

October 5, 2002 - Volume 40, Number 4 - Edition 1261 - ISSN 899-9733

### Publisher's Notes

Conditions are definitely heating up: West Coast DXers are hearing Trans-Atlantics; I had a tentative reception of RVC-530 the other night—what are YOU hearing? **Chuck Taylor** is still updating the 2002 IRCA E-mail Directory, so if you want to be included, contact him at [ctaylor@del.ibt.gov](mailto:ctaylor@del.ibt.gov). Welcome to new members **Doug Chandler** of Washington, UT and **John Kucera** of Boyne City, MI! -- RT

### Positions Vacant

We need a manager for IRCA's Reprints Service; maintain the archive of IRCA's reprints articles, and mail copies per request. The Sports Editor position is still open, although we have some NFL station lists in this issue; compile lists of stations and networks carrying sports events and/or teams. For more information, contact **Lee Freshwater** at [ENGWTRS@aol.com](mailto:ENGWTRS@aol.com).

### DX Tests are coming

**PLEASE NOTE:** Even if you don't hear a test, be sure and drop a card, letter, or e-mail to the station personnel, and thank them for going to the trouble to run a test! Please remember, what's listed as being on, say, Monday morning "may" be what you think of as Sunday night! (THE TIME OF THE TEST IS IN THE LOCAL TIME OF THE STATION)

**Monday, October 21, 2002** - WLCR-1470, Louisville, KY (COL Shepherdsville, KY) will conduct a DX test from 3:00-4:00 am EDT. The station's regular programming is EWTN - their slogan is "Louisville's Catholic Radio". IDs will be played in both Morse code and voice 0 the IDs will use a 1 kHz tone at 5 wpm sent every 5 minutes. The station's power will be 750 W (not sure of pattern). Reception reports (with return postage) may be sent to:

Vince Heuser  
WLCR-AM  
3600 Goldsmith Lane  
Louisville, KY 40220

E-MAIL:  
[heuser@iglou.com](mailto:heuser@iglou.com)  
WEB:  
<http://www.wlcr.net>



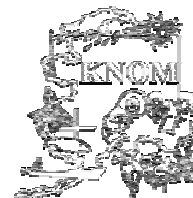
(Arranged for the IRCA CPC)

**Saturday, October 26, 2002** - KNOM-780, Nome, AK will conduct a DX test from 12:00am-1:00am Alaska Local Time (e.g. 4-5 am EDT). From Les Brown, who arranged the test: "We are currently planning to go from nighttime power (14 kW) up to 25 kW within a minute or two after midnight on 10/26, a Saturday. As I won't be here, I'll set it up with a regular operator to make the change as soon as the station goes into AP network news. The news ends at 12:05 and is followed by lengthy weather forecasts for various Alaska regions, typically ending around 12:09. Programming will be Polish polkas from then until the next newscast at

1 AM with a clear ID between every programming item. We'll run our normal public service stuff (we are non-commercial) along with time and temperature checks. Morse IDs will be frequent." Also - Les mentions that the station will stay at 25 kW until 6 am Alaska Time. Reception reports (with return postage) may be sent to:

Les Brown  
KNOM-AM  
P.O. Box 988  
Nome, AK 99762

EMAIL: [rhn@nook.net](mailto:rhn@nook.net)  
WEB: <http://www.knom.org>



(Arranged by **Les Brown** for the benefit of all DXers)

**Saturday, November 2, 2002** - WDFB-1170, Danville, KY (COL Junction City, KY) will conduct a DX test from 12:00am-?? EST. The station's regular format is Christian; they go by "WDFB Christian Radio". Songs such as "Amazing Grace" "Sweet Beulah Land" and "My Country, My Flag (by the Hoppers)" will be played, along with voice and/or Morse code IDs. Reception reports (with return postage) may be sent to:

WDFB Christian Radio  
P.O. Box 106  
Danville, KY 40423-0106

EMAIL: [music@searnet.com](mailto:music@searnet.com)  
WEB: <http://www.wdfb.com>  
ICQ# 38796683



(Arranged for the IRCA CPC)

If you try for (or hear) any of these tests, PLEASE post a message letting me know, and please, drop the station personnel a note, via e-mail or snail mail, thanking them for running the test! **Lynn** ([ircamember@ircaonline.org](mailto:ircamember@ircaonline.org))

### BROADCASTING INFORMATION

Editor: Lee J. Freshwater - 414 SE 3rd St. - Ocala, FL 34471  
E-mail: [ENGWTRS@aol.com](mailto:ENGWTRS@aol.com)

COMPLETE LIST AVAILABLE AT [HTTP://WWW.GEOCITIES.COM/AMLOGBOOK/MAIN.HTM](http://WWW.GEOCITIES.COM/AMLOGBOOK/MAIN.HTM)

	CALL CHANGES	NEW
	OLD CALL	
850	WSPO - JOHNSTOWN, PA	WLYE
920	WCHR - TRENTON, NJ	WPHY
1040	WJHR - FLEMINGTON, NJ	WCHR
1130	KZKL - MILAN, NM	KRKE
1290	WKNE - KEENE, NH	WKBK
1340	WXXR - CULLMAN, AL	WFMH
1400	KVOP - PLAINVIEW, TX	KREW
1460	WFMH - CULLMAN, AL	WMCJ

FREQ.	CALL - CITY	FORMAT CHANGES	NEW INFO
920	WYOS - CORTLAND, NY		NEWS-TALK
970	KOVO - PROVO, UT		SPORTS // KZNS
1340	KCBL - FRESNO, CA		ADDS FOX - SPORTS
	WALL - MIDDLETOWN, NY		TROPICAL // WOEK
1360	WKAT - NORTH MIAMI, FL		CLASSICAL
1390	WEOK - POUGHKEEPSIE, NY		TROPICAL

1400 KVBL – VISALIA, CA ADDS FOX - SPORTS // KCBL  
 1490 WUSS – PLEASANTVILLE, NJ R&B OLDIES - ABC  
 1500 WPJX – ZION, IL CHILDRENS - R. DISNEY  
 1550 WSHN – FREMONT, MI REPORTED SILENT  
 1560 WAOA – MELBOURNE, FL ADLT STNDS

