

Volume 61, No. 13 - December 27, 1993 (ISSN 0737-1659)



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	CF	C Test Calendar	
Call	Freq.	Date	EST Time
KVON	1440	Dec. 27, 1993	0300-0330
KQKE	700	Dec. 27, 1993	0330-0400
WMIZ	1270	Jan. 2, 1994	0100-0300
WSTH	540	Jan. 3, 1994	0200-0230
WZNN	930	Jan. 8, 1994	0200-0230
WSB	750	Jan. 9, 1994	0000-0500
KURL	730	Jan. 10, 1994	0230-0300
KDLA	1010	Jan. 15, 1994	0500-0530
KWCO	1560	Jan. 16, 1994	0105-0200
WJIB	740	Jan. 17, 1994	0130-0200
WOC	1420	Jan. 17, 1994	0130-0230
WJIB	740	Jan. 24, 1994	0130-0200
WADV	940	Jan. 29, 1994	0230-0300
WFRM	600	Jan. 31, 1994	0030-0100
WTRN	1340	Jan. 31, 1994	0030-0100
WYNI	930	Feb. 1, 1994	0200-0230

We regret to announce that long-time NRC member Curne Chadwick of Omaha died December 15. Our sincerest sympathies to his family.

WMIZ-1270 - 638 Landis Ave. - Vineland, NI 08360 will conduct a DX test on Sunday morning, January 2, from 1 am to 3 am EST. The test will include test tones, code ID's, and music; DX'ers may phone (not collect) (609) 696-7111 during the test. Reception reports should be sent c/o Dave Schmidt at the above address. Arranged for the National Radio Club CPC by Dave Schmidt.

WSTH-540 - 1263 Broadway - Columbus, GA 31901 will conduct a DX test on Monday morning, January 3, between 2:00 and 2:30 am EST. The test will berun at 5000 watts and will include Morse code ID's. Reception reports may be sent to Mr. Jerry Katz. Arranged by the National Radio Club CPC.

WSB-750-1601 W. PeachtreeSt., NE-Atlanta, GA 30309-2641 will conduct a DX test on Sunday morning, January 9, between 12:00 and 5:00 am EST. The

test will include 750 Hz tones and voice ID's inserted in their regular talk format, at 50 kW omnidirectional. Reception reports may be sent to Mr. Ron Wilson K4POZ, Chief Engineer. Arranged by J. D. Stephens for the IRCA CPC.

KURL-730 - P.O. Box 31038 - Billings, MT 59107 will conduct a DX test Monday morning, January 10, between 2:30 and 3:00 am EST. The test will include various test tones and Morse code ID's. During the test, KURL will switch several times between powers of 5000 and 235 watts. Reception reports may be sent to Mr. Kent Abendroth WA7DUC, Group Engineer. Arranged by J. D. Stephens for the IRCA CPC

KDLA-1010 - P.O. Box 1088 - De Ridder, LA70364 will conduct a DX test on Saturday morning, January 15, between 5:00 and 5:30 am EST. The test will be run at 1000 watts and will consist of Cajun rap and Morse

(continued on page two)

### DX Time Machine

From the pages of DX News:

50 years ago ... from the Dec. 27, 1943 DXN: A letter from WNOE-1450 stated that as they were the only all-night commercial station in the South, and with all the time sold, they would no longer be able to stand by for NRC DX programs ... Stan Morss, Bradford, MA heard Toulouse, France-915 with an S9+ signal on Dec. 16 at 3:30 am, EWT.

25 years ago ... from the Jan. 4, 1969 DXN: This issue, Volume 36, Number 12, was the last to be published by mimeograph ... Don Kaskey, West Sacramento, CA received a v/l from KJNP, North Pole, Alaska, his fourth Alaskan ... Ernie Cooper noted that WWVA-1170 was generally silent on 12-25 and for DX'ers to watch that channel for WLEO,

10 years ago ... from the January 2, 1984 DXN: ANARC was protesting intentional jamming and asking DX'ers who wrote to countries which practiced jamming to include a protest in their correspondence ... the FCC gave stations the go-ahead to implement the Post-Sunset Authority after Canada signed the agreement (announced in the 50th "AM Switch" edited by Jerry Starr).

### (continued from page one)

code ID's. You may send reception reports to Mr. Steve Donaldson, Chief Engineer. Arranged by the National Radio Club CPC.

KWCO-1560 - P. O. Box 1268 - Chickasha, OK 73023-1268 will conduct a DX test on Sunday, January 16, between 1:05 and 2:00 am EST. The test will include Morse code, tones, march music, and voice ID's. During the test, KWCO will switch between powers of 1,000, 500, and 250. Phone calls will be takenduring the testat (406) 224-1560 (prepaid only). Reception reports may be sent to Mr. John Carson, News Director. Arranged by J. D. Stephens for the IRCA CPC.

WJIB-740 - P. O. Box 848 Needham Heights Br. -Boston, MA 02194 will conduct a DX test between 1:30 and 2:00 am EST on both Monday morning, January 17, and Monday morning, January 24. The test will include Morse code ID's. Reception reports may be sent to NRC member Bob Bittner, Manager/ owner. Arranged by J. D. Stephens for the IRCA CPC.

WADV-940 - P. O. Box 940 - Lebanon, PA 17042 will conducta DX teston Saturday morning, January 29, between 2:30 and 3:00 am EST. The test will be at 1000 watts for ten minutes, 5 watts for ten minutes, and then 1000 watts for the last ten minutes. The test will include bluegrass music, southern gospel music, and Morse code ID's. Also tentatively scheduled is a similar test for WADV's experimental station KA2XAU-1620 kHz. You may send reports to Mr. Craig Baker. Arranged by the National Radio Club CPC.

From the Publisher ... You're holding in your hands what we think is the largest DX News ever produced, and if you scan the contents you'll find that the emphasis this issue is on foreign DX, especially DXpeditions. Although it takes many dedicated persons to produce such a large issue, we'd especially like to recognize Mark Connelly for the amount of his contributions ... while at the same time apologizing for not being able to squeeze all of his articles into this issue, hi! We'll shoehorn them in

sometime soon, we hope.

DXChange ... Don Trelford - P. O. Box 120 - St. Anns Bay - Jamaica, W. I. is looking for a used 1993 WRTH for which he'd be willing to pay half price ... Chilton Pacific, Ltd., (800) 717-7780 sent us a catalog listing Sangean portables, plus the GE Superadio III and radios from Sony and Aiwa, and various antennas (such as the Select-A-Tenna and Black Box) and battery chargers ... Edited by Larry Van Horn, Grove's Shortwave Directory is now off the press. Priced at \$29.95 with a three-ring binder, or \$24.95 without the binder, plus \$5 UPS shipping, the Directory includes hundreds of RTTY and FAX listings. Call Grove Enterprises at (800) 438-8155 (or [704] 837-9200 outside Canada and U.S.) ...

Radio Festival 1994 ... The Southern California Area DX'ers and its member clubs are sponsoring this all-band GTG next August 10-14, 1994 at the Holiday Inni Bristal Plaza in Costa Mesa, CA. More information is available from SCADS 1994 - 6398 Pheasant Drive-Buena Park, CA 90620, and updates can be heard through HCJB's "DX Party Line" club segment for the ASWLC.

Welcome to these new members ... Terry L. Krueger, Clearwater, FL; and Douglas L. Hunter, Midland, MI.

I'm going to take a week off! But I plan to enter one or more of the DX contests listed below. Why not join me? After all, can a guy, who spends much of his weekend rubber-cementing little bits of paper together, be a very formidable opponent in a DX contest? We'll see. Your next DXN will be in your hands around January 10, so be patient, hi! 73.

Remaining	g DXN S	Schedule, Vo	lume 61
# Deadline/Pub	. Date	22. Feb. 25	Mar. 7
14. Dec. 31 J	an. 10	23. Mar. 11	Mar. 21
15. Jan. 7 J	an. 17	24. Apr. 1	Apr. 11
16. Jan. 14 J	an. 24	25. Apr. 15	Apr. 25
17. Jan. 21 J	an. 31	26. May 13	May 23
18. Jan. 28	Feb. 7	27. June 10	June 20
19. Feb. 4 F	eb. 14	28. July 8	July 18
20. Feb. 11 F	eb. 21	29. Aug. 5	Aug. 15
21. Feb. 18 F	eb. 28	30. Sept. 9	Sept. 19

## Put some fun into your DX'ing - enter a contest!

#1. CPC Log the most NRC or IRCA CPC tests. 1 point per station. Runs Oct. 1, 1993 to Mar. 31, 1994. Prize: \$5 certificate toward any NRC product or subscription.

#2. Alphabet Log calls in in order: the last letter must run from A to Z. First alphabet run must be complete before second run will count. 1 point for each station. Runs Oct. 1, 1993 to Jan. 15, 1994. Prize: \$4 certificate.

#3 Alpbabet Same as #2 except: Runs Jan. 16, 1994 to Mar. 31, 1994, and you cannot use any station in contest #3 used in #2. Prize: \$4 certificate.

#4 Ten-Day Spree Choose any ten (10) consecutive days during the month of October, 1993. Loggings count 1 point for a clear channel station, 2 points for a regional channel station, 3 points for a local channel station. You pick the days; loggings on all ten days not necessary.. Prize: \$3 certificate. #5 Same as #4 except during December 1993.

#6 Same as #4 except during January 1994.

#7 Same as #4 except during March 1994.

#8 Canadian Special (Canadian members only). Log U. S. stations only, but stations in any state bordering your province cannot count. A clear channel station counts 1 point, regional channel station counts 2 points, and a local channel station counts 3 points. Runs: Oct. 1, 1993 to Jan. 31, 1994. Prize: \$5 certificate.

General Rules: Entrants, please send a postcard of intent to enter. All correspondence goes to Ken Chatterton - P. O. Box 164 - Mannsville, NY 13661-0164 ten days after the closing date of that particular contest, or postmarked within seven days of closing.

To count a station: list call, city, frequency, date, time of logging; plus enough material to ID station if asked.

# AM Switch

CALL LETTER CHANGES

Old call:

Jerry Starr c/o WHOT Radio 4040 Simon Road Youngstown, OH 44512-1320

New call: "The Voice of Faith and Inspiration"

WAWZ - 99.1 MHz

Status changes in AM stations, supplied by the FCC and listeners

Old C	all.				New Call.	The state of the s
680	WO	GY	TN	Memphis	WJCE	24 hours a day
860	WW	КО	FL	Cocoa	WRFB	Zarephath, NJ 08890
990	WY	AT	LA	New Orleans	WGSO	908/469-0991
1010	WE	RQ	MD	Baltimore	WOLB	WAKW — 93.3 MHz
1190		DY	VA	Bluefield	WHYS	"Majestic Inspiration"
1200	KO		CA	Soquel	KBOQ	24 hours a day
1320		YU	VA	Lynchburg	WVLR	Box 24G, College Hill
1330		YZ	PA	Erie	WFLP	Cincinnati, OH 45224
1340		CW-1		Grand Centre	CJCM	513/542-3442
1460		LK	TX	Lubbock	KTNP	KPOF - 910 KHz
1530		LP	PA	North East	WEYZ	"Christian Radio 910"
1570		EL	MD	Towson	WKDB	24 hours a day
		700	16000		,,,,,,,,	1302 Sherman Street
APPLI	CATION	S/GR	ANTS FO	R NEW STATIONS		Denver, CO 80203
None	Carron	D/ CI.	THIT I'V	A MAN STATIONS		303/428-0910
110110						
APPI I	CATION	S ER	OM EXIS	TING FACILITIES		
				mouth: move to 10	20 bHz with	1000 D1
1000	HOLD	1412	Tatts	modelli. move to 10	JZO KIIZ WITH	1000 DI
CRANT	s m	VICT	ING FAC	II ITIES		
1260				ville: relocate	t nancmitton o	ito
1200	MLIC	Oil	MCMIIIII	ville. Telocate	transmitter s	rte
OTHER	NECC					
580	KJBX	TX	Lubboo	k: silent station	ic ON THE A	TD
800	WDSC	SC	Dillon			
800	MDSC	SC		ng sold, no word o		
930	CJCA	AB	Edmont			
930	CUCA	AB		on; station is s.	ILENI, licens	e CANCELLED
1010	WOLB	M				OI 1450
1010	WOLB	MD		mre: station now gton, DC (ex-WERQ)		OL-1450
1110	THE AND	***				! ]   0
1110	WZAM	VA	Norfol			
1100		***		ime but this was r		
1160	WVNJ	NJ		d: new station fa		
				ed 12/1/93 target		
				tell you a date".		
				itter site IS in (		
				neck, NJ. This cl	ears up a mis	understanding
				n Issue 9.		
1170	WBRW	NJ	The state of the s	water Township:		
				ger-Gazette this :	Contract to the second	
				has new owners as	nd is on the	verge of
				ing to the air	Water to the same	and a supple
1190	WHYS	VA	Bluefi		simulcasts W	
				eld, WEST Virginia		
				eld area many time		
				cellent signal co		
			state	market and can't	imagine what	advantage this
			simulo	ast will garner.	WHIS covers	everywhere
			WHYS d	oes with an equal	or better si	gnal)
				The second secon		

1260 KJQI CA Beverly Hills: this is now the city of license

1270 WYAK SC Surfside Beach: station is SILENT (again)
1300 WCJL WI Marinette: license is CANCELLED and call DELETED

1440 WWZN FL Winter Park: silent station is ON THE AIR

1450 KMHT TX Marshall: silent station is ON THE AIR

1470 KBCW MN Brooklyn Park: station is SILENT

THANKS: Dave Schmidt, Wayne Heinen, Michael Gaston, Paul Mount, Ed Krejny, Don Wilson and MSJ

73 and Good DX, Sing & BKF

Jerry Starr & Buffalo K. Foonman

### AURICLE

Audio -via Rocky Stone

### LF ENGINEERING M-601 AM ANTENNA



he M-601 is a fully sealed 26inch-long active antenna designed for the AM broadcast band. Operating between 530 and 1,705 kHz, this high-impedance antenna contains a proprietary signal amplifier with 6 dB of voltage gain, plus a high-pass filter for reduction of lower frequency interference caused by light dimmers and power lines. According to LF Engineering, the M-601 is effective in fringe areas where a long-wire antenna of equal gain would pick up noise or would not be practical to erect.

The M-601 consists of the 26-inch B-Probe antenna and a small antenna coupler into which may be mounted a pair of 9-V batteries. Alternatively, the included a.c. adaptor can be plugged into the coupler for operation from the power line. The M-601 system consumes only 0 m Ao Gurrent. A coaxial cable, 50

Company Address: 17 Jeffry Rd., East Haven, Conn. 06513. For literature, circle No. 93

the E-Probe at one end. Its other end plugs into a phono jack on the coupler. The coupler's output phono jack can be connected to the external antenna terminals of your AM tuner or receiver or, via an accessory inductive coupler, to the loopstick antenna of AM sets without such terminals. A stainless steel mounting clamp is included, so you can attach the E-Probe section to a mounting post to elevate it. The suggested retail price for the M-601 with E-Probe, coupler, and a.c. supply is \$89; the accessory AC-600 inductive coupler is \$15. Both prices are postpaid within North America.

LF Engineering claims that this is the first active outdoor antenna designed for AMAX radios. For those of you who haven't heard about AMAX, it is a new voluntary standard intended to improve the quality of AM radio. One of the first tuners to take full advantage of the AMAX standard is the Denon TU-680NAB (Audio, April). Having had an opportunity to test this remarkable tuner, it seemed appropriate to use it in combination with the M-601.

Rather than mount the M-601 on my roof, as recommended by its maker, I decided that a fairer comparison would result if I first logged the number of acceptable AM signals received with just the loop antenna supplied with the Denon tuner. Following that count, I would connect the M-601 to the tuner and see if there was a noticeable improvement in signal quality or an increase in the number of acceptably received signals. Fortunately, the TU-680NAB allows connecting an external AM antenna without having to disconnect its own loop antenna, making comparison tests extremely simple and reliable.

With only the loop antenna connected, I logged 29 signals across the AM broadcast band in my groundlevel laboratory at midday. Of these, approximately a half dozen were plagued by relatively high levels of noise and interference. When I connected the M-601 and repeated the test, I received 31 signals, only two more than before. However, of the six or so that had been noise-ridden, only two still suffered from interference and noise. Furthermore, many of the signals that had failed to light up all of the tiny LEDs in the tuner's signal-strength display were now strong enough to illuminate the entire string of them. The manufacturer's claimed 23 dB of overall power gain for the M-601 system seems to be substantiated. Even the two new signals were clear enough and sufficiently noise-free to be enjoyed.

Repeating the tests at night (when AM reception generally extends for hundreds of miles), I logged only 28 usable signals without the M-601 (one of the signals without the M-601 (one of the signals that had come in clearly by day was now plagued by interference, presumably from a distant station not received during daylight hours). With the M-601, the number of usable signals increased to 33. I have no doubt that if I had taken the trouble to mount the M-601 outdoors at a somewhat higher elevation, I would have been able to pick up many more usable signals.

The LF Engineering M-601 AM broadcast antenna is a fitting addition to the Denon TU-680NAB or to any tuner or receiver whose owner wishes to explore the revitalized world of AM radio.

Leonard Feldman

"THE BASIN COMBINATION"

P.O. BOX 968

POWELL, WYOMING 82435

7 92

Wyoming's Adult FM

# Domestic DX Digest

West: Bill Hale

495 Creekview Drive - Meridian, ID 83642-3241

East: Dave Braun

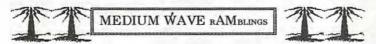
11 Mill Bend Acres - Wyoming, DE 19934-9523

Division line is between East and Central time zones)



DX Catches in the U.S. and Canada, with 24-br. ELT

### DDXD-W



Welcome to first-time reporter Dennis Pimper from Brigham City, Utah who logged a TIS way up on 1700 (see TIS below). Good to hear from the Beehive State. See, knew we had members there! And Thanks! to new NRC member Jon Ellis of Maple Grove, Minnesota for helping out with an unID. Welcome aboard, Jon! Now let's have some loggings from you.

☐ My first report received via Internet arrived 12/11, just minutes before press time. It actually works! My Prodigy address is MTFH12A, and if you are on another service it's

MTFH12A@PRODIGY.COM.

Remember, what we want here is REAL DX. Send your bandscans to that other guy. This is the last of 13 consecutive weeks of DX News, and your favorite column, hi. Yes, folks, we get a week's break. Have a safe and sane New Years eve, and we'll see you in 1994!

