



DX MONITOR

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Seattle deadline for next issue – **Monday 5/15 6 PM PLT**. **Verification Signers:** "No tips were submitted to my column this month. Deadline for the May column will be Monday, May 29 2017 at 1500 EDT – Steve showe@albany.edu. IRCA is still looking for a new editor for **DXWorldWide-West**, **DX Test Coordinator** and backup **Editor-in-Chief**.

2017 IRCA/NRC/DecalcoMania CONVENTION

IRCA will be hosting the 2017 **IRCA/NRC/DecalcoMania** Convention held Thursday August 17-Saturday August 19 (checking out on Sunday) at the Best Western Airport Plaza hotel, 1981 Terminal Way, Reno NV 89502. For reservations use phone number 775-348-6371 and request International Radio Club of America rate of \$100 per night plus tax. Major credit cards accepted. (Attendees are encouraged to double up, share a room and save). Airlines serving Reno include Alaska, Allegiant, American, Delta, JetBlue, Southwest, United, and Volaris. Amtrak passenger train service is available as well. Registration fee (not including banquet) is \$25 payable to **Mike Sanburn**, PO Box 1256, Bellflower CA 90707-1256. Or, by PayPal (add \$1 to cover fee) mikesanburn@hotmail.com Include contact info and club affiliation(s) if any. Information on activities, banquet, and station tours will be announced shortly. Visitor's information can be found online at www.visitrenotahoe.com.

This year's **IRCA/NRC/DecalcoMania** convention in Reno will be an excellent chance to re-connect with old friends and to share DX stories. Speaking of sharing, we issue our annual **call to action** for those who wish to present a talk or paper during the convention. As you know, this can be as *formal* or *informal* as you want. To make it easier, we can provide you with audio-visual support, including slide-preparation and display.

If you're interested in sharing your experiences... or if you want to present questions for discussion that might lead to a better understanding of a particular aspect of your own DXing, please contact Mark Durenberger at Mark4@durenberger.com

RADIO STATION STAMP AUCTION

FROM. Neil Carleton, Almonte, Ontario, Canada

DISTRIBUTION Radio and philatelic correspondents close to home, across the continent, and around the world.

I'm happy to report that Sparks Auctions has confirmed the dates for the sale of my radio stamp collections.

When Tuesday, May 23, and Wednesday, May 24 2017

Sparks Auctions <http://sparks-auctions.com/>

Contact Brian Wolfenden, Sparks Auctions, Suite 202, 1550 Carling Ave, Ottawa, Ontario, Canada K1Z 8S8, 613-567-3336, 613-567-2972 fax, 844-252-2032 toll-free, bnaps@sparks-auctions.com

How to Bid <http://sparks-auctions.com/how-to-bid-with-us/> advance bidding + live internet bidding + in person

The extensive scale and scope of the radio stamp collections is expected to be offered as a dozen or so lots that include aerogrammes + audience reply cards + commemorative cancellations + covers + **EKKO** stamps + first day covers + local post stamps + maximum cards + meter stamps + philatelic bulletins + postage paid impressions + postage stamps (commemorative, postal tax, semi-postal, special delivery) + postal stationery + postcards + radio station and broadcasting service hand stamps + radio station promotion stamps + radio station request card + souvenir cards + souvenir sheets + verification of reception (QSL) cards and letters + verification of reception stamps/sheets/proof sheets.

- mounted collections: 9 volumes, 658 pages;
- stock pages: 4 volumes, hundreds of un-mounted items;
- 29 radio topics: precursors, patron saint, inventors and pioneers, magnetic field and ionosphere, time zones, radio telegraphy, Morse code, radios, headphones, speakers, microphones, tubes and circuits, radio studios, radio at sea, radio in the air, radio in the Arctic and Antarctic, fixed radio links, mobile radio, radio and meteorology, amateur radio, radio exhibitions, the radio revolution, radio conferences/events/organizations, radio trade union congresses, radio towers/waves/symbols;
- **EKKO** album: 106 pages;
- additional verification stamps: 5 pages;
- Adventist World Radio verification stamps: including sheets and proof sheets;
- reference books: 12 volumes.

Google Drive Folder

120 files of scanned images + inventories and other references are available for viewing on request. ve3nce@gmail.com



BROADCASTING INFORMATION – Robert J Wien – 14051 Belle Chasse Blvd #415 – Laurel MD 20707

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Column Deadlines: Saturdays

DATE OF COLUMN: April 22 2017, **Column data span:** April 8-April 22 2017, Data courtesy of Stationintel.com, FCC database and member contributions.

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
890	KMJE	Olivehurst, CA	KVMX

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ	CALL	CITY OF LICENSE	NEW INFORMATION
940	KCOE	Bend, OR	now silent
950	KWAT	Watertown, SD	was adult contemporary, now talk
	KJTV	Lubbock, TX	old slogan: "AM 950/100.7 FM Lubbock's News Talk Sports", new: "AM 950/100.7 FM Lubbock's News Talk Sports" (??-ye ed)
1050	WLMA	Alexander City, AL	old slogan: "Real Country 1050/96.3", new: "Real Country 1050"
	WJCM	Sebring, FL	adds slogan: "Highlands ESPN"
1070	WMIA	Arecibo, PR	was Spanish talk, now Spanish news-talk, old slogan: "MIA 1070 Radio Arecibo", new: "La Poderosa"
1120	WXJO	Douglasville, GA	was silent, now SB Nation Radio sports, adds slogan: "1120 The Score"
1160	WKCM	Hawesville, KY	old slogan: "Real Country", new: "Nash Icon WKCM 1160"
1230	KSLO	Opelousas, LA	was regional Mexican, now religious teaching
1290	WJBI	Batesville, MS	old slogan: "Kool 107", new: "Kool 1290"
1300	WKQK	Cocoa Beach, FL	adds slogan: "Radio 1300"
1310	KZIP	Amarillo, TX	was Spanish oldies, now regional Mexican, old slogan: "Recuerdo", new: "La Caliente"

1320	WENN	Birmingham, AL	was silent, now soft adult contemporary, adds slogan: "Easy 102.1"
1330	WITM	Marion, VA	was urban gospel, now new unknown format
1340	WITS	Sebring, FL	adds slogan: "Highlands Christian Talk"
	KPOK	Bowman, ND	adds classic rock format
1350	WCMP	Pine City, MN	was adult standards, now classic hits, old slogan: "America's Best Music", new: "Pine Hits 106"
1410	WELM	Elmira, NY	was Westwood One NBC Sports Network, now CBS Sports, old slogan: "NBC Sports Radio 1410", new: "CBS Sports Radio 1410"
1420	WCRE	Cheraw, SC	was oldies, now classic hits
1470	KSMM	Liberal, KS	was oldies, now classic hits
1580	WVOZ	Morovis, PR	was silent, now Spanish news-talk, adds slogan: "La Poderosa"
1450	KVML	Sonora, CA	old slogan: "News-Talk 1450", new: "News-Talk AM 1450/102.7 FM"
1580	KFCS	Colorado Springs, CO	adds slogan: "1580 The Trumpet"

(Note: more 'repeating' slogans from **Stationintel.com**, I'll just continue reporting them as they are reported-ye ed).

Just got back from a trip to Hollywood Casino Penn National Races in Grantville VA (NE of Harrisburg PA, the state capital). Very nice place, and I even won something! Tax day was this week (4/18), hope your DX hasn't been too taxing! No member contributions this time.... Keep reporting those tips to the column and enjoy the 2017 IRCA convention later this year in Reno NV! 73's. Bob Wien



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

WDXR DEADLINES: May 12, May 26, June 9, June 23, July 14 and Aug. 11. Please use Eastern Local Time.

REPORTERS FOR THIS ISSUE:

- (GH) **Glen Hansen**-64085 Olson Road-Deer Island OR 97054 gbhansen2@outlook.com
NRD 545, Hammarlund SP-600 and HQ-180A, various wires, Kiwa loop
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
Icom IC-R75, Wellbrook ALA1530LNP
- (NP) **Nigel Pimblett**-331 5th Street-Dunmore AB T1J 0B9 nige2730@telus.net
Perseus SDR, Wellbrook Phased Array

- *****
- 610 KNML **NM**, Albuquerque 4/24 0500 coming up through KOJM with ID as "Albuquerque's Lobos station, Sports Radio 610, KNML Albuquerque..." into CBS Sports Radio program. (NP-AB)
 - 660 KGSV **CA**, Oildale 4/24 0758 heard through CFFR with Indian music, ID at the hour as "You're listening to Radio Punjab, KGSV AM 660 Oildale, K273CB 102.5 FM...." (NP-AB)
 - 880 KCMX **OR**, Phoenix 4/24 0800 ID as "KCMX Phoenix, Oregon 880 AM. This is southern Oregon's source for news and weather 24 hours a day. News Media 880 KCMX," then ABC news. (NP-AB)
 - 910 KRAK **CA**, Hesperia 4/23 0800 dominating the frequency under auroral conditions with ID as "Krack sports, KRAK Hesperia-Victorville-Apple Valley, 910 AM for great live sporting events and the high desert's best sports talk keep it on Krack sports 910 AM, CBS Sports Radio." (NP-AB)
 - KBLG **MT**, Billings 4/26 0857 mixing with CKDQ, with ads for Billings businesses, then ID "...this is the only sports station in Billings, ESPN 910 KBLG Billings." (NP-AB)
 - 920 KVIN **CA**, Ceres 4/24 0759 oldies song, then ID as "...America's best music... KVIN Ceres, Modesto, Stockton...." (NP-AB)
 - 940 WFAW **WI**, Fort Atkinson 4/19 0000 ID as "WFAW Fort Atkinson," and also mention of 940 wfaw.com website. (NP-AB)
 - 980 KNTR **AZ**, Lake Havasu City 4/23 0800 ID as "You're listening to 980 KNTR Lake Havasu City and... Laughlin. All sports all the time on 94.3 FM and 100.5 FM. Welcome to the KNTR sports team," then CBS Sports Radio programming (NP-AB)
 - 990 KFCD **TX**, Farmersville 4/19 0000 coming through CBW with ID as "This is KFCD 990 AM, Farmersville-Dallas-Fort Worth...." (NP-AB)
 - 1230 KWG **CA**, Stockton 4/23 0459 program promo ending "...Monday to Friday on your Immaculate Heart station," then ID "Immaculate Heart Radio, KWG...." (NP-AB)
 - KHSN **OR**, Coos Bay 4/19 0000 ID at ToH and ESPN format. Weak but only one discernible in the jumble, 1000 watts and 300 miles away. (GH-OR)
 - 1240 KQEN **OR**, Roseburg 4/8 0700 up from the jumble for ID. Fair to poor and drifty on sunrise skip using NRD with E-W wire. Sometimes heard at night. (GH-OR)
 - KASL **WY**, Newcastle 4/21 2300 came through a jumble of stations with mention of web site at kaslradio.com and ID as "1240 AM, KASL." (NP-AB)
 - 1260 KSFB **CA**, San Francisco 4/21 good with KTRC nulled, local KBSZ on with only their carrier. 0100 with Immaculate Heart Radio promo followed by "KSFB San Francisco" legal ID. New for me. (JCJ-AZ)
 - 1300 KAPL **OR**, Phoenix 4/8 0030 religious type music with ID at BoH. Weak and choppy but alone on NRD with S-W wire. (GH-OR)
 - 1350 KTIK **ID**, Nampa 4/13 2320 George Noory, fair but choppy and mixing with UnIDs on HQ-180A and Kiwa loop. (GH-OR)
 - 1370 KRAC **CA**, Quincy 4/7 2350 ad for local business. Man said "You're on Crack K-R-A-C," Red Eye Radio show. Poor to fair and mixing with UnID at times on NRD with S-W wire. (GH-OR)
 - 1490 KUGR **WY**, Green River 4/18 faded up in mess 0059 with promo for "The Radio Network" with numerous mentions of Wyoming news, weather and sports. 0100 with "KUGR Green River Wyoming" jingle ID into CBS News. New for me. (JCJ-AZ)
 - 1600 KVRI **WA**, Blaine 4/9 2330 ID in English at BoH into Punjabi music, etc. Fair to poor mixing with others on SP-600 and E-W wire. (GH-OR)
 - 1610 WQBV569 **WA**, Yakima 4/20 0501 Washington State Highway Advisory Radio with ID by woman as "...this is radio station WQBV569 near Yakima," and information on construction. (NP-AB)