TECHNICAL CHANGES

1090 KTNS – OAKHURST, CA MOVES TO 1060 KHZ.

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 -Send your Info to me at : [ENGWTRS@AOL.COM](mailto:ENGWTRS@AOL.COM) ....73's to you all. 9/29 0800 fresh  
 Deadlines are SUNDAY @ 0800.  
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**WESTERN DX ROUNDUP**  
*Editor: Nancy Johnson –265 Waterton Way- Billings, MT 59102-7755*  
 E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Each Friday. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (FA) Frank Aden-Boise, ID N7sok@aol.com  
 FRG-7 (modified), Uniden CR-2021, DX 398, Drake R8, Radio Shack  
 TRF (modified) 50' NW-SE LW, 110' NE-SW LW, 180' L shaped LW,  
 4' box loop, 4' Wedge loop, MW-1 loop with 4' box loop
- (GL) Gary Larson-2806 Lincoln-Burbank, CA 91504
- (PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138-0843 mwdxer@webtv.net  
 Drake R8, EWE antenna, 1500' Eastern Beverage, 400' NNW term.  
 wire
- (AWP) Art Peterson-851 31st St.-Richmond, CA 94804  
 Bendix MN-26C and Radio West loop
- (DP) Doug Pifer-3410 Marion St. SE-Albany, OR 97321 oregon4wd@attbi.com  
 Yaesu FRG-7000, Kiwa loop
- (RT) Rich Toebe-2103 Sargent Ct.-Davis, CA 95616 richtoebe@jps.net  
 GE Superadio III, Delco AM-FM-CD in Pontiac

OF SPECIAL INTEREST

- 1060 KTNS CA, Oakhurst 9/27 2006 news, weather for Mariposa area, mention of  
 sponsors, call ID, into NOS music. Fair signal, some KTCT slop. This station  
 can be heard all day (weakly) in Sacramento, so noted while running  
 errands during lunch hour. New. (RT-CA)  
 +9/27 2145-40 in good, peaking to very good at 2132. Clear ID at 2131:30 as  
 "1060, KTNS." Apparently ex-1090. Best reception ever. Local KTCT-1050  
 looped. (AWP-CA)
- \*\*\*\*\*
- 570 KLAC CA, Los Angeles 9/16 2304 fair "You're listening to Southern California's AM  
 570 KLAC, Anaheim Angels Baseball Network," also ""You're listening to  
 Talkradio AM 570 KLAC Los Angeles." (DP-OR)
- 640 KYUK AK, Bethel 9/27 fair and dominant at 0657 with pop music, ID at 0659:30  
 "You are listening to KYUK, AM 640 in Bethel Alaska," followed by Alaska  
 PSA's and weather. (PM-OR)

- KGWV MT, Belgrade 9/24 0906 SRN news, local ads, into local Montana news with  
 call ID. Strong in KFI null, almost equal strength. New! (RT-CA)
- 650 KENI AK, Anchorage 9/27 good and dominant over CISL with ID and promo "650  
 KENI" ID's, Accu weather at 0707. (PM-OR)
- 700 WLW OH, Cincinnati 9/24 0130 completely dominating frequency with  
 "Newsradio 700 WLW" promo. Good indicator of eastern DX conditions, so  
 this should be a good harbinger of the season. (RT-CA)
- 750 KFQD AK, Anchorage 9/27 fair mixing with KXL-Portland, at 0705 mentioned "on  
 7-50 KFQD." (PM-OR)
- 760 KTZN CO, Thornton 9/24 0855+ dominating channel, no KFMB, with financial  
 news, plenty of "The Zone" mentions. (RT-CA)
- 870 KSKO AK, McGrath 9/ 26 on top on & off with non-stop jazz music 0606-0702. At  
 0659 after mentions of music cut played "...You're listening to Radio NPR  
 Alaska, 870 AM KSKO McGrath, 910 AM KIYU Galena, and 900 AM KZPA  
 Ft. Yukon, also 91.5 AM..." I have been after this for years. CFBV Smithers  
 BC QRM plus an unID Christian pop station. New. (PM-OR)  
 (Congratulations!--NJ)
- 900 KZPA AK, Ft. Yukon 9/26 after I caught the ID on KSKO-870, I tuned up to check  
 900 & 910. KKFX and others too strong on 910, but could hear KZPA buried  
 behind CKMO-Victoria // 870 at 0702. New. (PM-OR)
- 930 KTKN AK, Ketchikan 9/27 0716 good and dominant on 930 with PSA's on drivers  
 in Alaska. (PM-OR)
- 1310 CHLW AB, St. Paul 9/26 0150 C&W, ID came up in mess while looking for Norway.  
 (FA-ID)
- 1320 KSDT CA, Hemet 9/23 0430 or so, on with MOYL // 96.1 KWRP. (GL-CA)
- 1330 KWLO IA, Waterloo 9/27 0530 good and dominant, no sign of KFH, with ABC NOS  
 format and "Stars 13-30" ID's. (PM-OR)
- 1510 KSPA CA, Ontario 9/23 0420+ traveled to area to hear call for myself - still good  
 standards, good to hear them clear. Went by office and xmtr location, no  
 change. (GL-CA)
- 1610 KOV796 MT, Grant-Kohrs Ranch (near Deer Lodge) 9/23 0525 repeated info on  
 historic site. Haven't heard this one in months. (PM-OR)
- WPKZ296 WA, Toppenish 9/26 0550 heard on top with info on City of Toppenish.  
 Unneeded. (PM-OR)
- ?CJWI? PQ, heard with man in French and African type music playing. Would peak  
 at times above the TIS stations at 0612 9/27. This surely must be CJWI.  
 Nothing else matches, but no ID. Does anyone have an address/phone  
 number/contact person for CJWI? I would like to send a tentative report. I  
 wonder if I could send it in English? Any help would be appreciated. (PM-  
 OR)
- 1700 WMCM749 CA, Burbank 9/24 0915 fair signal on top of Oakland airport station with  
 info on airport & security. The best I have heard this one. Normally  
 Oakland is too strong to get a descent log on this. Presume 10 watts or less.  
 Not a bad signal for nearly 1000 miles. (PM-OR)

Thanks to our reporters this week. DX conditions have been quite good the past week. Be  
 sure to send a report to your editor when you hear something special! Nancy 9/27 2200

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 writing for verifications. 100 sheets, \$5.00 (US and Canada), \$7.50  
 (rest of the world).



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## CENTRAL DX ROUNDUP

Editor: *John C. Johnson*

E-mail: John\_Johnson@prodigy.net CDXR reports ONLY: cdxr@prodigy.net

### RIDING GAIN

[NJ-MT] **Nancy Johnson**, Billings, MT  
NancyJohnson@prodigy.net  
Drake R8B, Kiwa loop.

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DXing2@aol.com  
http://www.angelfire.com/wi/dxing  
Kenwood R-1000, Radio West Loop.

[JJR-WI] **John J. Rieger**, South Milwaukee, WI  
JohnJRieger@webtv.net  
http://DX-midAMerica.com  
http://DXMW.com  
Icom IC-R75, Kiwa loop, GE Superadio III, Terk AM 1000 loop.