### SPECIAL

TX Somerset - 12/6 - Verified by phone (210-828-0810 vs Log entry), station is now operating 24 hours. Female DJ knew nothing about antenna patters, 810 KCHG power, etc., engineer unavailable. During daytimes, format is REL programs in EE & SS, and GOS. ID on-the-hour is KCHG AM 810, Good News Radio, Somerset-San Antonio. At night, format is GOS only. Between 0100 and 0700 selections are back-to-back. Have never heard an ID during this time.

1150 KCPS Burlington - 12/6 0210 - Good with Talknet. Over KSAL/WHBY/CKX test. Schedule is now NSP. (EB-MO)

ID McCall - In response to the AM Switch request in Issue 12, I called KMCL. Was told that, No, the AM was certainly NOT on the air. In fact, they don't even have an AM tower up. But, they have asked the FCC for "time" (late 1240 KMCL-

'94) to get things in order, and were negotiating for some land "out by the airport". I hope not in-line with the runway, hi. [Ed.-ID]

1280 (KXKL) Denver - 11/24-25 - Off the air for several hours, reason unknown. Back on 0355. Only logged one new one - drat. (JW-CO)

1310 KLIX Twin Falls - Is the correct call for this station. See Issue 10 for the logging which spurred me to call them (again). Here's the scoop . . . the company which owned KEZJ-1450 and FM 95.7 bought KLIX AM and FM. They turned in the 1450 license but kept the FM. KLIX-AM 1310 now programs news/talk,

with the yak coming from King, Liddy, Bohannon etal. The person whom I spoke with had no knowledge about 1450 being donated to the College of Southern Idaho. But that doesn't mean it's not fact. [Ed.-ID]

1340 KKYD Denver - 12/1 - Now back on the air with kids format, Radio Aahs network, 24-hour schedule. Address: 7075 W. Hampden Ave., Denver 80227, phone 303-989-1340. Ex: KDEN and silent. (JW-CO) (WH-CO)

WPRC 1370 IL Lincoln - Schedule is now 24 hours. (EB-MO) WLTH IN Gary - Schedule is now 24 hours. (EB-MO)

> KIOT Payette - Not back on yet, but owners say they are planning to return as soon as a few details get sorted out. I read that as "Financial". They indicated it would return with SS programming . . . as before. [Ed.-ID]

1450

Broadcasters Four different tri-fold guides for use with reception reports explaining DX'ing, how the NRC was formed, and the importance of QSL's to DX'ers. Guides to DX AM editions in English, Spanish, and French; FM edition in English.

US\$1.50 for 20. From NRC Publications. (NY residents, add sales tax)

1540 KMBY Capitola - I had the new call wrong on this one . . . It's KMBY instead of KBMY. I finally heard it voiced by a DJ with good diction! (BR-CA)

### UNIDs and UNID HELP

1500 KSTP St. Paul - Does carry the University of Minnesota Golden Gophers, so is probably MD-TX's unID in Issue 10. (JE-MN)

### DX AND EQUIPMENT TESTS

550 KSD St. Louis - 12/5 0300 - Very good mono/stereo signals on night pattern, and excellent mono/stereo on day pattern. Legal IDs, mention of IRCA test, CIDs and TV theme songs. (EB-MO)

MO St. Louis - 12/5 0300-0330 - Heard continuous tone at times, but no noticeable code. Tentative. (FA-ID) KSDt

740 KBOE Oskaloosa - 11/21 0601 - Poor in QRM with 5-minute sequence of CIDs, TT and possible VID. New catch for IA #30. (JW-CO)

WGEA-Geneva - 12/5 0230-0300 - Nothing heard. (FA-ID) 1150 AL

CKX MB Brandon - 12/6 0300 - Fair-to-poor with TTs and CIDs. With KCPS/KSAL/WHBY. (EB-MO)

CKX Brandon - 12/6 0300-0330 - Heard several very weak CIDs, also continuous tone. Beam to CKX is in KGEM null, so expected this to be a lot stronger. Were they running 50 kw? (FA-ID)

CKX Brandon - 12/6 0310 - Very poor with CIDs, tones. Unneeded, but haven't heard in years. (JW-CO)

1170 WDFB KY Junction City - 12/5 0020 - Poor under KVOO/KJOX/WAVS with TTs. (EB-MO)

WDFB-KY Danville - 12/5 0000-0030 - Nothing heard. (FA-ID)

WJSM 1210 PA Martinsburg - 12/11 0002 - Fair-to-poor with CIDs. With XERED, in KMOX-splash. (EB-MO)

1340 KXXY OK Oldahoma City - 12/5 0103 - Piercing through others with intermittent stereo with TTs and CIDs. (EB-MO)

KXXY-OK Oldahoma City - 12/5 0100-0130 - Nothing heard. (FA-ID)

Morgantown - 12/6 0058 - Fair-to-poor through WROK/KITA/WMKM/ 1440 WAJR wv unID SS and WRTH-1430 splash with CIDs. (EB-MO)

WAJR-WV Morgantown - 12/6 0000-0040 - Nothing heard. (FA-ID)

# AM STEREO

### TIS & OTHER STUFF

1610 WGN476 Unknown - 12/6 0640 - Poor-to-good with recorded male voice: This is Oregon State University Travellers Information Station testing - broadcasting on 1610 AM - LSU low power radio station WGN476, at Camp 18. No clue as to location of Camp 18. (JW-OR)

1700 **WRV829** San Diego - 12/2 - In regularly early AMs. You are listening to WRV-829, K-Murph Radio 1700 AM, San Diego, broadcasting from Jack Murphy Stadium. Selling tickets and with parking info. Phone 619-525-8282 or write to 9449 Friars Road, San Diego, California 92108. Called them, and they verified the station being on. (DP-UT)

### MIDNIGHT TO 0800 HOURS ELT

570 WAAX AL Gadsden - 12/7 0005 - Good-to-poor with local news and weather, contest promo, The Famous 57, The Big Wax ID into CWM. With WWNC/KLIF/ WKYX/WNAX. (EB-MO)

580 WELO Tupelo - 12/7 0101 - Good over WKTY with no KFNS-590 splash with Unistar News, local ads, AM 580, The Station that Brings Back Great Songs and Wonderful Memories, WELO Tupelo legal ID at 0105, contest promo with mention of FM sister station WZLQ-98.5 (Z-99) and into Unistar AM Only nostalgia/soft AC feed | WRTH-1430. (EB-MO)

590 WOW Omaha - 12/1 0142 - Fair with ad for a lawyer who handles personal injury cases and ID Hot Country WOW. (TR-IL1)

640 WCRV TN Collierville - 12/1 0130 - Fair-to-poor with ad for play of real story of St. Nicholas. New. (TR-IL1)

		7
680	CJOB	MB Winnipeg - 12/7 0138 - Fair-to-poor with intermittent \$ over KNBR/
		others (including an unID with Bruce Williams, WPTF?) with AC, CLs, weather for Winnipeg and Southern Manitoba, and jingle ID. (EB-MO)
730	CKAC	PQ Montreal - 12/1 0119 - Fair with FF talk. (TR-IL1)
790	WTAR	VA Norfolk - 12/1 0216 - Fair with talk about Dr. Kevorkian's arrest and lawsuit. WBBM QRM. (TR-IL1)
890	CIDO	BC Dawson Creek - 11/29 0143 - With Oldies Coast to Coast. 0200 news by female, temperature in Co, CFL and NHL sports, then back to Coast to Coast. Loop direction, format, etc all fit. But of course, no ID! (JW-CO)
900	KGRB	CA Covina - 11/29 0104 - Heard call in muck. NOS music. New for CA #79. (JW-CO)
910	KLCN	AR Blytheville - 12/6 0854 - Poor with item about the governor's schedule and KLCN News. New. (TR-IL)
940	WMIX	IL Mount Vernon - 12/6 0850 - Fair with oldies and CLs. (JR-IL)
1070	WIBC	IN Indianapolis - 12/1 0019 - Fair-to-poor with sports update. (IR-IL1)
	WIBC	IN Indianapolis - 12/6 0830 - With story on youth [?????-Ed.] on WIBC News. (TR-IL)
	KFDI	KS Wichita - 11/21 0744 - With 51 degrees at Radio Ranch KFDI, then C&W music and a sports roundup. Good over WTSO. (JB-WI)
	CHOK	ON Samia - 12/1 0032 - Fair with oldies. (TR-IL1)
1110	WBT	NC Charlotte - 12/2 0041 - Poor with comparison of freedom of the press in the U.S. and Canada. (TR-IL1)
1130	KWKH	LA Shreveport - 12/1 0042 - Fair with C&W music. (TR-IL1)
1240	KXYL	TX Brownwood - 11/27 0750 - With World War II songs and news. In and out of jumble. AM 1240 KXYL at 0758 and again at 0805, and KXYL only at 0812. Heard occasionally. (JB-TX)
1280	WWIC	MN Minneapolis - 11/25 0100 - This Mike(?) Franklin, and you're listening to Radio Ashs, 1280 AM WWTC Minneapolis-St. Paul into Story Time. Fair-to-poor in QRM. Sounded like a GY channel while local KXKL was off. (JW-CO)
1330	WNIX	MS Greenville - 12/4 0651 - With 1330 WNIX, up from nowhere and gone before I could add my outside antenna for maybe a better signal. KFH nulled. (JB-TX)
1450	KSNY	TX Snyder - 12/7 0254-0300 - With C&W, in and out of jumble. ID: KSNY AM-FM Snyder, followed by an ad, then lost in jumble. Not a 2400 sign-off, as in Log. (JB-TX)
1460	KKGO	IA Des Moines - 12/2 0152 - Good with Des Moines' Best Rock. (TR-IL1)
	WBRN	MI Big Rapids - 12/2 0059 - Fair w/ad for a Christmas tree dealer. (TR-IL1)
	WGNA	NY Albany - 12/2 0055 - Fair with C&W music. New. (TR-IL1)
1490	KWXT	AR Dardanelle - 12/2 0705-0709 - Promo for Christmas Cheer Package
		contest at mall on Saturday 12/4, sponsored by station and Chamber of Commerce. Phone call there found them at 501-968-1337, vs # in Log. (JB-TX)

# **WMB**1110 AM—90.1 FM

### 0800 TO 1600 HOURS ELT

	M—90.1 F	
740	KTWK	CO Colorado Springs - 11/27 0811 - Good with talk/news format, CNN News. Ex: KSSS. New. (SA-MB)
870	WKAR	MI East Lansing - 12/1 1035 - Poor with NPR News. (TR-IL1)
970	WHA	WI Madison - 12/1 1041 - Fair with talk on women's studies. (TR-IL1)
980	WITY	IL Danville - 12/4 1205 - Fair with ad for Vermillion FS. (TR-IL2)
1020	WPEO	IL Peorla - 12/4 1207 - Fair with sports update. (TR-IL2)
1040	WHO	IA Des Moines - 12/1 1044 - Poor with interview with a U.S. Representative from Iowa coming up. (TR-IL1)
1140	WVEL	IL Peldn - 12/4 1211 - Fair with C&W music. (TR-II2)
1190	KFEZ	MO Kansas City - 11/28 0815 - Good with EZL/NOS music. Finally heard. Have been after this for about one to two years. New. (EB-MB)
1210	KQTL	AZ Sahuarita - 12/3 0925 - Strong w/SS and Radio Que Tal slogan. (BR-CA)
1220	WLPO	IL LaSalle - 12/4 1216 - Fair with light rock. (TR-IL2)
1250	WIZZ	IL Streator - 12/4 1217 - Fair with ad for a local insurance agency. (TR-IL2)
1260	WIBV	IL Belleville - 12/6 0932 - With St. Louis-area traffic, ad for <u>Blues Express</u> Bus, Hot Talk 1260 ID. (TR-IL)
1270	KDJI	AZ Holbrook - 12/3 0900 - With ID thru KJUG. (BR-CA)
	WXYT	MI Detroit - 12/6 0935 - Poor, giving 3-day weather report, 430 in Detroit. (JR-IL)
1300	KYNO	CA Fresno - 11/25 0958 - Oldies music. 1000 Ki-no News Update, ads. New for CA #78. (JW-CO)
1350	KRLC	ID Lewiston - 11/25 1007 - Good on peaks with area news, weather (record low of 30), ads and into C&W music at 1023. ID #21. (JW-CO)

1400 WDWS IL Champalgn - 12/4 1224 - Fair-to-poor with talk about Chanute Aerospace Museum at the former Chanute AFB. (TR-II.2) [Ah, Chanute. My home for 6 years! Sad to see it close - Ed.]

1500 KJIM TX Sherman - 12/1 0933 - Fair with gospel. Soldiers of Cross program, . remember, you heard it here on AM 1500 KJIM, courtesy of Downtown Book

1440

1450

**KPUR** 

WFMB

TX

		store in Denison. (JB-TX)
W	TRA	1600 TO 2400 HOURS ELT
550	KFYR	ND Bismarck - 11/22 2158 - Good, with record Happy Organ, then CLs, ABC
570	WWNC	News, and a snow and cold weather forecast. (JB-WI)  NC Asheville - 12/6 2352 - Good-to-fair with intermittent \$ with KLIF/ WKYX/WNAX/WAAX with local ads, EST TC, The Ranch mention, weather
640	KGVW	conditions, CLs and CWM. (EB-MO)  MT Belgrade - 11/30 1714 - Loud during great Northern opening with REL programs, IDs and ads. Can't believe I've never heard this before. MT #19. (JW-CO)
680	WPTF	NC Raleigh - 12/6 2312 - Fair-to-poor with Monday Night Football and WPTF Raleigh-Durham-Chapel Hill ID. (TR-II.)
760	CFLD	BC Burns Lake - 11/30 1645 - Decent reception with local ads and IDs. Annnounces as   Smithers-870. (GS-BC)
770	KCBC	CA Riverbank - 12/2 1950 - Good with religious call-in program, ID as Riverbank-Sacramento-San Francisco into talk about POW/MIA problem. First- timer. (JW-OR)
810	WDDD	IL Johnston City - 12/4 1652 - Good-to-fair with fair \$ over KCMO with CWM, 107 3-D Country ID, local ads, Great Music, WDDD-FM and AM Marion-Johnston City ID into NBC News. (EB-MO)
820	WRFA	FL Largo - 12/4 1710 - Good with Radio Bible Class, ad for St. Luke's Eye Center in the Tampa Bay area into Hope for the Heart. With WBAP, and in WSCR null. (EB-MO)
880	KRVN	NE Lexington - 11/30 1710 - Fair, with a very detailed weather forecast for several mid-western states. (JB-WI)
900	KBIF	CA Fresno - 11/30 1930 - Poor with REL talk into ID at 2000. First-timer.
920	WGNU	IL Grantte City - 12/2 1959 - ID as 920 on your AM dial, WGNU Granite City-St. Louis into C&W music at 1023. Fair-to-poor in QRM. New for IL #23.
980	KUPI	ID Ammon - 11/30 1814 - Fair with Idaho weather into OLD. Slogans World's Greatest Music and OP 98 Gold. First-timer. (JW-OR)
990	CBW	MB Winnipeg - 12/6 2344 - Fair, despite local splash, with classical music. (JR-IL)
1010	CFRB	ON Toronto - 12/6 2346 - Poor with talk on church discipline. Local splash.
1050	WIKA	MI Ann Arbor - 11/30 1710 - Very good with sports and CLs, then completely disappeared - suppose they went to night power. (JB-WI)
1180	WHIM	TN Knoxville - 11/27 1800 - Good with 10,000 watts from Knoxville, Tennessee. Solid Gospel 1180, WHJM Knoxville ID into USA Radio Network. New. (SA-MB)
1230	KMGR	UT Murray - 12/3 2211 - With NOS and ID: Kay-Star is 1400, KSRR Provo and 1230, KMGR Murray-Salt Lake City. (BR-CA)
1320	KCTC	CA Sacramento - 12/9 1917 - Good signal for awhile with NOS, DJ with chit- chat including Christmas greeting from Sunny 1320 KCTC and into Hit The Road, Jack by Ray Charles, honey, then Neil Diamond and Love On The Rocks. Finally faded into obscurity at 1730. [EdID]
1370	CHPQ	BC Parksville - 11/30 1835-1850 - Heard for first time from Victoria, with very mushy audio. Was fairly regular in Vancouver. (GS-BC)
1380	KSMJ	CA Sacramento - 12/9 1932 - In the middle of It's A Man's World by James Brown, then tunes by Mary Wells, Santana and more UC artists. SID KSMI, Magic 1380 between tunes. Good for about 15 minutes at LSS + 20. [EdID]
1400	KART	D Jerome - 12/3 1900 - Clear ID thru KBLX. Had C&W when heard last year, but now news/talk. CBS News on the hour. (BR-CA)
1440	KPIID	TY Amerilla 11/30 1033 Good with Clasinta Pata Paga Cham [1 900 790]

Springfield, and now ABC News. (SA-MB) 1530 KHPY Moreno Valley - 12/3 1941 - With Mexican music. 1915 SID in EE, then sign-off in SS. Radio Felicidad. CA #80. (JW-CO)

Amarillo - 11/30 1933 - Good with CLs into Pete Rose Show [1-800-780-

Springfield - 11/28 2200 - Fair in fade-up with It's 25 degrees in

1560 KCJJ Iowa City - 11/22 2110 - Poor, with CLs and details of a radio contest with nine sponsors. (TB-WI)

PETE, hi - Ed.]. All alone. First time here. (JEL-MO)

### REPORTERS

JB-WI	John Baumgarten Tomah, WI Grundig Satellit 2100 or Delco caradio
TR-IL1	Thomas Reiser Chicago, IL Sony ICF-2003 barefoot
TR-IL2	Thomas Reiser Manteno, IL Sony ICF-2003 barefoot
EB-MO	Eric Bueneman, N@UIH Hazelwood, MO Realistic DX-200, TM-152, SM-2
SA-MB	Shawn Axelrod Winnipeg, MB ICOM R-70 + 4' box loop or 100' lw under 6" of snow
JE-MN	Jon Ellis Maple Grove, MN unID help
FA-ID	Frank Aden Bolse, ID modified FRG-7 + 180' L-longwire or 4' box loop
DP-UT	Dennis Pimper Brigham City, UT JRC NRD535D + 2' remote loop and 80' lw
JEL-MO	J.E. Lewis Kansas City, MO Chinese no-brand MR-228 barefoot outdoors
JB-TX	Jim Boehm San Antonio, TX Superadio II + MFJ Tunable Audio Filter + downspout antenna
JW-OR	Jack Woods Waldport, OR SP-600 + 100 ' longwire
BR-CA	Bruce Reynolds San Jose, CA GE Superadio II barefoot
GS-BC	Gray Scrimgeour Victoria, BC reported from CompuServe via Internet
JW-CO	John Wilkins Wheat Ridge, CO Drake R-8 + 4' box loop
EdID	Editor Meridian, ID Ma Bell phone in one hand on AT&T pen in the other, or Superadio I barefoot with lotsa monitor QRM

### ABBREVIATIONS AND SPECIAL SYMBOLS USED IN DDXD

parallel with/to ⇒:to or into :00:on the hour AC:Adult contemporary AP:Associated Press BBD:big band BRN:Business Radio Net C&W:country & western CCR:contemporary Christian radio CHR:contemporary hit radio CID:code ID CL:call letter EZL:casy listening EE:English FF:French GOS:gospel IRN:Interstate Radio Net LSR:local sunrise LSS:local sunset NBA:National Basketball Assn NFL:National Football League NHL:National Hockey League NPR:National Public Radio OC:open carrier POL: political PSRA:pre-sunrise authority PSSA:post-sunset authority QRM:man-made interference QRN:natural interference QTH:location REL:religious ROK:rock 'n' roll RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPI:United Press International

KAJN / KPWS FM103 AM1560

Where Jesus is Lord

DDXD-E

### **NEWS AND VIEWS**

Welcome to Barry Finkel who submits an UNID on 1620 via the Internet, and Ken Romstadt. Good to hear from both of you!