The DX season is winding down. Thank you to our three reporters to the column this time! – Nancy 4/28 1900



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

RIDING GAIN

[EB-MO] **Eric Bueneman**, Hazelwood MO N0UIHEric@aol.com
GE Superadio III

DOWN THE DIAL

- 890 WKNV **VA**, Fairlawn. 4/23 fair to poor signal through WLS. 0622 with Southern Gospel format, "FM 93-point-One and AM Eight-90" mention. [EB-MO]
- 1140 WBXR **AL**, Hazel Green. 4/23 fair signal over WVLE. 0730 noted with promo, calls into Bible teaching program. 1140 #10 from this location. [EB-MO]
- 1310 WDXI **TN**, Jackson. 4/27 fair signal over WTLC. 0713 noted with community announcements and local spots. [EB-MO]
- 1400 KGMV **MO**, Springfield. 4/27 fair to poor signal, mixing with KWYN, WGIL and other stations. 0655 noted with local spots and weather forecast from KOLR-TV. [EB-MO]

FLASHBACK

April 30 1966 issue of "DX Monitor" ... **Tom Jasinski** logged CBA 1070 for Province #5 from Mokena IL ... **CM "Stan" Stanbury II** offered more comment on Radio Americas ... A chart showing daylight saving time for each state was included. All of Montana was MST except Butte. Only 19 states had complete DST in 1966. // April 27 1991 issue of "DX Monitor" ... **Gary Larson** of Burbank CA told about KDAY 1580 going off the air ... **Father Jack Pejza** of Ojai CA mentioned his appearing on Jeopardy! and getting a chance to mention IRCA. (On air broadcast date July 8 1991) ... **Karl Jeter** of Stone Mountain GA said he was up to 1428 veries.

OPEN MIKE

Thanks to Eric we have a column this week. This column was typed 4-28-17. 73, John



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

TUNING THE DIALS THIS ISSUE:

- (KK-VA) **Kraig Krist** (KG4LAC), Manassas VA
Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop
(PS-ON) **Paul Snider**, Welland ON, Canada
ICOM IC-R75, Pixel RF Pro-1B loop, MFJ-1020C as a tuner

ACROSS THE DIAL

- 860 WAOB **PA**, Millvale – 4/22 2321 noted with the Holy Rosary broadcast, featuring prayers and a female vocalist backed by a children's choir. A very poor signal was noted, at times barely audible under CJBC. (PS-ON)
1160 WOBB **NJ**, Lakewood Township – 4/17 2308 noted with an Oldies format featuring music from Elton John and Kiki Dee, Gary Lewis and the Playboys and The Eagles, "Beach Radio 1310, "My Beach Radio-dot-com" ID at 2311, another "Beach Radio" ID mentioning 1160 and 1310 at 2313. A poor to very poor signal was noted, mixing with WYLL and other stations. (PS-ON) (1310 refers to WJLK Asbury Park NJ; I wonder if these stations have played music by Asbury Park's favorite son, Bruce Springsteen – eb)
1410 WDOV **DE**, Dover – 4/19 0129 noted with *Coast-to-Coast AM*, "News/Talk 1410" ID at 0130, local ads, weather forecast with WDOV mention at 0133 into Fox News Radio. A fair at times to very poor signal was noted, mixing with other stations. (PS-ON)
1440 WMKM **MI**, Inkster – 4/14 2345 noted with Christian sermon, Urban Gospel music, "Tell your friends about The New 1440 WMKM... reborn" ID at 2351 into another music set. A fair to very poor signal was noted mixing with an unidentified Fox Sports Radio station; no sign of semi-local WJLL. (PS-ON) (Your Fox Sports Radio affiliate is WGVN Greenville SC – eb)
1600 KGYM **IA**, Cedar Rapids – 4/19 0035 noted with The Freddie Coleman Show, local ads, PSAs, ESPN promos and mentions, ads for Upside Down-dot-com and Casper Mattresses, weather forecast with "Gym" mention, "KGYM, Eastern Iowa's Sports Station" ID at 0057, local sports news, mention of "KGYM Radio-dot-com". A fair at times to very poor signal was noted, mixing with other stations. (PS-ON)
WIDU **NC**, Fayetteville – 4/7 0545 noted with an Urban Gospel format. "We are 1600 AM WIDU Fayetteville, WIDU Radio-dot-com" ID by a male announcer. The signal was noted mixing with WCPK, WKXX, WWRL and an unidentified vocal music station. (KK-VA)
1670 WMGE **GA**, Dry Branch – 4/14 0459 noted with "We are Central Georgia's Fox Sports 1670" ID by a male announcer. The signal was noted mixing with an unidentified vocal music station. (KK-VA) (The vocal music station could likely be CJEU Gatineau QC – eb)
1680 WOKB **FL**, Winter Garden – 4/14 00514 noted with "Inspiration 1680 Orlando" ID by a female announcer. The signal was noted mixing with KRJO and WPRR. (KK-VA) (KRJO runs an Adult Hits format as "My 99.7" – eb)
1700 WRRCR **NY**, Ramapo – 4/14 0509 noted with an Adult Contemporary format, DJ talk, "At Home, At Work or In Your Car; We Belong with You, AM 1700 WRRCR" slogan by a male announcer. According to their Web site, they are known as "Radio Unscripted"; the GM noted that the station is AC/Talk 0100-1300 and Ethnic, with programming furnished by Radio India, Limited 1300-0100. (KK-VA)

TENTATIVE

- 1630 CHYW **ON**, Ottawa – 4/7 0536 noted with ad for sending flowers anywhere in Canada. Is this CHYW? The signal was noted mixing with KCJJ, WRDW and the Northern Virginia Community College-Manassas campus TIS. (KK-VA) (This must be a very new station; it is not listed in the latest NRC AM Radio Log – eb)

EDITOR'S NOTES

Thanks to Kraig and Paul for their logs. 73 and good DX from NØUIH



DX WORLDWIDE – WEST – Temp: Phil Bytheway – 9705 Mary Ave NW – Seattle WA 98117-2334
E-mail: phil_tekno@yahoo.com
all times UTC

Mondays 1201 PM PLT. All times UTC/GMT. We are looking for a new editor for this column, contact me if interested phil_tekno@yahoo.com.

TRANS-PACIFIC DX ROUNDUP

- 531 **JAPAN** JOQG, Morioka, NHK1. Extreme minimalist DX with man talking very weak, //567 1308 4/9, but actually got a little stronger at 1313 with woman talking //594. Also noted weakly, man talking //594 1258 4/14. (NHP-BC)
558 **REP KOREA** HLQH, Yeong-il, KBS2. 1306 4/13. Man and woman in Korean fair strength //603. (NHP-BC)
567 **JAPAN** JOIK, Sapporo, NHK1. Man in Japanese //594, good signal at 1301 4/3 after pips on the hour (previous to hour, there was a separate program from 594, but definitely Japanese). Also noted good strength 1247 4/13, man in Japanese //594; similar strength //594, 1222 4/17. (NHP-BC)
576 **AUSTRALIA** 2RN, Sydney. News //612 at 1301 4/18, fair strength. (NHP-BC)
JAPAN NHK1 synchros; JOHG? 1300 4/14. Sports and pips, poor strength but //594. Whichever it was, NHK1 has not been heard at home before on this channel. (NHP-BC)
585 **AUSTRALIA** 7RN, Hobart. Woman and man talking, pretty weak but //576 1322 4/4. (NHP-BC)
JAPAN JOPG, Kushiro, NHK1. 1305 4/9. Man talking poor strength, //567. Also noted poorly, 1259 4/14 Japanese sports //594, NHK pips on hour as talking continued. (NHP-BC)
+1301 4/15. Man talking, poor strength, //594. (NHP-BC)
594 **AUSTRALIA** 3WV, Horsham. 1320 4/4, man talking, then music, poor strength, //612. Also noted 1247 4/18, man talking, poor but clearly //612. (NHP-BC)
603 **JAPAN** JOOG/JOJK, Obihiro/Okayama, NHK1. 1306 4/9. JOOG more likely, man mumbling //594, poor strength. (NHP-BC)
† **NEW ZEALAND** Manukau, Radio Waatea. Assumed with island style vocal harmonies 1238 4/4, fair strength. (NHP-BC)
REP KOREA HLSA, Seoul, KBS2. Good strength, woman in Korean 1319 4/3, paralleled with 558 earlier. Also noted fair strength w/man in Korean, soft music, 1233 4/13 //558. (NHP-BC)
612 **AUSTRALIA** 4QR, Brisbane. Woman and man talking, good signal, "ABC radio" mention by man 1305 4/15. Also noted, excellent strength, peaking around local sunrise with two men talking DU English 1311-12 4/18, fading back up again at 1317 for a last hurrah. (NHP-BC)
621 **AUSTRALIA** 3RN, Melbourne. 1324 4/6. Man talking //576, poor strength, and 620 splatter made even the parallel difficult. (NHP-BC)
639 **JAPAN** JOIP, Oita, NHK1. 1302 4/14. Poor, fading up over JOPB with sports //594, but with JOPB making occasional forays for the next couple of minutes. Extreme minimalist DX at its best. (NHP-BC)
JAPAN JOPB, Shizuoka, NHK2. 1301 4/14, woman talking //774 then man, faded down, and NHK1 faded up, both pretty weak but fairly clear. Think this is new at home, but heard again 1204 4/17, very weak w/woman and man talking //774. (NHP-BC)
657 **DPR KOREA** Pyongyang, Pyongyang BS. Man in Korean, fair signal 1302 4/3; presumed this one. (NHP-BC)
666 **JAPAN** JOBK, Osaka, NHK1. 1256 4/13. This one seems likely, woman in Japanese not //594, good strength; this is a time when NHK1 stations break out for local programming. (NHP-BC)
693 **JAPAN** JOAB, Tokyo, NHK2. Poor-fair with man in Japanese at 1157 4/17. (NP-AB)
702 **AUSTRALIA** 2BL, Sydney. 1234 4/18. Man talking //612 4/18, poor strength; reprise of this at 1320-22, after sunrise. (NHP-BC)
+Mild carrier signal at 1146 4/22 (LSR 1147) fading away at 1155. (RA-OK)
+Fair strength carrier signal at 1140 4/23 fading away at 1147 (LSR 1146). The signal was stronger than yesterday. No signals noted on 621, 774 or 1116. (RA-OK)
702 **JAPAN** JOKD/JOFB, Kitami/Hiroshima, NHK2. 1300 4/13. English lessons after pips, fair strength. (NHP-BC)
729 **UnID**. Very weak, with man talking at 1210 4/25. Not //1503, so likely RNZ. (NP-AB)
747 **JAPAN** JOIB, Sapporo, NHK2. Fair, with woman and man presenting language lesson at 1201 4/17. (NP-AB)
756 **UnID**. Traces of music at 1154 4/25 under the IBOC noise. Presumably RNZ from Auckland. (NP-AB)