### DOWN THE DIAL

630 CHED AB, Edmonton. 9-27 strong over all. 21:00 with "6-30 Ched" mentioned twice into local news. [NJ-MT]  
CKOV BC, Kelowna. 9-26 clear through nulled KHOW and KFXD. 23:00 with call letters. "Your information station, CKOV 63." [NJ-MT]  
KFXD ID, Boise. 9-27. 21:59 with "AM 6-30 KFXD" into country song. EX-KIDO. [NJ-MT]  
680 KFEQ MO, St. Joseph. 9-24 good with KNBR nulled. 22:48 with local spots, call, then faded out. [NJ-MT]  
790 WQSV TN, Ashland City. 9-25 fair. 22:00 end of sporting event, legal ID, and a brief sign off. WAYY IDed a few seconds later. New. TN#40. [TN-WI]  
900 WATK WI, Antigo. 9-20 fair to good. 20:44 with call ID including WACD 106.1 in a football game against the Rhinelander Hodags. WI#93, leaving just 20 to go! First time heard in 29 years of DXing in WI! Thanks to a tip from Bill Dvorak. [TN-WI]  
910 WFVR GA, Valdosta. 9-21 fair. 06:32 with travel info, lots of spots. [JJR-WI]  
960 CFFX ON, Kingston. 9-21 fair. 06:30 with "In Kingston, Ontario, CFFX is oldies 960, a Corus Entertainment Station." I'm used to slogans, this was nice!. [JJR-WI]  
1030 KCTA TX, Corpus Christi. 9-21 poor in WBZ null. 06:29 with religious show, ID, then a program in SS. [JJR-WI]  
1170 WLBH IL, Mattoon. 9-21 fair. 07:13 with calls, NOS format. Rare. [JJR-WI]  
1360 KBKB IL, Fort Madison. 9-23 fair. 20:02 with ID on Clear Channel Sports Network. ID was a TC and "14-90 KBUR" with no city of license. Fort Madison and Davenport spots heard later. [JJR-WI]  
1450 WATZ MI, Alpena. 9-17 poor, but clear. 22:29 with talk, promo, calls. [JJR-WI]  
WMIQ MI, Iron Mountain. 9-16 poor. 06:30 with ID into CNN News. [JJR-WI]  
1590 WNTS IN, Beech Grove. 9-16 poor over unID. WONX nulled. 20:00 with program reminders, legal ID. [JJR-WI]  
1600 KATZ MO, St. Louis. 9-16 fair. 19:57 with legal ID, Gospel format. Not as common as years ago. [JJR-WI]  
1670 WRNC GA, Warner Robins. 9-21 fair. No WTDY. 06:37 with local spots. [JJR-WI]

### 25 YEARS AGO

October 1, 1977 issue of IRCA's "DX Monitor" ... **Greg Monti** of Bayville, NY told about WNBC's new rock music format ... **Robert Wien** of San Jose, CA told about receiving a verie from KWRL 1270 delivered to his door by the chief engineer and DJ who were on vacation.

### OPEN MIKE

If you didn't notice, Nancy is now using a Drake R8B. I'm still using my old Icom IC-R71A, but Nancy does let me try the R8B now and then. How many of you have wives that buy a Drake R8B for their own DX? This column was typed 9-28-02. 73, John

## EASTERN DX ROUNDUP

Editor: *Lee J. Freshwater* – 414 SE 3rd St. – Ocala, FL 34471

E-mail: ENGWTRS@aol.com

Deadlines are : Sunday 8 AM

### STARS OF THE WEEK

(WM-MD) William McGuire 2412 59th Place, Cheverly MD  
DX-398  
(DH-NJ) David Hochfelder New Brunswick, NJ  
Sony ICF-2010 KIWA Pocket Loop

### LOGGINGS

540 MD WDMV Pocomoke City 9/24 2340 Good and domiant at times over WWCS and usually dominant over semi-local WLIE. Oldies ID as "WDMV, Delmarva's original hits stn" New (DH-NJ)  
PA WWCS Canonsburgh 9/24 2358 Good and domiant at times over WDMV Usually dominant over WLIE. Frequent Ids as "Radio Disney, 540" Full ID at 2358. "WWCS, Cannonsburgh-Pittsburgh" New (DH-NJ)  
790 TN WETB Johnson City 9/20 2057 Couty Gospel ; "Sunshine 79"; local program promo. (WM-MD)  
ON CIGM Sudbury 9/20 C&W mx hrd; Id; Wx (WM-MD)  
850 MA WEEI Boston 9/23 2057 ID; Mention of Boston Red Sox (WM-MD)  
900 PA WCPA Clearfield 9/19 2028 Weather; ID (WM-MD)  
910 OH WPFB Middletown 9/23 2300 NOS MX hrd; ID (WM-MD)  
910 PA WGBI Scranton 9/19 2035 Local promo hrd' ID (WM-MD)  
TN WMRB Columbia 9/18 2332 Weather; ID (WM-MD)  
920 NY WIRD Lake Placid 9/23 2200 ID; ESPN Radio (WM-MD)  
1410 PA KQV Pittsburgh 9/19 2158 Bruce Williams show; ID (WM-MD)  
1420 OH WCLV Cleveland 9/20 2147 "Classic Pops"; ID (WM-MD)

Well, thats a wrap for this week..Thanks to William and David this week.....73 and see you all next time!!!.....fresh .....9-29

## DX WORLDWIDE – WEST / TROPICAL BAND DX

Editor: *Patrick Martin* – P.O. Box 843 – Seaside OR 97138

E-mail: mwdxer@webtv.net all times UTC

Hi Everyone: We have quite a column for you this week! Lots of DX to report from: TAs, LAs, TPs, and DUs. So away we go.....

### TRANS-ATLANTIC DX ROUNDUP

We have reports from **Guy Atkins**,-Bonney Lake WA (new member, welcome!), **John Bryant**,-Orcas Island WA, **Nick Hall-Patch**, Victoria BC, **Mike Stonebridge**, St. Isodore AB, plus some of my loggings from the Oregon Coast.