Hank Holbrook sent along a copy of his QSL letter from the TIS in northern Delaware confirming the calls as WNX<u>T</u>-450. This is the letter Dave Schmidt mentioned in his *Muse* in No. 10.

Mike Hardester notes that his earlier reports on the WCAZ-990 test and the reception of WZZD-990 were on the correct test date of 11/14, not his reported 11/15. Already got his QSL from WZZD, too! And it looks like Mike finally got his eastern VA TIS station cleared up!

Thanks to the geography loving reporters who are helping me find locations in my atlas, turns out the cities I couldn't find <u>are</u> in my atlas, but not in the index! My bifocals skim right over them on the maps, I guess. And thanks to John Hanz for info on mods to the R-5000.

At Paul's request I am not listing actual times for items included in DX tests such as code IDs, tones, etc. If you have a question regarding another's logs, drop me a note and I will respond directly to you.

If you are in the eastern time zone, this is where your reports should be! Great conditions seemed to reappear here the week of 12/6. Thank you all for the kind words and holiday wishes. No DX News next week, weekly through February after that. How about spending the week off from DDXD by sending in a Muse? I hope all of you have had a very joyous Christmas, and wish you a very happy new year.

### SPECIAL

800 WKZI IL Casey - 11/29 0300 - Fair under CKLW with ID and soft religious music, heard around this time several times since so they're 24 hours now. (SF-TN)

800 WTMR NJ Camden - 12/5 0136 - I thought this had been reported before, but the log doesn't show it, heard over CKLW at this time, apparently 24 hours. DS? (DB-DE)

1050 WGAT VA Gate City - 12/5 0333 - In WTKA null with bluegrass music and drop-in ID "WGAT Gate City". No sign of CHUM. (REH-ON)(Note 24 hour schedule – db)

1330 WFLP PA Erie – For the last two weeks in November I had been hearing a non-believer in calls IDing only as "Flagship 1330", and suspected common SSS/SRS pest WEYZ with a call change and a format change from EZL to Newstalk. Suspicion confirmed 11/30 at 1630 when heard legal ID "News and talk for northeast Pennsylvania, this is Flagship 1330, WFLP, Erie" into sports report leading off with announcement that the Erie Sailors (minor league baseball) had been sold and would be leaving town in '94. No advance warning – I didn't see this call change in AM Switch or Broadcasting Information. (MB–ON)

1330 WADJ PA Somerset - 12/10 0001 - Noted with promo for area Christmas programs, mentions of sponsors on Berlin and Somerset. 24 hours now? (DB-DE)

DX TESTS

KSD MO St. Louis – 12/5 0300–0330 – Series of code ID sequences 90 seconds in length barely audible under WICE/CFNB beginning at 0315. (RA-MA)...Good with code IDs and voice IDs over all after 0315. (DB-DE)...Faint code before 0315 under WAYR/Cuba/WLWA/KTSA, then loud and clear after 0315. Alternated voice and code IDs, plus theme music from various old TV shows. (SF-TN)...Noted on DX test, two distinct but weak code IDs from 0300–0315 and Christmas music. After 0315 code IDs and voice IDs clearly heard. (MH-NC)...Very weak code IDs before 0315, came up strong after 0315 again with code IDs into voice ID, ending with more code IDs and TV theme music. Fair to good over/under WLWA. (JL-OH)...Code IDs heard on the non-directional pattern. Weak on the Quantum, totally inaudible on the wire. (EU-NY)...Nothing heard. (JH-NJ)

740 KBOE IA Oskaloosa – 11/21 0115–0200 – Nothing noted after CBL sign-off except bits of tone. No code IDs heard. Signal too weak, too much electrical noise. (MB-ON)

1150 WGEA AL Geneva – 12/5 0230-0300 – Test tried but not heard. (RA-MA)...Not heard, only WDEL/brief WMET/UNID music. (DB-DE)...Not heard, just CKOC and several weaker ones. (SF-TN)...Nothing heard, too much WDEL/WRUN. (JH-NJ)...Not heard 0230-0245, only WDEL IDed, UNID with program on gun control, and a phone prefix of "488" heard. (MH-NC)...Nothing heard as WIMA dominated the frequency. Even though their over night automation provided plenty of dead air at times, I still had no luck. (JL-OH)...Not heard. (EU-NY)

CKX MB Brandon – 12/6 0300–0330 – Tentative on test with periods of code IDs and/or short tone bursts. WMEX and others covering freq.(RA-MA)...Heard extremely high-pitched TT, 1 kHz TT and code IDs. Other code IDs heard under high-pitched TT. Quite unusual. While the code IDs definitely belonged to CKX, I wonder if WIMA was running ET at the same time as the TT had more punch to it. Good to fair.(JL-OH)...High-pitched/varying TT early in period, unknown if them, in WDEL null.(DB-DE)...No luck, CKOC was in command and midwest conditions were below par. (SF-TN)...Nothing heard, too much WDEL/WRUN. (JH-NJ)...Not heard 0300–0320, noted only WDEL with occasional mention of WPGC, another talk station, rock music, and blues. Did hear brief tone sweep early in period, but nothing else. (MH- NC) (Station with mention of WPGC was WMET-MD – db)...Not heard. (EU-NY)

1170 WDFB KY Danville - 12/5 0000-0030 - Good with code IDs, TT. (KMR-MI)...Test tried but not heard, too much WWVA. (RA-MA)...Only WWVA (DB-DE)...No sign of 'em. (SF-TN)...Not heard, only WWVA and in their null UNID man talking, but couldn't make out language. (MH-NC)...Not heard, only a weak UNID SS. (JL- OH)...Not heard, just WWVA and two UNID SS. Rats! (EU-NY)

1210 WILY IL Centralia – 11/21 0230-0300 – Nothing noted in partial WOGL null. If they were playing Beatles music they should have been heard. WOGL was airing sports talk instead of usual oldies. (MB-ON)

1340 KXXY OK Oklahoma City – 12/5 0100-0130 – Heard 1 kHz TT, TTs of varying pitch and one code ID. Poor to fair in a very thick GY soup. (JL-OH)...Varying TT, two code IDs heard. (REH-ON)...Good with tones, code ID. (KMR-MI)...Not heard, only WYCB/WMID. (DB-DE)...Not heard, although somebody was in there with intermittent 1 kHz tones and tone sweeps. (SF-TN)...Nothing heard, too much WHAT/WMID. (JH-NJ)...Not heard 0100-0115, only three UNIDs – oldies, religion and talk. Also noted instrumental version of White Christmas. (MH-NC)...Not heard. No surprise, but what the heck, I was up for the WDFB test anyway. (EU-NY)

- WAJR WV Morgantown 12/6 0000-0400 Good with code IDs and voice IDs, mentions of IRCA, CW music. I believe this was another regular schedule test, although they were definitely on the day rig. (SF-TN)...Very weak, heard only Morgantown WV ID at end of test. (JH-NJ)...Heard between 0208-0240 with possible weather report and mention of WAJR, code ID, male announcer with phone number and another brief segment of code. Poor, couldn't even make out all of code. WSSL QRM, and UNID business talk show. (MH-NC)...Very poor on test with code IDs, maybe some CW. (EU-NY)...Nothing heard except for an UNID ESN with slogan "Sports 1440". Could have been WWZN per Chuck Reh in Issue No. 9. (JL-OH)
- 1500 WFIF CT Milford 11/22 0530-0600 This test was NOT aired. I am but 10 miles from the transmitter and all I heard was WTOP...usually WFIF booms in here. (TF-CT)

### UNID AND UNID HELP

- 550 WLUN? 12/5 0310 During the KSD test WLWA occasionally noted. At 0310 a station faded up with what clearly sounded like "...right here on 5-50 AM, WLUN..." and (as per Murphy) back into mud. Ideas? (MH-NC)
- 670 UNID 11/30 1753 Very poor in WMAQ null with lots of CFTR-680 slop, man and woman in Spanish alternating with news or commentary. Could be Cuba (I would probably put a few pesos on it), however conditions weren't particularly auroral. (MB-ON)
- 1170 UNID 12/9 1713 End of religious program with address in Texas, ID at 1715 sounded like WTSW? (DB-DE)

### 0000 to 0800 ELT

- 540 WGTO FL Pine Hills 12/5 0258 Sounded like the end of a sports-talk program, then a promo for a show "heard weekdays on WGTO", then music by The Righteous Brothers. Local WLIX off tonight making this one possible. (EU-NY) WWCS PA Canonsbug 11/24 0659-0700 Poor in CBEF null, fighting WGR-550 slop with BBC World Service interval signal, legal ID at top of hour (instead of the time pips that would be heard on BBC): "We are WWCS Canonsburg-Pittsburgh, 540 AM stereo" into BBC World Service news. (MB-ON)
- 600 WSOM OH Salem 12/6 0640 Fair with Unistar NOS feed, several call mentions in promo for Salem High School basketball coverage. (SF-TN)
- 670 WIEZ PA Lewistown 11/26 0700 "Oldies 670" fair in WMAQ null with sign-on followed by local news, Cuban pest already gone with the early Caribbean sunrises of winter. (SF-TN)
- 770 WAIS OH Nelsonville 11/30 0743 Poor-fair in WABC null with "Commercial Trivia" contest promo, "WAIS" ID jingle into CW tune. (MB-ON)
- 800 KXIC IA Iowa City 11/29 0200 Poor under PJB/WKZI with "KXIC Iowa City-Cedar Rapids" ID. (SF-TN)
  CKDR ON Dryden 11/29 0207 Briefly with call ID "In the heart of Ontario's Sunset Country ??? CKDR". Local CKLW was off. (REH-ON)
- 890 WFKI PA Cashtown 11/30 0700 Weak under WLS with sign-on. (SF-TN)
- 900 WKDW VA Staunton 11/20 0708-0713 CW music, "Virginia's best country", commercials. Lost under WSSR-DE 0713. With loop atop channel most of period before they nose-dived. (HH-MD1)
- 910 WSUI IA lowa City 12/3 0700 Call letters heard twice while switched west looking for possible CKDQ but no luck! (RB-NC)
  - WTMZ SC Dorchester Terrace 12/3 0657-0703 "Big Show" weather in the "Low Country", legal ID and ads for *The Checkered Flag* and *Gilligan's Restaurant*. New here with good signal over normal WORD. (RB-NC)
- 940 WGFP MA Webster 11/25 0632 Good over CBM with local news, traffic and "News Talk 940, WGFP" slogan. (EU-NY)
- 970 WFSR KY Harlan 12/1 0655 Harlan County legislator talking about health care package with mentions of Harlan, Harlan County and Kentucky, but right into CNN news at top of hour with no call letters. Following news was The Birth Report from the local hospital. Good several mornings over/under normal WWIT and WAVG but still no call letters! (RB-NC)
  - WESO MA Southbridge 11/25 0659 In and out for the last 20 minutes under WWDJ with local news, 0700 national news sponsored by Keswick(?) Motor Sales. (EU-NY)

1000 WMUF TN Paris - 11/29 0700-0715 - Had to suffer through Kiss Me in the Car and Mercury Blues to hear female DJ say "Country 1000, WMUF. It's 36 degrees in Paris". Then "to have your anniversary announced, call 644-WMUF". Creaming WMVP at sunrise. (RB-NC)

1140 WCJW NY Warsaw - 11/23 0657 - Fair in nulled WRVA with CW music, local

weather, promo for USA Radio news on the hour from "CJ Country". (MB-ON)

1150 WMET MD Gaithersburg - 12/5 0234 - Heard "On Washington's...WPGC-AM" in WDEL null while trying for WGEA test. First time heard here. (DB-DE)

1230 WBFX IN Terre Haute - 12/4 0345 - On top with promo for a WTWO-TV telethon for 'The Salvation Army in the Wabash Valley". Into the "WZZQ/WBFX weather forecast". (REH-ON)

1330 KFH KS Wichita - 12/5 0055 - Caught this one while setting up for the KXXY-1340 test, with Pearl Harbor promo into Dick Clark's Rock, Roll and Remember -

focus year 1970. Fair to good over co-channel hash. (JL-OH)

1340 WYCB DC Washington - 12/5 0101 - Very strong at tune-in for KXXY test with B:GOS and legal ID "We're touching families like no one else can with Family Radio, AM 1340 WYCB Washington". Fortunately they faded away in time to hear KXXY. DC #10. (REH-ON)

1370 WELV NY Ellenville - 12/1 0708-0711 - Poor in fight with WXXI, WSPD, etc. with local news, ID as "News Talk Radio 1370 WELV", promo for Santa's visit to a mall on Route 409 in Ellenville. (MB-ON)

WELV NY Ellenville - 12/3 0649+ - Good in a tight WALK null with NOS instrumentals, "Talk Radio 1370" slogan and legal ID. Fairly close-by, but previously

unheard. (EU-NY) (Who had the "NOS instrumentals"? - db)

1390 WDCW NY Syracuse - 11/26 0529-0603 - Ex-WFBL. Pop Christian music, weather, PSAs and ads. "AM Stereo 1390 WDCW." Little to heavy QRM jumble and WMZQ-VA. WFBL QSL from 2-25-48 - nice big QSL card. (HH-MD1)

1430 WXKS MA Everett - 11/27 0645 - Faded in with partial ID "here on Music of Your

Life on WXKS" into music by Barbara Streisand. (EU-NY)

1440 WLPZ ME Westbrook - 12/6 0159 - Good on fade up with "When you're looking for sports all the time, all sports 1440 WLPZ, Westbrook-Portland". Heard later (I believe) with SEN programming. (EU-NY)

1500 WTOP DC Washington - 12/6 0335 - Noted off this MM. Unfortunately, channel was pretty much dead tonight. (EU-NY)(Noted off here at 0342, only UNID SS - db)

1570 WCLE TN Cleveland - 12/6 0330-0340 - With frequent "104.1" IDs and one for "WCLE AM..." Country format. UNID noted weakly under WCLE. Good level. (MH-NC)

WKEN DE Dover - 12/5 0119-0156 - Believed the one noted with oldies format, mention of Hot Wax Weekend", and a toll free number of 800-833-9200. Spot for what sounded like Happy Harry's in Dover. Near top of hour, man with what sounded like slowly spelled "WKEN". Poor to fair with fading. (MH-NC) (That's them, Happy Harry's is a local drug store chain - db)

### 0800 to 1600 ELT

560 WPHY PA Philadelphia – 11/29 1555 – In partial WHND null with religious talk followed by Philly weather forecast and legal ID "WPHY Philadelphia, first on your dial". (REH–ON)

890 WFKJ PA Cashtown - 11/27 1555+ - Excellent local like signal with end of Pat Boone Show, instrumental filler, legal ID and "Working for Christ Jesus" slogan. (EU-NY)

900 WSSR DE Georgetown - 11/11 0859-0935 - QSLd under WJWL call 7/11/51!
Good here days, Unforgettable WSSR AM 900, popular music, ads and weather.
(HH-MD1&2)

910 WRVH VA Richmond - 11/23 0859-0936 - Ex-WRNL. Pretty good, little QRM from WSBA at times. America in the Morning with local ads. Announces as "AM 910 WRVA" except on hour when WRVA/WRVH calls given. (HH-MD1)

950 KLIK MO Jefferson City - 11/28 0950 - Fair in WXLW null with CW music, ID "95

Country, KLIK", new. (MB-IN)

1270 WTSN NH Dover - 11/29 0828 - Poor with local daytime pest WHLD nulled with "WTSN three-day weather", sports. (MB-ON)

1290 WFBG PA Altoona - 11/26 1556 - Above WCCC briefly with "Doug McCloud(?) inviting you to join me tonight for exciting Pittsburgh Penguins hockey on WFBG, Altoona's best choice for sports. (EU-NY)

104.5 FM / 1590 AM

- MD Baltimore 11/4 0958-1030 Ex-WHLP, now playing Legends, good 1360 popular music from the 30s and 40s, etc. Good signal with slight QRM from WNJC-NJ. (HH-MD1&2)
- 1390 WKDR VT Burlington - 11/29 1552 - On top with talk. Legal ID at 1559: "This is the flagship station of Hometown Broadcasting Company, WKDR Burlington" followed by the ABC news fanfare but into local news. (REH-ON)

### 1600 TO 2400 ELT

ON Ottawa - 11/21 2045 - "54 Rock", in way over WLIX with rock, thought 540 this guy was off the air!!?? (TF-CT)(AM Switch in No. 5 said that the Canadians usually stay on the AM for a few months during the transition - db)

FL Miami - 11/20 2044 - In like a local with Washington Caps-Miami 560 hockey, and IDs for "Sports Radio 560", listened to it for 30 minutes while cleaning my den, then gone under WHYN and WPHY. (TF-CT)

CIRV ON Kirkland Lake - 11/24 2145 - Way on top with Philadelphia Flyer-Montreal hockey! (TF-CT)

680 WPTF NC Raleigh - 11/30 1635 - Good with ID, weather, traffic report. (MB-IN)

VA Bristol - 12/3 1658 - Commercial for Gingerbread House, very detailed 690 weather, ID "WZAP Bristol" on the hour, USA news, followed by "WZAP" teaching ministry continues and Call to Calvary preaching, over at 1715 when announcer noted that he had to drop power and the 10,000 watt signal would be back at sunrise. No brokered WADS tonight!! (TF-CT)

TX Tomball - 12/5 1826 - "KSEV" ID under WLW with ads for Sears and 700 other national outlets, into "Talk Radio for Houston" program with 1-800-582-????

phone number. (KMR-MI)

MS Richland - 12/5 1755 - Good on south beverage with black gospel music, 720 WWDF gone at 1758. Sign-off? (KMR-MI)

KSAH TX Universal City - 12/5 1828 - "Radio Festival" mention on south 700" beverage. Also mentions of San Antonio. Gone at 1830 pattern change. (KMR-MI)

