej. "Coast to Coast AM" mixing, but not in sync with WBEN. 0259 "It's 3 o'clock. 9-30 WRVC... Huntington... celebrating 40 years... broadcasting." (KK-VA)

940 NE KVSH Valentine 3/30 0706 Poor tho steady, alone. "33 in downtown Valentine...on KVSH" (JJR-MI)

950 WV WBES Charleston 2/22 0255-0405 Mixing with singing, talk and R. Relej. 0316 "... afternoons at 3 on 95 'The Sporting Fox'". (KK-VA)

1080 MY WYHY Cannonsburg 2/22 0255-0405 Mixing with WTIC, Spanish singing and other talk. WYHY with Gospel singing. 0300 "Solid Gospel 1-80 WYHY Cannonsburg... Ashland... Solid Gospel 10-80 WYHY.". (KK-VA)

1230 MI WSOO Sault Ste Marie 3/29 2032 Poor- 1230 WSOO out of song. 1230wsoo.com, Fernelius Hyundi ad, live copy to fade. (JJR-MI)

MN KGHS International Falls 2/23 0004 Poor "weathereye ...on KGHS your Good Time Oldies staion" fahrenheit/celcius temps. (JJR-MI)

1290 NH WKBK Keene 3/30 2355-0305 Mixing with WHIO, CJBK, WFBG, Fox sports and Spanish singing. 0100 "News, weather and traffic 12-90 WKBK (KK-VA)

ON CJBK London 3/30 2355-0305 Mixing with WHIO, WFBG, WKBK, Fox sports and Spanish singing. "Coast to Coast AM" echo effect with WFBG. 0000 "This is new stalk 12-90 CJBK (KK-VA)

PA WFBG Altoona 3/30 2355-0305 Mixing with WHIO, CJBK, WKBK, Fox sports and Spanish singing. "Coast to Coast AM" echo effect with CJBK. 0030 "... on the big 12-90 WFBG". (KK-VA)

1310 NY WRSB Canandaigua 3/30 2355-0305 Mixing with Fox sports, music and ESPN. 0000 "You're listening to the Sonshine Radio Network. 15-90 AM WASB Brockport... and 13-10 AM WRSB Canandaigua... the Sonshine Network (KK-VA)

1330 PA WFNN Erie 3/30 2355-0305 Mixing with WSPQ and WYRD. 0015 "... join the VIP Club... Fox Sports Radio 1330 dot com... WFNN... you want sports, local and national. We've got it. Check it out today. Sports radio 1330 dot com. (KK-VA)

1340 MN KVBR Brainerd 2/23 0006 Poor "on Brainerd's ??? Radio, 1340 KVBR" weather in mess. (JJR-MI)

MI WMBN Petoskey 3/29 2043 Poor - break in bkbl game (MI/KS) "...in Cadillac, 800-800-??34, ..motorcycle swap meet. 93.7." fade. 93.7 is //1340 WMBN. (JJR-MI)

NC WLSG Wilmington 3/30 2355-0305 Mixing with C&W songs, ESPN, talk and oldies. WLSG with Gospel singing. 0303 "You're listening to WLSG Wilmington North Carolina (KK-VA)

1360 MI WKMI Kalamazoo 3/30 2355-0305 Mixing with WMNY, ESPN, Fox sports, oldies and Gospel singing. 0006 "Talk radio 13-60 WKMI". (KK-VA)

PA WMNY McKeesport 3/30 2355-0305 Mixing with WKMI, ESPN, Fox sports, oldies and Gospel singing. 0000 "13-60 AM WMNY Pittsburgh... and no the web at WMNY radio dot..." (KK-VA)

1370 MN KSUM Fairmont 3/31 0726 Poor upon tune-in, "1370 KSUM" into "Walking in Memphis" OLD C&W o/anything! (JJR-MI)

1380 MI WPHM Port Huron 3/23 0000 Poor LID sung in Det Red Wings break. (JJR-MI)

1400 PA WHGB Harrisburg 3/30 2355-0305 Mixing with Gospel singing, oldies, ESPN, other talk and more talk. WHGB with CBS Sports radio programming. 0000 "This is CBS Sports radio 95 3 and 14 hundred WHGB (KK-VA)

1450 MI WNBX Newberry 3/30 2225 Poor -"Newberry ...Joy Hospital" 2x, "...Casino in Michigan, exit 386..." Sweeper "Randy Travis...WNBX" in/out entire duration. Not common at all despite closeness! (JJR-MI)

1560 MN KSUM Fairmont 3/31 0726 Poor - fades. Easter message, "...in Blue Earth, ... in Blue Earth" and back to Bible readings. Alone, not common. (JJR-MI)

DX TESTS

1230 TX KSEY Seymour 3/24 0130-0200 EDT Tried for half-heartedly, not heard, freq. a real mess but no tones or anything, test did make it to IL. And WI. though! Had a news-talk and an oldies station fade up loop NE/SW... (RW-MD)

1400 PA WKBI Saint Marys 3/31 0000 Not heard. I have one short 2sec sweep up to down,flat tone at :00 and 45 seconds. I am dismissing this as an automation/satellite glitch or as we all have hrd, someone tuning a nearby radio, tho I am certain that was not happening. Not heard, but thanx much! (JJR-MI)

UN-IDEN

From Eric Bueneman: John Rieger's Spanish station on 930 is WKY Oklahoma City, OK. They run a Regional Mexican format; the only English ID is at the top of the hour.

 Friends : Effective with the next issue, I will be turning over the reins of EDXR to Eric Bueneman. It seems like just yesterday that Mark McMillan turned EDXR over to me. But that was 1995. It is hard to imagine that I have been doing EDXR for 18 years. How time can fly. I have enjoyed doing the column for all these years, but as I get older I plan to take some things off of my "plate." With a 50 hour work week and retirement still a long way off, I just don't have the time to devote that I used to have. I want to thank each and every contributor over the years for their work in helping people in the east know what was being heard. Look for Eric's info elsewhere in this issue, and please support the EDXR. I look forward to sitting back and reading

Eric's column. I know he will do a great job!!! As I always say, "All The Best." fresh.... APRIL 20, 2013 0730



DX WORLDWIDE – WEST / TROPICAL BAND DX
Patrick Martin – PO Box 843 – Seaside OR 97138
E-mail: mwdxer@webtv.net all times UTC

Deadline, Sunday 5/5 noon PLT.

TRANS PACIFIC DX ROUNDUP

- 153 **RUSSIA**, Komosomolsk, R Rossii. 1320 3/25 good signal with Stevie Wonder song "I Just Want to Say I Love You" HPAW. (DV-WA)
 + 1305-1308 4/10 good signal with man in RR W-SW ewe. HPAW. (DV-WA)
 + 1305 4/11 fair signal with man in RR NW ewe. (DV-WA)
 + Poor w/Doors "Light My Fire" //189 1246 4/12. (NHP-BC)
- 180 **RUSSIA**, Yelizovo, R Rossii. 1251 4/12 fair signal with man in RR. HPAW. (DV-WA)
- 189 **RUSSIA**, Petropavlovsk, R Rossii 1323 3/25 good signal with end of Stevie Wonder song followed by woman in RR. HPAW. (DV-WA)
 + 1309 4/10 good w/woman in RR followed by R Rossii ID at 1310. W-SW ewe. (DV-WA)
 + 1307 4/11 weak signal with man in RR. W-SW ewe. (DV-WA)
 + 1235 4/12 fair signal with music. HPAW. (DV-WA)
 + Fair w/man in RR 1251 4/12; 6 pips on hour, last one elongated. (NHP-BC)
- 234 **RUSSIA**, Arman, R Rossii. 1242 4/12 weak to fair with RR talk and music. NW ewe. (DV-WA)
 + Poor strength w/Doors mx //189 1246 4/12. (NHP-BC)
- 279 **RUSSIA**, Yuzhno-Sakhalinsk, R Rossii. 1324 3/25 good signal with Pop song by woman. HPAW. (DV-WA)
 + 1359 3/26 weak signal with man in RR. (DV-WA)
 + Very poor 1302 3/30. (SR-OR)
 + 1249 4/12 fair signal with the Doors "Light My Fire" NW ewe. (DV-WA)
 + Fair w/woman in RR 1303 4/12. (NHP-BC)
- 531 **JAPAN**, JOQG, Morioka. NHK pips 1400 3/25 then weak nx //594. (bp-WA)
 + Woman talking 1313 4/10, brief fade up //594, but mostly in the murk. (NHP-BC)
- 558 **REP KOREA**, HLQH, Daegu. Fair KK pop music/speech around 1317 3/25. (GDB-WA)
 + Poor strength, slow vocal mx //603 1249 4/18. (NHP-BC)
- 567 **JAPAN**, JOIK, Sapporo, NHK1. poor //594 1341 3/26. (bp-WA)
 + 1342 3/26 weak signal with man in JJ. Moderate splatter. NW ewe. (DV-WA)
 + 1311 3/30 very weak with woman in JJ. Moderate splatter. NW ewe. (DV-WA)
- 567 **NEW ZEALAND**, Wellington, R NZ National. 1338 3/30. Poor strength, faded up over JOIK with //756. (NHP-BC)
- 576 **AUSTRALIA**, 2RN, Sydney. Poor strength w/man talking //846 1340 4/3 (and generally poorer than 846, surprisingly given their relative powers). Also heard 1313 4/5 //846. (NHP-BC)
- 585 **AUSTRALIA**, 7RN, Hobart. Poor strength, but the big one of the morning; man talking, definite DU EE inflection and //612 1304 4/17; believe I heard an "ABC news" at 1305. Don't know what else it could be. (NHP-BC)
- 585 **JAPAN**, JOPG, Kushiro. A bit of a surprise 1307 4/10, woman and man talking //567 and 594, about equal strength to them; the first JJ to show this morning. (NHP-BC)
- 594 **AUSTRALIA**, 3WV, Horsham. Poor w/man talking //702 and delayed by about a second at 1343 4/3. Heard for several more minutes after this. (NHP-BC)
- 594 **JAPAN**, JOAK, Tokyo, NHK1. I heard JOAK with a poor signal from 1213 3/25 until fade out at 1225 (local sunset.) (RA-OK)
 + Fair-good JJ male conversation at 1323 3/25 <http://www.mediafire.com/?2t6333n8x209egf>. (GDB-WA)
 + 1328 3/25 good signal with man in JJ. NW ewe. (DV-WA)
 + Pips 1400 3/25, NHK mention, then nx in JJ. (bp-WA)
 + 1343 3/26 weak signal and //567. NW ewe. (DV-WA)
 + Very poor Asian talk 1324 3/29. (SR-OR)
 + 1315 3/30 fair signal with man in JJ NW ewe. (DV-WA)
 + Asian talk, poor/weak 1328 3/30. (SR-OR)
 + 1317 4/5 good signal with man/woman in JJ. NW ewe. (DV-WA)
 + 1313 4/10 fair signal with man in JJ. W-SW ewe. (DV-WA)
- 603 **REP KOREA**, HLSA, Namyang. Poor KK talk 1345 3/26. (bp-WA)
 + Same slow vocal mx as on 558, poor strength. 1250 4/18. (NHP-BC)
- 639 **CHINA**, CNR1, CC talk fair-poor 1331, oddly enough I had weak NHK type pips at 1400 rather than the expected CNR pips. (bp-WA)
- 648 **UnID**. Fair carrier, very weak CC talk 1344 3/25 probably Russia. (bp-WA)