- 774 **AUSTRALIA** 3LO, Melbourne. Man talking //612, poor strength, and way under JOUB 1247 3/16. Also noted 1234 4/18 w/man talking //612, poor strength, but with less interference from JOUB. (NHP-BC)
 +Traces of news were noted at 1203 4/19. (NP-AB)
 +Bits of talk noted before the hour and ABC news fanfare at 1100 4/20. (NP-AB)
JAPAN JOUB, Akita, NHK2. Fair-good, //747 with language lesson at 1201 4/17. (NP-AB)
- 819 **DPR KOREA** Pyongyang, KCBS. 1240 4/13. Woman in impassioned Korean, good strength, //855. (NHP-BC)
- 792 **AUSTRALIA** 4RN, Brisbane, ABC National. Just detectable with ABC news fanfare at 1200 4/20. (NP-AB)
- 828 **AUSTRALIA** 3GI, Sale. Fair level with talk, time pips, and ABC news fanfare at 1200 4/20. Wiped out mid-fanfare by KXNT IBOC, presumably when they switched to day pattern/power. (NP-AB)
JAPAN JOBB, Osaka, NHK2. Fair with woman in Japanese at 1159 4/17. (NP-AB)
UnID. Traces of talk by a man at 1151, music at 1153 4/25. Music seemed //954, but would Trackside Radio play music? (NP-AB)
- 837 **JAPAN** JOQK, Niigata, NHK1. 1301 4/13. Poor strength with woman talking //594. (NHP-BC)
- 846 **JAPAN** NHK1 synchros. 1230 4/13. Man talking, poor strength //594. (NHP-BC)
- 864t **REP KOREA** HLLK, Gangneung, KBS1. 1239 4/13. Likely this, with man in Korean, fair strength. (NHP-BC)
- 891 **JAPAN** JOHK, Sendai, NHK1. Man in Japanese, good level, 1255 4/16; dominant even in LSB, though of course with a het. (NHP-BC)
- 909 **UnID.** Traces of choral music at 1148 4/25. Likely Star from Napier. (NP-AB)
- 945 **CHINA** Jiaohe, CNR1. Man and woman in Chinese //981, fair strength, 1253 4/13. (NHP-BC)
- 954 **JAPAN** JOKR, Tokyo, TBS. 1502 4/3. Man in Japanese, fair strength //1242; local sunrise at 1347. Better strength at a more predictable time, good with two men in Japanese 1252 4/16. (NHP-BC)
UnID. Traces of music at 1154 4/25. (NP-AB)
- 963 **CHINA** Huaduan, CRI. Man talking, poor strength but //1323 1337 4/3. (NHP-BC)
- 972 **REP KOREA** HLCA, Dangjin. Poor, with man speaking in Korean at 1201 4/17. (NP-AB)
- 981 **CHINA** CNR1 synchros. Man and woman in Chinese //945, good strength 1252 4/13. Really good strength, woman in Chinese 1255 4/17, //945 and 6135, at one point only 10dB down from CKNW-980. (NHP-BC)
UnID. Faint traces of talk by a woman just after 1200 4/20. Coincided with a fadeout on 4BC so couldn't check //. (NP-AB)
- 1008 **NEW ZEALAND** Tauranga, Newstalk ZB. Traces of talk at 1149 4/25 through strong 1010 splatter (which somewhat surprisingly came mostly from California rather than Calgary). Musical piece at 1157 which I was able to //1035. (NP-AB)
- 1017 **CHINA** Changchun, CRI. CRI chimes and fanfare, poor strength 1300 4/3. Also likely with one with woman in Korean 1249 4/13, fair strength, best on north Flag. Assumed with Chinese lessons, good strength, 1253 4/17, man and woman repeating Chinese phrases. (NHP-BC)
- 1026 **NEW ZEALAND** Newstalk ZB. First noted in audio at 1157 4/25 with music segment //1035. (NP-AB)
- 1035 **CHINA** various, CNR1. 1322 4/3. Woman talking, poor strength, //945 more or less, given 1035 was echoey at times. (NHP-BC)
NEW ZEALAND Wellington, Newstalk ZB. Fair audio with an interview at 1146 4/25 when I first started the session. Ad string at 1152. Consistent until 1220 fadeout. (NP-AB)
- 1044 **CHINA** Changzhou, CRI. CRI chimes and fanfare, woman in Japanese, fair strength, 1300 4/3. (NHP-BC)
- 1089 **JAPAN** JOHB, Sendai, NHK2. 1240 4/16. Man talking //774, poor strength. (NHP-BC)
- 1098 **MARSHAL ISLANDS** V7AB, Majuro. A minute or so with audio at 1101 4/17, during a piece of music. (NP-AB)
- 1116 **AUSTRALIA** 4BC, Brisbane. Bits of audio, with Aussie-accented woman at 1202 4/17. (NP-AB)
 † Assumed, w/man in DU English, talking to another man on the phone 1252 4/18, fair strength. (NHP-BC)
 +Man talking noted at 1154 4/19, then after a fade back up with news by a woman at 1201. (NP-AB)
 +First observed at poor level with commercial at 1059 4/20. Stronger at 1202 with woman presenting news. (NP-AB)
- 1134t **JAPAN** JOQR, Tokyo, NCB. Man in Japanese 1225 4/17, fair strength. (NHP-BC)
 † **REP KOREA** HLLK, Kimp'o, KBS3. Likely with man in Korean, fair strength, 1302 4/13. (NHP-BC)
- 1143 **UnID.** An IBOC-afflicted frequency, but heard traces of a woman talking at 1203 4/25. (NP-AB)
- 1152 **JAPAN** JORP/KOPC, Kochi/Kushiro, NHK2. Likely JOPC Kushiro. Man talking, poor strength, //828 1254 4/16. (NHP-BC)
- 1179 **UnID.** Traces of music at 1155 4/25. Likely Radio Ake. (NP-AB)
- 1188 **JAPAN** JOKP, Kitami, NHK1. 1303 4/13. Man talking //594; poor signal, better on north Flag. (NHP-BC)
- 1215 **NEW ZEALAND** Kaikohe, Newstalk ZB. Traces of talk by a man at 1148 4/25. Better at 1203 with ad for South Pacific cruise (very tempting – as we had snow here today!), //1035. (NP-AB)
- 1242 **JAPAN** JOLF, Tokyo. 1501 4/3, strong signal, way over 1240 domestics with man in Japanese, had faded up rapidly after the hour, fine post sunrise DX. Also likely the one, man in Japanese, fair strength 1248 4/13. Good strength, with two women in Japanese 1311 4/16. (NHP-BC)
- 1251 **UnID.** Bits of talk at 1201, and music at 1206 4/25, but tough competition from 1250. (NP-AB)
- 1287t **JAPAN** JOHR, Sapporo, HBC. Woman in Japanese, then man 1500 4/3, fair strength, better on north Flag. Another nice piece of post sunrise DX. Also, fair with woman and man in Japanese 1309 4/13. (NHP-BC)
 +Poor, with mix of talk and music at 1207 4/17. (NP-AB)
NEW ZEALAND Greymouth, Newstalk ZB. Only snippets of man talking at 1155 4/25, but enough that I was able to //1035. (NP-AB)
- 1296 **NEW ZEALAND** Hamilton, Newstalk ZB. Poor at 1158 4/25, with music //1035. (NP-AB)
- 1323 **CHINA** Shuangyashan, CRI. Hints of the distinctive music leading up to chimes and fanfare 1259 4/3, poor strength, woman and man talking, "Kitaya" mention, final chime 1300. Also likely the one with man and woman in Russian, fair strength, 1247 4/13. Good strength, w/man and woman in Russian, "Radio Kitaya" ID at 1226 4/17. (NHP-BC)
- 1386 **JAPAN** NHK2 synchros. JOQC Morioka most likely? Man talking 1255 4/16 //828; poor strength. Better level w/English lessons "good morning" by woman, 1213 4/17. (NHP-BC)
NEW ZEALAND Auckland, Radio Tarana. Poor, with talk by man at 1203 4/25, then south Asian music. (NP-AB)
- 1503 **NEW ZEALAND** Christchurch or Wellington, Radio Sport. American sports talk about Aaron Hernandez at 1206 4/25. (NP-AB)
- 1548 **AUSTRALIA** 4QD, Emerald. Man talking, DU English, fairly quick fade up to good strength in 1550 splash 1316 4/11. (NHP-BC)
 +ABC news fanfare was clear at 1200 4/19 in spite of the 1550 splatter, followed by the news read by a man. If not for the 1550 splatter would have been 100% copy at times. (NP-AB)
UnID (4QD?) Carrier signal heard at 1134-1151 4/19 (LSR). Sadly no audio. (RA-OK)
- 1566 **REP KOREA** HLAZ, Jeju, FEBC. Weak, with man talking at 1207 4/17. (NP-AB)