**John Bryant** writes on 9/26/02:

*"I had 1314 as a het from soon after sunset on, but it really didn't come up in listenable audio until Sunrise in Kitsvoy around 0500-0520. Around 0400 to 0420 there were hets on 747 (this peaked around 0420 and wasn't there at 0500, so likely was Bulgaria) 909 (this also peaked soon after 0400 and was probably Romania) 864 (heard 0420, peaked around 0520, so was likely Paris). 1008 (heard 0400, was gone at 0520, so more likely Greece 50 KW than Holland...the het was gone at 0520, but who really knows?) 1215 (was there from 0400 and was getting stronger when I quit at 0520...probably Virgin Radio, England, but I set my recorder to catch this between 0600-0620 sunrise there and there was no audio. So who knows?). The following weren't there at 0400-0420, but were there as hets later as noted: 1053 Here as a mid-level het at 0515...most likely BBC's xmtr at Droitwich, 1242 Good het at 0515 (Dawn in Marsailles), 1377 Very good het and some bits of audio at 0520 (Dawn in Lille). The Lille transmitter is my "best TA performer" in Oklahoma, except for Kitsvoy. I'd strongly recommend using Geoclock to "DX Dawn" in Europe. When conditions are "good" in Oklahoma, I can often tell "exactly" which station I am hearing as a het by watching the signal strength as dawn approaches and then passes the xtmr. The classic sound is hearing a het there weakly for an hour or more before dawn...and it starts to build rapidly at about 15 minutes to ground dawn is GONE by 15 minutes after ground dawn at the transmitter. Our angle to European terminator is more acute when looking from here rather than Oklahoma, so our transmitter sunrise enhancement ought not to be as pronounced but should still be there."*

**Nick Hall Patch** writes 9/25/02:

*"Unfortunately, was out most of the evening, and didn't return until 0505 UTC. First audio heard this season on Norway 1314, man and woman holding forth. Poor strengths and muddy sounding at 0510. The rest were carriers, best were 1377 and 567, not quite enough for audio. Otherwise, 1539, 1422, 1377, 1368, 1296, 1215, 1107, 981, 927, 864, 738, and 675. Then, the non-TA but pretty intriguing: 1375...does St. Pierre-Miquelon run programming overnight or just an open carrier? All except the latter mostly gone by 0600 UTC." (Nick, St. Pierre used to run an OC all night. I don't know if they have gone 24 hours or not. Anyone in the East know? PM)*

**Mike Stonebridge** writes 9/24/02:

*"After last evening's opening for TA's, I decided I needed to replace my outside antenna. So I put up a temporary EWE this afternoon. It utilizes the same ground as last winters EWE, and the far end isn't as high, but it'll do until I can get my permanent one up. The first TA carrier from 1314-Norway appeared around 0110 UTC or about 30 minutes before local sunset, and fair audio soon followed. Of the 116 split TA frequencies between 531-1611, I heard carriers on 51 of them. Unfortunately only 4 of them produced any audio."*

Here on the Oregon coast on 9/25 and 9/26 I did not get to the dials until after 0400 UTC unfortunately. Norway was holding its own with S5-7 between 1310-1320 kHz in the 6 kHz filter at times. I haven't heard Kitsvoy that strong in several years. Out of the 2 days, 9/26 was the best producing audio. Besides 1314, there was audio on 1574/1575. It sounded like two separate stations at 0427, but because of fast fading (one second it was there and a few seconds later it was lost, then back again), it was hard to tell. I did get two separate carriers on 1574 and 1575 at times. But telling which one had the audio and which one did not was anyone's guess. I did hear music in the splatter a few times. Then 1611 gave audio at 0436 with a man in sober voice, probably the Vatican. This was the best opening in several years, but still a far cry from the ones in the early 80s when I drove to Fred Meyer 4 miles away with Algeria booming in on the car radio on 891 kHz, armchair copy to say the least! Of course I had an analog dial in those days on the car radio. Now to the logs.

- 675 **UNID**, very faint music heard once at 0248 9/24. (MS-AB)
- 747 **UNID**, faint EZL type mx at 0243 9/24. Never hrd talking to get lang. (MS-AB)
- 864 **UNID**, carrier here at 0431 9/26 (PM-OR)
- 963 **UNID**, man talking in unknown lang. at 0235 9/24. This was followed by what I can only describe as C&W mx, but the lang. used was definitely not English. Faded

- out at TOH and then came a woman (I assume) reading the news. Several possibilities, but I'll put my money on Finland. (MS-AB)
- 1053 **UNID**, male talking very fast in an unknown lang. at 0321 9/24, definitely not the UK. (MS-AB)
- 1125 **UNID**, 9/26 0308 weak het that strengthened by 0315, but never broke into audio. (GA-WA)
- t1197 **SPAIN**, El Vitoria, 9/26 0309. SS talk by M&F. Fair for brief moments, then back down into noise 0317. (GA-WA)
- 1197 **UNID**, 9/26 0320. Poss. Slavic lang.w/interview or news pgm and two ancrs, brief mx interlude, then more talk to fade out 0328. No further SS lang, as hrd earlier (0309-0317) VOA Munich? Poor to fair. (GA-WA) (*I heard Munich here about 20 years ago, so this is possible, prob. likely. PM*)
- 1314 **NORWAY**, Kvitsoy, 9/26 0247. Main with talk in presumed NN, fade to 0303 then back up with more male ancr and mx. Just a het by 0313 recheck. Poor-fair. All TA DX tonight was the best on the Carolina Beam. (GA-WA)
- 1314 **NORWAY**, Kvitsoy, 9/26 0400. First noted as a het around 0400. Built to very listenable audio by 0500 (approx. dawn in Kitsvoy). Continuous light pops before 0500, seemed news by M & F in NN after 0500. A handful of other hets were present, but no other audio noted. (JB-WA)
- 1314 **NORWAY**, Kitsvoy, 9/25 0510, first head audio this season on 1314, man & woman talk, poor and muddy audio. (NHP-BC)
- 1314 **NORWAY**, Kitsvoy, usual fare of pop mx with M & F talking in NN 9/24. (MS-AB)
- 1314 **NORWAY**, Kvitsoy, heard 9/24, 9/25, & 9/26. It was the best on 9/26 with fairly decent armchair copy 0425 with man in NN and pop mx. Good at times in 6 kHz filter between 1310-1320 and CHMB-1320-Vancouver was quite strong with good Northern cx. 0502 sounded like news, but the signal had weakened by then. Het was still there at 0630, but weak. (PM-OR)
- 1574-1575 **UNID's** here at 0427 9/26. Two def carriers here, but it was hard to tell which one was producing the audio. Music at times, but it would fade down quickly and then fade back up, as the freq is high, more like SW fades. No voice heard, but the signal would peak at about S3 at times, then fade to not even a carrier and then back. This lasted for a few minutes and then gone. (PM-OR)
- 1575 **UNID**, 9/26 0318 weak het noted through 0332 recheck. (GA-WA)
- t1611 **VATICAN**, surely the station with the somber type male speaker here in splatter at 0436 9/26. Soon faded (PM-OR)