- 657 **DPK KOREA**, Pyongyang, 1345 3/26 poor signal with bits of audio coming through. Heavy splatter. NW ewe. (DV-WA)
+ Tirade barely recognizable in the splatter 1352 3/26. (bp-WA)
- 675 **VIETNAM**. Talk 1335 3/25 poor. (bp-WA)
- 693 **JAPAN**, JOAB, Tokyo, NHK2. Very poor at 1322 3/25. (BB-AZ)
+ CC lessons 1357 3/25, pips 1400, then JJ talk. (bp-WA)
+ 1358 3/26 Fair signal with man in JJ. Moderate splatter. NW ewe. (DV-WA)
+ 1401 3/30 fair signal with man in JJ. Moderate splatter. Sky wire loop. (DV-WA)
+ 1325 4/5 weak signal with man in JJ. Moderate splatter. NW ewe. (DV-WA)
+ 1331 3/29. Rare visitor here due to CBU-690 splat, but man and woman talking, poor readability //774. Also noted Mar 30 at 1335 w/man in JJ, poor //747. (NHP-BC)
- 702 **AUSTRALIA**, 2BL, Sydney. 1341 3/31 weak to fair signal at times with folk music. Matched live stream. W-SW ewe. (DV-WA)
+ Poor strength w/two men talking //612 1326 4/2. Also heard on 4/5, w/forced hilarity, and a couple of EE words that made me think NHK2 EE lessons, but not //. Listened to recording and "ABC" mention 1300, with six pips and nx fanfare, poor to fair. (NHP-BC)
- 738 **TAHITI**, Papeete, R Polynesie. Fair FF male speech at 1333 3/29; first appearance in 2013 here <http://www.mediafire.com/?ddx7bdsab5c567f>. (GDB-WA)
+ 1317 3/30 weak signal with music. SW ewe. (DV-WA)
+ 1316 4/11 weak signal with music. NW ewe. (DV-WA)
- 738 **TAIWAN**, Penghu, BEL2. Poor-fair CC male speech and music around 1320 3/25. (GDB-WA)
- 738 **Unid**, CC talk fair-poor 1342, probably Taiwan 3/26. (bp-WA)
- 756 **NEW ZEALAND**, Auckland, RNZ National. 1338 3/30. Poor strength, orchestral mx //567. (NHP-BC)
- 774 **AUSTRALIA**, 3LO, Melbourne. 1315 3/31 believed to be the station underneath JOUB on the W-SW ewe. Man in EE. (DV-WA)
+ 1309 4/16, poor strength w/man talking //828, DU EE inflection. (NHP-BC)
- 774 **JAPAN**, JOUB, Akita, NHK2. I was surprised to hear 774-JOUB at poor signal strength from 1203 3/25 on my barefoot PL-310 receiver. Combining it with the 7-inch FSL at 1210 brought the signal up to fair strength. (RA-OK)
+ Wx 1315 3/25, CC lessons //828 1352, good but merciless KTTH-770 splash. (bp-WA)
+ Poor at 1324 3/25 with talk. (BB-AZ)
+ 1330 3/25 fair to good signal with woman in JJ. Best on the HPAW antenna. (DV-WA)
+ Good, CC lessons 1345 3/26. (bp-WA)
+ Fair-good CC language lessons through 750-Portland splatter at 1335 3/27 <http://www.mediafire.com/?nf6r980z7040pk8>. (GDB-WA)
+ 1356 3/28 poor signal with man in JJ. NW ewe. (DV-WA)
+ Very poor/poor Asian talk 1325 3/29. (SR-OR)
+ 1318 3/30 good signal with man in JJ. Very slight splatter. NW ewe. (DV-WA)
+ 1343 4/1 fair signal with man in JJ. W-SW ewe. (DV-WA)
+ 1320 4/5. Man delivered a nice "JOUB NHK... dai-ni hoso" ID at good level. (NHP-BC)
+ 1327 4/5 good signal Conversation EE R program. NW ewe. (DV-WA)
+ 1254 4/12 very weak with JJ at times, battling 770 KTTH splatter. NW ewe. (DV-WA)
- 819 **DPK KOREA**, Pyongyang, KCBS. Choir singing 1332 3/25. (bp-WA)
+ 1342 3/25. Orchestral mx //2850, poor level. (NHP-BC)
- 828 **AUSTRALIA**, 3GI, Sale. It's not unusual to find 774 //828, except this was man w/DU EE inflection, and heard these replacing the wx broadcast on NHK2, first on 828 then on 774 at 1309 4/16; poor strength at best. (NHP-BC)
- 828 **JAPAN**, JOBB, Osaka, NHK2. 1332 3/25 good signal with slight splatter with woman in JJ. W-SW ewe. (DV-WA)
+ CC lessons 1350 3/25, pips 1400. (bp-WA)
+ 1349 3/26 weak signal with moderate splatter and //JOUB. NW ewe. (DV-WA)
+ 1319 3/30 //774 with weak signal with moderate splatter. Man in JJ. NW ewe. (DV-WA)
+ 1345 3/31 weak signal with slight splatter with woman in EE. Good signal at 1344 with woman in EE. NW ewe. (DV-WA)
+ 1336 4/1 fair signal with man in JJ. W-SW ewe. (DV-WA)
- 837 **JAPAN**, JOQK, Niigata. Poor strength, man/woman talking //594 1301 4/15. (NHP-BC)
- 846 **AUSTRALIA**, 2RN, Canberra. Poor strength w/man talking 1340 4/3 //576. Also heard 1313 4/5 //576. (NHP-BC)
- 846 **JAPAN**, NHK1 synchros. Poor w/JJ talk by woman //594 at 1245 4/18. (NHP-BC)
- 864 **Unid**. Man talking, JJ inflection 1253 to 1254 4/18, not //1287. NHK style pips at 1300, very faint but there. (NHP-BC)
- 873 **JAPAN**, JOGB, Kumamoto, NHK2. 1319 4/1. Poor strength w/weather observations //828. (NHP-BC)
+ 1331 4/5 poor signal with JJ NW ewe. (DV-WA)
- 890 **ALASKA**, KBBI, Homer. Good w/"Democracy Now" pgm o/CJDC until 1359 3/26, then legal ID and marine wx. (bp-WA)
- 891 **AUSTRALIA**, 4TAB. With horseracing, poor/weak with music underneath (5AN) 1331 3/30; later 5AN was dominant with C&W/folk music program 1339. (SR-OR)
- 891 **AUSTRALIA**, 5AN. Chorale music 1328 3/29 then female annrc at 1330 with "ABC News", into news. Poor at times. Lasting to 1405 3/29 before fading away. (SR-OR)
+ 1338-1341 3/30 weak signal with song "Sunday Morning Coming Down" by Kris Kristofferson. Match live stream Sky wire loop. (DV-WA)
+ 1323 3/31 fair signal that matched on live stream. "Sunday Nights with Bob Cleary" program. 4TAB underneath? Sky wire loop. (DV-WA)
+ Fair to poor w/woman w/weather reports for Australian cities, followed by local forecast for Adelaide 1335 4/2. Nice and warm down there. This was reasonably consistent at lower strength from 1230 onwards. (NHP-BC)
- 891 **JAPAN**, JOHK, Sendai. Fair to poor signal w/man in JJ //594 1323 4/5 and 1344 also... pretty much last man standing by 1344. Also noted 1251 4/18, fair strength w/woman singing oriental vocals //594 and better strength at this time. (NHP-BC)
- 891 **THAILAND**. Male monologue in Thai amazingly good 1343 3/25, then gradually weakened. Interesting horn/gong mx 1359. (bp-WA)
- 909 **NEW ZEALAND**, Napier, Southern Star. 1340 3/30. Poor strength w/slow female vocal mx corresponded with webstream, and turned out about 35 seconds ahead of the stream. (NHP-BC)
- 936 **CHINA**, CC talk poor 1348 3/26. (bp-WA)
- 945 **CHINA**, Jiaohu, CNR1. Woman and man in CC 1241 4/18, fair to poor strength, quite unexpected in mid-April. (NHP-BC)
- 954 **JAPAN**, JOKR, Tokyo. Fair strength w/man in JJ 1243 4/18. (NHP-BC)
- 954 **Unid**. Also, a trace of a signal 3/25. (RA-OK)
- 963 **NEW ZEALAND**, Christchurch, Southern Star. Male vocal 35 seconds ahead of webstream at 1357 3/30, poor strength. 909 came up for a reprise about a minute later, though wasn't able to get them in //. (NHP-BC)
- 972 **REP KOREA**, HLCA, Dangjin, KBS. Good KK pop music (and male-female speech) around 1328 3/25 <http://www.mediafire.com/?pbzxbhoh551s85s>. (GDB-WA)
+ Fair-Good male KK 1328 3/25, weaker w/mx, fem talk, pips 1400. (bp-WA)
+ 1336 3/25 good signal with folk type song in KK. NW ewe. (DV-WA)
+ KK pop music (and male-female speech) at very good level around 1325 3/26 <http://www.mediafire.com/?bd2b2rjuxdqmlpf>. (GDB-WA)
+ 1356 3/26 good signal with music and moderate KUFO splatter. NW ewe. (DV-WA)
+ Good KK OM pop mx at 1319 4/1 <http://www.mediafire.com/?khvr3s2xgk8wuki>. (GDB-WA)
+ Very good KK female speech at 1318 4/4 during music-speech variety program <http://www.mediafire.com/?y7ayp4zltrQqrh>. (GDB-WA)
- 981 **CHINA**, CNR1. Fair CC talk 1341 3/25, fair-poor CC talk 1328 3/26. (bp-WA)
- 1044 **CHINA**, Changzhou, CRI. 1355 3/26 weak signal with woman in JJ. NW ewe. (DV-WA)
- 1053 **REP KOREA**, jammer. Good buzz in and out throughout entire session (1310-1355 3/25). (GDB-WA)
+ Whooshing away at fair strength 3/24, and at a number of other times in the next few weeks. (NHP-BC)
+ 1332 3/28 with fair signal. Best signal in a while here. NW ewe. (DV-WA)
+ 1343 3/30 with weak signal. Sky wire loop. (DV-WA)
+ 1331 3/31 with fair signal and slight splatter. NW ewe. (DV-WA)
+ Good throbbing buzz at 1312 4/4 <http://www.mediafire.com/?cxdad99hh11kx7a>. (GDB-WA)
+ 1257 4/12 jammer with weak signal and moderate splatter. NW ewe. (DV-WA)
- 1116 **AUSTRALIA**, 4BC, Brisbane. Poor to fair w/man in DU EE, mention of 27 degrees, 1306 4/15, also noted at lower level 1251 and 1253, but only when local noise level let up. (NHP-BC)
- 1116 **Unid**. Male talk 1358, 2 carriers. (bp-WA)
- 1134 **JAPAN**, JOQR, HBC. 1334 4/5 assuming the station with weak signal. Fast talking man in JJ? HPAW. (DV-WA)
- 1134 **REP KOREA**, Hwaseong, KBS. Fair KK female speech and mx around 1317 3/25. (GDB-WA)
- 1188 **JAPAN**, JOKP, Kitami. Poor strength w/woman in JJ //594 at 1335 4/5; nice surprise. Also heard 1309 4/8. (NHP-BC)
- 1206 **CHINA**, Yanji, Yanbian RGD. Man talking fair to poor strength, but murky and off frequency, presumed this, though rather late in the season for it. (NHP-BC)
- 1215 **PHILIPPINES**, DYRF. 1340-1348 3/25 believed to be station with music and man talking. He said Filipino while talking. Woman talk followed man. Fair signal at times. NW ewe. (DV-WA)
- 1215 **Unid**. Poor talk, inflections sounded CC 1337-1444 3/25. (bp-WA)
+ Male talking, poor to fair level, definitely not CC or JJ, pretty sure it was Tagalog, 1347 3/25; might have heard traces of this the previous morning also. Actually had a woman talking across the hour, fading rapidly, and mashed by 1210 splatter, so no hope of an ID. (NHP-BC)
- 1242 **JAPAN**, JOLF, NBS. 1334 3/28 steady fair signal with man in JJ. Moderate splatter. First time heard since 10/03/2012. NW ewe. (DV-WA)
+ 1337 4/5 poor weak signal briefly with woman talking. NW ewe. (DV-WA)
- 1269 **JAPAN**, JOFM/JOHW, Esashi/Obihiro. Poor strength, w/woman talking //1287 at 1310 4/8. (NHP-BC)
- 1287 **JAPAN**, JOHR, Sapporo, HBC. 1338 3/28 weak with man in JJ. Slight splatter. NW ewe. (DV-WA)
+ 1339 4/5 fair signal with man in JJ. NW ewe. (DV-WA)
- 1296 **JAPAN**, JOTK, NHK1. 1342 3/28 assuming the station weak with man & woman in JJ? Moderate splatter. Faded out when NHK1 JOAK heard of // check. (DV-WA)
- 1323 **CHINA**, Huadian, CRI. 1340 3/25 assuming the VOR transmission with weak audio slight splatter. NW ewe. (DV-WA)
+ 1259 4/12 good signal briefly with CC music. Faded out at 1300. Back at 1301 with weak signal. 1304 RR language. NW ewe. (DV-WA)
+ The distinctive stringed music that leads up to the chimes and fanfare on the hour started at 1257 4/18, fading down towards the hour, but still able to hear the CRI chimes weakly then. (NHP-BC)