TRANS-ATLANTIC DX ROUNDUP

- 1215t **UNITED KINGDOM** various sites, Absolute Radio. Even though a couple of WCNA North Americans were heard in Britain in mid April, the best this seemed to manage was a strong het 0315-0435 4/13, with maybe some grumbings of audio. Other carriers on 1089, pretty good carrier at times, 855 was so-so; hints on 882 1053 1089, 1107 and an odd one, 1296. 1215 noted on 14 and 16 April also, but a weaker carrier then; no audio when I was listening. (NHP-BC)

THANKS TO THESE REPORTERS

- NHP-BC **NICK HALL-PATCH**, Victoria BC nhp@ieee.org
 RFSpace NetSDR; RFSpace SDR-14 running DX Fishbarrel program, Drake R8; north FLG-100 antenna, west FLG-100 antenna, 1m indoor box loop, 14m sloper, DXP-3 phasing unit.
- NP-AB **NIGEL PIMBLETT**, Dunmore AB (via eGroup)
 Perseus SDR with a Wellbrook Phased Array
- RA-OK **RICHARD ALLEN**, near Perry OK (via eGroup)
 WR-G313e, ALA1530LNP-NA. C Crane Skywave and Tecsun PL-380 with an 8-inch FSL antenna.



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

Deadline – Sunday Midnight Central Time.

***** TRANS-ATLANTIC DX *****

- 549 **ALGERIA** Jil FM, Les Trembles. MAR 28 0100 – Autotune-effect vocal and synthesizer, woman with Jil FM ID. [Connelly*Y-MA]
- 684 **SPAIN** RNE Radio 1, Sevilla. MAR 28 0100 – News; through WRKO slop. [Connelly*Y-MA]
- 783 **MAURITANIA** Radio Mauritanie, Nouakchott. MAR 24 0000 – Fast Arabic talk by man; best TA. [Connelly*Y-MA]

***** PAN-AMERICAN DX *****

- 530 **CUBA** CMBQ, Radio Enciclopedia, La Habana. MAR 25 0402 – Woman with "CMBQ Radio Enciclopedia" ID; mixed with Rebelde station. [Connelly*Y-MA]
- 540 **CUBA** Radio Rebelde, Sancti Spiritus. MAR 2 0700 – Dominant with 9-note signal, "noticias" mention. [Connelly*Y-MA]
- 570p **MEXICO** XEBJB Monterrey, NL. APR 28 0455 – dominant signal here with choral NA early, stops at 0456 but no ID, so sign-off? Nothing further heard. Loops south, so I would expect XEBJB. IRCA Mexican Log as of 2015 showed XEBJB as 24 hours, but some others going off at 0500 or 0600. [Hauser-OK]
- 590 **CUBA** Radio Musical Nacional, La Julia. MAR 25 0400 – Cuban anthem, Radio Musical Nacional ID; mixed with WEZE, WARM. [Connelly*Y-MA]
- 600 **PUERTO RICO** WYEL, Mayaguez. MAR 25 0401 – //580 with Puerto Rico news by woman; under Cuba. [Connelly*Y-MA]
- 630 **CUBA** Radio Progreso synchros. MAR 25 0401 – Anthem //690; mixed with WUNO and WPRO. [Connelly*Y-MA]
- 650 **MEXICO** XETNT, Los Mochis, Sin. APR 14 1157 – good signal from XETNT, which really gets out on skywave. Much better now than any other XE in the 500s, 600s or 700s, although 730 XEHB Chihuahua is weakly audible too. XETNT with music, 1159 full ID for XHTNT 106.5 and XETNT 650, both Radio 65. 6 am timecheck, announces newscast, but not yet, back to songs. Today's Enid sunrise: 1159 on way to earliest of the year in about two months, 1113. [Hauser-OK]
- 720 **CUBA** Radio Progreso, Mabujabo. MAR 25 0401 – Cuban anthem //730; mixed with WGN and UnID Latin American. [Connelly*Y-MA]
- 730 **CUBA** Radio Progreso, La Fe. MAR 25 0359 – Dominant with Radio Progreso ID by woman. [Connelly*Y-MA]
- 740 **CUBA** Radio Angulo, Sagua de Tanamo. MAR 25 0400 – Cuban anthem way over CFZM. [Connelly*Y-MA]
- 800 **MEXICO** XEROK, Radio Cañón, Ciudad Juárez, Chih. APR 20 1303 – after Mex NA, sign-on by a station with address in Ciudad Juárez, seems to mention FM 102.7. As usual, a struggle to copy weak signal, no borderblaster, with near-local KQCV OKC nulled as much as possible. XEROK is not known to have an FM, but adding that is certainly the trend on both sides of la frontera. Wikipedia gives website as <http://calibre800.com/> but that's the newscast it carries, not the station per se, and no sign of an FM mentioned there. 102.7 may be wrong, as there is a K-love translator on that in nearby Anthony TX, although as such would be subject to bumping by a US non-translator, and presumably Mexican.
 +APR 27 1200 – XEROK with choral NA, near-local KQCV OKC nulled as much as possible. This time I can copy enough of the full ID which follows at 1202 to tell that Radio Cañón with street address is *not* mentioning an FM frequency with a seven in it, but instead after 800, they say "Grupo 7". [Hauser-OK]
- 810 **COLOMBIA** HJCY, Caracol Radio, Bogotá. MAR 25 0401 – Through jumble with CARACOL Radio net ID. [Connelly*Y-MA]
- 830 **DOMINICAN REPUBLIC** HIJB, Santo Domingo. MAR 25 0400 – Dominant with HIJB ID at 0400:44. [Connelly*Y-MA]
- 840 **CUBA** CMHW, "W", Santa Clara. MAR 28 0100 – Loud with "Esta es Dobleve, desde Santa Clara, en el centro de Cuba." [Connelly*Y-MA]
- 900 **CUBA** Radio Progreso. MAR 25 0359 – Good (over YVMD, CHML) with Radio Progreso ID. [Connelly*Y-MA]
- 940 **CUBA** Radio Progreso, Sancti Spiritus. MAR 25 0401 – Anthem //690; under CFNV. [Connelly*Y-MA]
- 1000 **CUBA** Radio Granma, Media Luna. MAR 28 0100 – Granma chimes mixed with Artemisa wobbler. [Connelly*Y-MA]
- 1100 **BRAZIL** ZYK694, Radio Globo, São Paulo. MAR 28 0100 – In jumble with reverberated man in Portuguese mentioning 'fútbol'. [Connelly*Y-MA]
- 1630 **MEXICO** XEUT, Tijuana, BC. APR 5 0600 – Punk rock, pleasant sounding W presenter "muy buenas dias". Good well after local sunrise on Panasonic RF-2200, stock loop, oriented for SW/NE reception. Note: This station is the Radio Nikkei 1 of North America, ie a very eclectic lineup of music. Anything from Beethoven to Tangerine Dream to Muddy Waters Dave Brubeck or The Clash is possible here. [Barton-AZ]
- 1700 **MEXICO** XEPE, Tijuana, BC. APR 3 0815 – NBA report, Excellent on Symphonic World Traveler. [Barton-AZ]

CONTRIBUTORS

- [Barton-AZ] **Rick Barton**, Peoria AZ
 World Traveler Longines Symphonette 4597-B
 - [Connelly*Y-MA] **Mark Connelly**, WA1ION, South Yarmouth, Cape Cod MA, USA (GC= 41.6931 N/70.1912 W) (grid FN41vq)
Receiver: Microtelecom Perseus
Antenna 1: Cardioid-pattern SuperLoop: 10m vert by 11m horiz (peak 165 deg, null 345 deg)
Antenna 2: Cardioid-pattern SuperLoop: 6m vert by 12.6m horiz (peak 75 deg, null 255 deg)
 - [Hauser-OK] **Glenn Hauser**, Enid OK, USA
 DX-398 with internal antenna only or PL-880; NRD-545 with ALA-330S inside E-W or inside random wire N-S; ICR-75 with E-W longwire; FRG-7 with NW-SE short wire
- 73, Brandon



DXpeditions – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
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Note: Gary DeBock's DXpedition in Hawaii is presented in our Ultralight column this issue.

Roy Barstow's Cape Cod DXpedition APR 10-11 (via Mark Connelly)

Cape Cod Mini-DXpedition – Orleans, MA, USA – APR 10-11 2017
 Report from Roy Barstow, Times/dates = UTC/2017
 Nauset Beach – Orleans, Cape Cod MA, USA GC= 41.7857 N/69.9365 W (= 41° 47.14' N/69° 56.19' W) (grid FN51as)
 Map: <https://www.google.com/maps/@41.7857,-69.9365,1779m/data=!3m1!1e3>
 Receiver: Elad FDM-S2 See <http://shop.elad-usa.com/sdr-radio/fdm-s2/>
 Antenna: Wellbrook ALA1530LNP See <http://www.wellbrook.uk.com/ALA1530LNP-1>

***** TRANSATLANTIC DX *****

- 531 **ALGERIA** Jil FM, F'kirina Wilaya d'Oum El Bouaghi. APR 10 2333 – Strong with typical Arabic instrumental music //549. [Barstow-MA]
- 549 **ALGERIA** Jil FM, Les Trembles. APR 11 0001 – Loud with Jil FM jingle, Mideast techno-dance music. [Barstow-MA]
- 567 **SPAIN** RNE Radio 5 synchros. APR 10 2344 – Weak to fair peaks; after talk, woman singing //603. [Barstow-MA]
- 576 **CANARY ISLANDS/SPAIN** RNE synchros, Las Palmas//Barcelona. APR 10 2344 – Fair with Spanish talk //567. [Barstow-MA]
- 595 **MOROCCO** RTM 1 and 2, Oujda. APR 10 2344 – Weak with talk //612. [Barstow-MA]
- 603 **SPAIN** RNE Radio 5 synchros. APR 10 2334 – Strong //558. [Barstow-MA]
- 639 **UnID**. APR 11 0016 – Weak unknown language with slop. Maybe Czech Republic. [Barstow-MA]
- 693 **UNITED KINGDOM** BBC Radio 5, Droitwich et al. APR 11 0017 – Good with talk about education. [Barstow-MA]
- 729 **SPAIN** RNE Radio 1 synchros. APR 11 0000 – RNE news fair on LSB. [Barstow-MA]
- 738 **SPAIN** RNE Radio 1, Barcelona. APR 11 0000 – Good with RNE news, mention of Estados Unidos. [Barstow-MA]
- 774 **EGYPT** Middle East Radio, Abis. APR 11 0016 – Fair to good peaks, over and under Spain with music program. [Barstow-MA]
- SPAIN** RNE Radio 1 synchros. APR 10 2345 – Strong with talk. [Barstow-MA]
- 783 **SPAIN** COPE, Barcelona. APR 10 2345 – Talk with Mauritania under. [Barstow-MA]