#### PAN AMERICAN DX ROUNDUP

- 550 **MEXICO**, Cd. Cuahatemoc, Chih., XEPL 0704 9/27 man in SS "La Super Estacion, P-L" (SW-TX)
- t940 **MEXICO**, Mexicali, BCN, XEWV 9/27 2351 UTC, suspected in KWBY null with KWRU-Fresno off. ID as "Fiesta Mexicana!" sung jingle per mexicoradiotv.com XEWV-FM uses that slogan, though the AM listed as "Onda 94" PM, simulcast perhaps? (RW-CA)
- 940 **UNID**, SS 9/27 2345, behind XEWV(?) possibly XEQ Mexico DF. Was looking for KGMS, but did not hear them. (RW-CA) (*I'll take XEQ. I still need them here. PM*)

#### TRANS PACIFIC DX ROUNDUP

- 279 **RUSSIA**, Yuzno-Sakhalinsk, Radio Rossii, 9/27 1400. Noted here with fair level in RR and seemingly // theshold 180 and 189 kHz. (JB-OI/WA)
- 531 **JAPAN**, Morioka, JOQG fair with JJ talk at 1123 UTC 9/28 (PM-OR)
- 558 **FIJI**, good with Island mx at times and man in Fijian at 0930 9/28 (PM-OR)
- 567 **JAPAN**, Sapporo, JOIK fair with JJ talk //531 at 1125 9/28 (PM-OR)
- 594 **JAPAN**, Tokyo, JOAK declining quickly 9/29 just past local sunrise at 1415. Two men in JJ until fade out 1425. Fair-poor. (GA-WA)

612 **AUSTRALIA**, Brisbane 4QR fair with discussion on Iraq at 0915 9/28. One of the few DUs decent with more JJs showing up. (PM-OR)

640 **ALASKA**, Bethel KYUK 9/27 at 1057 with C&W mx. Alone on channel. Then at 1059 "You are listening to KYUK AM 640 in Bethel Alaska." PSAs on helping seniors in Alaska, long weather report. Back into mx at 1105 at tune out. Fairly decent signal with some fading. (PM-OR)

650 **ALASKA**, Anchorage KENI, very good topping CISL/KSTE with "Accu-weather" for Anchorage. IDs as "6-50 KENI". At 1106 9/27 (PM-OR)

657 **DEP. REP. OF KOREA**, good with man in KK at 1109 9/27 (PM-OR)

666 **JAPAN**, Osaka, JOBK good with man in JJ in passing at 1110 9/27 (PM-OR)

693 **JAPAN**, Tokyo, JOAB good with talk in JJ at 1115 9/27. (PM-OR)

747 **JAPAN**, Sapporo, JOIB NHK2 9/28 330. Hrd here at good level with usual NHK2 evening programming at good to excellent level each AM this week //774//828. (JB-OI-WA)

750 **ALASKA**, Anchorage, KFQD good on top of KXL with talk at 1103 9/27, when I briefly tuned up to 750 then back to 640 and heard "On 7-50 KFQD". (PM-OR)

774 **JAPAN**, Akita, JOUB NHK2, 9/28 1340 Heard here each AM this week, not quite as strong as //747, but better than //828. (JB-OI-WA) *(It is interesting how a location can be different, as JOUB-774 has been the strongest JJ here followed by 594. PM)*

774 **JAPAN**, Akita, JOUB. Quite audible at 0644 check with man and woman talking. Somehow squeezed in between powerhouses on 770 and 780. Gone by 0705 re check. (DKK-CA) *(Great to have you back Don. Hope you pull in some more DX. PM)*

792 **AUSTRALIA**, Brisbane, 4RN fair with Indian/ME type mx at 1340 9/28, woman ancr. (PM-OR)

819 **DR KOREA**, KCBS Pyongyang, 9/27 1335. Hrd KK with man and woman talk //2850 at fair to good level. New station for me. (JB-OI-WA)

828 **JAPAN**, Osaka, JOBB NHK2 9/26 1405. Heard here at fair level with usual EE news by Aussie-accented female news reader. //s 774 & 747 were also heard at poor level. (JB-OI-WA)

846 **KIRIBATI**, Tarawa, good while KSWB was off for 12 days. Good with Island mx, ancrs in presumed Gilbertese at 0840 9/ 24. Can be heard once in a while with KSWB on, but not easy 6 kHz from a local. (PM-OR)

864 **REP. OF KOREA**, Gangnung, KBS1, HLRK 9/27 1407. Two men in active discussion in KK. Clearly //KBS program 1 on 3930. New station for me. (JB-OI-WA)

870 **ALASKA**, McGrath, KSKO on top off and on with non-stop Jazz mx from 1006-1102 9/26. At 1059, after mentioning mx cuts played "...You're listening to Community Radio of Alaska, 870 AM KSKO McGrath, 910 AM KIYU Galena and 900 KZPA Ft. Yukon, also 91.5.... " I have been after this for years. CFBV Smithers BC QRM plus UNID Christian pop mx station. New for me. (PM-OR)

900 **ALASKA**, Ft. Yukon KZPA. After I caught the ID on KSKO-870, I tuned up to check 900 & 910. No such luck for KIYU on 910, but I did hear //on 900 mixing with CKMO-Victoria. At 1102 UTC 9/26, new also. I am pleased with two new Alaskans in one night! (PM-OR)

930 **ALASKA**, Ketchikan KTKN at 1116 9/27, heard on top with PSA for driving in Alaska and "930 KTKN" tag. (PM-OR)

t945 **P.R. CHINA**, CNR1, Unknown location, 9/26 1416. Chinese noted here briefly. May have been //7250 but unsure. Poor. (JB-OI-WA)

963 **P.R. CHINA**, CRI (RR FS), 9/26 1352. Heard in RR until program pause at 1356. Silence until 1400, then tones and many IDs in standard CC and RR as "Radio Chitaya", then into seeming news in RR. Good level. (JB-OI-WA)

1017 **P.R. CHINA**, (KK FS), 9/26 1425 Talk by male in KK at fair level until 1425, then man and woman in KK //5965. Very happy with this one. Just heard the first time at Grayland last week. (JB-OI-WA)

t1107 **REP. OF KOREA**, Pohang, 9/27 1340. Threshold level and almost certainly this one in KK. (JB-OI-WA)

1143 **TAIWAN**, BEL3, good with man in Taiwanese at 1345 9/25. (PM-OR)

1143 **UNID**, Asian station 9/26 1420. Unid hrd here at fair level. Lang was not JJ, KK, or standard CC. It did not sound Taiwanese (Amoy) but may have been VOA Poro. Some references say VOA in EE at this time? (JB-OI-WA) *(John, this could be very easily VOA. I don't hear them often but they are heard once in a while or so. Their directional pattern is pretty tight. PM)*

t1161 **REP. OF KOREA**, Busan, HLRK 9/27 at 1345. Threshold level in KK sounding man. Probably this one on a good KK morning. (JB-OI-WA) *(This one is common here on the coast during a good Northern TP morning. PM)*