760 KMTL AR Sherwood - 12/6 1757 - Poor in null of a weak WJR, religious music, sign-off with address as in log. (DB-DE)

790 WWKY KY Louisville - 12/9 1658 - Excellent signal, talk program, ad for Howard Johnson's, promo for another talk program tomorrow "on WWKY". (DB-DE)

TN Alamo - 12/5 1825 - Noted with an ad for The Alamo Drug Company into 810 WCTA a "WCTA" ID then Christmas music. (KMR-MI)

860 KKOW KS Pittsburg - 12/6 1752 - Poor but alone with a promo to call "Star 86" on your cellular phone, call ID, CW music. First KS here! (DB-DE)

870 KAAN MO Bethany - 11/27 1759 - Fair in partial WWL null with Missouri Network news, weather for the "Can listening area", brief statement that "Can AM" would now leave the air, and legal ID for AM and FM. (SF-TN)

890 PA Cashtown - 11/28 1600 - Chewing up nulled WLS with ID as "WFKJ 890 AM, we've got the best in gospel...God's Word is a light unto our path. We encourage you to listen and tell others about WFKJ" into USA Radio news. Lost to WLS by 1605. (MB-ON)

910 WNEZ CT New Britain - 11/27 1623-1624 - Fair-good in CKLY null with promos for "910 CNN" news and for a TV-radio simulcast of WTNH-Channel 8 evening news weekdays at 6:00 pm on "910 CNN, WNEZ New Britain-Hartford". Heard before with IDs only as "910 CNN". Now their scheduled 12/13 test isn't needed. (MB-ON)

940 WADV PA Lebanon - 11/26 1621 - Excellent with REL:AC, "Gospel Music Radio" slogan, and ad for manufacturers outlet mall. (EU-NY)

960 KZIM MO Cape Girardeau - 11/30 1700 - Good with ID, news, local ads. New. (MB-IN)

1000 WRAR VA Tappahannock - 12/6 1644 - Tuned in and caught female with "WRAR, the (??) continues on FM 105.5 WRAR". Sign-off? No sign of WMVP, or anyone else. (EU-NY)

1080 WTIC CT Hartford - 11/30 2020 - Good-fair with ID, local ads. Lost to KRLD at 2025. New state! (MB-IN) NC St. Pauls - 12/4 1655 - Mixing with WKGX with program called The WKKE Redeemed Evangelistic Ministry. Had sign-off at 1700. (REH-ON)

VA Churchville - 11/26 1647 - Very good rising above the mess with Valley 1150 WNLR

Forecast weather sponsored by Calomato(?) Paint Supply in Staunton. (EU-NY)

- 1160 WODY VA Fieldale 12/4 1640 In WWON null with REL music, call ID and reminder of USA Network news at 1700. (REH–ON)
- 1260 WBUD NJ Trenton 11/17 1640-1643 Fair over usually dominant WRDZ, WRIE and WNDR with local news, ad for *Thrift Drugs*, ID as "WBUD, your hometown station", promo for Christmas craft bazaar at the Groveville United Methodist Church, local "WBUD hometown weather" report. (MB-ON)
- 1290 CJBK ON London 11/25 2220 Oldies, IDs for "All oldies CJBK", atop freq. (TF-CT)
- 1310 WCCW MI Traverse City 11/27 1711-1715 Fair over CIWW and WMTG with public service message from National Institute of Mental Health, ads for Trent Window Coverings and Modern Gifts and Collectibles, sign-off announcement giving address as 121 East Front Street, Traverse City, 49685. No SSB. (MB-ON)
- 1320 WJAS PA Pittsburgh 11/25 2235 "Great memories on WJAS", MYL music, good signal. (TF-CT)
- 1330 WWRV NY New York 11/23 1901 Good with English ID as "WWRV New York, 1330 AM with Radio Vision Christiana International 535 AM South Caicos, Turks and Caicos Islands, British West Indies" into usual Spanish gospel programs. Also noted on 535 (seems like everyone and his dog is hearing this), in fair over CIAO-530 slop. (MB-ON)
- 1340 WMSA NY Massena 11/29 1630 In WEXL null with Ronnie Milsap song, call ID and "Today in Entertainment History". (REH-ON)
- WWLG MD Baltimore 12/4 2238–2315 Call-in show to reminisce about old Baltimore with host Paul Potter, ads for Maryland Refrigeration and Erectaid, WWLG sounder at 2300, ABC news and more call-in talk about old Baltimore, sharing frequency with WNIC years weak WDRC (TE-CT)
- with WNJC, very weak WDRC. (TF-CT)
  WNNJ NJ Newton 12/5 1830-1900 Fair-poor, Giants vs. Dolphins football
  //WOR-710. This makes no sense, WOR has 50 times the power and at least 4 times the
  coverage area. What's the connection? (JH-NJ) (WNNJ probably carrying the Giants
  football network, better local reception? db)
  - WNJC NJ Washington Township 12/4 2210 Way atop frequency with CW music, IDs at 2219, complete ID "AM 1360, WNJC, Washington Township. All New Jersey, all Country, all of the time" at 2230 then more CW to about 2255 when WWLG dominated. (TF-CT)
- 1390 WDCW NY Syracuse 12/3 2157 Christian music, ID at 2200 for "A new exciting Christian radio station, WDCW Syracuse" into musical program Night Lights, all under WMXZ. (TF-CT) (Do you mean WMZQ? db)
- 1400 WEST PA Easton 12/9 1725 Fair under WDOV slop with ad including mention of AAA, sung ID, NOS White Christmas. (DB–DE)
- WTLN FL Apopka 12/7 1725 Great signal on Superadio in Berkey, Ohio with REL. Southern Baptist music and talk. Many mentions of Orlando. Gone at 1730 recheck. #2376 heard. (KMR-MI)
- 1570 WPEP MA Taunton 12/9 1806 Poor but clear News Talk 1570 WPEP" ID, Accu-Weather forecast, many IDs. (DB–DE)
- 1590 WGYJ AL Atmore 12/5 1800 In WAKR null with REL music and legal ID "This is the Christian voice?" in stereo, WGYJ Atmore". Into USA Network news. (REH-ON)

### OTHER STUFF

- 1610 KMB824t IL Chicago 12/4 0330 No call given but suspect this one with road construction info for Chicago's Kennedy Expressway. (REH-ON)
- WPAM997 NY Buffalo or Grand Island? 11/29 1905 ID as "This is the New York ??? Authority Highway Advisory radio, WPAM997. We broadcast at 1610 kilohertz." Carried telephone feed of weather from the NWS in Buffalo. Also heard mentions of Grand Island. Not 100% sure of call letters. (REH-ON)
- 1610 WNCY224? NY Westchester County Center/White Plains 11/3 0349-0425 With taped message with events at the center and ticket information. First time noted pretty good signal with little to heavy Anguilla QRM. Has QSLd, did not change call on my ppc no call sign in letter. (HH–MD2)
- 1610 WNZY222 NY Westchester County 11/29 1910 "Westchester County Information Radio" with alternating male and female telling of upcoming events. (REH–ON)
- WPCD802 PA Philadelphia 12/2 1720 Philadelphia International Airport with female giving info on parking, shuttle busses and which airlines use terminals A through E. PA #250. (REH-ON)

VA Kiptopeke State Park - Will the real park please stand up and identify 1610 TIS itself? Letter received 12/6 from Kiptopeke State Park identified the park as "Eastern Shore National Wildlife Refuge" and the station is the "Cape Charles Travelers Information Station". WARNING: "the station also carries a brief message promoting Kiptopeke State Park". Whew! (MH-NC)

12/2 1816 - All I could make out was a female saying "National Wildlife 1610 Refuge" and the sound of a flock of seagulls. (REH-ON) (Not again!...this is the TIS IDed

by Mike Hardester above - his original report included an ID of KIE651 - db)

1620 NY Central Islip - 12/4 1430+ - While attending an event held on the campus of the NY Institute of Technology, I noticed some flyers promoting the campus radio station "WCEI-1620". I checked it out later when I arrived home, and there they were with rap music. Phone calls to NYIT have gone unanswered so far. Seems to be running a limited schedule - apparently only Saturday afternoons and evenings. Wonder if they know these call letters are licensed to 1460 in MD? (EU-NY) (Or if they care! - db)

1620 UNID 12/8 2300 - Voice, no music, repeated mention of phone numbers 345-34??. I could not catch any of the announcements between the phone numbers, (BF-IL)

12/5 0030+ - Good with "8W004" repeated five times in morse code, four 1625 8W004 minutes of silence, then code sequence repeated. Seems very similar to Bruce Conti's logging in Issue No. 3, but with slightly different call letters and frequency. (EU-NY)

1647 RE: REH's log in 12/6 DX News, as db points out, there is a MEDFER in New Orleans. Frequency is 1646.5, and the station has been heard here once. Darn nice log!! (MH-NC) (The December Lowdown from LWCA shows the frequency change for "Y" from 1642.8 to 1646.5 in mid-October - db)

### REPORTERS

RA-MA Ray Arruda, Acushnet, MA: SX-122, HQ-180A, Radio West and Palomar Loops

RB-NC Ron Bailey (AA4S), Shelby, NC: Icom IC-765, 7 beverages MB-ON

Mike Brooker, Toronto, ON: Panasonics RF-2200, RFB-45 MB-IN Mark Burns, Terre Haute, IN: Drake R-8, 80' longwire, Quantum Loop

BF-IL Barry Finkel, Argonne, IL: Yaesu FRG-7700, McKay-Dymek DA-3 ferrite antenna

TF-CT Tony Fitzherbert, Fairfield, CT: Sangean ATS-803A, GE Superadio, all on a Lazy Susan for instant nulling

Steve Francis, Alcoa, TN: Realistic TRF SF-TN

John Hanz, Old Bridge, NJ: Drake R-8, Alpha-delta sloper JH-NJ

Mike Hardester, Jacksonville, NC: Icom R-70, Radio West 22" ferrite loop MH-NC

HH-MD1 Hank Holbrook, Dunkirk, MD: Hammarlund SP-600, Colegrove Loop HH-MD2 Hank Holbrook, Dunkirk, MD: Hammarlund SP-600, 50 ft longwire SW

Jeffrey Less, 223 Pasadena, Toledo, OH 43612: Panasonic RF5000A IL-OH

Chuck Reh, Learnington, ON: R-390A, Sanserino Loop, Realistic TR-3000 open reel REH-ON tape deck

Ken Romstadt, Ottawa Lake, MI: NRD 525, Radio West Loop, 700' south beverage, KMR-MI 700' east beverage

Ed Urzi, Centereach, NY: EU-NY

DB-DE Dave Braun, Wyoming, DE: R-5000, Palomar Loop

Dave

Country 88 KMFR

Power 93

### IRCA AM-FM ALMANAC - 1991 Edition Reprint

IRCA has reprinted a limited number of copies of the 5th Edition of the IRCA AM-FM ALMANAC. Several DXers have expressed interest in obtaining the most recent Almanac edition from 1991, rather than waiting for the next complete Almanac in 1994.

■ 1991 Edition -- This is the edition sent to the press in October 1990. Information is from 1988 thru 1990. Much of the information is still useful today.

Be sure to state your preference for Looseleaf or Comb Binding. This edition is available looseleaf, ready to hole-punch and place in a binder, allowing for easy updates. Comb binding is available at no extra charge if you request it.

The price for this reprint is the same as in 1991:

IRCA/NRC member: US - \$13.00 Canada - \$14.00 Overseas Sea Mail - \$14.00 Overseas Air-Mail - \$17.00 US - \$15.00 Canada - \$16.00 Overseas Sea Mail - \$16.00 Overseas Air-Mail - \$19.00

Send check or money order, payable to IRCA in U.S. funds, to Phil Bytheway, IRCA Bookstore, 9705 Mary N.W., Seattle, WA 98117. Thank you!

# International DX Digest

**Jim Renfrew** 61 Wilcox Street Rochester, NY 14607-3832

Foreign DX Catches. Times are UTC; for ELT, subtract 5 brs.

Darned if I can figure out how to send files composed offline by e-mail. America Online doesn't allow for attaching files to e-mail messages. Any help would be appreciated. All messages and files are being received, however.

Via Jean Burnell on e-mail we have David Crawford's recent DXpedition report from Florida. Adds Jean: "There are not enough DXers in Newfoundland so we are making more: my wife gave birth to Emily at 0530 UTC on NOV 30. Hence, not much time to DX recently ..." (Not many children come into the world with a UTC birth time ... congrats!)

A belated thanks to Jack Woods for some helpful tips on installing the KIWA filter kits.

I'll probably wait until the summer.

PAN-AMERICAN DX

570.5v UNID LA NOV 26 2200 - throughout night, drifting to 570.7, SS woman talk, bad audio & hum. No IDs noted. [DX\*FL]

600 CUBA CMKV Urbano Noris, DEC 7 0320 & 0430 - Fair, call-in show, mention of Habana, R. Progreso ID. [Reiser-

IL]

650 MEXICO XE?W location unknown, NOV 20 0002 - Woman with news, 0204 man with ID under XETNT "escucha Ud. XEG(?)W, Radio ...", also mentioned address and phone, but too much QRM to pull through. Also heard on DEC 11 0031 mixing with XETNT and HJJX. Seems to loop more or less south. Slogan sounds like "Radio Frank" or something

phonetically similar. [Wilkins-CO] 650 CUBA Radio Reloj, NOV 27 0017 - usual format, unlisted channel & not previously heard. [DX\*FL])

655 EL SALVADOR YSS, NOV 27 0140 - low

audio, SS man. [DX\*FL]

660 MEXICO XEAR La Mexicana, Tampico, DEC 12 1155 - Heard with ID during music program. Mexican national anthem appears to have been played by them at 1159, although it was heard a few minutes before as well, probably XERIN signing on. Weak through WFAN. [Renfrew-NY]

705 ST. VINCENT, DEC 11 0240-0400 - Weak but steady in slop from adjacents with island music (soca, calypso, steel, etc). Male DJ mentions

"Caribbean (Connection?)" Saturdays from ten til midnight "on NBC", faded into slop before scheduled 0400 sign-off. [Renfrew-NY

720 MEXICO DEC 11 0100 - Long talk by man with many mentions of "Saltillo" and "Coahuila". Heard a few days earlier with the same format, and same city and state mentioned, so maybe the location of the station. I thought it might be KSAH at first, but it "sounds" Mexican. Fair at best, but not too much ORM. ID, of course, is elusive. Talk until 0300 or 0400, then Mexican music, "La Siete Veinte AM" slogan, CST timechecks. [Wilkins-

740 PUERTO RICO WIAC San Juan, DEC 11 0656 - Heard loud and clear with ads for San Juan area and call ID at

0700. [Renfrew-NY]

840 HAITI 4VEH, NOV 26 2335 children's choir, Kreyol man through phasedout WHAS [DX\*FL]

880 VENEZUELA Mundial 880, NOV 27 0845 - merengue mx, ID, mentions of Punto Fijo, vocal music. Fair/good over WBBM. [DX\*FL]

920nf DOMINICAN REPUBLIC Radio Universal, NOV 27 0850-0901 -"Concert Hall" program, SS man,

RADIO NACIONAL DE ESPAÑA



merengue music. 0901 cart ID mentioning only 650/98.1 freqs. Excellent level. Also heard on // 650. This probably the "eternal merengue" station heard by Krueger/Crawford back in August at Oak Hill site. [DX\*FL]

1146 HAITI Radio Caraibes, NOV 27 0915 noted open carrier, recheck 0928 had Creole man, choral & guitar music,

strong signal. [DX\*FL]

1150 VENEZUELA Mundial Caribe, NOV 27 0905-0912+ - Mexican (!) vocal mx to 0912 Man ID, ad string, fair/good level over the Daytona station. [DX\*FL]

1610 COLOMBIA TDA (NDB), Trinidad, NOV 27 0220 - A2 Morse ID through co- channel, strong peak. [DX\*FL]

TRANS-ATLANTIC DX

153 ALGERIA RTVA, NOV 26-27 throughout evening with fair signs, AR px. [DX\*FL]

183 GERMANY Europe No. 1, NOV 26-27 -FF programs throughout evening with poor/fair signals, GWEN QRM. [DX\*FL]

612 MOROCCO Sebaa-Aioun, NOV 30 0533 man in AA, then vocal & violins; good. [Connelly-MA]

738 SPAIN Barcelona, NOV 28 0613 - fair with SS talk by man & woman.

[Connelly-MA]

747 HOLLAND Flevoland, NOV 28 0615 man in DD; atop others and about equal in strength to adjacent CKGB/WSB/YVKS-750. NOV 30 0539 - soul version of "If I Was a Carpenter", then DD talk; good to excellent, stronger than the mess on 750. [Connelly-MA]

756 GERMANY Braunschweig/Ravensburg, NOV 28 0616 - EXCELLENT with organ music. NOV 30 0540 - GG talk; EXCELLENT. [Connelly-MA]

774 SPAIN Valencia et al., NOV 28 0617 - SS talk by man & woman; fair to good through slop. [Connelly-MA]

837 CANARY ISLANDS/SPAIN, NOV 28 0620 - dominant with echoey SS talk. NOV 30 0543 - EXCELLENT with SS news about strikes; atop Azores PP music. [Connelly-MA]

855 SPAIN Murcia et al., NOV 28 0622 - man & woman in SS; fair through WHDH

slop. [Connelly-MA]

873 SPAIN Zaragoza, NOV 29 0452 - man in SS; fair to good over others. [Connelly-MA]

882 ENGLAND Washford, NOV 28 0625 traditional high-energy Celtic fiddling - a great show and an excellent signal! NOV 30 0544 - EE discussion; fair. [Connelly-MA]

891 ALGERIA Algiers, NOV 28 0628 - LOUD with female AA vocal & violins. [Connelly-MA]

909 ENGLAND Moorside Edge et al., NOV 28 0639 - EE talk, poor in slop from FF Canadian on 910. [Connelly-MA]

945 FRANCE Toulouse, NOV 28 0645 - fair with man in FF. [Connelly-MA]

954 SPAIN Madrid, DEC 1 0512 -EXCELLENT with SS news by man. [Connelly-MA]

981 ALGERIA Algiers, NOV 29 0508 - AA talk in WTRY slop. NOV 30 0547 male AA vocal; poor in slop. [Connelly-MA]

999 SPAIN Madrid, NOV 29 0510 - fast SS talk in CKBW slop. [Connelly-MA]

1017 GERMANY/SPAIN/unID's, NOV 29 0512 - an almost graveyard-like mix of carriers & audios here. [Connelly-

1017 GERMANY, NOV 30 0551 - pop mx., man in GG; poor to fair. [Connelly-

1044 MOROCCO Sebaa-Aioun, NOV 28 0649 - woman in AA, then light music; atop Spain station. [Connelly-MA]

1053 ENGLAND, NOV 28 0650 - remake of '63 hit "Up on the Roof", // 1089; EXCELLENT signal. [Connelly-MA]

1062 DENMARK Kalundborg, NOV 28 0651 -EXCELLENT with man in Danish. NOV 30 0552 - telephone interview; loud. [Connelly-MA]

1089 ENGLAND, NOV 28 0650 -EXCELLENT with pop mx. // 1053. [Connelly-MA]

1179 SWEDEN Solvesborg, NOV 30 0555 man in Swedish; fair with WHAM phased. [Connelly-MA]

1206 FRANCE Bordeaux, NOV 28 0658 - fair with man in FF, then a '50s-style FF rock song. NOV 30 0558 - good with FF teletalk; feeble 1205 het in background. [Connelly-MA]

1314 NORWAY NRK Kvitsoy, NOV 27 0130, low audio with music. [DX\*FL] NOV 28 0714 - NN song mentioning "God Jul" (Merry Christmas), then man in NN; good. [Connelly-MA]

1377 FRANCE Lille, NOV 28 0715 - man in FF; sometimes stronger than adjacent St. Pierre - 1375. [Connelly-MA]



1530 unID, NOV 28 2100 - jammer occasionally fading up through Vatican / WDJZ at a time when Saudi - 1521 was coming in. [Connelly-MA]

1593 GERMANY Langenberg, NOV 30 0603 fair with news by woman in GG.

[Connelly-MA]

HARMONICS

1617v UNID LAm, NOV 27 0130-0215 - gone at 0220 recheck, then on again at 1030, SS man talk, very weak. Drifted downward to 1616.9 during evening. [DX\*FL]

1620 UNID (MEXICO?), NOV 27 0225 & occ other fade-ups, also 1035 - definite ranchera mx through QRM, poor. XEYI Reynosa was heard here about a year ago, 2 x 810 harmonic.