- 837 **CANARY ISLANDS//SPAIN** COPE synchros. APR 10 2332 – Good with talk //1143. [Barstow-MA]
- 855 **SPAIN** RNE Radio 1 synchros. APR 11 0000 – Good with RNE news. [Barstow-MA]
- 864 **EGYPT** ERTU, Santah. APR 11 0017 – Good and all alone with Koran program. [Barstow-MA]
- SPAIN** RNE Radio 1, Socuellamos. APR 10 2332 – Fair //855. [Barstow-MA]
- 873 **SPAIN** SER synchros. APR 11 0001 – Overall good with news and keyed teletype. [Barstow-MA]
- 882 **UNITED KINGDOM** BBC Wales, Washford, synchros. APR 10 2347 – Talk, weak to fair with slop. [Barstow-MA]
- 909 **UNITED KINGDOM** BBC Radio 5 synchros. APR 11 0001 – Good into news //693. [Barstow-MA]
- 945 **UnID.** APR 11 0001 – Weak with a music interlude and talk. UK suspected: talk seems British accented. [Barstow-MA]
- 954 **SPAIN** Onda Cero, Madrid. APR 11 0001 – Fair, pips into news. [Barstow-MA]
- 963 **UnID.** APR 11 0016 – Weak, instrumental with a female vocal, then a woman announcer. Pop music fair peak at first but it went downhill after 0016. Maybe UK. [Barstow-MA]
- 981 **ALGERIA** RTVA Chaîne 2, Algiers. APR 10 2345 – Fair with Koran with slop. [Barstow-MA]
- 999 **SPAIN** COPE, Madrid. APR 10 2344 – Weak //783. [Barstow-MA]
- 1044 **SPAIN** SER synchros. APR 11 0001 – Good with pips. Jovial men having fun, boos and laughing. [Barstow-MA]
- 1053 **UnIDs.** APR 10 2347 – Two stations with strong carriers, suspect UK and Libya. [Barstow-MA]
- 1152 **SPAIN** RNE Radio 5 synchros. APR 10 2344 – Good, talk into music //a weaker 1125. [Barstow-MA]
- 1179 **CANARY ISLANDS//SPAIN** SER synchros. APR 11 0000 – Fair peak/dominant (on LSB) with Spanish news by man. [Barstow-MA]
- 1287 **SPAIN** SER synchros. APR 10 2345 – Weak, talk //1044. [Barstow-MA]
- 1305 **SPAIN** RNE Radio 5 synchros. APR 10 2345 – Fair to a good with man and woman in a duet //1152 and 1314. [Barstow-MA]
- 1314 **SPAIN** RNE Radio 5 synchros. APR 11 0001 – Weak with pips into news //1305. [Barstow-MA]
- 1332 **UnID.** APR 10 2347 – Weak, man talking in unknown language. Possibly //1404 (Romania?). [Barstow-MA]
- 1413 **SPAIN** RNE Radio 5 synchros. APR 10 2333 – Fair with talk //1305. [Barstow-MA]

(Captures didn't cover above 1500 kHz.)



ULTRALIGHT NEWS – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
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April 2017 Kona, Hawaii Ultralight DXpedition
The first long-range test of a “Frequent Flyer” FSL Antenna
By Gary DeBock, Puyallup WA, USA April 2017



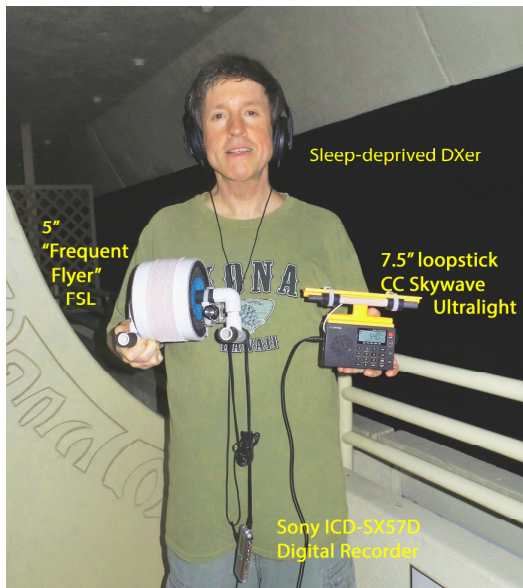
Introduction: Ever since the UK’s Graham Maynard published his innovative article about the “Ferrite Sleeve” antenna in early 2011 an enthusiastic group of DXers and tinkerers has continually refined and upgraded the design, with most of them going in the pursuit of maximum possible gain. Monster FSL models were designed with weights of up to 38 pounds (17 kg), and considering the size, weight and subversive appearance of the typical model, the general assumption was that this new type of antenna was highly unsuitable for air travel, since it would send airport security personnel into a serious panic.

This situation continued for a full 6 years, during which the FSL antenna became a star performer in the related new niche of ocean cliff transoceanic DXing. But was there another possible application for the antenna’s compact performance advantage? What if a very lightweight, high-performing model could be designed which would not only provide a huge boost in DXing gain, but fit inside a hand-carry suitcase, and routinely pass airport security screening inspections around the world? This was a tough design challenge, but well worth the effort if successful!

Since the new antenna would need the maximum possible performance for its small, lightweight size, the use of the Russian surplus 100mm x 20mm x 3mm ferrite bars was mandatory. Every possible effort would be used to make the antenna as compact and lightweight as possible, although the choice of the highest-sensitivity 1162/46 Litz wire was critical for best performance. The PVC frame would be shrunk down to the smallest practical size. Finally, in a major experimental effort here over the winter season, the first of the new 5 inch (127mm) “Frequent Flyer” FSL’s became a reality. The finished antenna had a very non-subversive appearance, and could fit inside a custom-sized plastic tote within a hand-carry suitcase. Most importantly, it could still deliver a serious amount of inductive coupling gain – roughly similar to that provided by a 4 foot (1.22m) air core box loop, but with the advantage of somewhat lower noise reception.

Because the Russian surplus 100mm x 20mm x 3mm ferrite bars are extremely scarce (without any current supply source) only five of these original “Frequent Flyer” models would be made, although alternative models using the commonly available 140mm x 8mm ferrite rods were also designed. These antennas would be somewhat heavier and larger, but these “Baby FSL” ferrite rod models could be easily assembled from parts available on eBay, fit inside the hand-carry suitcases, and still deliver a lot of DXing performance (while routinely passing airport security screening). Finally, an economic model using the commonly available 62mm x 12mm x 4mm Russian surplus ferrite bars was also designed. This lightweight FSL can be constructed for around \$65 US, and can still provide a serious DXing gain boost to a stock Ultralight radio. For want of better terms, these three classes of “Frequent Flyer” FSL antennas are called the “first class,” the “business class” and “coach class” models, with FSL sensitivity scores (ferrite length x coil diameter) of 585, 490 and 300 respectively.





From April 9-12 a Mini-DXpedition was conducted on a 6th floor oceanfront room at the Royal Kona Resort Motel in Kona, Hawaii. This was the first of many long-range DXing trips based upon the performance boost provided by the compact new antenna – which was specifically designed to easily pass through airport TSA security checkpoints. A 5 inch (127mm) "Frequent Flyer" FSL antenna was packed inside a matched-size plastic tote within a hand-carry suitcase, and breezed through TSA security screening in both the Seattle and Kona airports (without even a single question ever being asked). This was one of the "first class" Frequent Flyer models described previously, and was used to boost DX station gain on a 7.5" loopstick C.Crane "Skywave" Ultralight radio. This combination was effective enough to track down many exotic Pacific Island stations (540, 621, 1440, etc.) at S9 levels during transmitter-site sunset skip propagation into Kona, as well as Asian TP-DX of varying strength around local sunrise.

This Kona trip was primarily designed as an anniversary celebration with my wife, so before we took off I had (somewhat reluctantly) agreed that DXing would have a secondary priority to sightseeing over the four days. Because of this there were many frequencies that could not be investigated in Kona, but I knew very well which Pacific island stations were tough challenges in both North America and Japan, and I was determined to go after them with a vengeance. 540, 621 and 1440 would all receive serious attention in Kona – not because they were great challenges in Hawaii, but because most DXers in both North America and Japan needed all possible information about them if they were to have any chance of reception at all. Besides this I was eager to try my long-range luck chasing exotic Asians around local sunrise with the innovative FSL antenna, but I knew that east-west propagation was almost totally dependent upon solar activity – and as it turned out both the A and K indexes shot up after our arrival.

Overall the Kona MW propagation to the Pacific islands was exceptional around local midnight (as expected), but the sunrise propagation was somewhat challenging for long range Asians. Perhaps the biggest success of this entire trip was the interest and excitement that the "Frequent Flyer" FSL antenna series (the major experimental project here this past winter) has inspired among DXers who routinely travel to foreign countries and other faraway venues. As I write this Craig Barnes of Wheat Ridge, Colorado is conducting his own 5 inch "Frequent Flyer" FSL- based DXpedition to Hawaii. Good luck, Craig!