1575 **THAILAND**, Ayutthaya, VOA 9/26 1355. Was bouncing between this and 963 until (thankfully) I caught: "This program has come to you from Washington DC..." VOA has been running a program in a SE Asian language. Heard at fair level. Very happy with a new country forum Orcas Island. Also noted at excellent level Sept. 28 1348 with SEA lang. Several mentions of VOA (JB-OI-WA)

## THANKS TO THESE REPORTERS

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## DX WORLDWIDE - EAST

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## \*\*\* TRANSATLANTIC DX \*\*\*

711 **FRANCE** France Bleu, Rennes, SEP 24 2317 - // 1377 with French male jazz vocal; fair. [Connelly\*B-MA]

747 **NETHERLANDS** Flevoland, SEP 24 2314 - South African group vocal (Ladysmith Black Mambazo or similar), then man in Dutch; very good. [Connelly\*B-MA]

756 **GERMANY** DeutschlandRadio, Braunschweig & Ravensburg, SEP 30 0353 - modern symphonic / New Age music; good. [Connelly\*B-MA]

765 **SWITZERLAND** RSR, Sottens, SEP 20 0447 - man & woman in French; poor to fair. + SEP 25 0408 - romantic French vocal; fair. [Connelly\*B-MA]

774 **SPAIN** RNE R.1 synchros, SEP 20 0446 - // 1107 with Spanish public speech; fair. [Connelly\*B-MA]

837 **FRANCE** France Bleu, Nancy, SEP 24 0403 - French news; poor to fair. + SEP 25 0406 - // 864, 1377 with French news; fair. [Connelly\*B-MA]  
 864 **FRANCE** France Bleu, Paris, SEP 25 0406 - // 837, 1377 with French news; fair to good. [Connelly\*B-MA]  
 891 **ALGERIA** Chaîne 1, Algiers, SEP 21 2330 - Arabic talk; noted with WBPS phased. Actual measured frequency 890.98 kHz. [Connelly\*B-MA]  
 909 **UNITED KINGDOM** BBC R.5 synchros, SEP 24 2308 - English interview; in bad WABI slop. [Connelly\*B-MA]  
 927 **BELGIUM (t)** VRT1, Wolveterm, SEP 24 0400 - teletalk, then into news; in barrage of slop from huge 930 pile-up (WGIN/CFBC/WBEN/WPAT/CJYQ). [Connelly\*B-MA]  
 999 **SPAIN** COPE, Madrid, SEP 21 0403 - Spanish news; good. + SEP 23 0408 - news by woman mentioned several countries; good, stronger than the jumble of signals on 1000. [Connelly\*B-MA]  
 1017 **GERMANY** SWR-1, Wolfsheim, SEP 30 0342 - German talk by man; poor to fair. [Connelly\*B-MA]  
 1044 **SPAIN** SER synchros, SEP 23 0411 - fast Spanish talk; over possible German. [Connelly\*B-MA]  
 1062 **DENMARK** Danmarks R., Kalundborg, SEP 23 0412 - female soul vocal, Danish DJ, then into country-rock male vocal; excellent. + SEP 27 0400 - woman in Danish with news headlines and weather; local-like. [Connelly\*B-MA]  
 1089 **ALBANIA** RTV Shqiptar, Durrës, SEP 23 0415 - eastern European talk, choral music; almost equal to UK strength, low growl (about 10 Hz) present. [Connelly\*B-MA]  
 1089 **UNITED KINGDOM** TalkSport synchros, SEP 20 0441 - advert for cars, then teletalk about football; fair. + SEP 30 0340 - ID "1089 and 1053 AM, TalkSport", then talk about wine; over second station (likely Albania). [Connelly\*B-MA]  
 1098 **SLOVAKIA** R. Slovensko, Velke Zaluzie, SEP 21 2325 - Slavic talk by man & woman; to fair peak over Spain. + SEP 30 0338 - "Like a Rolling Stone" by Bob Dylan; loud. [Connelly\*B-MA]  
 1107 **SPAIN** RNE R.5 synchros, SEP 20 0437 - Spanish talk, then jazz vocal; loud. [Connelly\*B-MA]  
 1116 **SPAIN** SER synchros, SEP 30 0404 - Spanish nx by woman; good. [Connelly\*B-MA]  
 1125 **CROATIA** Hrvatski R., Deanovec, SEP 21 2322 - // 1134 with Slavic vocal; fair, about S7 (1134 was S9). [Connelly\*B-MA]  
 1134 **CROATIA** Hrvatski R., Zadar, SEP 21 2321 - Slavic male folk vocal; good with WBBR phased. + SEP 23 0232 - tropical steel-band music; monster signal. + SEP 30 0402 - Slavic news; excellent. [Connelly\*B-MA]  
 1179 **SWEDEN** R. Sweden, Solvesborg, SEP 23 0419 - M & W in Swedish; to good peak. + SEP 24 0348 - man in Swedish read a list of names & numbers - not sure if sports or stock related. Enya-style folk vocal followed. To good peak. [Connelly\*B-MA]  
 1188 **HUNGARY** RFE, Marcali, SEP 21 2326 - bits of Slavic talk by man; poor. + SEP 25 0356 - plaintive eastern European male folk vocal; excellent. [Connelly\*B-MA]  
 1206 **FRANCE** France Bleu, Bordeaux, SEP 20 0425 - man & woman in French talked about upcoming programs; loud. + SEP 21 2241 - excited French talk; fading up, WKOX slop phased. + SEP 23 0227 - // 1377 with "Reelin' in the Years" by Steely Dan; huge. + SEP 24 0342 - French talk about TV and radio coverage of political news; excellent. [Connelly\*B-MA]  
 1215 **UNITED KINGDOM** Virgin R. synchros, SEP 20 0435 - Bruce Springsteen vocal; over Spain. + SEP 23 0420 - "Babylon" by David Gray, then presenter mentioned automobile race results; excellent. [Connelly\*B-MA]  
 1314 **NORWAY** NRK, Kvitsoy, SEP 23 0218 - Norwegian talk by man, female Norwegian country-style vocal with piano; huge, S9+20. [Connelly\*B-MA]  
 1359 **SPAIN** Arganda, SEP 19 0348 - fast Spanish talk and big het against CKBC. [Connelly\*B-MA]  
 1377 **FRANCE** France Bleu, Lille, SEP 19 0346 - man in French talking about cinema; good. + SEP 23 0227 - // 1206 with "Reelin' in the Years" by Steely Dan; loud. [Connelly\*B-MA]