- 1323 **UnID.** Woman talking across ToH 1400 3/25, possibly CRI in RR but I should have heard CRIs theme mx if that were the case. Tough due to KUOW-1340 IBOC. (bp-WA)
- 1359p **CHINA?** Bits of talk in KKMO splat 1353 3/26, prob CNR but couldn't get //. (bp-WA)
- 1377 **CHINA?** Talk sounded CC 1354 3/26, probably CNR but couldn't get //. (bp-WA)
- 1422 **JAPAN,** JORF, Yokohama, RF R Nippon. 1352 3/26 poor signal with some audio getting through the heavy splatter. NW ewe. (DV-WA)
- 1458 **PHILIPPINES.** 1352 3/25 assuming the station with fair signal with man talking in Filipino? W-SW ewe. (DV-WA)
- 1476 **CHINA?** 1312 4/12 poor signal with Asian language. NW ewe. (DV-WA)
- 1500 **HAWAII,** KHKA, Honolulu. "KHKA Honolulu" ID, 1400 3/25 very poor mixing w/KSJX. (bp-WA)
- 1503 **JAPAN,** JOUK, Akita. NHK pips & poor talk 1400 3/25. (bp-WA)
- + Poor strength w/man in JJ //594 at 1331 4/1. (NHP-BC)
- + 1314 4/12 weak signal with woman in JJ. NW ewe. (DV-WA)
- 1512 **UnID.** Male talk 1410 3/25, too much domestic splash to guess the language. (bp-WA)
- 1566 **REP KOREA,** HLAZ, Cheju, FEBC. Good with talk at 1312 3/25. (BB-AZ)
- + Good CC Christian program in and out around 1352 3/25. (GDB-WA)
- + 1354 3/25 good signal with woman singing in CC. NW ewe. (DV-WA)
- + Very good JJ YL speech during Christian program at 1317 3/26 <http://www.mediafire.com/?hmyobo177hh15yp>. (GDB-WA)
- + 1350 3/26 good signal with woman in CC. NW ewe. (DV-WA)
- + JJ pgm 1315 3/25 fair, CC woman 1354 3/26. (bp-WA)
- + Fair-good JJ OM speech during Christian program at 1324 3/27 <http://www.mediafire.com/?bjgxcdr0dzddnaj>. (GDB-WA)
- + Presumed HLAZ with man talking, very poor 1333 3/29. (SR-OR)
- + 1336 3/31 good signal with men singing hymns. Sky wire loop. (DV-WA)
- + Woman in JJ very good strength 1249 4/1, also there for the next hour (even into the CC broadcast after 1345), heard several mentions of "FEBC" in passing. At 1344, the lady wished me "oyasumi nasai" (good night), then into canned full ID mention of FEBC, frequency, "H-L-A-zeto" etc. HLAZ has been one of the most consistent DX stations through April, usually lasting well after anything else, and past local sunrise as well. (NHP-BC)
- + Excellent JJ YL speech during Christian program at 1308 4/1; best Asian signal <http://www.mediafire.com/?63h21wg6g4diotq>. (GDB-WA)
- + Heard with weak audio at 1308 4/3 with talk. (BB-AZ)
- + Very good JJ male speech at 1302 4/4 during Christian program <http://www.mediafire.com/?bhadx55r77pzb8n>. (GDB-WA)
- + 1341 4/5 good signal with woman in CC. NW ewe. (DV-WA)
- + Very good JJ OM 4/5 speech (during short Christian sermon) <http://www.mediafire.com/?gm3750lile1ay3k>. (GDB-WA)
- + Heard at 1238 4/9 with talk. (BB-AZ)
- + 1407 4/10 weak signal with woman in JJ. Good signal at 1320 with religious singing. W-SW ewe. (DV-WA)
- + 1316 4/12 very good signal with two women in JJ. NW ewe. (DV-WA)
- + Heard at 1253 4/16 with talk. (BB-AZ)
- + Heard with weak audio at 1246 4/17. (BB-AZ)
- + Heard at 1243 4/20 with woman talking just above the noise level. (BB-AZ)
- 1575 **THAILAND,** Ban Rassom, VOA. SE Asian talk 1350 3/25 briefly good. Also briefly good in SEA language 1351-1354 3/26, with traces of another station in the bkgnd. (bp-WA)
- + Fair-good Asiatic language male speech in and out at 1351 3/25 <http://www.mediafire.com/?wobb1ov35b95ad4>. (GDB-WA)
- + 1355 3/25 fair signal with man in Asian language. HPAW. (DV-WA)
- + 1515 3/26 fair signal with woman in Asian language. NW ewe. (DV-WA)
- + 1348 3/28 weak signal with man in Asian language. NW ewe. (DV-WA)
- + 1327 3/30 very weak signal with man in Asian language. NW ewe. (DV-WA)
- + 1341 4/1 weak signal with music. W-SW ewe. (DV-WA)
- + 1515 4/10 assuming the station with poor signal. W-SW ewe. (DV-WA)
- + 1518 4/12 very weak signal with music. NW ewe. (DV-WA)
- 1593 **CHINA.** pips and talk 1400 3/25, another case of good signal and way too much domestic splash. (bp-WA)

PAN AMERICAN DX ROUNDUP

- 600 **MÉXICO,** XEHW, Mazatlán, Sin, La Mejor. 1207 3/27, frenetic music, ID mentioning 102.7 FM y 600 AM, poor signal but in the clear, barely a SAH from anything else. Cantú matches the frequencies as: XEHW + FM 102.7. 5,000 1,000. However, lists three other 600s with no known FM, yet. And IRCA Log conflicts, showing XEHW as in Rosario, 5/1 kW, //90.1 FM, as Ovni R, which means UFO (object flying non-identified). WRTH 2013 splits the difference, as La Kañona in Rosario! So which is it? Back to Cantú where there is still a webpage link working to <http://www.lamejor.com.mx/mazatlan/> which features an amateur cheesecake gallery, but hard to find any frequency mentioned. Listening online at 1535, there's a Sinaloa political discussion. Finally at 1546 after ad- and PSA-string, another ID as "La Mejor, 102.7 y 600," back to "Línea Directa," 8:46 timecheck. Apparently La Mejor is a nationwide brand, but I am hearing local origination. (GH-OK)
- + 1206 4/9, several ads and government PSAs, jingle, all mentioning Sinaloa, 1209 "Línea Directa," call-in program. Momentarily has freq to self at sunrise here. (GH-OK)
- 630 **MÉXICO,** XEFB. 0608 4/5, Mexican NA by brass band, well-played, different version than usually heard, plays a few verses tho lyric-less; 0610 segué to "Monterrey, Tierra Querida" city anthem, "entre montañas y tierra." Heavy SAH with US talker nulled as much as possible. No doubt it's usual XEFB, and then full ID at 0613 as "La F-B, Romántica" having flipped from news/talk a few months ago. (GH-OK)
- 650 **MÉXICO,** XETNT, Los Mochis, Sin. 1207 4/5, presumed dominant Mexican here, XETNT, live ad for some store in the Mercado San Francisco, 5:06 timecheck, which fits for UT-7 until 4/7 advance to UT -6, but then I double-take as he seems to say, "Buenos días, Guerrero" and into a song. Turns out there is a 650 in Chilpancingo, but I'm still sure it's XETNT as there is a Mercado San Francisco in Los Mochis. (GH-OK)
- 660 **MÉXICO,** XEACB, Cd Delicias, Chih, La Lupe. 0548 4/1, Mexican music is dominant, certainly no WFAN!, then singing ID for FM "98.9," which Cantú matches with the station heard several times before: XEACB + FM 98.9. 3,000 1,000. (GH-OK)
- 660 **MÉXICO,** XEFZ. 0553 3/31, choral Mexican NA playing early before someone's CST midnite; 0556 amid other QRMex, ID mentions Monterrey, ie XEFZ, 250 watts at night per IRCA. (GH-OK)
- 690 **UnID.** 0548 3/31, SS report about Pemex, peaks SSW, so most likely XEN in DF with news/talk format. Slow SAH with open carrier, no doubt KGGF KS again. (GH-OK)
- + 0549 4/18, open carrier w/hum, roughly SSW/NNE. Same as I had 2/21 at 0656 when I thought KSKY most likely, but could also be any of several Mexicans. Is it a station not 24 hours but leaving the carrier on: or a 24-hour station failing to modulate? (GH-OK)
- 700 **MÉXICO,** XEDKR, Guadalajara, Jal, R Red AM. 1202 3/28, mentions "red de Radio Red," ie per Cantú: XEDKR 10,000 150. (GH-OK)
- + 0606 4/5 with WLW nulled, weak SS interview mentioning Guadalajara, which fits for XEDKR, but that one word is hardly sufficient to be sure, as it's on the R Red network, 1/1 kW, tho I have IDed it before. (GH-OK)
- + 0605 4/8 I can achieve a deep null on strong WLW by precise positioning of the DX-398, and inhabiting it is a weak signal with classic rock in English: "Diana." 0607 fade during an announcement which I thought included "98" as in an FM frequency, but maybe not. "You Are My Destiny" next, and at 0610, SS timecheck "en R Red" plus another vocal in EE. (GH-OK)
- 710 **MÉXICO,** XHDP, Ciudad Cuauhtémoc, Chih. 1210 4/5, full ID for XEDP and "La Ranchera de Cuauhtémoc," and 1211 switch to hymn and then Low German preacher, for the Mennonites around. A common catch, but it's always neat to hear this strange language coming out of the middle of Mexico. By 1220, it's faded and KCMO/KGNC are regaining 710. Our sunrise was 1211 today, and no TP carriers heard. (GH-OK)
- + 1201 4/11, M&W opening "Noticias 7-10" with efemérides, ie almanac, this day in history, etc; is this XEDP? Yes, soon weather for Ciudad Cuauhtémoc, Chih. It could have been an hour-long morning news block, but maybe not: 6 days ago on Friday it switched to the Low German preacher at 1210, but don't know about today. (GH-OK)
- 720 **MÉXICO,** XEDE, Saltillo, Coah. 0555 3/26, usual slow SAH with WGN, and with that nulled, ID for 105.7, and XEDE Saltillo, 11:54 timecheck, choral NA which lasts only 2 minutes! until 0557 another automated TC as 11:56, ID again. Male SHVA alternates with less hyped female announcer. (GH-OK)
- + 1205 3/27, "La Kaliente 105.7 y 720" by SHVA, then 6:04 TC by live DJ. It's XEDE 8/0.25 kW per Cantú. (GH-OK)
- 730 **UnID.** 1150 4/18, open carrier with hum, suspect a Mexican; XEDP Chihuahua is still in on 710, and so should be XEHB on 730. (GH-OK)
- 750 **MÉXICO,** XETI, Tempoal, Ver, La Huasteca. 0548 3/24, as ordered last night, I am trying again to ID the tropical-music station: not much WSB now, must be semi-auroral conditions. Yes, at 0550, "La Huasteca, cien por ciento huasteca," ie XETI, per IRCA Mexican Log, 10000/250 watts, which I had previously heard last March. (GH-OK)
- + 1201 3/28, XE NA, 1202 unfamiliar state anthem, 1204 full ID for La Huasteca, XHTI y XETI, sub-slogan "la Gigante," ie per Cantú: XETI + FM 90.5 10,000 250. (GH-OK)
- 750 **UnID.** 0550 3/23 with WSB nulled, música tropical segué, no announcements; I must have dozed thru hourtop, missing an ID, as at 0602 Mexican NA is playing, 0603 dead air, 0603.6 replaced by noise for a while: Note to station: turn the main transmitter off "first", then the STL. Note to self: try again. Probably one of the easterners in Oaxaca, Veracruz or SLP. IRCA Log shows XERASA SLP and XETI Veracruz both close at 0600, but XECORO Oaxaca is tropical. All of them allegedly 100 or 250 watts night. (GH-OK)
- 770 **MÉXICO,** XEREV, Los Mochis, Sin. 1228 3/24, "En Sinaloa nació" tribute song, mentions Mazatlán, Culiacán, but later also adjacent states Sonora, Durango, Chihuahua; a daily ritual? 1232 ID for "Chávez Radio K," "Los 40 Principales," XHREV, 5:32 timecheck, ie FM side of XEREV, 5/0.1 kW per IRCA and Cantú, 1/0.1 kW per WRTH. FWIW, today's Los Mochis sunrise was not until 1314. (GH-OK)
- 770 **MÉXICO,** XEACH, Monterrey NL. 0558 4/5, tune in to "Grupo Fórmula" network ID and choral NA, ie XEACH, supposedly 200 watts at night, 5 kW day per IRCA. (GH-OK)
- 780 **MÉXICO,** XEWGR, Monclova, Coah, Exa FM. 1205 3/28, with KSPI Stillwater OK nulled (deeply tnx to groundwave), YL plugging website, can't copy it, but no problem since then she says "Buenos días, Coahuila," temp in Monclova, so it is per Cantú: XEWGR + FM 101.1 10,000 250. (GH-OK)
- 790 **MÉXICO,** XENT, La Paz, BCS. 1158 4/14, Mexican NA, 1200 "desde Baja California Sur," ID for XENT 10 kW, and XHNT 25 kW, "una estación del Grupo Fórmula," audible thru the QRM. (GH-OK)
- 790 **MÉXICO.** 1226 3/24, long string of 8-digit phone numbers repeated, "escuchan Grupo Fórmula," gobierno federal PSA, "Fórmula, 970-AM" ID, ie flagship XERFR México DF whose local IDs are

relayed all over the country. There are two affiliates on 790, XEGAJ Guadalajara, Jal, and XENT La Paz BCS, surely the latter as loops southwest. Today's sunrise in Guadalajara is 1254, and La Paz 1321 per gaisma.com, and 1229 here. Usual conflicting info about powers; IRCA says XEGAJ is 1 kW, Cantú and WRTH say 250 watts. IRCA and WRTH say XENT is 5/0.75 kW, Cantú says 10/0.75 kW. (GH-OK)

800 **MÉXICO**, XEROK, Ciudad Juárez, Chih. 0505 3/25, surprised to hear the Mexican NA on a fixed radio, so hoping for anything but XEROK, quickly grab the DX-398 to get a DF on it, but too late, only hearing XEROK, which would normally be antheing at local midnite MDT = 0600 UT; however, maybe Sunday nights only plays it right after 'La Hora Nacional' which originates live from DF at 0400-0500 until the rest of Mexico goes on DST April 7. See also UNIDENTIFIED 1480. (GH-OK)

+ 1243 4/15 in KQCV OKC null making 40/min SAH = two-thirds Hz, good signal with alabanza music in SS. Has to be XEROK Juárez, tho not the format I expected, perhaps just part of their variety. (GH-OK)