IDX\*FLI

1819.99 COLOMBIA unID Todelar station, NOV 27 1030-1100+ - ments Florencia, mostly cumbia mx, good level at tune-in but poor by 1100. (DC)

STATION NEWS\_

BELIZE: The Voice of America announced in November "that it will solicit offers for the purchase of its broadcasting facilities in Belize, Central America. In September, 1993, the VOA announced that closure of the Belize Relay Station was required to meet budget limitations in Fiscal Year 94 and beyond. are to cease scheduled radio broadcasting no later than March 31, 1994, and to end VOA's presence in Belize no later than September 30, 1994. The Belize Relay Station is located at Orange Point on the Gulf of Honduras immediately to the southwest of Punta Gorda, Belize. It transmits programs, originating in Washington, DC, in Spanish and English to Honduras and Guatemala. The station, occupying approximately 240 acres leased from the Government of Belize, is equipped with two 100 kiloWatt medium wave (amplitude modulation) transmitters, two directional antenna arrays, an on-site diesel power plant, satellite terminal equipment, and control and monitoring equipment. Plans are to determine if there is interest in acquiring the Voice of America facilities, including the buildings, power generating and distribution systems, radio transmitters, antennas, etc. While currently employed for medium wave broadcasting, the site also has the potential for use as a short wave or frequency modulation (FM) station. While sale is the preferred method of disposal, the possibility of lease or a lease-to-purchase arrangement may be considered. It was emphasized that any arrangement with a new

tenant is subject to approval of the Government of Belize." [VOA External Affairs via Jean Burnell]

RUSSIA: From the 1st of January HCJB will relay daily 30-min. programs in English on the frequency of 1044 kHz via Moscow 40,000-Watt TX. Time: 19.00 - 19.30 UTC. [Andreas Volk (Munich, Germany) via Jean Burnelll

QSL INFORMATION\_

COLOMBIA: 650 RCN Antena 2 full data OSL card, and form letter, in 45 days for 2 IRCs, v/s Orlando Martínez Gómez, Gerente Nacional Antena 2. Return address: RCN, Oficina Central, Apartado Aereo 4984, Bogotá. This looks like the place to verify any RCN transmission. Amazing that this is my first Colombian QSL! Country verified #31. [Renfrew-NY]

MEXICO: 660 XEAR, "La Mexicana", sent prepared card with official stamp in 45 days for mint stamps. V/s is Guillermo M., Director, who sent nice personal letter, stating that station is 5000 watts, 24 hours, runs automated at night, and mentioned other "Grupo RS" stations that he works for are XETO-950, XEMTS- 780, XETOT-1190, and three FMs. Address: Grupo RS, Benito Juarez 506, Col. Tolteca 89160, Tampico, TAMPS. [Renfrew-NY]

VOA Sao Tome 1530, Belize 1530 and Greece 792: 3 full data VOA cards in 30 days v/s John Vodenik. The Belize card was for a follow up for reception in Oct 1992. [Burnell-

CONTRIBUTORS

[DX\*FL] DX South Florida and Central Florida Listeners Group CANAVDXpedition at Canaveral National Seashore 1400 NOV 26 - 0730 NOV 27, beverages NNW-SSE. (submitted by David Crawford KD4WHZ, Titusville (R8, 1000' unterminated longwire on ground @ 150 azimuth), also including loggings from David Sharp, Lutz (NRD525, 1200' unterminated longwire on ground @ 330 azimuth), George Bortle KD4CBV, Titusville (R7100, vertical), Paul Freye KD4YIW, New Smyrna (FRG7000, 100' unterminated longwire on ground ~240 azimuth), Russ Scotka, (NRD525, 2 x 1000' Margate terminated/phased longwires @ 330



azimuth), Terry L. Krueger, Clearwater (NRD525, 1200' unterminated longwire on ground @ 330 azimuth), William Merrill KD4RLT, Titusville (FRG7000, 100')

[Burnell-NF] Jean Burnell, St. John's NF. [Connelly-MA] Mark Connelly, WAIION, Billerica MA; Drake R8, two slopers (approx. 37 m. each) via noise-reducing

transformers to Super-MWDX-5 Phasing Unit & MWT-3 Regen. Tuner [Renfrew-NY] Jim Renfrew, Rochester NY; HQ-180, Radio West Loop. [Wilkins-CO] John Wilkins, Wheat Ridge CO;

R-8, 4' loop.

[Reiser-IL] Thomas Reiser, Chicago IL; Sony ICF-2003 with built-in antenna.

# International DX Achievements

### Paul Swearingen 2840 SE Illinois Avenue Topeka, KS 66605-1427 International DX totals listed periodically in different categories

Year			Last	Total									
Started	DX'er	Location	Update	Veried	Ctries	Frgn	NA	SA	Eur	Oc	Af	Asia	
?	Falconer, Jeff	ON	1976		49	1175		44					
1933	Geary, Kermit	PA	1993	6190	107	988	512	243	147	61	23	2	
1964	Whatmough, Dave	ON	1964	930	11	820	815	1	2	2	13		
1933	Cooper, Ernest	NY-MA	1980	4142	79	760	528	131	88	7	6		
1946	Holbrook, Hank	MD	1993	2876	103	640	303	103	156	49	26	3	
1952	McIntosh, Eric	NZ	1965	686	63	635	301	2	45	253	4	81	
1938	Anderson, Roger A.	VA/NY/PA	1993	1448	105	514	227	78	128	48	28	5	
1963	Scrimgeour, Gray	CA/ON	1971	526	47	440	354	10	18	31	1	26	
1940	Morss, Stan	MA	1993	3922	84	424	218	65	221	1	14	3	
1964	Sorensen, Morris	ON/MB	1975	537	13	385	375	1	9	•	•••	-	
1952	Millar, Roy	WA	1993	2031	81	369	154	34	18	99	1	63	
1958	Dangerfield, Ben	PA	1981	422	118	323	84	44	148	8	31	8	
1934	Gustafson, Hilding	IL/FL	1993	865	115	319	68	36	115	61	24	14	
1958	Merriman, Alan	VA	1974	1460	89	314	171	42	82	3	12	4	
1931	Steele, Sid	II.	1993	3071	35	298	103	12	2	8	12	1	
1962	Edmunds, R. J. (paper	-	1993	263	7	266	263	3	-	0			
1962	Kerfoot, Tim	ON	1975	342	13	259	255	2	2				
1946	Moore, Ray	MA	1993	245	104	245	95	52	59	8	24	7	
1977	Vernon, Brian	YU	1981	314	39	232	7	1	63	106	24	55	
?	Dellit, Sam	Australia	1978	362	37	218	109	1	5	80	1	23	
1960	Rugg, Andy	QC	1993	1672	69	203	83	48	65		6	25	
1954	Starr, Jerry	OH	1974	1209	51	194	134	34	20	3	3		
1958	Wesolowski, Ernie	NE	1977	1898	24	168	153	6	20	7	1	1	
1960	Lynch, Don	MA	1980	10,0	9	157	133	O		/	1	1	
1947	Luton, Relfe	NC	1973	1049	23	142	102	4	3	33			
1969	Karchevski, Bob	MA/CA	1975	204	24	141	112	4	5	6			
2	Callarman, John	?	1970	740	50	138	72	20	17	20	3		
1931	Holland, George B., Jr		1993	884	18	129	46	5	3	20	3	6	
1964	Reynolds, Bruce	MO	1977	1103	28	121	111	6	2	2		1	
2	Heinen, Wayne	NY	1981	882	18	116	109	2	5	1			
1955	Palmer, Richard D.	IL	1993	822	33	94	77	4	10	2	,		
1975	Swearingen, Paul	KS	1993	706	23	93	41	16	10	4	1		
1931	Wheeler, Frank	PA	1993	1885	25	78	68	7	1	2			
1941	Kruse, Len	IA	1971	4080	15	77	61	3	1				
1976	Froemming, Gary	AZ	1993	301	17	76	69			13			
1970	Sampson, John	NI	1965	445	54	72		7	38		-		
1958	Taylor, Pete	100					23		38	1	3	1	
1962	Edmunds, R. J. (taped)	CA	1993 1993	375	26	58	22	4		13		19	
				897	43	56	845	37	14			1	
1974 1976	Knitter, Mike	WI	1983	936	17	53	45	8					
1963	Renfrew, Jim Straus, Elliot	NY	1993	331	35	51	44	7					
		NJ	1993	890	33	41	0.1	5	13				
1958	Phillips, Dan	TN/AL	1974	567	26	40	21	9	5	3	1		

20											
1962	Musco, Ron	CT	1985	1121	28	36	29		6		1
?	Fela, Joseph	NJ	1965	738	24	35	19	4	11		1
1967	Eddie, Rich	MO	1982	1570	22	32	29	2		1	
1973	Mount, Paul	OH	1978	225	6	25	22	2			
1968	Bytheway, Phil	WA	1982	457	9	20					
1977	Wolfish, Niel	ON	1977	397	11	20	14	4	2		
?	Erickson, Don	CA	1982	442	6	9	8			1	
1976	Higgins, Earl	IL	1981	60	7	5	4		1		
1975	Bartek, Daniel, Jr.	NE	1976	23	2						
1965	Long, John	CT	1968	101	29						

20

We're finishing off 1994 with a listing of total veries, and after re-checking the files, I think I've finally cleaned up some errors that have plagued the database for several years. If your listing is still not correct, please accept my personal apologies ... and send in an update, soon. Thanks to updaters Russ Edmunds, Rich Palmer, Bruce Reynolds, Roy Millar, Hilding Gustafson, and Sid Steele, and newcomer Gary W. Froemming. For those of you still counting and adding, this column lists veries (paper or taped) only; unless you specifically tell me otherwise, I lump both together and don't differentiate between them (which I know frosts a few NRC'ers, but that's the way I do it). But I'm happy to list your taped and paper veries separately, if you wish. Also, the NRC hasn't had a new DX country list since 1965 (that one formulated by John Callarman), but (except for "total veries") only non-domestics (exclusive of continental U. S. and Canada) are listed in IDXA, and such political bodies as Alaska (NA), Puerto Rico (NA), and Hawaii (OC) are IDXA listable. NA includes all Caribbean and Central American DX countries plus Alaska and Greenland, and EU includes Iceland; OC includes all of the DX countries in the Pacific (except Japan, the Philippines, Taiwan, and the like. How you want to deal with the former Soviet Union and other new countries is up to you; we're not after exact totals here, just an indication of what can and could be heard at your location(s) over a period of time so that other DX'ers nearby will know that what they might consider nigh impossible was, or is, DXable. I'd love to replace all the question marks above; you don't need to fill all the blanks at once, you know! Finally, except for your best from each continent, there's no need to send a list of stations you've heard, and I really appreciate those who list updates more or less in the order you see the data listed.

Why not take a few minutes while you're waiting for that top-of-the-hour ID and do some counting and send your totals in? If you err in your sums, you can always send in an update later! I've continued to list all current NRC members who at any time have sent in their totals, regardless of their update status. Next listing, in February: by North America. 73!

# Now and Then John D. Bowker

Dial changes in AM markets, from 1930 to 1948 to 1992

# 1930 LOS ANGELES MARKET NOTE USE OF SHARED FREQUENCIES 1930 0641 1948 194

### Letters from HJKX-1370 in 1966 ... via Frank Merrill



### DEL EXTERIOR.

En esta entrega incluímos algunos apartes de las últimas cartas recibidas del exterior reportando la recepción de RADIO MUNDIAL, especialmente en los Estados Unidos. Agradecemos sinceramente estas comunicaciones que nos estimulan y nos llenan de alegria y desde esta publicación saludamos cordialmente a nuestros amigos corresponsales.

Estoy muy feliz al poder informarle de mi recepción lejana de las fuertes señales de RADIO MUNDIAL, durante el programa de la madrugada del lunes. Había muy poca interferencia de una emisora del Japón. Para probarle a usted que he sintonizado RADIO MUNDIAL, detallo la programación que escuché: El programa de la madrugada, entre las 03:23 y las 04:50, era uno de música suave, instrumental, de alta fidelidad; no había ninguna canción vocal. Las selecciones musicales se siguieron una tras otra, sin muchas palabras del locutor. Algunos títulos que reconocí fueron: "Red Sails in the Sunset", a las 04:09, "Sometimes I'm Happy" a las 04:15 y "Green Fields of Summer" a las 04:35, hora colombiana. El locutor habíó a las horas siguientes: 03:23 "Radio Mundial en Bogotá". 04:12 "Si usted es amigo de la buena música". esta emisora... RADIO MUNDIAL... melódica". 04:24 "Esta es RADIO MUNDIAL, 1370 Kilociclos... para la Capital, para Colombia...".

Muy atentamente,

LARRY B. GODWIN
P. O. Box 1048 — BERKELEY, CALIFORNIA USA.

First off I do not speak Spanish so I must write this in English. I do know sufficient to pick out certain things in your language, enough to know it was RADIO MUNDIAL in Bogota I was hearing on 1370 Kilocycles at 2:36 AM (EST). When I tuned in I heard "Gonna take a Sentimental Journey" and then an Identification of RADIO MUNDIAL, Then a song I did not know, at 2:48 AM. I believe the tune was "Come Back to Sorrento". There was some Static interference but RADIO MUNDIAL was the only signal on 1370 Kcs. RADIO MUNDIAL was logged as the ninth Station from Colombia heard here. I would appreciate having either a Card or Letter of Verification for this pick up of your signal.

With Mucho Gracias, I am Sincerely Yours

STEWART DRAKE
2108 S. Simpson St. — PHILADELPHIA, PA. USA.

Es motivo de gran alegría el poder informarle mi recepción de su Emisora en 1370 Kcs. onda larga efectuada el 10 de Enero de 1966, entre las 3:57 a. m. y las 4:09 a. m. hora colombiana. Las condiciones de recepción fueron buenas y las señales de su Radiodifusora fueron potentes. Esta recepción fue escuchada con leve interferencia de CBC-Canada en 1370 Kcs.—Transcribo para comprobar mi recepción con RADIO MUNDIAL 1370 Kcs. 3:57 AM: "All the Things You are, instrumental EE. UU. música, por una orquesta, ninguno vocal. 4:00 AM: identificación de estación RADIO MUNDIAL, etc. y un hombre mencionó la Programa, "Música de Noche"... "de RADIO MUNDIAL"... 4:03 AM: "La Cumparsita", tango por uña orquesta, instrumental. Mi hobby es escuchar radiodifusoras lejanas en onda larga y recibir la correspondiente verificación.

Su affmo, y S. S.

BEN DANGERFIELD, 3d 202 Governor's Drive Sproul Estates, Chester, PA, USA.

# **Belfast Bandscan**

11.00-13.00hrs UTC, 1st-4th July 1993. Graham Maynard.

fre	q location	dB	I fre	q location	dB	I	freq	location	dB
E 21	Torshavn	64	7 85	5 Preston	72	1	1215	Lisnagarvey	++
221	Oviedo	18	i	Postwick	20		1224		C
	Leipzig	18	6 86	4 Paris	15		1233		C
E40	Conamara	50		3 Enniskiller		10	1242	Virgin, sev	46
540		36	Ĩ.	West Lynn	20			Bury St. E.	10
	Wavre	570170	4 88	32 Washford	96			Wrexham	50
	Nordkirchen	32	100 000	1	C			Neumunster	18
	London			00 unid	15		To more than	Dublin	50
	Tullamore	++		9 Lisnagarve	1 1 2 2			Bradford	22
576	Schwerin	26	2 91		C		1287	unid	8
	Muhlacker	18		7 Wolvetrem	22			Orfordness	14
	Dumfries	70	3 92	West Wilts	1000			Bradford	24
12.00	Frankfurt	18	1 0	6 Bremen	10	577	2007 (2000)	Kvitsov	48
	Newcastle	66	0.70	5 Derby	32	65.74		Taunton	12
0.000	Tullamore	94	1000	4 R. Sunshine	G9 351	1000	50-F035-54	Peterb'rgh	10
621		34	0 95	Hereford	10			Lisnagarvey	15,787
630	Redruth	52					1350	Lishagarvey	**
	Luton 3CR	22	7 96	3 Tir Chonail			1359		C
639	Liblice	40			C 22		10 To 20 St	Foxdale IOM	
	La Coruna	30		2 Hamburg	5.00		1377		C
17.77	Orfordness	22		1 R. Star	66		1386		C
657	Wrexham	68		O Tywyn	62				C
	Bodmin	22		9 Preston	58	10.7	1395		8
666	York	46		8 Flevoland	42			Brest	8
	Lithuania	16		7 Shrewsbury	40		1413		
675	Lopic	60	~~~	6 Newtownards			1422		-
684	Beograd	10		5 Ayr	68		1431	5	C
693	Enniskillen	92		4	C		TO KNOW THE WAY	Marnach	24
702	Flensburg	28		3 R1 several	++			Peterboroug	
711	Rennes	38	-	2 Kalundborg	22		1458	Whitehaven	72
720	Lisnagarvey	++		1 Brest	16			Manchester	30
729	Cork	42		0	C		1467	2x1341-1215	-
738	Hereford	40	108	9 Lisnagarvey				wet-15, dry	
747	Flevoland	65		8	C			Guidford	8
756	Carlisle	80	110	7 Wallasey	55		1485	Wallasey	62
	Redruth	30		Inverness	20			Humberside	20
765	Chelmsford	34		6 Derby	36				C
774	Enniskillen	78	8 112	5 Llandrindod	20			Stoke	30
	Leeds	54	7 113	4					C
	Kent ?	40	6 114	3	C				C
783	Burg	18	6 115	2 Glasgow	60			Huddersfiel	
	Londonderry	78		Manchester	20		1539		C
-	Bedford	25		Newcastle	20		1548	Liverpool	40
801	Barnstaple	50	5 116	1 Dundee	40			Edinburgh	12
	Westerglen	++	1	Hull	18	3	1557	Lancaster	56
		C	5 117	0 Stockton	35		1566		
	Sedgley	45	1	Stoke/Trent	18		1575		
	Leeds	38	6 117	9 Solvesburg	38	1	1584	Perth	16
837	Barrow	70	7 118	8	C			unid	4
031	Leicester	18		7 Enniskillen	64		1593		CC
846	N Atlantic	74		6	C		1602		C
040	" Writeric		-						

Receiver; Collins R390A-URR. Below 20dB is weak, above 40dB good. Antenna; AM-1. 10m vertical, 4mh x 6ml NW/SE loop, tuned mixer. Interference I is dBx10 below carrier. 909+1341(Marconi)-V.noisy.