- 531 **AUSTRALIA** 6DL? Dalwallinu. Presumably the one with the same-sounding announcer and program as the one on 630-4QN at the time (at 1547 on 4/9; see MP3 for 630-4QN), but it didn't seem to be exactly parallel (maybe a time zone delay?)
<https://app.box.com/s/7bg1hruxrufccuys5axc4yzumexr3q36>
- 540 **WESTERN SAMOA** 2AP, Apia. This station features a lot of Samoan music (with both male and female announcers), and dominates the frequency in Kona at night as long as it transmits. Unfortunately it doesn't follow the listed PAL sign off time of 1000, but runs past this time routinely, which made it tough to track down an exact sign off time during my limited sessions. My guess is that it signs off sometime between 1030 and 1100. The following MP3 is of S9+ level Samoan Christian worship music at 0931 on 4/9. This overwhelming signal was one of the most awesome recorded during the entire DXpedition
<https://app.box.com/s/8ejvx8s7udh5ibtqymtxs5ew65mquqcl>. Energetic Samoan music at 0956 on 4/12. This is typical of the station's music format
<https://app.box.com/s/tbo84s7gb2jci6gfkawo7rsqmpkyp3>. More typical Samoan choral music at 0835 on 4/11 – a staple of programming in the station's format
<https://app.box.com/s/z8ecbv14fyqx0tpjt2ahy2r7omhst4>. Relaxing Samoan choral music at 1013 on 4/12
<https://app.box.com/s/v50700yxvioj14qkkdgh9omdx1hf0yrl>. The usual male announcer in Samoan at 1028 on 4/12
<https://app.box.com/s/03xy87zls2aqz52oiz8pbobi9f433rt>. The usual female announcer in Samoan at 0856 on 4/11
<https://app.box.com/s/6rkd8ckcd1005fyc5itupxowaf6jqhcx>
- 558 **FIJI** Naulu, Radio Fiji One. Somewhat of an underperformer considering its South Pacific location and (nominal) 10 kW power level. My guess is that the station has some transmitter and/or antenna issues. Here is some fair level male speech with island music at 1001 on 4/9, which was the strongest signal it managed during the entire trip
<https://app.box.com/s/ly0u5y34rg85e1aotimyjij1bksunsd3>
UnID-TP. Once again, this weak signal sounded a lot like the 630-4QN program at the time (1548 on 4/11), so my guess is that 6WA in Wagin, Australia is the most likely possibility
<https://app.box.com/s/10plmz0gumpjk7ymwi6ay44oqzo67ong>
- 603 **REP KOREA** HLSA, Swoul, KBS2. One of the common Asians which ran the gauntlet of dicey solar activity. It was fairly good at 1521 on 4/12, but was MIA during a couple of days
<https://app.box.com/s/9s3g67w2j5ge9ggsj31kwuwnqmfdiyh9>
- 621 **AUSTRALIA** 3RN, Melbourne. This LR network station would start to fade in just when Radio Tuvalu was about to sign off (around 1000), although it never provided any serious competition for the exotic station. This MP3 was made just after Tuvalu's sign off at 1006 on 4/9
<https://app.box.com/s/x0k4bnu3jmytorhzhphz5a6nqyet4h5r>
TUVALU Funafuti, Tuvalu Radio. A very tough station to track down on the mainland, but certainly a "piece of cake" in Kona. Routinely has sign off at 1003, preceded by island choral music and the national anthem (sung by the same choral group). Around 0950 a female announcer begins the routine by giving a monolog news broadcast about 5 minutes long, typically followed by an island music song right before the fixed 5-minute sign off routine. The latter two features are included in the following 8 minute recording (at near S9 strength) made at 0955 on 4/10
<https://app.box.com/s/3z2q1915afhhi6kmjnsvos4p9q2j56y>. The usual female announcer with her 5 minute news broadcast at near S9 strength at 0955 prior to the sign off routine on 4/11. The lady giving the correct pronunciation for "Tuvalu" is at the 11 second point
<https://app.box.com/s/knpjrxdb40p7hfe9xx7dlwyz3fzf8j3>. Around five minutes of typical Island choral music at good-level strength at 0921 on 4/9
<https://app.box.com/s/0vouj030pvoxy96o7xtvg45zq0uxed1n>. Here is a different recording of the female-announced news broadcast just prior to the sign off routine at 0956 on 4/9 (at very good strength)
<https://app.box.com/s/u0rg1xlye0le5jth12x8wccw6nc5sv99>
- 630 **AUSTRALIA** 4QN, Townsville. This 50 kW station was far and away the strongest Australian signal heard throughout the trip. Unfortunately it wasn't in the same time zone as follow LR network stations on 531 and 558 in Western Australia, making parallel checks seem dubious. Here is a typical signal at 1543 on 4/9
<https://app.box.com/s/j82og05m8v4umqacm78e41cs1xht21to>
- 657 **DPR KOREA** Pyongyang, Pyongyang BS. This bizarre station was far and away the strongest Asian heard during the trip – almost like it was a South Pacific semi-local. When solar activity cooled off it could blast in with serious power, such as at 1555 on 4/9
<https://app.box.com/s/9exi01zvab4y2fjemxbqhz6ma1q3gv8o>. For those who really don't mind wacky-sounding music (this is your final warning), the 3 minute long version of this signal is posted at
<https://app.box.com/s/m69fuqcxrjul7y06wu5f5ge63bap3cka>
- 693 **UnID-TP**. This mystery signal showed up at 1604 on 4/9, after NHK2 (JOAB) sign off. Obviously there is male speech and some kind of backup music at various times, but I'm totally unfamiliar with stations on this frequency (except for JOAB). Any hints or suggestions? This station only showed up on 4/9; rising solar activity brought in only 690-Honolulu splatter on the other three days
<https://app.box.com/s/8yabwqs7llyac52tsfv4taannfuggedq>
- 774 **JAPAN** JOUB, Akita, NHK2. Solar activity limited the usual potent signals from this NHK big gun, but it did manage fair strength at 1505 on 4/11
<https://app.box.com/s/uigxcvv382u7ryq1k1xqcsvw7uu5bd9>
- 972 **REP KOREA** HLCA, Dangjin. Another Asian big gun taking somewhat of a hit from unfavorable solar activity at 1517 on 4/12
<https://app.box.com/s/uigxcvv382u7ryq1k1xqcsvw7uu5bd9>
- 1017 **TONGA** A3Z, Nuku'alofa. Island music at very good strength at 0944 on 4/9; this station was strong every evening at this same time
<https://app.box.com/s/6cq35g3lio356v4hserwpehi5o3cofcc>. Live play-by-play of a sports competition at 1015 on 4/12, with a "goal" at the 10 second point in the recording
<https://app.box.com/s/umg0rj0as6h97wmwqsrqni57scs1woee>. The usual male announcer in the Tongan language at very good strength at 0835 on 4/11
<https://app.box.com/s/4ngp7fhu3l6rmvqxnkqftu9nzm3sn>. The same Tongan male announcer at good level at 0953 on 4/11, obviously on "island time," with very long pauses in his speech pattern
<https://app.box.com/s/4y59xjxk0d24kvtbab8yjvnc5q1gc71>
- 1035 **NEW ZEALAND** Wellington, Newstalk ZB. Received late in sunrise enhancement at 1611 on 4/12, this was a rather modest signal from the Kiwi big gun, which never seemed to get anywhere close to its Oregon cliff strength during the entire trip
<https://app.box.com/s/1lwotewd38bn4z26l786ihjv5eyuklfz>
- 1098 **MARSHALL ISLANDS** V7AB, Majuro, Radio Marshalls. One of the regular Pacific island stations received in Kona, and one of the best bets for Mainland reception. The frequency has very little QRM, although Newstalk ZB could be weakly received in between the island music broadcasts around 0900. Strong island music at 0955 on 4/9 (its best performance during the trip)
<https://app.box.com/s/cmqbngvvtfnvkm201jqlpcbws4te5wk5>. More energetic island music at 0958 on 4/9
<https://app.box.com/s/nvljx11f8tvrnr2bhyelci4fsxjwff93>. Typical island music on the same night at 0948 (4/9)
<https://app.box.com/s/znb2botiuzq7201xponc35c7o06blv>
- NEW ZEALAND** Christchurch, Newstalk ZB. Heard only once in between island songs on V7AB (at 0957 on 4/9); and never really strong enough to compete for the frequency with Radio Marshalls
<https://app.box.com/s/x115e35rxkzgx6wxrnome06r9g2122j5>

- 1440 **KIRIBATI** T3K1, Betio, Radio Kiribati. Because of its domestic frequency this obscure station is another of the toughest Pacific island stations (and countries) to receive on the Mainland, but some very helpful identity clues were discovered in Kona (where the station is a breeze to hear). The station routinely signs off at 0936 each evening, with a very loud 1000 Hz audio tone right before it cuts power. The sign off routine includes station ID's in both the local language and English around 0932 prior to the choral music national anthem, although because of her heavy accent the fact that the female announcer is talking in English might well go unnoticed. The full sign off routine is included in the following MP3, preceded by an Island music number (during which a 1440 Spanish pest attempts a run on the frequency, only to be immediately drowned out) <https://app.box.com/s/s9sgwesnmi3ljff1fkuhlsb08st7y5y>. The station uses a distinctive 4-bong time signal on the half hour, as in this recording made at 0929 (at the 35 second point). <https://app.box.com/s/s6n49yjqreedykdu2am76ji7qqj9mvyu>. The American country music format can be heard prior to the 4-bong time signal. Prior to the sign off routine this station also uses its female announcer to give a final news update (like 621-Tuvalu). This recording is of such a news update at 0925 on 4/11, with several mentions made of the American president <https://app.box.com/s/a1zx6jrlrvhguyzjfy6b5dglwlfjfciej>. This station plays a lot of American country music (of all formats). Here is typical programming at 0912 on 4/11 <https://app.box.com/s/fdtbl3tk01yz7u2y5lb7xyaauc33km8>
- 1566 **CHINA** Yanbian (Presumed location) jammer. Because of Chinese inflection this is the apparent co-channel of HLAZ in the same recording at 1609 on 4/9; it was also received at 1600 on 4/10 with Chinese 5+1 time pips (thanks to Chris Kadlec for his assessment) <https://app.box.com/s/m66yi638bm6r1vrigiewo9680yuydvk6>
- REP KOREA** HLAZ, Jeju, FEBC. Fairly regular with its Chinese Christian service around 1530 each morning in Kona, but never at very great strength (possibly due to unfavorable solar activity). Here at 1609 on 4/9 it is the music station playing the Chinese version of "I Would Rather Have Jesus," in a mix with the (presumed) Mainland Chinese Yanbian Jammer <https://app.box.com/s/m66yi638bm6r1vrigiewo9680yuydvk6>
- 1593 **CHINA** Changzhou, CNR1. Good strength at 1525 on 4/12, with co-channel NHK2 quite a bit weaker underneath <https://app.box.com/s/3shbri3d8hfpaej6kvzyklkz6k1oq4j>
- JAPAN** NHK2 synchros. In a mix with CNR1 at about an equal level around 1520 on 4/12 <https://app.box.com/s/my9bdqgobvo4iuvgd3hhrkh9yap28xgr>



The "Business Class" Frequent Flyer FSL antenna



SPORTCHANNELS IRCA – Compiled by: **Eric Bueneman (NØUIH)**
E-mail: n0uiheric@gmail.com

Welcome to another edition of SportChannels! Baseball season is under way, and we're now taking a look at the network lists from Major League Baseball. The first divisions we'll be featuring network lists are from the Central Division of the National League. The NL Central features the defending World Champion Chicago Cubs; it's also the division my hometown team, the St. Louis Cardinals, play in. Flagship stations are in **boldface** type, Spanish flagships in **boldface italics**.