810 **UnID**. 0558 4/5, XE NA going to a state anthem, but I can't recognize which, among the many, many Mexicans crammed onto 810. (GH-OK)

830 **MÉXICO**, XEIK, Piedras Negras, Coah, La Norteña. 1159 3/28, partial singing ID for "Piedras Negras, Coahuila, la cien punto nueve FM." So obviously XEIK, common border station here, altho Cantú does not yet show it on any FM dupe: XEIK 5,000 D. But IRCA does, as XHIK 100.9. (GH-OK)

870 **MÉXICO**, XETAR. 1206 4/11, XETAR with web info in SS, then switch to presumed Tarahumara, satisfying my yen for something exotic if not on XEDP. Only fair signal but dominant at the moment around sunrise (today in Enid: 1203), traces in its null of KFJZ or maybe WWL. (GH-OK)

+t 1152 4/18, open carrier with no hum; surely XETAR in Chihuahua, daytimer which signs on at 1200. (GH-OK)

880t **MÉXICO**, XETC Torreón, Coah. 0505 4/13, choral NA is playing, started late after local midnite? Finally over at 0508, but faded down too much for ID. I was nulling KRVN almost due north, and found the XE was peaking much further S than the E/W null, and has to be in the CDT zone, so that rules out XEV Chihuahua. See current timezone map: <http://www.worldtimezone.com/time-mexico12.php>. Of the other CDT XEs on 880, closest and far most likely, also IDed before, is XETC, "Kiuu," presumed. (GH-OK)

940 **UnID**. 0605 4/5, soprano singing Chihuahua state anthem amid heavy CCI. Or so I thought I had recognized it, but there are no Chihuahuans listed on 940! Maybe it was Coahuila, XEYJ. (GH-OK)

950 **UnID**. 1222 3/24, with adjacent local KGWA 960 nulled, SS vs EE preachers making slow SAH. The EE is presumably KJRG Newton KS, and first guess for the SS is XEFA Chihuahua city, tho I would be more pleased if it were KDCE Española NM. (GH-OK)

990 **MÉXICO**, XET, Monterrey, NL, La T Grande. 0827 3/27 noted with pop music, "La T Grande" ID in SS. Good signal in CBW null. (EB-MO)

+ 1206 3/27, "XET, La T Grande, Monterrey, 50 mil watts, cubriendo todo México," then opening second hour of news, "Enlace 99." "All" of Mexico, that is except where the ten other 990 stations can overcome it! In fact, XET dominates here now at night, not just at dawn and dusk; haven't heard CBW in quite a while, conditions? Had to consult the NRC Pattern Book again to reassure myself that XET at night is supposed to radiate a circle tangent southward only, altho non-directional daytime. Today's Monterrey sunrise would be 1238, while in Enid it's 1224. (GH-OK)

+ 0536 3/28 I am observing the collision between CBW Winnipeg and XET Monterrey (which is not supposed to happen with XET beaming exclusively southward at night). They take turns dominating, and in between there is a huge SAH of about 6 Hz. Initially, XET is so strong it is even splatter-QRMing 1000 KTOK OKC unless side-tuned upward. At 0609, CBW is atop with 'The World' also on public radio in the USA, about fracking causing earthquakes in Oklahoma! Next story about bee die-out loses to XET, announcer saying this is his show number 18,280 since 1963. His speech is rather slurred; must be a bit tired by now or maybe it's just the late hour. Assuming that's 50 years' worth, the number works out just right for 365 shows a year! (GH-OK)

+ 0506 4/17, XET's overnight multi-decade host heard recently has now reached his show no. 18,300. Fast SAH with CBW fighting over the frequency amid America. We are somewhat closer to Monterrey than Winnipeg, but if XET were on legal night pattern southward only, CBW could dominate 990 this far into El Sur, except when aurorally attenuated. Guess what: per NRC AM Log, CBW is not a 50 kW station at night, but cut to only 46 kW, why?? Don't forget that FCC AM Query has full data not only on US stations, but Canadian, Mexican and throughout the Americas, with XET's theoretical night pattern here: http://transition.fcc.gov/ftp/Bureaus/MB/Databases/AM_DA_patterns/309029-60021.pdf showing a southward circle, but a bit of a bump to the NNNW, null apparently aimed at CBW to the NNE. (GH-OK)

1000 **MÉXICO**, XEFV, Ciudad Juárez, Chih. La Rancherita. 0602 4/12, orchestral NA from a station where it's local midnite; 0603 ID for Juárez and 12:03 timecheck, on to music. le XEFV. KTOK OKC [q.v.] had suspended modulation at hourtop, facilitating recapture of the Chihuahuan. (GH-OK)

1030 **MÉXICO**, XELJ, León, Gto, Ke buena. 0603 3/28, "La Ke Buena" slogan, romantic music; seems NE/SW but of the dozen 1030s in Cantú, two are allegedly daytimers and the only Ke Buena is: XELJ + FM 105.7 20,000 2,000. IRCA Mexican log agrees XELJ is the only Ke Buena on 1030, but shows it as 5/1 kW at 1301, and transmitter at Lagos de Moreno, Jalisco. WRTH 2013 also shows it must be XELJ but agrees with Cantú on the power, with IRCA on the site. Could be a US station? No such slogan in NRC AM Log, but there is a SS in Memphis TN, 50/1/10 kW, WGSF, Radio Ambiente [should be Ambiente = means background, great name for a station? Or more positively, environment.] (GH-OK)

1050 **MÉXICO**, XEBCS, La Paz, BS. (10 kW @ 1840 km/1144 mi) 1201 UTC 4/9/13. XEBCS was heard in XEG's null signing on for the day and faded out shortly after twice identifying as "La Radio de Sudcalifornia". Because of the earlier sunrises, it's doubtful XEBCS will be heard here in the morning after this week until late summer. (RA-OK)

1050 **MÉXICO**. 1223 4/2, hardly any signal from XEG, but instead "La Radio de Sud-California" with FM 99.1, orchestral music turning into romantic song. IRCA has no FM // but this info: 1050 XEBCS La Paz, 10000/-1, Radio Cultural Surcaliforniana, Gobierno del Estado, 1300-0500, from Universidad Autónoma de BCS. Cantú agrees on the slogan version I copied, as 10 kW daytime only; link to this website <http://www.bcs.gob.mx/> but I get "no site configured." WRTH thinks it's 10/1 kW, ie fulltime. DST doesn't start in BCS until April 7, but already on an hour earlier than WRTH and IRCA think. Cantú has no FM connection either for XEBCS, but lists a different La Paz station on 99.1: "XHBCP 99.1 FM La Radio Contigo" whose only URL is a facebook page <https://www.facebook.com/99.1fm> but it doesn't work either. Were these stations related, or XEBCS took it over? La Paz seems so exotically remote, but only if you're driving there, which I have never accomplished. (GH-OK)

1120 **UnID**. 0510 4/17, Mexican music causing heavy QRM to KMOX, and can't really null it to be sure it's KEOR cheating again. Makes SAH of 280/minute = 4 and two thirds Hz. 0515 fading out before I can decide if the music is praiseworthy. (GH-OK)

1320 **MÉXICO**, XECPN, Piedras Negras, Coah. 1208 3/31. Live DJ IDs as "La Poderosa, 13-20 AM" and also an FM I could not catch, with almanac items, including death/birth of Selena so 1213 plays her song "Amor Prohibido" (Forbidden Love), soon fades out, from southwest peak. Slogan fits for XECPN, which is powerful only on day rig of 20 kW, night 100 watts per IRCA Log. (GH-OK)

1350 **UnID**. 0534 3/31, "Viva México" song; DF fits for KCOR San Antonio, Tejas, the usual SS dominator, but would they play such a song? Can you imagine any Mexican station playing USA patriotic music?? (GH-OK)

1470 **UnID**. 0458 4/13, choral XE NA, but hard to DF amid the QRM; over at 0500 announcement, probably some station's full ID, but now lost to Fox 'news' from instead. (GH-OK)

1480 **UnID**. 0600 3/25 I am again trying to ID the Mexican in the mix else of KBXD. Very heavy QRM, sounds like "La Voz del Tiempo," maybe mentions Los Mochis, but there is no Sinaloa on 1480. Closest match to that slogan in Cantú is La Voz del Pueblo Hña-Hñú, XECARH, Ixmiquilpan, Hidalgo, 5 kW daytimer, which would certainly be an exotic catch. IRCA shows 2.5 kW day at 1200-2300, unknown at night. WRTH shows 2.5 kW fulltime and location as Cárdonal, Hgo, 1300-2300 in SS, Otomí and Náhuatl. (GH-OK)

1520 **UnID**. 0555 4/13, KOKC OKC can't be nulled completely, but Mexican music station is QRming considerably, making fast rippling SAH; unfortunately dozed thru hourtop, but still going at 0623 before I QRT completely. Any of the six Mexicans listed in Cantú would be welcome, tho two are supposedly daytimers, and none more than 2 kW. How about a US station? For SS on 1520, NRC AM Log has nothing closer than a daytimer in California, and a fulltimer in Oregon, KGDD Oregon City, "La Gran D," 50/15 kW U3, which means same directional day & nite - ie an almost circular cardioid with deep null toward OKC, throwing "all" the power out into the Pacific. So is KGDD out of whack, anyone else hearing it eastward? (GH-OK)

+ 0531 4/14, Mexican music station is tearing up KOKC and making fast SAH. Can't see how it could be faraway KGGD Oregon City even if they have lost direxionality and running 50 kW, so either a Mexican or format change and probable cheating from some closer US station. Hoped for some announcement or ID, but just music as long as I listened until KOKC regained. (GH-OK)

+ 0520 4/17, mysterious Mexican music is also QRming KOKC with fast SAH. (GH-OK)

1570 **MÉXICO**, XERF. 0613 4/7, YL in SS says this station is live 24 hours, her show until 5 am, and then mentions that the rest of Mexico, except certain states, is about to go on DST too. Border towns like Acuña had to shift when the US did a month ago. (GH-OK)

+ 1145 4/18, SS station playing "Mañanitas" soulful song customary among Mexicans (and other Latinos?) to greet the day, especially for those celebrating births. How closely do stations coordinate this with local sunrise? It so happens that today's SR in Tulsa OK is 1146, but I really doubt that KZLI would be doing this, altho could have just bumped up to day power. Strong and steady signal, the only SS audible, surely XERF still skywaving, so when is sunrise there? **Gaisma.com** lists many smaller towns, but not Ciudad Acuña! Fortunately it does list Del Rio TX: 1214. Here are the lyrics of Mañanitas, plus translation, and quite a different performance than the one I just heard: <http://www.cancionfeliz.com/mananitas.php>. You might want to Google up a more traditional version. (GH-OK)

1610 **ANGUILLA**. Unusually good propagation to the Caribbean early this morning (at 0752 4/8) brought in Anguilla for its best-ever signal here in western WA state, completely shutting out multiple TIS stations on the frequency. The late Dr Gene Scott's sermon boomed in //6090, and continued past the 0800 TOH without any ID or other fanfare. <http://www.mediafire.com/?tn1id63r33xqv1>. If it were not for the fact that Ultralight radio DXer Tony King in New Zealand hears this station regularly with his Tecsun PL-380 and ocean coast antennas, I might think that it was a pretty good catch :-). Receiver was a C.Crane SWP Ultralight and new 12" FSL antenna. (GDB-WA)

TROPICAL BAND DX ROUNDUP

2910 **MÉXICO**, XEVT, Villahermosa, Tab (3x). 0535 3/25, very weak music, slightly on lo side, presumably XEVT, as per my previous extensive tracking. Mike Gilchrist in east-central Iowa has also been hearing this lately, not yet with a definite ID. As I found they are extremely rarely given. Schedule is roughly 1106, presumably to become 1005 with Mexican DST which does not start until

4/7, a date originally coordinated with USA, until we moved it almost a month earlier, dragging border towns along with us. (GH-OK)
 + 1135 4/18, can make out a carrier vs band noise, presumably still third harmonic of XEVT, 970. DXing MW harmonics on the 2 MHz band with their very weak signals is rather out of the question in the stormy months, but best chances with least noise before sunrise. (GH-OK)
 3480 **REP KOREA**, V of the People, 1145 4/8. Fair in KK and very good. (RB-AZ)
 4055 **GUATEMALA** R Verdad. 1145 4/8. Religious hymns, Very good on Hammarlund and Slinky wire. (RB-AZ)
 4940 **CHINA**, V of the Strait. 1140 4/8. Man In CC with long monologue. (RB-AZ)
 6550 **REP KOREA**, Korean MND R. 1040 4/11. Choral music and suddenly stopped. Open carrier to either shutdown or fadeout at local sunrise. (RB-AZ)

THANKS TO THESE REPORTERS

BB-AZ **BILL BLOCK**, Prescott Valley AZ
 Drake R8
 bp-WA **BRUCE PORTZER**, DXing at Eld Inlet near Olympia WA
 Winradio Excalibur, 300 foot dipole on ground.
 DV-WA **DENNIS VROOM**, Kalama WA
 DXing with JRC NRD 545, Drake R8B, EAC R-390. NW & W-SW ewe, Sky wire loop 753', Long wire 300', High Performance Active Whip (long wave)
 EB-MO **ERIC BUENEMAN** (NØUIH), Hazelwood MO
 General Electric Superadio III
 GDB-WA **GARY DeBOCK**, Puyallup WA
 C Crane SWP 7.5" Slider loopstick Ultralight + 8" Medium Wave FSL antenna
 GH-OK **GLENN HAUSER**, Enid OK
 Mostly DX-398 with internal antenna only, or Sony SRF-59
 NHP-BC **NICK HALL-PATCH**, Victoria BC nhp@ieee.org
 Drake R8, RFSpace NetSDR; RFSpace SDR-14 running DX Fishbarrel program; north Flag antenna, west FLG-100 antenna, 1m indoor box loop, 14m sloper, DXP-3 phasing unit.
 RA-OK **RICHARD ALLEN**, near Perry OK
 Barefoot PL-310, Sony SRF-T615, 7-inch FSL
 RB-AZ **RICK BARTON**, El Mirage AZ
 Hammarlund HQ-180A and Slinky
 SR-OR **STEVE RATZLAFF**, La Grande OR
 R75, active whip, 8' active loop

DX WORLDWIDE – EAST

Eric Bueneman (NØUIH) – 631 Coachway Lane – Hazelwood, MO 63042-1347
E-mail: nouiheric@aol.com all times UTC

Deadlines are Wednesdays at 2000 ELT.