### **A DXers TECHNICAL GUIDE**

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# Expedition report from Abisko, Swedish Lappland September 11 to November 20, 1993 ... by Olle Alm

Antennas: Chicago 900 m, Honolulu 850 m, Tokyo 600 m, Calcutta 600 m. Notes: Dates are written the European way, i.e. day/month. Times are UTC.

Euro	оре		
252	14.11	0400	Tatarskoye Radio, Kazan perfect reception at local Sunday s/on in RR/Tatar
639	21.9	1700	
			Reports say a new station called R. Kamerton is using this freq.
729	18.11	0655	
729		0655	
756		0400	
774		0655	
855		0655	
855	- XXXXXX	0655	- UNIXXXX - F. (1997) T. (1997) - T. (1997) - M. (1997
The second second	often	0020	Murmansk on new freq. with the Yunost prgr. At times very strong (and splashy signal
1116	16.9	1648	
	often		Murmansk: As 1080, but with the Mayak prgr. Instead much less noise aroun 612 now.
1152	12.10	1500	Avtoradio, Moskva regular here afternoons
	3.11	0620	
1575	3.11	0620	
Afric	ca		
612	1.10	0200-	KBC, Nairobi s/on mixing with Sarajevo
729	1.10		R. Uganda on top for a while
846	1.10	0215	
882	1.10	0200	
	2500	4.5	and commercials, same prgr as 612/846
981	12.9	1805	
	22.9	0015	
	12.9	1805	
Asia	1		
621	3.10	1741	AIR Patna with local s/off, very good reception with the Russians silent after the bombing of the Ostankino RTV tower
738	20.10	1300	
774	18.9	2000	Hsien Sheng BS, Taoyuan with formal ID, nearly always mixed with TBC Taichung
774	18.9	1955	HLAJ Cheju MBC signing on
783	18.9	2104	DZNL San Fernando now belonging to PBC, Philippines Broadcasting Corpora tion. Mostly talk prgrs
792	18.9	2100	DXBN Radyo ng Bayan, Butuan very good signal. Except for local ID only network news prgr
792	9.11	1255	NHK-1 with Kanto regional nx
819	17.9	1859	Chingcha Kuangpo Tientai with a very good signal - power increase?
837	18.9	2017	DYFM Iloilo good, alternating with BCC. Has Bombo Radyo slogan
846	1.11	1000	JOFP NHK-1 Fukushima via the Koriyama substation (JOCP), ID after a provincial newscast. 9.11 12.55 heard with Sendai regional nx
846	18.9	2122	DZNN Radio Veritas good with news prgr. Note new calls!
882	18.9	2100	Ulaanbaatar Radio signing on in the mess
900	18.9	1800	HLKV MBC Seoul finally on top of CBS at ID time. Also mentioned FM station HLCP
927	18.11	1200	Xinjiang BS Mongolian prgr on an unlisted frequency. No more "People's" in the station name
936	9.11	1259	ABS Akita a good identifier. Unfortunately there are commercial Japanese stations that hardly ever identify themselves

that hardly ever identify themselves

24			
945	17.9	2000	JOXK NHK-1 Tokushima weak with local ID
1089	30.9		<ul> <li>AIR Mangalore s/on - it is not yet known if Mangalore has actually moved here or if it is a relay via the Udipi txer</li> </ul>
1098	3 26.10	1400	
	9.11	1400	SBC Nagano with "SBC Rajio" ID just before the hour
1098	3 1.11	1029	
1107	19.9	-1700	MRO Kanazawa signing off for weekly SP
	7 23.9		R. Afghanistan still active here
	5 20.10		hard to hear in Abisko, Male ID announcer
	20.9	0025-	AIR Rohtak signing on, somewhat off frequency this morning
	16.9		Sor Tor Ror 8, Phrom Phiram, Phitsanulok with s/off. Listed as Rayong (error from WRTH source).
	21.9	1554	Shanghai PBS. Also 24h on 990.
	30.9		AIR Tirunelveli has tough competition from Kazakhstan NBC Nagasaki IDing before joining an AN network
	16.9	1730	AIR Varanasi often heard nowadays
	27.9	1546	AIR Madurai ID after the news and commercials
	14.10		
	18.11		HLSV KBS, Uljin with Pohang regional news
	.4 1.10		
	16.9		Mangistauskoye R., Aktau opening local prgr
	9.10	1600	Radio Svoboda via Alma Ata. Good signal but soon dropping off
1350	9.10	1412	Lianyungang PBS, JS ID after newscast. Good signal, but Taiwan covering at times
	19.10	1500	NHK-2 only network ID, no local ID
	5.10	1320	JOUC NHK-2 Yamaguchi very dominant of the NHK txers here
	21.9	1600	Tianjin PBS concluding a prgr of Chinese rock
		1320	JOJB NHK-2 Kanazawa is the dominant NHK txer here. Female ID announcer
			JOKB NHK-2 Okayama heard at times JOHC NHK-2 Kagoshima finally heard, though mixing with Kanazawa. Female ID announcer
1404	18.9	2150	Hubei PBS IDed in passing by. Good signal
	18.9		Sor Tor Ror 6, Songkhla signing on. One of the most consistent Thai signals
	20.9		R. Pakistan, Faisalabad local ID, then network prgr
	9.11		JOFD NHK-2 Fukushima via the Koriyama substation. JOZB Matsuyama is the one normally heard on this fq
1539	19.10	1500	JOQB NHK-2 Niigata via the Tsunan relay (100W)
1548	13.10	2230	VOA Kuwait active here since 6 October at 100 kW. Often good signal
	23.9		Xinjiang PBS with beautiful Mongolian folk music
1593	9.10	-1741	AIR Bhopal ID, probably a relay via Indore
	27.9		R. Thailand, Ranong s/off. Low audio level
1602	16.10	-1500	JOZB NHK-2 Matsuyama via the Uwajima relay
			JOSB NHK-2 Kitakyushu seems to go out on two different txers resulting in a strong echo. Normally the only NHKer heard IDing on 1602. Male ID announcer
1602	20.10	1320	JOHC NHK-2 Kagoshima via the Naze relay. Female ID announcer. Naze is located on an island just north of Okinawa – seems to give good propagation. Also heard at 1500 mixing with JOSB
Paci	fic		
650	24.10	1419	KHNR Honolulu, HI "Hawaii's Headline News Radio" when KYAK had a deep fade
830	16.10	1407	KIKI Honolulu, HI with classic rock. Many Hawaiian signals this afternoon
900	24.10		KNUI Kahului, HI ID with a jingle
1110	19.10	1400	KOAI Kihei, HI often heard but seldom with a strong signal
	24.10		KNDI Honolulu, HI heavy rock, ID during a signal peak (!). With a blizzard going on outside it was good to hear a lot of Hawaiians inside
1380			KIFO Pearl City, HI has local gates with ID at 1529 and every hour at :59, otherwise NPR network
1460	16 10	1500	KILLA Hopolulu III playing original hits from the 40's 50's and 60's CNN news

1460 16.10 1500 KULA Honolulu, HI playing original hits from the 40's, 50's and 60's. CNN news

Non	th Am	erica	
530	12.11	0715	CKHL High Level, AB of course only // CKYL-610
560		0656	KLZ Denver, CO
610	19.9	0200	CHTM Thompson playing oldies with a steady signal
610	8.10	0355	CKYL Peace River, AB pushing away more interesting signals
640		1416	KYUK Bethel, AK in English/Eskimo. Good Alaska signals this afternoon
670	4.11	0535	
730	8.10	0447	CKLG Vancouver, BC with its usual rock format
780	25.9	0423	CFDR Dartmouth, NS good signal - NS stn's are extremely rare in Abisko
790	8.10	0440	KOQO Clovis, CA "Super Q" in SS – I consider this one fully identified from this non-ID: " 101.9 FM, 7-90 AM, Super Q" Clovis is a Fresno suburb and 101.9 KQPW is licensed to Fresno and has the same owner as KOQO. Mexican programming and much CFCW QRM
820	3.10	0420	WBAP Fort Worth, TX seems to be the easiest Texan these days
830	23.9	0344	CKKY Wainwright, AB as usual IDing Key-83
840	22.10	1357-	KSDP Sand Point, AK only relaying opening procedure of mother station KDLG- 670 with no mention of the relays. Normal top of the hour ID's from KDLG also mention this relay and an FM relay
850	13.11	0539	CFVR Abbotsford, BC with CHWK network prgr only. Much KOA QRM
870	2.10	0444	KOWA Laughlin, NV with ID "KOW, the Cow", "on the Cow", and playing C&W
900	10.11	1505	KZPA Ft. Yukon, AK giving its address as Box 176, Ft. Yukon, AK 99740 (the Box announced differs from the one mentioned in the NRC AM Log). Local prgr's with very amateurish presentation and poor audio quality
910	4.11	0342	KIYU Galena, AK with local messages
910	14.11	0806	KALL Salt Lake City, UT ID with "Call-910". CKDQ running the IRN network
920	13.11	0500	KXLY Spokane, WA mixing with CFRY
930		1429	KNSA Unalakleet, AK good with relay of KDLG-670. Also good signal 4.11 0400-0600 with only KDLG relays
940	13.11	0540	CJIB Vernon, BC with a pop format that is easy to distinguish from GX-94. Heard only with good BC conditions
970	23.9	0105	WDAY Fargo, ND on top
1010	1.10	0139	KTUR Tooele, UT good with Mexican prgr, ID with calls and "La Poderosa" slogan (not to be confused with XEHL). Very auroral cx this morning – no traces of co-channel Canadians
1020	24.9	0256	CKVH High Prairie, AB very good with local C&W show
1020		198 F. C.	KFFR Eagle River, AK silent approximately 20.10 to 3.11, heard again 4.11 around 0400-0600
1150	18.10	0352	KLRG North Little Rock, AR when the very strong KSAL faded for a while, Black Gospel. Next time KSAL faded KWKY was heard instead
1150	15.10	0459	KWKY Des Moines, IA several ID's, USA network nx, forecast
	3.11	0405	KSEN Shelby, MT local wx after Ai news, soon lost in the jumble
	6.10	0300	CKIQ Kelowna, BC often alone on the freq. when reception swings to the west
	21.10		WJJD Chicago, IL with a weather forecast. Very early signals this night
	15.10		CJOK Fort McMurray, AB with C&W, the freq. a little low
	24.10		KFLY Corvallis, OR, also at 1000
	13.11		KWSU Pullman, WA "Listener supported public radio for the northwest" presumed to be this one. Light classical music, easily confused with CHSM
270	20.10	0729	KTFI Twin Falls, ID as usual MOR/Standards
	24.10		CHWK Chilliwack, BC giving ID for all network stations
	2.10	0340	KXKL Denver, CO as usual // FM "Cool 105" and oldies
	19.9	0233	
	7.10	0300	KUMA Pendleton, OR heard every fall
	14.11		KOWB Laramie, WY with network oldies
	23.9	0434	CHLW St. Paul, AB hard to hear nowadays with Norway splashing like mad from 1314
1360	13.9	0235	KKBJ Bemidji, MN rather good with country favourites and many ID's
	3.11	0645	KRKK Rock Springs, WY with ID in the jumble
	19.10		KXTL Butte, MT ID with a jingle, mixing with CFOK. Oldies format
	19.10		
			KSRV Ontario, OR
1390	18.10	0317	KSLM Salem, OR often heard when cx swing to the west

1400	2.10	0400	KART Jerome, ID has Sports Byline USA, also usual slogan "14K"
	19.10		
	2.10	0410	
1410	24.9	0100	KRWB Roseau, MN as usual alone on the freq. when Canadian cx spill over to northern MN
1420	21.10	1100	KUJ Walla Walla, WA ID with a bassy echo. Also announces "Oldies 95.7"
1430	20.10	1249	KBRC Mt. Vernon, WA with several ID's
1450	6.10	0300	KLBM La Grande, OR (too) often heard
1450	3.11	0659	KONP Port Angeles, WA is one of the freq. dominants
1450	19.10	1125	"1450 and 1490 AM, OK Gold". Who is this? Seemed to be a new service, probably on KLBM/KBKR
1460	18.10	0000	
1470	19.10	0045	WMBD Peoria, IL very good with CBS sports
1470	2.10	0300	
1480	19.9		KKCQ Fosston, MN "North Country Radio" with NOS
1480	12.11	0327	KMEM Lincoln, NE with full ID in the jumble
	25.9		WHBC Canton, OH local ID in live sports commentary
	19.10		KENE Toppenish, WA with frequent IDs
	19.10		KBRO Bremerton, WA last signal before the frequency died
	18.10		KDKO Littleton, CO often heard despite a rather low night power
	19.10		KQXI Arvada, CO running past its normal power-down. Soft rlg mx
	21.10		KQWB West Fargo, ND came booming in just as I was waiting for a talk stn to
			identify
1550	17.10	0400	KRGQ West Valley City, UT with full ID on the hour. Not heard using call letters within the SS programming
1550	3.11	0953	KVAN Vancouver, WA back on the air with CNN Headline News and lots of promos for "your information station"
1550	19.10	0200	KSVY Opportunity, WA with ID, to weak for report
	2.10		KCVR Lodi, CA "Fiesta Mexicana" for Lodi-Stockton-Fresno, professional Mexican programming
1570	2.11	1313	CKTA Taber, AB with C&W (note new call/format)
	24.10		KCWW Tempe, AZ good signal for a while
	17.10		KWYD Colorado Springs, CO closes 0015 during October
	21.10		WTTN Watertown, WI "All American Country", local spots
	25.9	0021	WAKR Akron, OH as usual with talk format
	24.9	0331	KCNN East Grand Forks, MN alone when Canadian stations dominate. Talk
1000	0.10	0220	format
	8.10	0330	KGST Fresno, CA often heard with SS programming and frequent ID's
	19.10 26.10		KCRG Cedar Rapids, IA ID with a jingle KCPX (?), Centerville, UT "Utah's new mix" in English (their FM is 105.7, while
			Lakewood, CO has its FM on 107.5
Cen	tral A	merica	
690	8.10	0350	XETRA, Tijuana, BC promoting its Extra Sports News and running a spot for a San Diego firm. Soon overrun by CBU and later CBC French
740	13.11	0336	XEQN Torreón (Coahuila) "La Q buena de La Laguna" under CBX
790	25.9	0459	Voice of Barbados, Bridgetown very good at ID time
1510	13.9	0258	tXEOF Cortázar, GJ tentative from this ID: " primera y única estación de AM estéreo en el estado de Guanajuato."
Sout	th Am	erica	
790	13.9	0232	LR6 Radio Mitre, Buenos Aires good signal with informativo
	18.11		HJEV La Caleñísima, Cali plus two UNID's
	18.11		HJNF Radio Super, Cali good with some Ecuadorian music (freq. = 1199.92 kHz)
1230	18.11	0716	HJLK Radio Calidad, Cali good signal
	18.11		HJCA Radio Capital, Santafé de Bogotá with ID after each selection
	18.11		HJHS Radio Reloj, Cúcuta over/under R. Capital
	18.11		HJFB Radio Uno, Santafé de Bogotá with vallenato music
			VVI 7 Padio 15 60 Mérida with "Fastival latino"

1560 18.11 0630 YVLZ Radio 15-60, Mérida with "Festival latino"

1580 18.11 0702 HJQT Ecos de Colombia, Santafé de Bogotá very good signal

# THE OCTOBER, 1993 NEWFOUNDLAND DXPEDITION

\*\*\* Jean Burnell, Mark Connelly, Bruce Conti, Neil Kazaross \*\*\*

(Introduction is by Mark Connelly, with quotes from Jean, Bruce, and Neil. Loggings, by all of us, follow the introductory section.)

The success of the November 1991 Newfoundland DXpedition inevitably gave rise to thoughts of "Let's do it again !" among the three original participants (Jean, Mark, Neil). In the two years since that trip, many DX'ers have expressed an interest in participating in a second such effort. Bruce Conti, a leading DX'er in the New England area, got interested enough to commit firmly to going when, during the summer of 1993, plans for the second trip became formalized. The planning process was assisted greatly by frequent use of E-mail communications. Once again, Lawlor's Hospitality Home (the "DX Inn") in Cappahayden, NF became the base of operations. The site, facing the open Atlantic about 100 km south of St. John's, is nearly ideal for serious international medium-wave DXing.

The 1993 DXpedition ran from 21 to 25 October and it was, in many respects, more successful than its 1991 predecessor. The obvious benchmark-countries logged-shows 92 in 1993 versus 65 in 1991. A number of factors contributed to the improved results. Most important was the addition of a fourth skilled DXer (Bruce) tot he team. Band conditions played an important role as well: northern paths shut down by aurora in 1991 were alive this time around. Also helping us were the use of more wires and improved noise-reduction and phasing techniques which gave us the ability to operate primarily

A 27-day (one solar cycle) pre-DXpedition propagation analysis, based upon actual Trans-Atlantic (TA) receptions from coastal sites near Boston, showed very good northernoute reception patterns with big signals from Norway - 1314, Sweden - 1179, Denmark - 1062, Russia - 1386, and MANY German and UK stations. This was in high contrast to 1991 when both the 27-day pre-DXpedition analysis and the DXpedition itself yielded highly-auroral results: Africa andSouth America dominating, and northern Europeans poor.

indoors at the "DX Inn".