NATIONAL LEAGUE – CENTRAL DIVISION

CHICAGO CUBS Pat Hughes, Ron Coomer, Web: cubs.com

- | | | | |
|-------------------------------|---------------------------|-------------------------------|------------------------------------|
| AM | 1350 KRNT Des Moines, IA | 1570 KMCD Fairfield, IA | 98.3 WSVZ Tower Hill, IL |
| 670 WSCR Chicago, IL | 1380 KCIM Carroll, IA | 1570 KVTK Vermillion, SD | 101.1 W266CS Traverse City, MI (2) |
| 800 KXIC Iowa City, IA | 1400 KADR Elkader, IA | 1590 KWBG Boone, IA | 102.7 WAOR Ligonier, IN |
| 1050 WDZ Decatur, IL | 1400 WBAT Marion, IN | 1650 KCNZ Cedar Falls, IA | 103.1 WAKO-FM Lawrenceville, IL |
| 1110 WJML Petoskey, MI | 1440 WGEM Quincy, IL | 1660 WQLR Kalamazoo, MI | 104.1 K281CJ Omaha, NE (3) |
| 1140 KXST North Las Vegas, NV | 1440 WROK Rockford, IL | FM | 104.3 W282AL Kewanee, IL (4) |
| 1150 KCPS Burlington, IA | 1450 WFMB Springfield, IL | 93.5 KJOC Bettendorf, IA | 104.9 WAXI Rockville, IN |
| 1210 WJNL Kingsley, MI | 1450 WKEI Kewanee, IL | 93.7 KNTK Firth, NE | 105.3 KNOD Harlan, IA |
| 1240 WFVN Fort Myers, FL* | 1450 WASK Lafayette, IN | 94.3 WSSQ Sterling, IL | 105.9 WGKC Mahomet, IL |
| 1270 WNOG Naples, FL | 1490 WDBQ Dubuque, IA | 96.5 WZPN Farmington, IL | 106.9 KUDV Bloomfield, IL |
| 1300 WFRX West Frankfort, IL | 1490 KOMJ Omaha, NE | 97.7 W249BP Boonville, IN (1) | |
| 1330 WRAM Monmouth, IL | 1540 WBNL Boonville, IN | | |

Note: * Cubs' list has calls as WSFX

Relays: 1) WBNL 1540, 2) WJML 1110/WJNL 1210, 3) KOMJ 1490, 4) WKEI 1450

CINCINNATI REDS Marty Brennaman, Thom Brennaman, Jeff Brantley, Jim Kelch, Doug Flynn, Web: reds.com

- | | | | |
|-------------------------------|----------------------------|----------------------------|--------------------------------------|
| AM | 900 WLSI Pikeville, KY | 1220 WSLM Salem, IN | 1240 WSFC Somerset, KY |
| 580 WCHS Charleston, WV | 920 WTCW Whitesburg, KY | 1230 WCDS Glasgow, KY | 1240 WHIZ Zanesville, OH |
| 600 WKYH Paintsville, KY | 970 WATH Athens, OH | 1230 WHOP Hopkinsville, KY | 1250 WCHO Washington Court House, OH |
| 680 WHBE Newburg, KY | 990 WTIG Massillon, OH | 1230 WIRO Ironton, OH | |
| 700 WLW Cincinnati, OH | 1130 WFNF Brazil, IN | 1230 WYTS Columbus, OH | 1260 WNXT Portsmouth, OH |
| 800 WVHU Huntington, WV | 1150 WLOC Munfordville, KY | 1240 WFTM Maysville, KY | 1270 WXGO Madison, IN |
| 870 WPWT Colonial Heights, TN | 1150 WIMA Lima, OH | 1240 WPKE Pikeville, KY | 1270 WAIN Columbia, KY |

1270 WILE Cambridge, OH
1270 WQTT Marysville, OH
1290 WVOW Logan, WV
1300 WLXG Lexington, KY
1340 WXFN Muncie, IN
1340 WEKY Richmond, KY
1360 WMOV Ravenswood, WV
1370 WGCL Bloomington, IN
1370 WGOH Grayson, KY
1390 WMPO Middleport, OH
1400 WCYN Cynthiana, KY
1400 WFTG London, KY
1400 WIEL Elizabethtown, KY
1400 WBTH Williamson, WV
1410 WING Dayton, OH
1420 WTCR Kenova, WV
1430 WXAM Buffalo, KY
1430 WFOB Postoria, OH
1440 WPGW Portland, IN

1450 WWKU Bowling Green, KY
1450 WNOS New Bern, NC
1460 WEKB Elkhorn City, KY
1490 WKBV Richmond, IN
1490 WBEX Chillicothe, OH
1490 WMOA Marietta, OH
1550 WCVL Crawfordsville, IN
1580 WAMW Washington, IN
1580 WLPK Connersville, IN
1590 WSRW Hillsboro, OH
1600 WZZW Milton, WV

FM
92.1 W221CS Crawfordsville, IN (1)
92.5 W223CU Richmond, KY (2)
92.7 W224BR Chillicothe, OH (3)
93.5 WAIN-FM Columbia, KY
94.3 WKKI Celina, OH
94.5 WYDB Englewood, OH*
94.9 W235BW Nashville, TN (4)

95.3 WNDI-FM Sullivan, IN
95.3 W237BV Hopkinsville, KY (5)
95.9 WAMW-FM Washington, IN
95.9 W293BP Pikeville, KY (6)
96.1 W241CD Bloomington, IN (7)
97.1 W246CJ Jacksonsville, NC (8)
97.1 W246CE Athens, OH (9)
97.9 W250BZ Terre Haute, IN (10)
97.9 WSLM-FM Salem, IN
98.1 W251AI Pikeville, KY (11)
99.7 WUGO Grayson, KY
100.1 WMDJ-FM Allen, KY
100.5 WSJD Princeton, IN
100.7 W264BY Kingsport, TN (12)
100.9 WPGW-FM Portland, IN
100.9 W265CH Grayson, KY (13)
101.3 WFMG Richmond, IN
101.5 WVKB Vine Grove, KY**
101.5 W268CC Hillsboro, OH (14)

101.7 W269DD Munfordville, KY
101.9 WVOW-FM Logan, WV
102.3 WCYN-FM Cynthiana, KY
102.3 WMTD-FM Hinton, WV
102.5 W273BC Williamson, WV (15)
102.7 W274BQ Bowling Green, KY (16)
102.9 W275AJ Muncie, IN (17)
102.9 WBUZ-HD2 La Vergne, TN
103.7 W279CE Middleport, OH (18)
103.9 WRBI Batesville, IN
104.3 W282BZ Elkhorn City, KY (19)
105.5 WMVR-FM Sidney, OH
105.7 WHBE-FM Eminence, KY
106.1 WMOR-FM Morehead, KY
106.7 WZCB Dublin, OH***
106.7 W294AF Ripley, WV (20)
106.9 W295BT Connersville, IN (21)
107.9 W300CB Cambridge, OH (22)

Notes: * Reds' list has calls as WKFS, ** Reds' list has calls as WTHX, *** Reds' list has calls as WCGX

Relays: 1) WCVL 1550, 2) WEKY 1340, 3) WBEX 1490, 4) WBUZ-HD2 102.9, 5) WHOP 1230, 6) WLSI 900, 7) WGCL 1370, 8) WNOS 1450, 9) WATH 970, 10) WFNF 1130, 11) WPKE 1240, 12) WPWT 870, 13) WGOH 1370, 14) WSRW 1590, 15) WBTH 1400, 16) WWKU 1450, 17) WXFN 1340, 18) WMPO 1390, 19) WEKB 1460, 20) WMOV 1360, 21) WLPK 1580, 22) WILE 1270

MILWAUKEE BREWERS Bob Uecker, Jeff Levering, Lane Grindle, Web: brewers.com

AM
550 WSAU Wausau, WI
570 WMAM Marinette, WI
580 WKTY La Crosse, WI
590 WJMS Ironwood, MI
620 WTMJ Milwaukee, WI
940 WFAW Fort Atkinson, WI
960 WTCH Shawano, WI
1100 WISS Berlin, WI
1150 WHBY Kimberly, WI
1230 WCLO Janesville, WI
1240 WJMC Rice Lake, WI

1240 WOMET Manitowoc, WI
1310 WIBA Madison, WI
1330 WHBL Sheboygan, WI
1350 WPDR Portage, WI
1360 WTAQ Green Bay, WI
1400 WRDB Reedsburg, WI
1430 WBEV Beaver Dam, WI
1450 KFIZ Fond du Lac, WI
1450 WRCO Richland Center, WI
1490 WIGM Medford, WI
1550 WEVR River Falls, WI
1590 WPVL Platteville, WI

FM
92.3 WRLS Hayward, WI
92.7 W224BL Janesville, WI (1)
92.7 WDUX-FM Waupaca, WI
93.9 WDOR-FM Sturgeon Bay, WI
94.3 WQPC Prairie du Chien, WI
95.1 W236CO Marshfield, WI (2)
96.1 W241CJ Shawano, WI (3)
96.5 WHOH Rhinelander, WI
96.7 K244FM La Crosse, WI (4)
97.5 WTAQ-FM Glenmore, WI

98.3 WCQM Park Falls, WI
98.7 W254CS Oshkosh, WI (5)
99.7 WWIS-FM Black River Falls, WI
99.9 WSAU-FM Rudolph, WI
106.1 W291CD Appleton, WI (6)
106.1 WACD Antigo, WI
106.3 WEVR-FM River Falls, WI
106.7 WATQ Chetek, WI
107.3 WNXR Iron River, WI
107.7 W299CD Richland Center, WI (7)

Relays: 1) WCLO 1230, 2) WSAU 550, 3) WTCH 960, 4) WKTY 580, 5) WISS 1100, 6) WHBY 1150, 7) WRCO 1450

PITTSBURGH PIRATES Greg Brown, Joe Block, Bob Walk, Steve Blass, Web: pirates.com