TRANS-ATLANTIC LOGS

171 **MOROCCO** Radio Mediterranee Internationale, Nador – 4/3 2303 man in French. Fair signal. (Connelly O-MA)
 + 4/15 2317 man in French, musical interludes. Good signal. (Connelly O-MA)
 183 **GERMANY** Europe Number 1, Felsberg – 4/3 2303 woman in French. Fair signal. (Connelly O-MA)
 189 **ICELAND** Rikisutvarpid, Gufuskalar – 4/16 0000 intro music, news in Icelandic mentioning Obama, Boston. (Connelly O-MA)
 198 **UNITED KINGDOM** BBC Radio 4 Droitwich, et al. – 4/16 0000 "God Save the Queen" instrumental, 5 + 1 pips, promo by woman for "Business Matters" BBC show to discuss Cyprus, then into news mentioning the Boston Marathon terror attack. (Connelly O-MA)
 225 **POLAND** Polskie Radio, Konstancinow – 4/16 0000 5 + 1 pips, man in Polish. Poor signal. (Connelly O-MA)
 531 **ALGERIA** Jil FM, F'krina Wilaya d'Oum El Bouaghi – 4/3 2358 with man and woman in Arabic //549 kHz. Poor to fair signal. (Connelly O-MA)
 + 4/15 2345 with Mideast-style vocal //549 kHz, to fair peak. (Connelly O-MA)
 549 **ALGERIA** Jil FM, Les Trembles – 4/3 2358 with man and woman in Arabic //531 kHz. Good signal. (Connelly O-MA)
 + 4/15 2345 with Mideast-style vocal //531 kHz. Fair signal. (Connelly O-MA)
 612 **MOROCCO** RTM A, Sebaa-Aioun – 4/3 2358 woman in Arabic, then music. Fair signal. (Connelly O-MA)
 + 4/16 0001 noted with group Arabic vocal. (Connelly O-MA)
 621 **CANARY ISLANDS // SPAIN** RNE Radio 1 synchros – 3/22 0059 man and woman in Spanish, musical interlude. This station and Mauritania on 783 were the strongest TA's. (Connelly Y-MA)
 + 4/3 2303 musical interlude, man and woman in Spanish. Good signal. (Connelly O-MA)
 + 4/15 2345 man in Spanish. Fair signal. (Connelly O-MA)

684 **SPAIN** RNE Radio 1 Sevilla – 4/15 2346 woman in Spanish. Good signal over WRKO slop. (Connelly O- MA)
 693 **UNITED KINGDOM** BBC Radio 5, Droitwich, et al. – 4/15 2345 with woman reporting on the Boston Marathon bombings //909 kHz (which was stronger). Noted over unID station with female vocal. (Connelly O-MA)
 711.11 **WESTERN SAHARA** RTM Laayoune – 4/3 2302 fat carrier, bits of audio. (Connelly O-MA)
 747 **NETHERLANDS** Radio 5 Zeewolde (Flevoland) – 4/15 2331 Stan Getz and Astrud Gilberto "Girl from Ipanema" (1964), over RNE. (Connelly O-MA)
 + 4/15 2346 Big Band orchestra, vocal. (Connelly O-MA)
 756 **GERMANY** Deutschlandfunk Braunschweig and Ravensburg – 4/16 0000 electronic sounder, 3 + 1 pips, man in German, to fair peak. (Connelly O-MA)
 756 **SPAIN** Radio Euskadi, Bilbao – 4/15 2345 man in Spanish, folk music. Dominant signal. (Connelly O-MA)
 774 **SPAIN** RNE Radio 1 synchros – 4/15 2345 with woman in Spanish //684 and 855 kHz. Poor signal. (Connelly O-MA)
 783 **MAURITANIA** Radio Mauritanie, Nouakchott – 4/3 2303 man with news in Arabic. Fair signal. (Connelly O-MA)
 792 **SPAIN** SER, Sevilla – 4/3 2303 fast Spanish talk. Poor signal. (Connelly O-MA)
 + 4/15 2344 man in Spanish; to fair peak. (Connelly O-MA)
 855 **SPAIN** RNE Radio 1 synchros – 4/3 2302 man with news in Spanish. Fair signal. (Connelly O-MA)
 + 4/15 with woman in Spanish //684 and 774 kHz; to fair peak. (Connelly O-MA)
 863.92 **UNIDENTIFIED** – 4/3 2330 off-channel growl against 864. (Connelly O-MA)
 882 **UNITED KINGDOM** BBC Radio Wales, Washford – 4/15 2329 Matt Monro's "From Russia With Love"; fair signal. (Connelly O-MA)
 909 **UNITED KINGDOM** BBC Radio 5 synchros – 4/3 2304 news/talk by woman in English. Poor signal. (Connelly O-MA)
 + 4/15 2330 male announcer: "On digital, radio, mobile and online, this is BBC Radio Five Live", then news by woman about the bombings at the Boston Marathon and President Obama's reaction; to good peak. (Connelly O-MA)
 945 **FRANCE** France Info, Toulouse – 4/3 2303 woman in French, to good peak over WROL slop. (Connelly O-MA)
 + 4/15 2331 with man in French, emphasis on music //1206 kHz. Fair signal. (Connelly O-MA)
 981 **ALGERIA** RTVA Chaîne 2, Algiers – 4/3 2304 slow Arabic choral vocal. Fair signal; adjacent WCAP 980 off the air. (Connelly O-MA)
 + 4/15 2331 woman in French; fair signal. (Connelly O-MA)
 999 **SPAIN** COPE synchros – 4/3 2304 man with Spanish talk and teletalk. Good signal. (Connelly O-MA)
 + 4/15 2330 man in Spanish, over other stations. (Connelly O-MA)
 1026 **SPAIN** SER synchros – 4/3 2303 man and woman in Spanish; heard in WBZ 1030 slop. (Connelly O-MA)
 1044 **SPAIN** SER synchros – 4/3 2330 man in Spanish, pips on the half hour; peaking up over pesty WBZ 1030 IBOC. (Connelly O-MA)
 1080 **IRAN** IRIB 1/VOIRI, Abadan – 4/15 2345 Middle Eastern vocal, slightly under WTIC. (Connelly O-MA)
 1089 **UNITED KINGDOM** TalkSport synchros – 4/3 2303 mention of "1089 and 1053 AM", then some talk about rugby. Fair to good signal. (Connelly O-MA)
 + 4/16 0000 talk: "We'll be going to Boston to find out what's been going on", then one o'clock time check. Fair to good signal. (Connelly O-MA)
 1098 **SPAIN** RNE Radio 5 synchros – 4/3 2302 with echoey Spanish talk //855, 1107; to fair peak. (Connelly O-MA)
 + 4/15 2331 with Spanish female vocal //1107, 1125 and 1152 kHz; to fair peak. (Connelly O-MA)
 1107 **SPAIN** RNE Radio 5 synchros – 4/3 2302 with Spanish talk; some echo and low growl present. (Connelly O-MA)
 + 4/15 2331 with Spanish female vocal //1098, 1125 and 1152 kHz; to fair peak. (Connelly O-MA)
 1125 **SPAIN** RNE Radio 5 synchros – 4/3 2330 with Spanish telephone interview in news //1152, 1413; to fair peak. (Connelly O-MA)
 + 4/15 2331 with Spanish female vocal //1098, 1107 and 1152 kHz; good signal. (Connelly O-MA)
 1152 **SPAIN** RNE Radio 5 synchros – 4/3 2330 with Spanish telephone interview in news //1125, 1413; to fair peak. (Connelly O-MA)
 + 4/15 2331 with Spanish female vocal //1098, 1107 and 1125 kHz; to fair peak over WWDJ slop. (Connelly O-MA)
 1179 **CANARY ISLANDS // SPAIN** SER synchros – 4/3 2330 with man in Spanish //1044. Dominant signal. (Connelly O-MA)
 + 4/15 2329 Spanish talk, evenly mixed with Romania. (Connelly O-MA)