The knowledge that the band was going to be markedly different this time around got the team members "pumped". This time we'd have real shots at Iran, India, Sri Lanka, and the many breakaway formerly-Soviet republics. Much had been learned from the first trip regarding logistics of antenna setup, what to bring / what not to bring, getting equipment through customs, eating, sleeping, etc. Despite my worries about baggagehandler damage and customs scrutiny, I decided to bring the Drake R8 this time since I felt that the DXpedition deserved the best receiver I had. The Realistic DX440 (responsible for my Lesotho logging from Rockport, MA) was packed for back-up, but it wasn't used. Jean decided wisely that as much operation as possible should be done inside the "DX Inn"in Cappahayden: here all the team members would have immediate access to lights, printed reference material, AC mains power, heat, restroom facilities, and tea / coffee / snacks as required. With all DXers in one place, reception information could flow more freely. (Indeed, all four of us teamed up on some of the more difficult catches.) The indoor operation would yield higher DX'er productivity than sitting outside in dark, cold, cramped cars. The issue crucial to making this work was the suppression of the mainsradiated RF noise that had dogged such attempts back in 1991. The deployment of noise-reducing transformers and phasing units on the Beverages this time around did much to alleviate the noise problems. The rest of it was handled by the much-stronger signal levels inherent in good high-latitude propagation. When the band is good to the north, the big European stations can deliver much higher signal levels than the Africans and Brazilians do duringa heavy aurora.

Antenna installation followed the concept of hitting northern /eastern Europe and the Middle East heavily while still maintaining some capability towards Africa, Brazil, and The eventual layout, the Caribbean. consisting of six wires, approached the "wagon wheels" of wires used at FCC monitoring stations. Four of the wires were of Beverage length. The full range of antennas utilized is listed at the beginning of the loggings section. The ocean was only about 50 m away on 70 to 110 degree bearings; hence, no wires were aimed that way. Neil wanted to try experimenting with different termination schemes on the Euro-Bevs, but even during the bright sunshine of early afternoon, TA's were beating up on the domestics so badly that results were inconclusive. Each wire had unique strengths

and weaknesses of pick-up; also, the directionality of a given wire's pick-up varied according to frequency. Phasing different pairs of wires created different null / peak patterns. We soon learned which pairs were the most useful in pulling out stations normally buried by co-channel dominants. The many pesty stations from Spain were as often the targets of nulling as were the US / Canada domestics. In many cases, "pest" stations as close as 5 degrees in bearing to desired DX could be nulled without killing the desired station -e. g., Portugal, Algeria, or Morocco heard after having nulled Spain. Vertical (skip) angle discrimination probably gets into the act in such cases; in any event, you need Beverage-length wires to pull off such pinpoint nulling with any degree of regularity.

I used remotely-tuned loops (mine and Jean's) through the MWT-3 Regenerative Tuner / Controller to the Drake R8 at times as I figured that loop use could possibly intercept something different from what was coming in on the Beverages. This may have gotten a few different individual stations into the logbook, but no additional countries. The Beverages, especially when phased, were the antennas "delivering the beef". Much of the time I opted for Beverage use because electrical noise bothered loop reception. Neil and I teamed up at his Icom R70 with phasing of the two Euro-Bevs to snag numerous low-powered British locals. These were on channels often dominated by higher-powered stations such as 1530, usually the property of Vatican and WCKY. Getting Aberdeen, Scotland on 1035 after phasing out the huge signal from Portugal was a thrill.

We all tried for the "fish that got away": Sri Lanka on 1548. All of us thought we had bits of audio parallel to Deutsche Welle shortwave outlets, but QRM from British locals on 1548 prevented a definitive logging. Jean may eventually get this at home on his attic wire. Swapping of antennas among the four DXers' receivers was done periodically to give everyone some listening variety and to spread the talent around on both the TA DX andPanAmerican DX efforts.

Neil went nuts logging out entire networks by rapid scanning of parallel channels. Romanian, Bulgarian, Ukrainian, and other networks of parallel stations were "milked" in this tour-de-force display of DXing efficiency.

Neil's comments on the DXpedition:
"Newfie 2 was great. The place hadn't changed, but band conditions were sure different. This time we had normal (good, but not exceptional) high-latitude propagation, rather than the heavy aurora of the 1991 trip. There was much more domestic QRM, but

TA's still creamed the domestics on the two Euro-Bevs. Getting India - 1566 was certainly a highlight of the DXpedition. Noise-reducing transformers provided by Mark helped a lot. This technology is highly recommended for those with electrical noise trouble (and that's most of us). It was great to be able to operate indoors this time. We would have liked to experiment with terminations more, but TA's were already blowing away domestics at 2 PM local time with the sun shining brightly! Forget all the rules on parallel Beverages having to be separated. We had two Euro-Bevs not greatly different in length running virtually on top of each other, seldom more than 1 m apart. Even when both were unterminated, they had usefully-different pickup and null patterns."

Bruce hooked up his Sony ICF-2010 and the MWDX-5 Phasing Unit to the Brazil-Bev and the Carib-Bev and went on a Latin American stampede. Not to say that he wasn't getting TA's as well: his efforts put Oman - 1242 in the log.

Bruce sums things up this way:

"While there were many high power Argentinian and Brazilian stations logged, I found that hearing signals from the Caribbean was difficult due to the lack of auroral conditions. But persistence paid off with the eventual logging of Jamaica and Trinidad & Tobago among other targets to increase our country-count. My main interests lie in listening to Caribbean and Latin American stations for the culture and music. So it was especially exciting to hear Argentina and Brazil dominating 1030 with WBZ - Boston practically non-existent (on the highly-directional 1015 m Brazil-Bev), or to log a Venezuelan on 1450, for example. There was so much to log in so little time, I only wish that I could have stayed longer to do more listening (for program content as well as DX)."

Jean swapped Beverages going to his Icom R71A and phasing box periodically to go, alternately, for deep Asians (such as India - 1566) and Brazilians. He did some determined digging on a 1571.7 kHz mystery station and came out with an ID from a 250-watt Brazilian. The big Bevs to the south hauled in Argentina and Uruguay.

Jean offers the following words on his 'awesome' adventure:

"DXing is normally a solitary hobby and, as such, DXers develop individual styles of DXing. A good DXpedition is more than just a pooling of effort in setting up serious antennas, it provides a rare opportunity to DX with other DXers and thereby one's DX skills are honed by

observing and trying other styles of listening. I appreciated seeing Mark's R8 in action. His noise-reducing lead-in design, which allowed the Beverages to be routed into the "DX Inn", was battlefield-tested, and the design proved its worth irrevocably to all of us.

"We DXed collaboratively, and the result was indeed greater than the sum of its parts. Teamwork certainly allowed me to hear more, and better DX! It is true that every time you hear a new country, it becomes that much harder to hear the next new one. A personal measure of the success of this DXpedition is that I added three new countries to bring my total of MW countries (from Newfoundland) over 130. Since the 1990's I've been ecstatic when I've heard three new ones in a year!

"Alerts were sounded when something interesting was spotted, and whoever happened to be connected to the antenna(s) that gave the best reception took over the responsibility for the logging. The first "All hands on deck!" came very early in the trip, and it turned out to be the most exciting: the long elusive Indian on 1566 kHz. Other TA highlights were Latvia on 1350 and the VOA from Greece on 792. We had poor reception of some interesting Middle Eastern stations such as Oman on 1242 and the Iranians, and just glimpses of other TA's (e.g. possible Macedonia on 810 and Qatar on 954). These will be the focus of my efforts this season.

"Without the benefit of auroral enhancement, I expected little of interest from sub-Saharan Africa. We did not direct a Beverage in that direction, but it seems that this prediction was correct. São Tome and some Angolans were the only bright lights from that continent.

"The Pan-Am's were perhaps a little disappointing. I expected that, in spite of conditions, we would do a little better with regard to sub-equatorial Spanish language stations. I had heard Paraguay on 920 the previous week during non-auroral conditions, but this was a no-show during the DXpedition. Bruce's success with Radio Mar del Plata (670) was the only 'new catch from Newfoundland' from that part of the world. The higher-powered Brazilians were plentiful in the lower part of the band, and some ID's that had eluded the team in 1991 were nailed down. I was surprised by the abnormally strong signal from Radio Bandierantes (840). Bulletins received after the DXpedition have the explanation: they have upped their power. Conditions were not conducive to reception of the high-band Brazilian graveyarders, so the ID on a wandering (1571.7)

250-watt Radio Emissora ABC was an unexpected bonus. Caribbean signals were poor. We failed to log Barbados (900 is usually a 'gimme' from Cappahayden) and St. Vincent (705). Also, the Harbour Light station in Grenada was not heard. Perhaps, after a brief flirtation with 1405, it is now silent. It is tempting to speculate that a carrier noted on 1024.5 would have yielded Costa Rican audio if conditions had been even marginally better!"

All good things must end (Mark's final comments) ...

Bruce and I left Newfoundland early Sunday morning (24 OCT), but Jean and Neil stayed at the "DX Inn" another day. They hadthe necessary (though not fun) job of taking down the wires ....in the rain.

I'm certain that the October 1993 Newfoundland DXpedition has broken all records for countries logged on medium-wave from eastern North America in less than a week. Some of us heard more DX in a few days than we'd hear at home in a year or more. The DXpedition succeeded thanks to big antennas, a coastal location, good receivers, serious planning, hard work, and the great camaraderie and sharing of accumulated DX knowledge among the four participants.

### The OCT 1993 Cappahayden, Newfoundland DXpedition Logbook

\*\*\*\*\*\*\*\*\*\*\*\*

DXers: Dr. Jean Burnell (of St. John's, NF), Mark Connelly (of Billerica, MA), Bruce Conti (of Nashua, NH), Neil Kazaross (of Northbrook, IL)

Receivers: Icom R70, Icom R71A, Drake R8, Sony ICF-2010

Antennas: 615 m / 2018 ft. "Euro-Bev" at

45 degrees [terminated]

525 m / 1722 ft. "Euro-Bev" at 45 degrees [unterminated] approx. 200 m / 656 ft. "Afrowire" at 130 degrees 1015 m / 3330 ft. "Brazil-Bev" at 153 degrees [terminated] 1000 m / 3281 ft. "Carib-Bev" at 165 degrees [terminated] approx. 200 m / 656 ft. "domestic pest wire" at 270 degrees

The two shortest wires (approx. 200 m) were moved to other positions besides those listed above at various times. Neil's termination method of approximately 70 m of wire after a 560-ohm resistor was customarily used on 3 Beverages.

Accessories: phasing units (MWDX-3, MWDX-5, Super-MWDX-5); noise-reducing 9:1 & 1:1 transformers; MWT-3 regenerative tuner-preamplifier-controller; RTL-2 remotely-tuned loop

Days listed are OCT 1993 - Times are

GMT/UTC.

### Trans-Atlantic DX from the Newfoundland DXpedition / OCT 1993

Besides this report being the record of a specific DXpedition, it may be used as a comprehensive international DX guide for those in eastern Canada and the northeastern United States. Target stations and frequencies with best reception times are given for many countries. Medium wave and shortwave

parallel frequency information is often provided; sometimes sign-on and sign-off times are listed. This article should assist DXers in focussing their efforts during the Winter '93 - '94 season and likely during DX seasons to follow.

	DAY	TIME	LOCATION, PROGRAM DETAILS
531	22	2025	SPAIN - RNE5 fair w/ m in SS
531	23	2039	SPAIN - f SS vocal
531	22	0720	FAROE ISLANDS Akraberg - choral anthem at s/on
531	23	0715	FAROE ISLANDS Akraberg - good at s/on w/
531	1 25	0712	distinctive IS, Scandinavian talk; o/Spain/others.
531	25	0712	FARCE ISLANDS Utvarp Foroya, Akraberg: IS to s/on announcement at 0715 in presumed Farcese, organ mx, choir, talk from 0721. QRM mainly Spain, SIO 333-2.
666	22	0100	PORTUGAL Lisboa et al RDP: PP news up, swamping Germany. SIO 322
666	22	0613	PORTUGAL - fair, PP news and mx.
666	23	2105	PORTUGAL Lisboa et al PP talk, piano mx o/Germany
666	23	2105	GERMANY Rohrdorf - SWF: Talk in GG // 1017. Signal was behind Portugal: SIO 322
666	23	2105	SPAIN COPE net : football play-by-play (//837). SIO 222
675	23	2107	FRANCE Marseille - FF m fair in 673 (CKXG spur) QRM
675	24	0600	HOLLAND Lopik - s/on: DD & some EE talk, mentioned 675 kHz & commercial radio; o/u France
684	22	0110	SPAIN Sevilla - RNE1: xlnt, feature length news stories in SS.
684	23	2110	SPAIN Sevilla - fast SS talk o/ Beograd Slav talk
684	22	0330	SERBIA (YUGOSLAVIA) Beograd - AA-sounding mx
			heard behind Spain turned out to be this station. Serbian talk ran from 0343-0345.
684	23	0023	SERBIA (YUGOSLAVIA) Beograd - fair w/ m Slavic talk; Spain phased.
693	22	0140	AZORES Santa Barbara - xlnt, PP talk & instrumental EZL music.
693	23	2113	ENGLAND/AZORES - BBC discussion o/u festive PP mx
693	23	0657	ENGLAND Droitwich et al BBC loud w/ interview w/ a young kid about football.
702	1 23	2115	SPAIN Zamora - het rumble, then SS talk surfaced
702	23	0029	SLOVAKIA - cl. mx // 1098; u/ Morocco OC
702	24	0323	SLOVAKIA Banska Bystrica / Presov - good w/
,	1	1 0020	piano version of "Close to You" // 1098
711	1 22	0100	LIBYA - f AA talk // 1251
719	23	0035	unID - het against CHTN / Portugal - 720
720	22	0512	PORTUGAL Sao Salvador - PP vocal // 666; o/ CHTN.
720	23	2117	PORTUGAL Sao Salvador - m PP talk o/u CHIN
720	23	2107	CANARY ISLANDS Santa Cruz, Tenerife - RNE1: good,
729	1 23	2119	"Radio Nacional Espana" ID and live futbol. SPAIN RNE1 - SS // 585, 720, 738; atop Ireland
729	22	2010	IRELAND Cork - EE talk // 567: 2010-2015
729	23	2119	TESTAND Cork - folk worst u/ Spain
738	23	2120	IRELAND Cork - folk vocal, u/ Spain SPAIN Barcelona - RNE1: SS // 729, others; QRM CHCM
747	22	0156	HOLLAND Flevoland - good, mix of contemporary and
747	1 23	2125	traditional jazz instrumentals, DD talk.
			HOLLAND Flevoland - pop mx in CBGY slop
756	24	0406	ENGLAND - probably Redruth - news in EE // 198; mixed w/ Spain.
756	22	0424	GERMANY Braunschweig / Ravensburg - good w/ m in GG mx. under was probably Romania; also a 755 het here
756	23	2145	GERMANY Braunschweig / Ravensburg - show tunes, GG talk, o/ Spain SS talk.
756	1 22	0420	ROMANIA Lugoj - f vocal, Romanian talk o/u Germany
756	24	0507	ROMANIA Lugoj - Romanian // 1053 u/ Germany / UK
531	24	2340	MADEIRA Porto Santo - RDP: PP soft rock in a mess.
			mixing w/ Spain and Algeria (// 666). SIO 222
			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
539 540	23	0442	unID - het from someone on old-plan channel HUNGARY Solt - Magyar R.: m in Hungarian, Vivaldi's

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540
        24 | 0508 | BELGIUM Waver-Overijse - Belgische R.: Pop mx in
                         Dutch/Flemish & EE, m DJ spoke Flemish. SIO 333
549
           23
                 2041
                         ALGERIA Les Trembles - pop AA mx // 891
SPAIN - f SS talk, fair w/ CHVO nulled
558
           23
                 2042
567
           22
                 2030
                         IRELAND Tullamore - RTE1 good w/ EE discussion IRELAND Tullamore - RTE1 good w/ EE talk, then
567
           23
                 2045
                         some great Chieftains-like fiddle mx; o/Portugal.
                         SPAIN Tarragona - SS f talk, o/ others
567
                 2045
           23
           23
567
                 2355
576
           23
                 2048
                         BULGARIA Vidin - Bulgarian Nat. R.: m vocal of
576
                 0316
                         Bulgarian folk song w/ flute accompaniment (//828).
Strong QRM from Spain, SIO 322
                         SPAIN MNEI - good, "Radio Nacional" ID, // 684.
SPAIN Madrid - RNEI fair to good w/ m in SS; growl
585
           22
                 0229
585
           22
                 2031
                         of about 200 Hz present on high side.
585
        23 | 2049
                         SPAIN Madrid - fast f SS talk o/ growl &
                         suspected Tunisia.
                         SPAIN RNE1 - good, "Radio Nacional Espana"
585
        23 | 2115
                         ID, // 720.
                         TUNISIA Gafsa (t) - f AA chants; Spain phased a bit
585
           23
                 2110
594
           23
                 0010
                         PORTUGAL Muge - vocal, PP talk through VOCM slop
MOROCCO - AA // 1044; u/ Portugal & VOCM slop
594
           23
                 0010
                         MOROCCO / ? - AA jumbled w/ others in bad VOCM slop
MOROCCO Oujda - RTV Marocaine: AA talk, probably
594
           23
                 2051
594
                 2317
                         news as it mentioned Saudi Arabia, Syria, etc.;
                         mx from 2325 (// 1044). VOCM splatter reduced by phasing, SIO 433
603
           23
                 2053
                         SPAIN Sevilla - good w/ fast f SS talk way o/others
                         IRELAND Tullamore - news and wx., 0002 "2FM" ID, and "The other side of midnight" blues mx program.
612
           23
                 0001
612
                 0018
                         MOROCCO Sebaa Aioun - AA mx // 173; u/ Ireland
           22
612
           23
                 2054
                         MOROCCO Sebaa Aioun - m AA a cappella vocal, dom.
621
           22
                 2042
                         CANARY ISLANDS Santa Cruz - SS talk; good
CANARY ISLANDS Santa Cruz - fast SS talk, loud
                 2055
621
           23
630
           22
                 2300
                         unID - probably Portugal, but CFCY in control of
                         the channel most of the time; audio tough to pull
639
                 2044
                         SPAIN La Coruna et al. - SS m good; slight CBN QRM SPAIN La Coruna et al. - SS talk in CBN slop
           22
639
           23
                 2056
648
           23
                 0443
                         SPAIN - SS // 639
657
           22
                 2045
                         SPAIN Madrid - SS mx. then ID "R. Nacional Espana"
                         SPAIN Madrid - "R. Nacional Espana" ID o/ jumble
657
           23
                 2100
                         PORTUGAL Lisboa - PP vocal // 720
666
           22
                 0512
           23
                         SPAIN Bilbao - SS talk u/ Germany.
756
                 2145
756
           24
                  0411
                         SPAIN Bilbao - SS talk (Euzkadi Irratia) o/ UK
765
           23
                 0100
                         SENEGAL Dakar - good, Koranic chants, then beep and
                         ID followed by anthem and s/off at 0101, leaving
                         Switzerland in clear.
                         SENEGAL Dakar - LIKE A LOCAL w/ string mx. at s/on.
765
           23
                 0658
765
           22
                 2200
                         SWITZERLAND Sottens - good in FF, jazz and
                         classical mx.
765
        23 | 2147
                         SWITZERLAND Sottens - FF talk, jazz vocal o/ Senegal;
                         low growl present.
                         SPAIN RNE1 - good,
774
           22
                 0112
                                                   SS // 684.
774
           22
                 0337
                         EGYPT Abis - AA u/ Spain; also in at 0428.
774
           23
                 2150
                         EGYPT Abis - AA vocal atop Spain.
PORTUGAL Miramar - R. Comercial: good, PP talk,
783
           22
                 2208
                         "Comercial" ID, under heavy attack from CFDR-780.
SYRIA Tartus - Syrian Rep. Arab BC: m AA talk
783
        23 | 2348
                         mentioned "Suriyya" (Syria) a few times. Actually overtaking Portugal at times! SIO 232 + Koran
                         chants through 0015 (24 OCT); did NOT sign off then.
                         SPAIN Sevilla - m in SS, SS mx.; good.
SPAIN Sevilla - SER: good, SS teletalk, // 1584.
792
           22
                 0332
           22
                 0610
792
                         SPAIN Sevilla - SS talk, good
792
           23
                 2349
792
           24
                 0433
                         GREECE Kavala - VOA Relay: Faded up nicely
                         w/ news in Romanian (// 9615), f gave VOA ID at 0436 before it receded under Spain. SIO 343
                         SPAIN Lugo et al. - SS talk