1422 **GERMANY** DeutschlandRadio, Heusweiler, SEP 20 0428 - German talk; to fair peak. [Connelly\*B-MA]  
 1458 **unID** SEP 20 0430 - Mideast type chant; mixed with others. Albania or a UK ethnic station suspected. [Connelly\*B-MA]  
 1467 **FRANCE** TWR, Roumoules, SEP 24 2245 - loud with English talk, musical box interval signal, then carrier was cut (power drop, pattern change, or sign-off). [Connelly\*B-MA]  
 1521 **SAUDI ARABIA** BSKSA, Duba, SEP 19 0352 - contemporary Arabic vocal; good. + SEP 21 2231 - // 9555 & 9870 with vocal & drumming, then Arabic talk by man; good. + SEP 24 0330 - dramatic Arabic violin music, then man in Arabic; excellent. + SEP 24 2247 - energetic music with drumming, synthesizer keyboard, and vocal; local-like, about 15 dB better than WWKB-1520! [Connelly\*B-MA]  
 1530 **VATICAN CITY** R. Vaticana, SEP 30 0333 - probably this with Slavic-sounding talk, bits of classical music; poor, under nulled WSAI. [Connelly\*B-MA]  
 1539 **GERMANY** Evangeliums Rundfunk, Mainflingen, SEP 20 0432 - religious choral music; to good peak during pauses in WPTR slop. [Connelly\*B-MA]  
 1548 **KUWAIT** VOA Relay, Kabd - Kuwait City, SEP 24 2251 - Shakira song "Underneath Your Clothes", woman mentioned "Sawa", then Arabic vocal with piano and strings; good. [Connelly\*B-MA]  
 1557 **FRANCE** France Bleu, Nice, SEP 20 0434 - // 1377 with fast French talk; fair through WQEW slop. [Connelly\*B-MA]  
 1566 **unID** SEP 24 2255 - mx in WQEW slop; not sure if India or Iran. [Connelly\*B-MA]  
 1575 **ITALY** RAI R. Uno synchros, SEP 19 0356 - test tones, then (at 0400) pips followed by Italian talk. [Connelly\*B-MA]  
 1575 **KUWAIT (CLANDESTINE) (t)** Al Mustaqbal, SEP 24 2257 - probably this with bits of Arabic music; mixed with Spain. [Connelly\*B-MA]  
 1575 **SPAIN** SER synchros, SEP 19 0358 - // 1584 with Spanish talk; under Italy's tone tests. [Connelly\*B-MA]  
 1584 **CEUTA** RadiOle, SEP 23 0437 - calm Spanish talk, orchestral music and vocal; over/under SER-Spain. [Connelly\*B-MA]  
 1584 **SPAIN** SER synchros, SEP 19 0358 - // 1575 with Spanish talk. + SEP 23 0437 - // 1044 with news by woman; mixed with Ceuta. [Connelly\*B-MA]

\*\*\* CONTRIBUTORS \*\*\*

[Connelly\*B-MA] = Billerica, MA (GC= 71.221 W / 42.533 N) (home)

Receiver: Drake R8A, Antenna systems: dual-feedline Flag antenna, 18 m vertical, FCA-1 feedline coupler, Superphaser-2 phasing unit

That's all for this issue. 73, Brandon.

## WESTERN DX FORUM

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Gary Larson, 2806 Lincoln, Burbank CA 91504

[9/23] I read in DXM that 1510 Ontario CA is now KSPA. I recall it was once used by 1400 Santa Paula. Early this morning I headed eastward toward 1510 signal area on Foothill Fwy then onto parts of Rt. 66 and Foothill Bl. Got to Haven Ave to see if station was still at bldg and it has only 1510 on outside. Music is same standards, nice mix – bet Rick Evans would approve. ID now using KSPA. Went past 4 tower site but no evidence of anyone, still done by remote. While in area 96.1 KWRP was airing Music of Your Life and when I was near Haven and Baseline, Rancho Cucumonga, I tuned in 1320 Hemet expecting SS but it was simul. 96.1! Appears both are at same address on Stetson. 1350 KTDD barely heard,

sounded like a talk pgm. No KRAK 910 heard since power is lower nites. Tried 1240 KEZY but not in well, probably Spanish but others were in too. Spoke with Mike Worrall of ABC Disney eng. Dept in LA; he's CE of an FM, 88.5. Says if reports were rec'd by him for 1110, 790 or 710, he'd most likely respond to them. Still hot here even after autumn has started. I look forward to cooler nites. 73

## IRCA TECHNICAL COLUMN

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### MW Carrier Monitoring

by Mark Hattam  
16 Kilpatrick Way, Hayes, Middlesex, UK UB4 9SX

I had thought, perhaps naïvely, that most MW stations were spot-on their assigned channel. How wrong could I be?

I'd noticed that 1350 kHz produced a definite "growling" effect with Hemel Hospital Radio (the dominant LPAM (*Low Power AM*) station here) zero-beating on 1350.1 kHz. So I decided to investigate further and see if there were other LPAM stations similarly offset from their nominal channels. The idea being that LPAM stations might be more likely to be off-channel than the regional or national broadcasters.

Using the Spectrum Lab audio analysis software written by Wolfgang Buescher and freely available via his website - <http://www.qsl.net/dl4yhf> - I started monitoring accessible channels to see what I could find.

To generate traces, I tune my AOR 7030+ receiver 1 kHz below a channel in USB mode using the remote control ... for instance to 1469.000 kHz ... and use Spectrum Lab to analyze the resulting audio spectrum. I'm most interested in the audio around 1000 Hz, so I offset the FFT analysis to 1000 Hz and view the audio spectrum from say 975 Hz to 1025 Hz or suchlike, depending on the spread of carriers on that particular channel.

In the USA, stations are allowed to be +/- 20 Hz of their assigned channel. I've yet to find a frequency tolerance for European stations, though it's likely to be similar. Enforcement though might be a different issue, with the sheer number of stations on the air.

I let the software run for 24 hours on a channel, and then look at the resulting audio trace. It's easily seen when European and trans-Atlantic stations fade in/out compared to the local (groundwave) stations. Furthermore, when the fade-in times are compared to the grayline, as computed by say GeoClock, it begins to get very interesting indeed.

#### Traces

I've uploaded all the traces I've generated so far to my website - <http://www.dxradioco.uk> The scale across the top is the audio frequency in Hz, and the time in UTC is shown down the left hand side. I started off doing traces from midnight to midnight, but it soon became apparent that midday to midday was more appropriate. Most early traces are around 1 MB in size even after jpeg-ing them down as small as they'll go, later ones are smaller as I reduced the speed of the waterfall (ie compressed the time axis).