- 1179 **ROMANIA** Radio Romania Actualitati Galbeni-Bacau et al. – 4/15 2329 U.S. rock vocal (sounded like Tom Petty); mixed with SER. (Connelly O-MA)
- 1188 **IRAN** Radio Payam, Tehran – 4/16 0000 three ascending notes at the top of the hour, easily cutting through WLIB slop but not too much other audio getting by. (Connelly O-MA)
- 1206 **FRANCE** France Info, Bordeaux – 4/3 2330 with Easy Listening female vocal, then France Info theme music, talk. Fair signal. (Connelly O-MA)
+ 4/15 2331 with man in French, emphasis on music //945 kHz. Fair signal. (Connelly O-MA)
- 1215 **UNITED KINGDOM** Absolute Radio synchros – 5/3 2304 with Dire Straits’ “Money For Nothing”. Fair signal. (Connelly O-MA)
+ 4/16 0000 Absolute Radio ID, eyewitness report from Boston: “Everyone started running, then another bomb went off”. Fair signal. (Connelly O-MA)
- 1242 **FRANCE** France Info Marseille – 4/15 2317 with woman in French //1377, 1494 and 1557 kHz. Noted over slop from WBUR 1240. (Connelly O-MA)
- 1305 **SPAIN** RNE Radio 5 synchros – 4/3 2321 woman in Spanish. Fair signal. (Connelly O-MA)
+ 4/15 2331 female vocal //1125 kHz, others. (Connelly O-MA)
- 1314 **SPAIN** RNE Radio 5 synchros – 4/4 0000 man and woman in Spanish with news, teletalk. Poor to fair signal. (Connelly O-MA)
- 1341 **NORTHERN IRELAND** BBC Radio Ulster, Lisnagarvey – 4/16 0000 BBC mention. Poor signal. (Connelly O-MA)
- 1377 **FRANCE** France Info, Lille – 4/15 2317 with woman in French //1242, 1494 and 1557 kHz. Fair signal. (Connelly O-MA)
- 1386 **SPAIN** Euskadi Irratia, Bilbao – 4/3 2329 Spanish folk vocal. Fair signal. (Connelly O-MA)
- 1413 **SPAIN** RNE Radio 5 synchros – 4/3 2330 Spanish telephone interview in news //1125, 1152; to fair peak. (Connelly O-MA)
- 1422 **ALGERIA** RTA, Algiers – 4/3 2303 man in French. Fair signal. (Connelly O-MA)
+ 4/15 2330 man and woman in French, over slop. (Connelly O-MA)
+ 4/15 2345 female Arabic vocal. LOUD signal! (Connelly O-MA)
- 1485 **SPAIN** SER synchros – 4/16 0001 fast Spanish talk by woman. Fair signal. (Connelly O-MA)
- 1494 **FRANCE** France Info synchros – 4/15 2317 with woman in French //1242, 1377 and 1557 kHz; to fair peak. (Connelly O-MA)
+ 4/15 2330 France Info theme, through other station. (Connelly O-MA)
- 1503 **SPAIN** RNE Radio 5 synchros – 4/3 2304 fast talk by man in Spanish. Dominant signal. (Connelly O-MA)
- 1521 **SAUDI ARABIA** BSKSA, Duba – 4/3 2303 Arabic talk by woman, then group Arabic vocal with strings and percussion. Good signal. (Connelly O-MA)
+ 4/15 2330 man in Arabic. Good signal. (Connelly O-MA)
- 1547.87 **UNIDENTIFIED** 4/15 2329 something on the low side of the channel, not much audio. (Connelly O-MA)
- 1550.03 **ALGERIA** RASD Clandestine, Rabouni – 4/3 2303 rustic North African male vocal and strummed string instrument; over WDSK-CT (religion, Christian). (Connelly O-MA)
- 1557 **FRANCE** France Info, Fontbonne – 4/15 2317 with woman in French, //1242, 1377 and 1494 kHz. Fair signal. (Connelly O-MA)
- 1575 **UNITED ARAB EMIRATES** Radio Farda, Al-Dhabiya 4/3 2329 pop Mideast male vocal; to fair peak. (Connelly O-MA)
+ 4/15 2345 pop Mideast female vocal, over others. (Connelly O-MA)
- 1602 **SPAIN** Radio Vitoria, Vitoria – 4/3 2303 non-SER Spanish talk by man and woman; to good peak. (Connelly O-MA)
- PAN-AMERICAN LOGS**
- 526 **BAHAMAS** ZLS beacon, Stella Maris – 3/22 0200 ZLS code IDs. (Connelly Y-MA)
- 530 **CUBA** Radio Enciclopedia CMBQ La Habana – 3/19 0030 light piano music. (Connelly Y-MA)
- 530 **CUBA** Radio Rebelde, Guantanamo – 3/22 0200 with Rebelde talk by man, nine-note sounder //600, mixed with apparent Radio Enciclopedia. (Connelly Y-MA)
- 540 **CUBA** Radio Rebelde, Guantanamo and Sancti Spiritus – 3/22 0200 Rebelde nine-note sounder, under WFLF, CBT. (Connelly Y-MA)
- 570 **CUBA** Radio Reloj, Arroyo Arenas – 3/22 0200 Reloj ticks, beeps, news; over second Spanish talker that was most likely the Dominican Republic. (Connelly Y-MA)
- 580 **PUERTO RICO** WKAQ San Juan – 3/22 0100 WKAQ ID by woman, dominant. (Connelly Y-MA)
+ 4/3 2330 WKAQ IDs in fast Spanish talk; over WTAG. (Connelly O-MA)
- 600 **CUBA** Radio Rebelde CMKV Urbano Noris – 3/22 0200 Rebelde ID, nine-note sounder, news with “splash” sound effects. Dominant signal. (Connelly Y-MA)
+ 4/3 2330 Rebelde talk //670, mixing with CBNA. (Connelly O-MA)
- 610 **CUBA** Radio Rebelde CMAN Bahia Honda – 3/22 0200 nine-note Rebelde sounder; under WIOD. (Connelly Y-MA)
- 620 **CUBA** Radio Rebelde Colon/Moa – 3/22 0200 nine-note Rebelde sounder; in jumble with domestics. (Connelly Y-MA)
- 630 **CUBA** Radio Progreso synchros – 3/22 0100 with pop-soul female vocal //640; mixing with WUNO and WPRO. (Connelly Y-MA)
- 640 **CUBA** Radio Progreso synchros – 3/22 0100 with female vocal //630. Good signal. (Connelly Y-MA)
- 640 **GUADELOUPE** Radio Guadeloupe, Pointe-a-Pitre – 3/22 0200 French news by man; over presumed Cuba. (Connelly Y-MA)
- 650 **CUBA** Radio Rebelde – 3/22 0200 nine-note Rebelde sounder, punching through co-channel Radio Progreso. (Connelly Y-MA)
CUBA Radio Progreso synchros – 3/22 0200 vocal //660; mixing with Radio Rebelde. (Connelly Y-MA)
- 660 **CUBA** Radio Progreso, Jovellanos – 3/22 0200 vocal //650; under WFAN. (Connelly Y-MA)
- 670 **CUBA** Radio Rebelde CMQ Arroyo Arenas – 3/22 0200 nine-note Rebelde sounder on two audios with about a one to two second delay, news by woman with “splash” sounds between items. Loud signal. (Connelly Y-MA)
+ 4/3 2330 with Rebelde talk by man //600; over presumed YVLL (Venezuela). (Connelly O-MA)
- 690 **COLOMBIA** W Radio HJCZ Bogota – 4/4 0000 with soft music, “W Radio, la ... de Colombia” network ID //HJCX 700; mixing with CKGM. (Connelly O-MA)
- 700 **COLOMBIA** W Radio HJCX Cali – 4/4 0000 with soft music, “W Radio, la ... de Colombia” network ID; dominant over jumble. (Connelly O-MA)
- 710 **CUBA** Radio Rebelde synchros – 3/22 0200 Rebelde nine-note sounder with echo, woman with news in Spanish; under WOR. (Connelly Y-MA)
- 720 **COLOMBIA** Emisoras Unidas HJAN Barranquilla – 4/4 0000 tropical music, “Emisoras Unidas...fabulosa” ID; over others. LSB used to dodge WOR IBOC. (Connelly O-MA)
- 740 **BRAZIL** Radio Sociedade da Bahia, ZYH446 Salvador – 4/15 2346 shouting man in Portuguese, under CHCM (Newfoundland). (Connelly O-MA)
- 760 **COLOMBIA** Radio Cadena Nacional HJAJ Barranquilla – 4/3 2331 RCN ID; over Brazil. (Connelly O-MA)
- 770 **CUBA** Radio Rebelde, Victoria de las Tunas – 3/22 0200 nine-note sounder, Rebelde news with “splash” sounds; under WABC. (Connelly Y-MA)
- 790 **CUBA** Radio Reloj, Pinar del Rio and Holguin – 3/22 0200 Reloj beeps, news; in jumble with WPRV, WAXY, WNIS. (Connelly Y-MA)
- 820 **SAINT KITTS and NEVIS** Trinity Radio Network/Radio Paradise, Charlestown – 3/20 0300 Southern U.S. preacher; fair signal. (Connelly Y-MA)
+ 4/3 2303 U.S. preacher, choir; fair signal. (Connelly O-MA)
+ 4/15 2345 African-American male preacher mentioned New Orleans after Hurricane Katrina. Good signal. (Connelly O-MA)
- 840 **HAITI** Radio 4VEH (4VEF), Cap-Haitien – 4/3 2330 hymn with French female vocal and the melody of “Amazing Grace”; fair signal. (Connelly O-MA)
- 860 **CUBA** Radio Reloj – 3/22 0200 Reloj ticks, beeps; mixing with CJBC. (Connelly Y-MA)
- 870 **CUBA** Radio Reloj synchros – 4/4 0002 Morse Code “RR” beeps, Reloj news, ticks. Loud signal, clobbering WLVP. (Connelly O-MA)
- 900 **CUBA** Radio Progreso – 3/22 0200 talk “desde La Habana” in jumble. (Connelly Y-MA)
- 940 **PUERTO RICO** WIPR San Juan – 4/3 2328 Maxima ID; over second Spanish talker (likely YVNN Venezuela) and U.S. religious (Christian) station. (Connelly O-MA)
- 1010 **BRAZIL** Radio CBN, ZYH625 Fortaleza – 4/15 2344 jingle, man in Portuguese; under WINS. (Connelly O-MA)
- 1100 **BRAZIL** Radio Globo, ZYK694 São Paulo – 4/15 2346 Globo jingle, fast reverberated Portuguese talk by man, São Paulo mention. Good signal, dominant. (Connelly O-MA)
- 1130 **BRAZIL** Radio Nacional, ZYJ460 Rio de Janeiro – 4/15 2346 man in Portuguese; under WBBR. (Connelly O-MA)
- 1160 **BERMUDA** VSB3 Hamilton – 4/16 0000 with intro music, BBC news //198 kHz U.K. Slightly over jumble, LSB used to dodge 1161 het. (Connelly O-MA)
- 1180 **CUBA** Radio Rebelde (CMBT Villa Maria and others) – 3/22 0200 Rebelde sounder, talk; mixing with WHAM. (Connelly Y-MA)
- 1220 **BRAZIL** Radio Globo, ZYJ258 Rio de Janeiro – 4/15 2345 man in Portuguese, “wolf whistle”, Globo mention; over WWSF (Maine). (Connelly O-MA)
+ 4/16 0001 trumpet fanfare, Globo ID, over WHKW and WWSF. (Connelly O-MA)
- 1280 **BERMUDA** VSB2 Hamilton – 4/16 0001 “on the Bible Broadcasting Network”, over jumble including apparent Brazil. (Connelly O-MA)
- 1610 **ANGUILLA** Caribbean Beacon, The Valley – 3/3 2304 U.S. male preacher; good signal. (Connelly O-MA)
+ 4/15 2317 U.S. male preacher with large-room reverberating acoustics; over Canadian stations. (Connelly O-MA)
- 1620 **CUBA** Radio Rebelde synchros – 3/22 0200 with nine-note Rebelde sounder, news //1180, et. al. Dominant signal. (Connelly Y-MA)
+ 4/3 2304 Spanish talk by man including Rebelde ID; over WDHP. (Connelly O-MA)
- 1620 **U.S. VIRGIN ISLANDS** WDHP Frederiksted, St. Croix – 4/3 2358 Caribbean-accented talk show; fair signal over Cuba. (Connelly O-MA)

THANKS TO THIS EDITION'S CONTRIBUTOR

(Connelly O-MA) **Mark Connelly (WA1ION)** – South Orleans, Cape Cod, MA, U.S.A.

Coordinates: 41 degrees, 44 minutes, 8 seconds North
69 degrees, 59 minutes, 46 seconds West

Receiver: Microtelecom Perseus

Antenna: (March logs) cardioid-pattern Micro-SuperLoop on car roof, two meters per side, with 9:1 transformer on east bottom corner to speaker wire to 2:1 transformer to W7IUV transfer amp, and 9:1 transformer on west corner to speaker wire to 500 ohm null-adjust potentiometer.

See http://www.qsl.net/wa1ion/pictures1/dual_feedline_superloop.gif for a

similar antenna.

(April logs) cardioid-pattern Micro-SuperLoop on car roof, two meters per side, with Clifton Laboratories Z10130A amp on east bottom corner to speaker wire to 2:1 transformer to W7IUV amp, and 9:1 transformer on west corner to speaker wire to 500 ohm null-adjust potentiometer.

(Connelly Y-MA)

Mark Connelly (WA1ION) – South Yarmouth, Cape Cod, MA, U.S.A.

Coordinates: 41 degrees, 49 minutes, 59 seconds North
70 degrees, 11 minutes, 47 seconds West

Receiver: Microtelecom Perseus

Antenna: West-null Kaz Delta, seven meter vertical (mid-base to apex) by 21 meter horizontal, base height one meter.

EDITOR'S NOTEBOOK

Thanks to Mark for his reports from South Orleans and South Yarmouth on Cape Cod, one of the best locations for Trans-Atlantic and Pan-American DX in New England.

There was quite a bit of coverage of the bombings at the Boston Marathon on English language radio and television on April 15 and 16, as noted by Mark's logs of the English-speaking stations on that day.

Some of you, especially those who are just getting started in, or looking to get started in, DXing the Trans-Atlantic signals, wonder what the acronyms for the Spanish radio networks "COPE", "RNE" and "SER" stand for. **COPE** stands for **Cadena de Ondas Populares Españolas**; it's a commercial network in Spain. **RNE** stands for **Radio Nacional de España**, the country's public broadcaster. **SER** stands for **Sociedad Española de Radiodifusión**; it's a commercial network owned by Grupo Prisa. (Information courtesy of the 2013 World Radio-TV Handbook.)

If you live east of the Mississippi River, send your international (non-U.S./Canada) DX tips to this column. You're also welcome to contribute any trivia you may have on the stations. Any changes in station names or formats may be sent to Bruce Portzer's **DX Worldwide II** column. 73.

IRCA TECHNICAL COLUMN

Nick Hall-Patch – 1538 Amphion St – Victoria BC Canada V8R 4Z6

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Software-Defined Radio--Taking It Further

By Jack Weber

When SDRs first appeared there was talk about them being the ultimate receivers. Buy one now, it was said, and it will be the last radio that you'll ever need to buy because it can be endlessly improved through software upgrades. This was nonsense. No manufacturer could stay in business like that and, anyway, it assumed that no improvement was possible in the hardware. As we've seen with the arrival of direct sampling SDRs, there was considerable scope for improvement in the hardware and it's nowhere near finished yet. Nevertheless, there was some truth in the assertion - any SDR can be improved by changing the software. It's just that it can't be improved beyond what the hardware is capable of.

| Software | HDSDR | Studio1 | SDR- Radio v1.5 | SDR Console v2 | SDR# | SdrDx & CuteSDR |
|--|-------|---------|-----------------------|----------------------|------|--------------------|
| FUNcube Dongle Pro+ | • | • | | • | • | |
| RFspace SDR-IQ | • | • | • | • | • | |
| Elad FDM-S1 | • | • | | | | |
| Afedri SDR-Net | • | • | | • | • | • |
| RFspace NetSDR | | | • | • | | • |
| Microtelecom Perseus | • | • | | • | | |
| Winradio Excalibur (not Excalibur Pro) | • | • | | | | |

So, while upgrading the hardware is an obvious way to get new capabilities and improved performance, it's a big step and you may not need to go that far just yet. In many cases, there are alternative software solutions that may address whatever shortcomings and irritations you're experiencing. You could completely replace the SDR software you're currently using or you might find that you want to use a number of applications at different times to address specific needs. Either

way, the first essential is compatibility.

Table 1 shows a selection of third-party SDR applications and some of the hardware they can work with. As you can see, it's patchy. Unlike the manufacturer's own software, these generic programs need to be able to communicate with various different makes and types of hardware. Normally this is achieved through small software modules called Dynamic Link Libraries (DLLs) that act as translators, allowing the software to control the hardware, and the hardware to send meaningful data to the software. If no DLL exists for a particular hardware/software combination then they won't be able to work together.