AM
590 WMBS Uniontown, PA
600 WFRM Coudersport, PA
630 WJAW Saint Mary's, WV
680 WISR Butler, PA
680 WKAZ Charleston, WV
850 WNTJ Johnstown, PA
930 WRVC Huntington, WV
990 WLLI Somerset, PA
1050 WLYC Williamsport, PA*
1150 WHUN Huntingdon, PA

1160 WCCS Homer City, PA
1230 WBVP Beaver Falls, PA
1230 WTVI Titusville, PA
1270 WCBC Cumberland, MD
1280 WJST New Castle, PA
1310 WNAE Warren, PA**
1330 WETZ New Martinsville, WV
1340 WTRN Tyrone, PA
1390 WNIO Youngstown, OH
1390 WKLP Keyser, WV
1400 WJET Erie, PA

1400 WBBB Wheeling, WV
1420 WGED Du Bois, PA
1430 WEIR Weirton, WV
1430 WVAM Altoona, PA
1440 WAJR Morgantown, WV
1450 WFRA Franklin, PA
1450 WJPA Washington, PA
1450 WQWK State College, PA
1460 WMBA Ambridge, PA
1480 WCNS Latrobe, PA
1490 WESB Bradford, PA

1490 WMGW Meadville, PA
1490 WTCS Fairmont, WV
1540 WECZ Punxsutawney, PA

FM
93.7 KDKA-FM Pittsburgh, PA
96.7 WLLF Mercer, PA
97.5 WDDH Saint Mary's, PA
104.1 WETT Bridgeport, WV
106.3 WCDK Cadiz, OH

Notes: * The Pirates' list has the frequency as 92.7 MHz, ** The Pirates' list has a relay on 102.7, although there's no listing on Doug Smith's list or Radio Locator

SAINT LOUIS CARDINALS John Rooney, Mike Shannon, Rick Horton, no Spanish language PBP personnel info available, Web: cardinals.com

AM
540 WKFN Clarksville, TN
680 WMFS Memphis, TN
690 KAFN Benton, AR
730 WFMW Madisonville, KY
740 WVLN Olney, IL
790 KKON Kealahou, Hawaii, HI
790 WMC Memphis, TN
800 KAGH Crossett, AR
800 KVOM Morrilton, AR
850 KHLO Hilo, Hawaii, HI
860 WSON Henderson, KY
870 WTIM Assumption, IL
870 KAAH Bethany, MO
880 WJZR Highland, IL*
980 KSGM Chester, IL
990 KRMO Cassville, MO
1050 KSIK Sedalia, MO
1070 KHMO Hannibal, MO
1120 KMOX Saint Louis, MO
1220 WLPO La Salle, IL
1220 KJAN Atlantic, IA
1230 WHCO Sparta, IL
1230 WJBC Bloomington, IL
1230 KZYM Joplin, MO
1230 WBBZ Ponca City, OK
1240 KTLO Mountain Home, AR
1240 KWAK Stuttgart, AR
1240 WTAX Springfield, IL
1240 KNEM Nevada, MO
1250 KBTC Houston, MO

1280 KCOB Newton, IA
1290 WIRL Peoria, IL
1310 WDXI Jackson, TN
1340 KBTA Batesville, AR
1340 WJPF Herrin, IL
1340 WNBS Murray, KY
1340 KSMO Salem, MO
1340 KXEO Mexico, MO
1390 KCBC Enid, OK
1400 WGIL Galesburg, IL
1400 KREF Norman, OK
1400 KWON Bartlesville, OK
1420 WINI Murphysboro, IL
1430 WYMC Mayfield, KY
1450 WKEI Kewanee, IL
1450 WAOV Vincennes, IN
1450 KIRX Kirksville, MO
1450 KWPM West Plains, MO
1450 KGFF Shawnee, OK
1450 WTRO Dyersburg, TN
1460 WROY Carmi, IL
1460 KXNO Des Moines, IA
1470 KGND Vinita, OK
1490 WDAN Danville, IL
1490 WTUP Tupelo, MS
1490 WVBG Vicksburg, MS
1500 WMJL Marion, KY
1500 KPGM Pawhuska, OK
1520 WLUV Loves Park, IL
1540 WSMI Litchfield, IL
1550 KESJ Saint Joseph, MO

1560 WBYS Canton, IL
1570 WTAY Robinson, IL
1570 WTRB Ripley, TN
1580 KTGR Columbia, MO

FM
92.3 KSAR Salem, AR
92.5 KPPL Poplar Bluff, MO
92.7 KASR Villonia, AR
92.9 WSEI Olney, IL
92.9 WMFS-FM Bartlett, TN
93.3 WQTY Linton, IN
93.3 K227CQ Bartlesville, OK (1)
93.5 W228DC Carbondale, IL (2)
93.5 WSJK Tuscola, IL
93.7 W229BO Galesburg, IL (3)
93.9 WCEZ Carthage, IL
93.9 W230BQ Bruceville, IN (4)
93.9 W230BN Mayfield, KY (5)
93.9 KSSZ Fayette, MO
94.1 WMIJ-FM Mount Vernon, IL
94.3 KATI California, MO
94.9 W235AC Madisonville, KY (6)
95.1 KMAQ-FM Maquoketa, IA
95.5 KAAH-FM Bethany, MO
95.7 WSEY Oregon, IL
95.9 KWHF Harrisburg, AR
95.9 KCOB-FM Newton, IA
95.9 WGGY Wickliffe, KY
95.9 KKBL Monett, MO
96.1 W241CF Taylorville, IL (7)
96.1 KITO Vinita, OK

96.5 W243CU Henderson, KY (8)
97.3 KYRX Marble Hill, MO
97.5 KNMO Nevada, MO
97.5 KOEA Doniphan, MO
97.7 KOTM Ottumwa, IA
97.9 KBXB Sikeston, MO
97.9 KFBD Waynesville, MO
98.5 WQKZ Ferdinand, IN
98.5 KWKJ Windsor, MO
98.5 K253AY Norman, OK (9)
98.9 WHQQ Neoga, IL
99.1 KMA-FM Clarinda, IA
99.1 WCBF-FM Grand Rivers, KY
99.3 KHUC Pine Bluff, AR
99.3 WZLT Lexington, TN
99.7 KWPS-FM Caddo Valley, AR
99.7 K259BF Kirksville, MO (10)
99.7 KTRR-FM Saint James, MO
99.9 KIRK Macon, MO
100.3 KURM-FM Gravette, AR
100.3 W262BI Robinson, IL (11)
100.3 KUKU Willow Springs, MO
100.5 KMEM Memphis, MO
100.7 W264CK Clarksville, TN (12)
101.1 K266AN Atlantic, IA (13)
101.3 WMSK-FM Sturgis, KY
101.3 KTXR Springfield, MO
101.7 W269CE Dyersburg, TN (14)
102.1 KJFM Louisiana, MO
102.1 KTUI-FM Sullivan, MO
102.3 WEBQ-FM El Dorado, IL

102.3 WRMJ Aledo, IL	103.7 KJEL Lebanon, MO	104.7 WMUF-FM Paris, TN	105.9 WOKZ Fairfield, IL
102.5 KEZK-HD3 Saint Louis, MO	103.9 W280EG Peru, IL (16)	104.9 KAGH-FM Crossett, AR	106.9 W295BQ Litchfield, IL (18)
102.7 W274BM Peoria, IL (15)	104.1 KPOC-FM Pocahontas, AR	104.9 KYTN Union City, TN	107.1 WEAL Lynnville, IL
103.1 KFFA-FM Helena, AR	104.3 W282AL Kewanee, IL (17)	105.1 WGEM-FM Quincy, IL	107.5 W298AP Springfield, IL (19)
103.1 KHGG-FM Waldron, AR	104.3 KDBB Bonne Terre, MO	105.3 WJLT Evansville, IN	107.5 W298CD Shelbyville, IL (7)
103.5 WXLX Christopher, IL	104.7 KRES Moberly, MO	105.5 KYEL Danville, AR	

Note: * denotes only select games broadcast in Spanish

Relays: 1) KWON 1400, 2) WINI 1420, 3) WGIL 1400, 4) WAOV 1450, 5) WYMC 1430, 6) WFMW 730, 7) WTIM 870, 8) WSON 860, 9) KREF 1400, 10) KIRX 1450, 11) WTAY 1570, 12) WKFN 540, 13) KJAN 1220, 14) WTRO 1450, 15) WIRL 1290, 16) WLPO 1220, 17) WKEI 1450, 18) WSMI 1540, 19) WTAX 1240

That's all for this edition of SportChannels; in the next edition, we'll feature the American League Central. 73 and play hard!



GEOMAGNETIC INDICES – Compiled by: Phil Bytheway

E-mail: phil_tekno@yahoo.com

Geomagnetic Summary March 31 2017 through April 30 2017

Tabulated from email status daily (K @ 0000 UTC). I botched the 3/31 entry last time, this time I've included the correct numbers.

Date	Flux	A	K	Space Wx											
3/31	91	28	4	minor, G1	4/11	75	12	2	no storms	4/22	84	54	6	moderate, G2	
4/1	101	16	3	minor, R1		12	71	6	0	no storms	23	83	41	4	moderate, G2
2	112	8	1	moderate, R2		13	74	5	2	no storms	24	80	20	3	no storms
3	108	4	1	moderate, R2		14	73	14	2	no storms	25	81	12	2	no storms
4	94	20	3	minor, G1		15	73	6	1	no storms	26	80	9	2	no storms
5	85	10	4	no storms		16	75	4	1	no storms	27	78	7	2	no storms
6	76	7	1	no storms		17	75	4	1	no storms	28	78	6	2	no storms
7	74	10	4	no storms		18	80	7	3	no storms	29	77	6	2	no storms
8	73	16	4	no storms		19	81	15	3	minor, G1	4/30	77	6	2	no storms
9	74	18	1	minor, G1		20	81	30	3	moderate, G2					
4/10	74	5	2	no storms	4/21	82	18	5	minor, G1						

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level

IRCA Slogans List (January 2017)

This completely revised Slogans List includes radio slogans from the US and Canada (over 4500). The 2017 IRCA Slogans List is posted on the IRCA website for all to download. The link is: <http://www.ircaonline.org/slogans.htm>

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

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

IRCA TIS/HAR LIST (Winter 2016)

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

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

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

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

IRCA Mexican Log, 20th Edition (Winter 2015)

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