Something else that surprised me was the effect of aurora on the carriers. Most stations have nice "clean" i.e. narrow stable carriers. But on nights when there has been auroral activity,

all the carriers are much fuzzier - for instance the night of the 19-20 July (Figure 2), while I was monitoring 1470 kHz. The fade out times are earlier also.

#### Accuracy

The AOR 7030+ tunes in 2.655 Hz steps, and the frequency settability from the keypad is +/- 1.4Hz (why don't they quote this as 1.3285 Hz - half the 2.655 Hz stepping?). The stability with regard to temperature is very good, typically +/- 1 part per million from 10° to 40°C., and I'm running the radio 24 hours a day. Without an accurate audio reference or an exactly known station carrier frequency, it's therefore not possible to accurately say what the exact frequency of a particular station is, but the relative offset of one station vs another is accurate (and precise).

Some channels I have monitored during July and August have been:

#### 171 kHz

Very evident is the newly reactivated Radio Rossii transmitter at Bolshakovo

#### 225 kHz

Poland and Turkey are here, with Turkey having an overnight silent period.

#### 531 kHz

Susy Radio is the strongest all-day station here at the moment. Clearly visible are Beromunster with a 2215-0245 silent period overnight and the Faroes with silent periods 2115-0600 Mon-Sat and 2115-0900 on Sun. Algeria and Spain (4 transmitters) I think account for the rest of the traces.

#### 1170 kHz

Not so much to be seen. My semi-local station is Eleven Seventy in High Wycombe.

#### 1350 kHz

The dominant station is Hemel Hospital Radio. This appears to be on 1350.0105 kHz and has a large number of carriers symmetrically above and below the main carrier. Two other groundwave stations are apparent, one varies 980-985 Hz offset, the other varies around 993 Hz offset. This latter one went off air 2020-2050 on 9th July. There are 2 apparent European stations that fade in around dusk - one around 985 Hz, the other at 1015 Hz. And there are two trans-Atlantic stations fading in much later - one at 992 Hz, the other at 1031 Hz.

#### 1440 kHz

It is easily seen when R Luxembourg switches to its highest power. The receiver's AGC kicks in and the trace almost loses all other carriers. Problem is that this currently occurs at the times when other Europeans would be fading in, as well as the dawn fade-out. But it does look like the two Russians sign-off at 2200 UTC, and there may be a trans-Atlantic carrier too.

#### 1467 kHz

TWR Roumoules dominates this channel.

#### 1470 kHz

Good DX channel this ... Many TA carriers ... as many as 27 noted one night. Here are some "results" from two night's worth of traces. Some "sign-offs" may in fact be significant power-down's, i.e. stations switching to a lower power for nighttime operation. Also I'm monitoring carriers here, not audio, so some stations may end their programming sometime before the carrier is switched off. The early fade-in stations are almost certainly Brazil - nothing else is near sunset, apart from Argentina maybe.

Intervals. An audio frequency of 1000 Hz would correspond ideally with an exact zero-beat on 1470 kHz, but it's possible that the whole trace is  $\pm 2$  Hz. Figure 2 is from 19-20 July, and is similar to Figure 1 except that the horizontal scale runs from 975-1025 Hz.

*Editor's note:* The Figures do not reproduce well here; the link to Figure 1 is: [http://www.dxradio.co.uk/mwoffsets/1470\\_20020724-25.jpg](http://www.dxradio.co.uk/mwoffsets/1470_20020724-25.jpg) and to Figure 2 is [http://www.dxradio.co.uk/mwoffsets/1470\\_20020719-20.jpg](http://www.dxradio.co.uk/mwoffsets/1470_20020719-20.jpg)

#### 23-24 July

2220-255 948 Hz sign-off was on 952 Hz until 0100, then drifted down reaching 948 at 0210	0050-0415 1002 Hz sign-off
0140-0325 970 Hz sign-off	2210-2300 1006 Hz sign-off
0200-0400 976 Hz sign-off	0010-0430 1007 Hz fade out wobbly carrier
2110-2308 982 Hz sign-off	0000-0440 1009 Hz fade out
0005-0430 984 Hz fade out	2245-0420 1015 Hz fade out also peaked 2320-2350
2240-2327 987 Hz sign-off	2050-0100 1020 Hz sign-off
2110-0108 992 Hz sign-off	2340-0450 1023 Hz fade out
2320-0430 994 Hz fade out	2250-0305 1026 Hz fade out
2200-0230 996 Hz sign-off	2245-0040 1027 Hz fade out
2220-0400 998 Hz sign-off	2250-2350 1063 Hz fade out
0010-0450 1001 Hz fade out	0120-0201 1064 Hz sign-off
2110-2300 1002 Hz sign-off	0050-0430 1064 Hz fade out
2330-0012 1002 Hz sign-off	2250-0450 1066 Hz fade out variable
	0220-0420 1033 Hz fade out

#### 24-25 July (Figure 1)

2350-0300 962 Hz sign-off	0050-0415 1003 Hz sign-off
0000-0325 970 Hz sign-off	0030-0130 1005 Hz sign-off
0130-0400 976 Hz sign-off	0202-0420 1007 Hz fade out wobbly carrier
0210-0415 980 Hz fade out	0140-0410 1007 Hz fade out
0110-0425 984 Hz fade out	0000-0500 1009 Hz fade out
2340-0105 992 Hz sign-off	2250-0440 1010 Hz fade out
0220-0400 992 Hz fade out	0220-0420 1015 Hz fade out
2330-0440 994 Hz fade-out	2140-0102 1020 Hz sign-off
0000-0200 996 Hz sign-off	2340-0445 1024 Hz fade out
2300-0100 996 Hz sign-off	2310-0357 1026 Hz sign-off peaked
0150-0405 997 Hz fade out	0050-0120 and 0335-0357
2330-0400 998 Hz sign-off	0300-0430 1033 Hz fade out
0020-0440 1000 Hz fade out	0020-0440 1064 Hz fade out
	2300-0500 1068 Hz fade out variable

This is very much a "work-in-progress" and feedback is welcome, as are traces made elsewhere which can be used for comparison.

(the above article was originally published in Medium Wave News, the publication of the Medium Wave Circle, and is used by permission of the author)

## Sunrise/Sunset Maps

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

Prices: IRCA/NRC members - \$2.25 (US/Canada/Mexico/sea mail), \$2.75 (rest of the Americas airmail), \$3.00 (Europe/Asia airmail), \$3.50 (Australia/New Zealand airmail). Non-members: add \$1.00 to the above prices.

## 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.

To order, send the correct amount (in US funds payable to **Phil Bytheway**) to:

**IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334**

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 40 times a year (weekly from September to April, twice monthly from May to August) and in printed form 35 times a year (weekly September to April, monthly May to August). **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



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