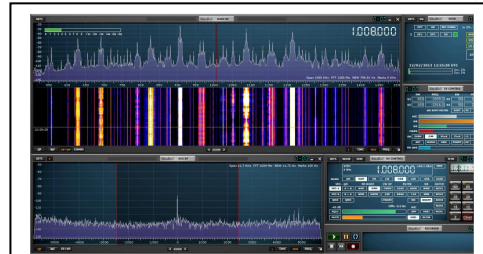


Figure 1. Studio 1 running a Perseus SDR.

On the positive side, DLLs don't cost anything and are mostly trouble free. When you install a DLL, make sure you put it into the same folder as the application it's supporting, it won't work if it's in a sub-folder. In some cases you may also need to install additional small software files to work with the DLL. If you have more than one SDR, and the software supports them, all their DLLs can go into the folder together and the software will offer a choice of which radio you want to use.

The first two applications in the table are HSDR and Studio1. Both of these have their roots in Winrad, which was one of the earliest generic SDR applications. HSDR has a number of good features including a nice clear spectrum/waterfall display, a recording scheduler and an ability to pull intelligible audio out of an unpromising signal. On the downside, there's no synchronous AM mode, which is a bit of a limitation for MW DXing. Perhaps this is not an application for regular everyday DXing, but a useful one to have around for when it's needed.

Studio1 (see Figure 1) is a more ambitious piece of software and generally more suitable for MW DXing. It has one of the best synchronous AM modes, excellent notch filtering and many other strong capabilities, as well as one of the better looking on-screen interfaces. Be prepared to spend some time getting to grips with it as it's quite complex. It's the only application here that isn't free and, because it's protected by a security dongle, you can't simply download it but need to order it from Woodbox Radio in Italy for U149 + postage.

SDR-Radio and SDR Console are a closely related pair. SDR Console is due to succeed SDR-Radio, though at the time of writing it's still a work-in-progress and available only as a technical preview. The quirky, sometimes awkward, interfaces can take time to master, but these are ambitious and innovative applications with particular strengths in recording and playback of wideband spectrum recordings. The recent addition of Perseus support in SDR Console makes it more relevant to MW DXers, though there are still some gaps. For example, there's no 9kHz tuning step yet, but presumably this will be added as SDR-Radio has it. SDR Console is due to be released as a beta version at the end of March, with an official release of the full software in late 2013, when it should replace SDR-Radio.

A relatively new entrant is SDR# (read as "SDR Sharp"). The interface is neat and clear and it has some useful options. It's proving particularly popular for VHF work and utility monitoring. For general MW DXing it's not yet a serious contender - there's no synchronous AM, no notch filter and only a basic recording facility. One to watch though, as it's developing rapidly.

SdrDx is unusual in being able to run on both Windows and Mac computers. It's based on another cross-platform application known as CuteSDR (so called because it was written in a programming language called Qt, pronounced "cute"). Both are designed to work with SDRs that connect by Ethernet rather than USB. Hence their support for the RFspace NetSDR and Afedri SDR-Net receivers. (ed. note: CuteSDR is open source, written by Moe Wheatley of RFspace, so support for RFspace radios was probably a given. RFspace has a bit of a history of providing code for users to develop their own platforms, as I used an earlier open source code in Visual C++ version 6 provided by the company to get my own band monitoring software off the ground.) SdrDx has some useful features especially in terms of signal processing, but the basics are patchy - no 9kHz tuning step, for example - and it's certainly not the most intuitive of SDR applications.

Some applications come pre-configured with a number of DLLs. Others may require you to find, download and install whichever DLLs you'll need. One family of these, known as ExtIO. dlls (External Input Output Dynamic Link Libraries) is used by several SDR applications, but other software may need its own specific type. It can all appear a bit disorganized - and it is - but on

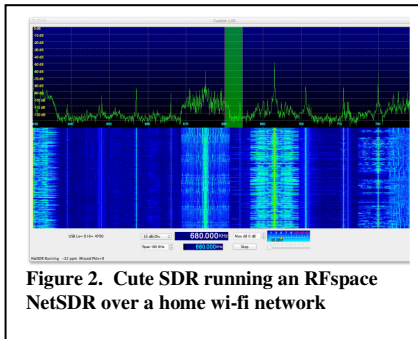


Figure 2. Cute SDR running an RFspace NetSDR over a home wi-fi network

CuteSDR (see Figure 2) aims lower, but achieves those aims better. It's a no-frills application that makes few demands on your computer, making it ideal for use on a Mac or Windows laptop. With no need for a USB cable, you can connect it to a compatible receiver through Wi-Fi and you have a simple portable SDR to carry around the house.

There are many other applications out there, a lot of which were designed for an earlier generation of soundcard-based SDRs and are very basic. At the other end of the scale, Linrad is one of the most advanced, but is not so much a normal SDR application as a laboratory for experimenting with digital signal processing - immensely powerful, but challenging and not one for the novice.

Rather than compare long lists of features between these applications, I'll concentrate on a few scenarios that illustrate how bringing in different software - or sometimes hardware - can open up new possibilities.

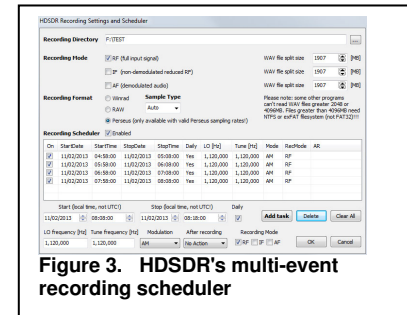


Figure 3. HSDR's multi-event recording scheduler

that will work with Perseus and can record in Perseus format, which allows files to be played back in the native Perseus software. This is ideal if you're happy with the Perseus software, but simply frustrated by its lack of a scheduler. SDR Console can record from Perseus, and will probably get a scheduler as SDR-Radio already has one (SDR-Radio doesn't work with Perseus). A scheduler is also promised for Studio1. If it's any good, it will provide another welcome solution.

The best option, though not the cheapest, is to upgrade to the Excalibur Pro SDR. Its own software contains an excellent and very flexible scheduler that can be used for both spectrum and audio recordings and gives you great flexibility for setting up repeating schedules and for enabling/disabling individual events.

Recording Playback Just as you can use a third-party application to make spectrum recordings which you then play back in Perseus, so you can do the reverse. Recordings made in Perseus can be played back in HSDR, SDR-Radio and SDR Console among others. The value of this is that it provides a solution to one of Perseus' annoying limitations - its lack of navigation in spectrum recordings.

As it records, Perseus breaks up the recording into separate smaller files (many other SDR applications do this too). When you come to play back the recording, it will automatically jump from the end of one file to the start of the next so you get a seamless flow. If, however, you want to go back to repeat an earlier file or jump forward to a later one that isn't immediately following, then you have no option but to stop the playback, open a file browser to select the file you want and start to play it. This is slow and very frustrating. By using SDR-Radio or SDR Console for playback you get all the chained files to appear as a single continuous recording on the playback time slider, allowing you to move freely through the whole sequence in either direction.

Other combinations are possible too. For instance, recordings made in the SpectraVue software that's supplied with RFspace receivers will play back in SDR Console, but not the other way round. With some invalid combinations, a recording will play, but will display the wrong frequencies or times. This is because most SDRs record standard WAV files, but have their own format for the metadata such as centre frequency, span, time of day and so on. Some applications can decode this metadata, others get confused or just ignore it.

Multiple Receivers Modern DDC SDRs can handle a block of spectrum that ranges typically from tens of kHz to several MHz. Within this band, a narrower slice is filtered out for demodulation. Since filtering and demodulation are done entirely in software, there's theoretically no limit to how many such slices can be active at once. It simply depends on how much processing power you can throw at the task. Having multiple

Scheduled Recordings It's a great mystery why so few SDRs provide any form of recording scheduler. You wouldn't buy a video recorder that can only record TV when you're physically there to press the Record button. Why then are SDR users expected to put up with this? Neither Perseus nor Excalibur has any form of scheduler for spectrum recordings. The RFspace radios do, but it's not the most flexible or user-friendly design.

Fortunately, there are various possible solutions. For Perseus, you could use an add-on application such as Mestor or Station List, while Excalibur users can try something like Splinterware System Scheduler, but none of these options is as elegant as a built-in scheduler. Switching to a generic SDR application may help.

HSDR has a multi-event scheduler (see Figure 3)

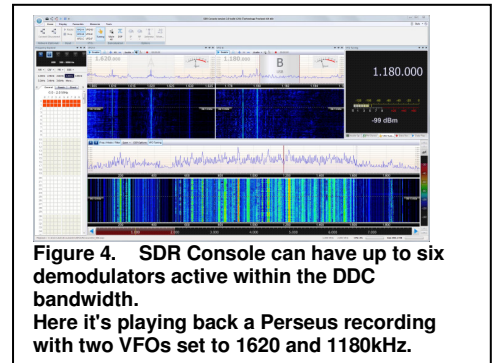


Figure 4. SDR Console can have up to six demodulators active within the DDC bandwidth. Here it's playing back a Perseus recording with two VFOs set to 1620 and 1180kHz.

simultaneous receivers can be useful if you're looking for parallel transmissions or want to check several frequencies for a possible opening to a particular DX area. It can also help with identifying suspected spurs and harmonics.

Perseus provides just one demodulation channel in its native software, but other applications can give you more. For example, SDR Console lets you create up to six simultaneous receivers (see Figure 4), and Studio1 allows up to 16. You can either switch between them to listen or, if you're using just two, feed them to the left and right channels of your headphones or speakers, which makes comparison simpler. (ed. note: RFspace's Spectravue provided the possibility of two independent demodulated channels for as long as I can remember, and very useful it has been for MW parallels, one channel to each ear.) Excalibur users have it easy as both models provide three demodulators with various options for splitting, mixing or switching between their audio.

Taking the idea of multiple receivers even further, there's no reason why you can't have more than one SDR running on the same computer at the same time. With a reasonably fast processor, it's entirely feasible to have two or even three SDRs on the go at once. This means that you could, for example, be playing back overnight recordings on one SDR while keeping an eye on current conditions with another. Or, if your interests extend to it, listening to MW on one and using another to check FM or an amateur band for any openings there.

You could use different software for each SDR or run multiple instances of the same software if appropriate. Studio1 is particularly good for this sort of thing because its interface is quite flexible and modular allowing you to have several different SDRs in operation, each with its own windows but with a consistent interface for all and everything neatly assembled into a unified layout.

Carrier Monitoring Almost any SDR can be used for monitoring and measuring carrier offsets on MW, but the receiver of choice has to be the RFspace NetSDR as this can be supplied with an optional board that lets you lock it to a 10MHz reference such as a GPS-disciplined oscillator. Suitable GPS time and frequency receivers often come up on eBay. These are mostly made by Hewlett-Packard and are frequently available from dealers in China. (ed. note: another common one is the Trimble Thunderbolt.) Feeding the 10MHz output of the GPS receiver into the Reference input on the NetSDR provides accuracy to a fraction of 1Hz and with no drift (though the GPS receiver may need up to a day to achieve maximum accuracy and stability, so it can't just be turned on when needed).

On the software side, an absolutely indispensable tool for observing carriers is SDR IQ Analysis, a part of SDR-Radio. (A new version called SDR Data File Analyser is supplied as a stand-alone application with SDR Console, but is still a bit buggy.) Starting with a sequence of chained spectrum recording files made by Perseus, SpectraVue, Studio1, HDSDR or just about anything except the Excalibur models, the Analyser will produce a detailed plot of the carriers in any frequency span and over any time period that's contained within the recordings. What's so impressive is that even a 10 hour overnight recording can be analysed and plotted in a few minutes.

Even if detailed observation of carrier offsets is of no interest, it's well worth using this just to see how much activity there is on different channels. It's also the ideal tool for checking schedules, looking for intermittent transmissions or observing changes in propagation. Figure 5 shows 1510 kHz overnight as recorded in Britain. You can clearly see daytime stations signing off and others from further west fading in. The dominant signal is, of course, WUFC in Boston.

Trimming spectrum recordings Another very useful tool that's built into SDR-Radio is SDR IQ File Resampler (this too has a near equivalent, called SDR Data File Decimator, that comes with SDR Console). What these do is allow you to extract and save a portion covering any frequency range and duration from within a spectrum recording. For example, if you've only had time to check a wideband recording from 540 to 1000kHz, you could free up disk space by extracting and saving just the remaining portion from 1000 to 1700kHz for later. Or you might choose to save just a couple of minutes of the full band if there was a brief propagation enhancement that would repay closer checking. The trimmed recording would need to be played back in SDR-Radio or Console.

DX Ability Using software to demodulate and filter received signals is at the heart of all SDRs, but not all SDRs do it equally well. Subtle differences in the way these processes are handled, together with different approaches to AGC, noise reduction and so on do make a difference to audio recovery - and hence to the DX you can catch. It's not possible to pick out any application as being

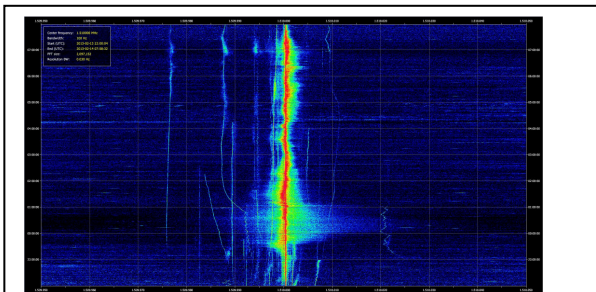


Figure 5 An overnight (2200-0800 UTC) plot of carriers on 1510kHz made with SDR IQ Analysis. The span of the plot is 100Hz, i.e. 50Hz either side of 1510kHz

better than the others because what works best for one signal may not do so for the next. If faced with borderline reception that's almost intelligible, but not quite, the best approach is to try playing it back in several different applications. You should notice a difference in how effective they are and, with luck, one of them may deliver the ID you're looking for.

Hardware Exploring different software options can bring many new capabilities to an existing SDR. There are some things, though, that only a hardware upgrade can deliver. The overall frequency coverage, stability, front-end filtering, dynamic range and so on are all hardware-dependent. Similarly, the ability to operate an SDR over a network is made easier if it has an Ethernet connection, and its resistance to radiated or mains-borne interference is determined by how the hardware has been designed and built. Finally, buying new hardware may give you access to better software. For example, the excellent recording scheduler included in the Excalibur Pro's dedicated software doesn't work with other models. The only way to use it is with the hardware.

If money is no object, there are several seriously high-end SDRs to consider, but none that offers particular benefits for MW DXing. For example, Winradio has its Excelsior receiver with an impressive coverage of 9kHz to 3500MHz as well as the ability to record up to 8MHz of bandwidth in two blocks of 4MHz. However, this is of no direct benefit for MW DXing and, as its basic RF performance specifications are actually weaker than those of Excalibur Pro, so it's not a contender unless you absolutely need the wide coverage. RFspace also produce a high-end receiver, the SDR-IP. This is basically similar to their NetSDR, but with additional options aimed at professional and especially scientific users. For hobby use, the NetSDR is much better value.

The most advanced of the non-professional SDRs has to be the new FlexRadio 6700R. This is due to be released in the second quarter of 2013 at a price of US\$7500. It isn't available yet so the final details are still incomplete, but the advance specifications look very impressive. However, it's designed specifically for amateur radio use so the emphasis is quite different from what you'd need for MW DXing. For example, there appears to be no ability to make wideband spectrum recordings - there'd be little need to because ham radio operates in real time. Nevertheless, its claimed ability to maintain a high dynamic range even with closely spaced signals and in the face of varying noise and signal levels could make it a very desirable choice for real-time MW DXing.

Future SDR One novel feature of the 6700R is that it effectively has its own built-in computer to handle all the processing. Just about the only thing your PC has to do is provide a screen, keyboard and mouse to create the control interface. This means that, despite its high specification, it should work with quite a lowly computer. When SDRs first appeared the thought of giving each radio its own dedicated PC would have seemed ridiculous, but prices have fallen and, anyway, your SDR doesn't need a complete PC. It only needs enough of one to do SDR work. Much of what you get in a normal home or business PC is irrelevant. The advantage of having an embedded computer in the radio is that it's never distracted by other demands and its performance can be exactly matched to the SDR hardware.

This wouldn't make sense at the bottom end that's populated by DIY kits and dongle-based radios, but at the level of serious SDRs it makes very good sense and I'm sure that we'll be seeing other examples of this. A self-contained SDR that simply needs to be connected via cable or wireless link to a laptop, iPad, smart phone or whatever you want to use for controlling it will be far more flexible than one that has to be tied to a high-performance computer.

Another pointer to the future is that the Flex 6700R contains two sets of SDR hardware which can be combined for diversity reception, beam steering and noise nulling. This is a prospect that's been tantalizingly close for a long time, but has never quite made it. The basic idea is to have two or more receivers, each with its own antenna and all of them locked to a common master clock so that they are digitizing exactly in sync. You can then combine their outputs and, by introducing a phase shift between them, steer the direction of the combined virtual antenna beam. Unlike the familiar analogue antenna phasing units such as the MFJ-1025 and MFJ-1026, this doesn't have to operate in real time. You can make a normal DDC spectrum recording of both receivers and then do the phasing afterwards, allowing you to steer a fixed antenna system during playback in order to favor one station or another or to null out interference. This idea has been discussed for years (Microtelecom came close to releasing such a dual-receiver called Gemini, but then didn't). Things are gradually moving forward, though. RFspace have developed a phase-coherent second receiver module for their NetSDR and there are plans to support it in the SDR Console software. The imminent arrival of the FlexRadio 6700R should provide added momentum, so I'm sure that this ability will finally become available and, quite possibly, indispensable.

One area which has seen a lot of progress recently is in remote operation, either so you can place your SDR in a quiet rural location and operate it from home, or in order to make receivers around the world available to other listeners over the internet. It's become an important aspect of SDR and is clearly one that will continue to develop. Looking further ahead, you may not need your own receiver at all. One day, you may just rent online access to a well located SDR and operate it from anywhere on any device. All it needs is enough computing power and internet bandwidth. This may not appeal to everyone, but it would allow people living in electrically noisy urban environments to return to DXing. Of course, by then there may not be much MW broadcasting left.

The other area where SDR technology has been moving forward is in extending the upper end of the frequency coverage. As faster analogue-digital converter chips become available so SDRs are moving

further into VHF and UHF. This may not be of direct value to MW DXers, but what it does is to extend the user base for SDRs quite significantly, and this means that there will be more incentive to develop new features that will benefit everyone.

In the era of big-box radios with knobs and buttons, upgrading meant buying a new and better receiver. We've now entered an era of greater flexibility where hardware and software can be replaced or extended independently, where one manufacturer's hardware can work with another's software and where you can use different combinations for different purposes. It's all still a bit hit-and-miss and does sometimes involve more effort and inconvenience than is really necessary, but the rewards are there and are increasing rapidly.

(the above article first appeared in *Medium Wave News*, and is used with the permission of the author and of Medium Wave Circle)

GEOMAGNETIC INDICES

Compiled by: Phil Bytheway

E-mail: phil_tekno@yahoo.com

Geomagnetic Summary March 1 2013 through March 31 2013

Tabulated from email status daily (K @ 0000 UTC.)

| Date | Flux | A | K | Space Wx | | | | | |
|------|------|----|---|-----------|------|-----|----|---|------------------|
| 3/ 1 | 113 | 27 | 4 | minor, G1 | 17 | 126 | 46 | 5 | moderate, G2, S1 |
| 2 | 111 | 12 | 3 | no storms | 18 | 118 | 7 | 2 | no storms |
| 3 | 112 | 7 | 2 | no storms | 19 | 110 | 5 | 2 | no storms |
| 4 | 114 | 4 | 1 | no storms | 20 | 108 | 9 | 3 | no storms |
| 5 | 118 | 4 | 1 | minor, R1 | 21 | 106 | 12 | 1 | minor, R1 |
| 6 | 114 | 3 | 1 | no storms | 22 | 101 | 4 | 2 | minor, R1 |
| 7 | 114 | 4 | 1 | no storms | 23 | 98 | 11 | 4 | no storms |
| 8 | 115 | 3 | 1 | no storms | 24 | 96 | 5 | 1 | no storms |
| 9 | 116 | 6 | 1 | no storms | 25 | 93 | 4 | 1 | no storms |
| 10 | 119 | 4 | 2 | no storms | 26 | 92 | 3 | 0 | no storms |
| 11 | 120 | 5 | 1 | no storms | 27 | 93 | 14 | 4 | no storms |
| 12 | 123 | 5 | 1 | no storms | 28 | 99 | 9 | 2 | no storms |
| 13 | 123 | 4 | 1 | no storms | 29 | 105 | 23 | 3 | minor, G1 |
| 14 | 123 | 5 | 1 | no storms | 30 | 108 | 17 | 2 | minor, G1 |
| 3/15 | 123 | 6 | 1 | minor, R1 | 3/31 | 113 | 4 | 1 | no storms |
| 3/16 | 126 | 10 | 2 | minor, S1 | | | | | |

Sx – Solar Radiation Storm Level

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

2012-2013 IRCA DX CONTEST

Manager: Nancy Johnson – 265 Waterton Way – Billings MT 59102-7755

E-mail: NancyJohnson@prodigy.net

April 15, 2013 update

1. Art Blair 304
2. Eric Bueneman 258
3. Nigel Pimblett 179
4. Greg Hall 149
5. Tim Noonan 130
6. John Tudenham 118
7. Dennis Vroom 70
8. Bill Nittler 66
9. Nancy Johnson* 11
10. John C. Johnson 1

*Contest manager is not eligible to win.

The rules for our contest appear in the August 18, 2012 DXM, and online at the IRCA website.

NRC AM Radio Log, 33rd Edition

The **NRC AM Radio Log** is unbound and three-hole punched for standard binders. Media Rate: \$22.95 to US IRCA/NRC members; \$28.95 to US non-members; to Canadian members, \$32.00; add \$3.50 for Priority Mail. Airmail to all outside of USA/Canada: \$36.00. Canadian orders: PayPal or postal MO only. Order from: NRC Publications – PO Box 473251, Aurora CO 80047-3251, or via www.nrcdxas.org. (CO residents, please add 3.5% sales tax.) Please state your IRCA membership affiliation when you order.

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IRCA Mexican Log, 17th Edition (Winter 2012)

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/Canada/sea mail), \$11.50 (México), \$12.50 (rest of the world). Non-IRCA/NRC members – add \$2.00.

To order from the IRCA Bookstore, send the correct amount to: IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334 (PayPal [add \$1.00] email: phil_tekno@yahoo.com). Please state club affiliation when ordering.

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 members** – \$2.25 (US/Canada/Mexico/sea mail), \$3.00 (rest of the Americas/Europe airmail), \$4.00 (Australia/New Zealand airmail). Non-IRCA members – add \$1.00.

An Introduction to Broadcast Band DXing

This tri-folded brochure is ideal for explaining the Broadcast Band DXing hobby and the IRCA. It can be included with reception reports and given to other interested folks. Sub topics include: What is DXing?, Broadcasting's early years, The first DXers, Clubs helped listeners share, Our hobby today and DX clubs still unite listeners. It is two color printed on heavy stock. Price is \$0.35/brochure (US and Canada), \$1.00 (rest of the world). Minimum order is 10.

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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.

New from the IRCA reprint service. "IRCA REPRINTS ON CD"!!! 648 Reprints. The entire set, now on one CD. Only \$10.00 (US/Canadian IRCA members, overseas contact Phil.) Categories include: Antennas, Domestic, Foreign, History, DX Lists, Receivers and Receiver Modifications, and Technical.

For a complete list of reprints, or to purchase the CD send to: **IRCA Reprints, c/o Phil Bytheway, 9715 Mary NW, Seattle, WA 98117-2334**. Allow 3-4 weeks for delivery. (Make all checks and money orders out to **Phil Bytheway**)

Pay electronically with PayPal-add \$1 to all prices above. Go to www.PayPal.com, then send your funds to phil_tekno@yahoo.com (Phil Bytheway).

ARRL Hamfest Calendar

As you may know (and I can say this from experience-EiC), a Hamfest is a great place to find good deals on new and used receivers, wires and cables for antenna projects, and other hobby-related needs. The American Radio Relay League has a Web page to help you find a Hamfest near your home QTH or while you're traveling to other parts of the country. You can search by Zip Code, select from Hamfests within 25, 50, 100 and 250 miles of your home QTH, as well as city and state. (Searching by ARRL division and section is only for the Ham-savvy, hi.) To find a Hamfest in near your home QTH, visit <http://www.arrl.org/hamfests-and-conventions-calendar> and plug in your location or Zip Code. You'll be able to find upcoming Hamfests in your local area.

IRCA Facebook Page

The IRCA's Facebook page is now online! This is a new feature of IRCA, featuring photos of transmitter sites (many of which provided by our Chairman, John C. Johnson), members' shacks (your Editor-in-Chief included) and plenty of information. If you have a Facebook page, enter "International Radio Club of America" into your Facebook search engine, then click the "Like" icon. Many thanks to Mike Sanburn (KG6LJU) and John C. Johnson for setting this page up.

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) and in printed form 30 times a year (weekly November through March, monthly 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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MEMBERSHIP DUES (DXM=printed DX Monitor, SDXM=soft e-mailed version)

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Pay electronically with PayPal – add \$1 to all prices above. Go to www.paypal.com, then send your dues to ircamember@ircaonline.org – contact Lynn Hollerman for more information.

Sample copies of **DX Monitor** are available. Along with your request, please include first class postage of: **45c** for USA addresses, **79c** for Canada and Mexico or **2-International Reply Coupons** each, for other countries. Send to: **IRCA, 414 SE 3rd St, Ocala FL 34471.** (Maximum two samples per year.)

For information on **subscribing to the IRCA mailing list** at Hard-Core-DX, a group e-mail service, contact the moderator, Lynn Hollerman at lynnhollerman@yahoo.com.

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