SPAIN Lugo et al. - SS talk, good o/ others

JORDAN Ajlun - R. Jordan: Koran, m in AA // 1494

to 2330 s/off. Briefly alone, then QRM'ed by others

SPAIN - SS talk losing to BBC Scotland and CJVA
801
                 0512
           22
801
           23
                  0612
801
           23
                 2317
810
           22
                  0513
                         SCOTLAND -BBC news, huge signal- still good at 2305
SCOTLAND - BBC financial news o/ CJVA FF / Spain SS
810
           21
                 2050
810
           22
                 0513
810
           23
                  0659
                         SCOTLAND - f EE wx. forecast, good o/ domestics.
810
           24
                 2044
                         SCOTLAND - BBC Scotland synchros: surprised to
                         hear m&f talk in Chinese, switched to EE to talk about availability of CC programming via Sky
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satellite, more CC talk and CC pop mx. SIO 444

34			
1116	23	0037	
			Guernsey news & Russia's RR talk. Spain-1116
1116	1 00	1 0036	suppressed by the terminated 45-degree Euro-Bev
1116	23	0202	RUSSIA synchros RR talk often atop.
1116	23	0529	SPAIN SER - fair with SS talk, // 1584. ITALY Bari et al RAI: f II talk after Spain
1110	1 23	1 0323	was reduced by phasing. SIO 232
1125	1 22	0101	CROATIA Deanovec - Hrvatski R.: m in Croatian
	1	1	w/ news; "Hrvatski Radio" ID at 0103 then "Helle
			Dolly" and other instrumental standards segued.
			This night there was no sign of 1134. SIO 444
1125	23	2242	CROATIA Deanovec - pop mx, Hrvatski R.ID // 113
1125	22	0350	SPAIN RNE5 - good, SS // 1098.
1125	23	0730	SPAIN - RNE5: Radio Nacional Espana ID
1125	23	2243	SPAIN - SS mixed w/ Croatia & Wales.
1125	23	2238	WALES Llandrindod Wells - BBC Wales: EE boxing
		4	blow-by-blow (//882) under Croatia. SIO 222-1
1134	23	2241	CROATIA Zadar - Hrvatski R.: Back to back pops
			(//1125). This was inaudible or off the previous
			evening! SIO 444
1134	22	0204	SPAIN COPE - good, SS // 837.
1143	22	0434	SPAIN Reus - COPE: good, "aqui en la COPE!"
2.2.50			promo, SS telephone talk, // 1134.
1143	23	0731	SPAIN Reus - "Cadena COPE" ID, good
1143	23	1730	RUSSIA/KALININGRAD Bolshakovo - "Midnight in Mos
			chimes good: better than CBI-1140 during broad
1155	1	1 0000	daylight I
1152	22	0017	SPAIN RNES - good, SS // 1098 & 1314.
1152	22	0427	SPAIN RNE5 - good, SS // 1305.
1152	22	0623	ENGLAND London - London Talkback Radio: m&f EE
1152	1 25	1 0008	teletalk, mentioned "on Talkback R.", o/u Spain
1152	25	0008	SCOTLAND Glasgow - Clyde 2: Scottish-accented I w/ dedications for people in Scotland. SIO 322
1152	1 24	0455	ROMANIA Cluj - US rap mx, f Romanian announcer,
1132	2.4	1 0433	Romanian vocal; // 855, 1179
1161	1 23	0623	FRANCE - FF talk, then Broadway song "That's Why
	1	1 0020	the Lady is a Tramp"; good
1161	22	2200	BULGARIA - good w/ Slavic talk
1170	22	0507	PORTUGAL Vila Real - good, atop channel w/ "Chan
	1.000		of Fire" theme, PP talk // 1035.
1179	21	2100	SWEDEN Solvesborg - news in Swedish, good on car
1179	24	0412	GREECE Thessaloniki (t) - apparent Greek talk &
			u/Spain/Canaries & OC that turned out to be Roma
1179	24	0415	ROMANIA Bacau - R. Romania: m in Romanian, fade
	4.00	-	beneath Spain/Canaries than re-emerged loudly w
			mx, mentioned "dominica programa" (which I
			presume means "Sunday program") and "Romania
			very clearly (// 855). This was unexpected as
			WRTH suggests that these belong to different
1179	1 22	0311	networks. EE song at 0418. SIO 332
1188	23	0453	CANARY ISLANDS/SPAIN SER - fair, SS // 1584.
1188	22	2110	MOROCCO Casablanca (t) FF rock mx.
1100	1 44	1 2110	HUNGARY Szombathely - Magyar R.: m in Hungarian BBD jazz pgm (//1251). SIO 222
1197	1 22	0315	LESOTHO Lancer's Gap - BBC relay good w/ Brit. B
2231	1 22	1 0313	talk // 5975.
1197	22	0645	LESOTHO Lancer's Gap - fair, EE talk, BBC mention
1197	22	0448	ENGLAND - Virgin Radio // 1215 w/ ZZ Top's "She
1 1 7 7	13 35		Got Legs"; loud.
1197	22	2054	ENGLAND Virgin R good, Van Halen's "Jump", re
			ENGLAND Virgin R good, Van Halen's "Jump", romx, "Virgin 1215" ID, // 1215.
1206	23	0703	FRANCE Bordeaux - excellent w/ FF talk
1206	22	0600	POLAND Wroclaw - m Polish talk
1206	23	2041	POLAND Wroclaw et al Polskie R.: f in Polish
			w/ news. SIO 343
1215	22	0347	SPAIN COPE - fair, SS // 837 & 1134.
1215	22	0448	ENGLAND - Virgin Radio // 1197 w/ ZZ Top hit BULGARIA Vidin - relaying VOA w/ EE ID "This is
1224	23	2300	BULGARIA Vidin - relaying VOA w/ EE ID "This is
		NAME OF TAXABLE PARTY.	Voice of America", then Serbian talk atop Spain
1224	23	2300	SPAIN synchros SS talk u/ Bulgaria
1233	22	0550	MOROCCO Tanger (t) f FF talk
1233	23	0211	MOROCCO Tanger - AA mx, good
	24	0256	MOROCCO Tanger - RTV Marocaine: AA song by m w/
1233			guitar-like instrument, //1044 at the time. SIO
1233		0158	ENGLAND Newport (t) - Isle of Wight R. probable
	22	1 0200	
1233	22	1 0200	ENGLAND Newport (t) - Isle of Wight R. probable George Harrison song, ID just before 0200 was
1233		0616	George Harrison song, ID just before 0200 was distorted, news. QRM from Ukraine, SIO 232 ENGLAND unID, also 22 OCT @ 0300, EE u/ France

1242	22	0651	
			w/ EE talk, local Isle of Wight ads 0651-0654.
1242	22	2052	ENGLAND Virgin R fair, mention of 1197 and 1215 also, rock mx, // 1215.
1242	24	1953	ENGLAND and SCOTLAND - Virgin R., low power synchros: Peter Gabriel song, contest (// 1215). SIO 222
1242	22	0605	FRANCE Marseille - xlnt, FF folk/pop mx and talk.
1242	22	2050	OMAN Muscat - R. Oman fair, modern AA mx, o/u UK station, // 6085 which was also tough DX.
1242	1 22	2124	OMAN Muscat - R. Oman: weak w/ Koran. SIO 232-1
1242	23	0310	UKRAINE Kyyiv et al rock mx // 972,1377,1404
1251	23	0123	LIBYA Tripoli - AA atop Portugal
1251	22	0430	PORTUGAL/LIBYA - PP pgm o/u Libya AA
1251	23	0123	PORTUGAL Porto / Viseu - f PP vocal //594,891,981
1251	22	2105	HUNGARY Nyiregyhaza - Hung. talk, BBD jazz // 1188
1259	24	2004	AZORES Faial - RDP: PP football play-by-play. One
1260			team was from Porto. SIO 344 o/u Spain - 1260 QRM.
1200	1 24	2000	ENGLAND Bristol - Brunel Classic Gold: f read news,
			interview w/ an old woman who beat up a mugger w/ her walking stick, "Classic Gold presents" at
			2002 then rock mx. Over/under Spain, SIO 322
1260	24	2000	SPAIN Valencia et al (SER) - SS talk o/u England
1269	23	1720	GERMANY Neumunster - GG trashing CJCB-1270 at
2202	1	1,20	2:50 PM local
1278	1 22	0442	IRELAND Cork / Dublin - RTE2 good w/ "No Milk Today"
-2370.2 (3)	1		by Herman's Hermits // 612.
1278	1 22	2255	IRELAND - good, "5 minutes away from midnight"
	1		UTC+1 time check, U2 rock song, 2300 news with
			top story on IRA.
1278	23	0529	IRELAND - good w/ local ads, then modern rock
1287	24	1759	CZECH REP. Litomysl & Melnik - R. Free Europe:
	1		IS just before TOH, then religious pgm in Czech.
			Too early for a strong signal, SIO 242
1296	1 24	0259	ENGLAND Orfordness - BBC WS: Bells, pips, BBC WS
	, ,		news - SIO 333
1296	1 24 1	0300	BULGARIA Kardzali - Bulgarian Nat. R.: U/ England &
		· SERVER	Spain w/typical instrumental folk mx //828. SIO 222
1296	1 24	2258	SPAIN - R. Pop. de Valencia: Local ads, but returned
Sample .			to network (COPE) at 2300. Under BBC WS, SIO 322
1296	22	0633	SPAIN Valencia - COPE: good, SS talk, // 1134.
1296	23	0259	SUDAN Rebia - interval signal // 7200. Freq. was
	1 25	0233	then covered by Spain & UK stations.
1305	22	0355	SPAIN RNE5 - good, SS // 1098 & 1125.
1313	23	0451	ANGOLA Lubango -rhythmic mx poor; Norway-1314 phased
1314	23	1615	NORWAY Kvitsoy - fading in at 1615, good audio
	,	1015	(NN talk) by 1642. Station audible at least
1314	1 25	1045	NORWAY Kvitsoy - poor to fair w/ m in NN at 1045;
	1 25	1015	
1314	1 22	0001	faded to just carrier at 1100. SPAIN RNE5 - fair, "Radio Nacional de Espana" ID,
	1 22	5501	mixing with Norway station.
1323	22	0540	GERMANY Nauen - relay of R. Moscow EE service
1323	23	0531	GERMANY Nauen - EE news (R. Moscow relay), good
1325	23	2038	MOROCCO Safi - good w/ soft mx.
1332	21	2227	ITALY Rome - RAI: good with talk in II.
1332	23	2037	ITALY Rome et al m&f II talk, good.
1332	24	2302	ENGLAND Lacock - BBC Wiltshire Sound: Wx and into
	1 1		"Late Night" pgm w/ Beatles song. Found BBC
			R. Bristol // (1548) indicating the South and West
			net pgm. O/u Italy. Listed 300 watts ! SIO 232
1341	22	0335	SPAIN SER - good, SS // 1584.
1341	22	0312	NORTHERN IRELAND Lisnagarvey - BBC good w/ EE talk,
	,	0011	then "A Wonderful World" by Louis Armstrong.
1341	1 22 1	2109	NORTHERN IRELAND Lisnagarvey - good, BBC news w/
	1 1	2200	feature length report from Scotland Yard on crime
			and drugs.
1341	22	2124	
			HUNGARY Lakihegy - Magyar R.: Ella Fitzgerald singing "I've Got Plenty of Nothing" (//1188,
			1251). Brutal QRM (N. Ireland), SIO 222-1
1349	22	0003	MAURITANIA Nouakchott - AA-sounding talk
1350	23		FRANCE Nancy / Nice - France-Inter: FF football play-
7-10	9.72	1000	by-play: Monaco was creaming someone 5-0. SIO 433
1350	23	2030	LATVIA Cesvaine / Kuldiga - Tatuidas B . Tallian
	100		LATVIA Cesvaine / Kuldiga - Latvijas R.: Initially poor behind France w/ news (?), ID at 2032,
			short mx, f announcer intro'ed rock & then
			classical mx. SIO 222
1359	23	0533	SPAIN Arganda - Moorish - influenced SS vocal
1367	22	0038	ANGOLA Luanda - f PP talk, poor to fair
LONG A PU			, and a series poor to tate

36			
1368	1 22	2029	POLAND Krakow - Polskie R.: m in Polish (// 1305),
1300	1 22	2029	losing channel to Manx R. SIO 333
1368	22	0600	
1368	22	2032	ISLE OF MAN Foxdale - Manx R. ID's, good ISLE OF MAN Foxdale - Manx R.: m DJ intro'ed pgm.
			of soft rock. Increasing strength, SIO 333
1375	22	0329	ST. PIERRE ET MIQUELON - RFO: xlnt, FF talk and
			jazz music. Groundwave is good all day here.
1377	23	0248	FRANCE Lille - jazz // 1404
1377	22	2341	PORTUGAL Canidelo - m in PP fair w/St.Pierre phase
1377	23	0310	UKRAINE - rock mx on network // 972, 1242, 1404
1378a	23	0240	unID - het against 1377 / 1380
1386	21	2233	RUSSIA/KALININGRAD Bolshakovo - xlnt, R. Moscow
1386	1 22	0400	World Service in EE.
1300	1 22	0400	RUSSIA/KALININGRAD Bolshakovo - huge carrier turne out to be this: s/on audio kicked in at 0400.
1386	1 22	0355	RUSSIA unID site - R. Moscow World Service audio
			from a second site was already in progress as the
			Bolshakovo 2.5MW big rig ran OC (before coming on
			the same pgm // the weaker site at 0400).
1395	21	2237	ALBANIA Lushnje - good, religion in EE from
			TransWorld Radio.
1395	23	0538	ALBANIA Lushnje - eastern European lang. talk, lou
1404	23	0248	FRANCE - jazz // 1377
1404	23	0303	IRAN Rasht - Farsi talk // 5995; u/ Ukraine
1404	22	2300	UKRAINE Kotovsk et al 5 pips, Slav talk briefly
	1		atop w/ France nulled. UnID SS in there, too.
1404	23	0310	UKRAINE Kotovsk et al rock mx // 972,1242,1377
1413	22	0326	SPAIN RNE5 - fair, SS // 1098.
1413	22	0035 1839	unID (prob. YUGOSLAVIA) - AA vocal, faded u/ Spain
1413	24	1939	YUGOSLAVIA/KOSOVO - R. Pristina: Pops, chat about football and Michael Jordan in Albanian, news
			from 1900 to 1902, then classical mx. SIO 433
1413	1 24	1900	OMAN Masirah Island - BBC Relay: BBC World Service
1110	1	1300	news QRMing Kosovo. SIO 322
1422	1 22	2000	ALGERIA Algiers - EE ID "National Service of
		11000	Radio Algeria"; very good
1422	24	1922	ALGERIA Algiers - Radiodif. Algerienne: Thickly
			accented EE with press reviews from the newspapers
			Mujahid and Liberte. SIO 343
1422	24	2132	ALGERIA Algiers - FF ID "R. National" o/ GG
			on Afro-wire
1422	24	2132	GERMANY Heusweiler - GG talk u/ Algeria
1431	21	2153	UKRAINE Mykolayiv: Ukrainian R.: ID and news
			items mentioning Yasser Arafat, Serbia, and
1431	22	2101	Kashmir. SIO 444   UKRAINE - loud w/ m&f Slavic talk
1431	21	2155	ENGLAND unID stn: m w/Brit. accent intro'ed
1101	1 1	2133	Olivia Newton-John song. Far u/ Ukraine, SIO 222
1440	22	2013	LUXEMBOURG Marnach - RL: II financial news, then
			entertainment news. SIO 344
1440	1 22	2022	SAUDI ARABIA Damman - good, AA talk,// 1521 & 9870
1449	23	2101	ITALY Squinzano et al RAI: II sports play-by-
		1111	play in a mess. SIO 222
1449	22	2032	IRAN Bandar Turkaman - briefly o/ Italy w/ chant,
			talk, occasional string mx: 2032-2036; also heard
			at 2245 GMT.
1449		0018	IRAN Bandar Turkaman - mideast wailing u/UK/Italy
1449	23	2100	MOLDOVA Chisinau - Moscow interval signal rising
			atop a QRM stew including (but not limited to) Ira
1449	1 20 1	0010	Italy, & UK locals.
1443	1 25	0019	SCOTLAND - prob. R. 4, Redmoss: EE w/ BBC
1458	1 22 1	0549	WS (// 198). QRM from Italy / Iran, SIO 232 ENGLAND - Greater London R. gave ID, mentioned
- 100	1 22	0349	financial news, said to tune to 94.9 FM.
1458	1 24	0433	ENGLAND - Greater London R.: Tape loop announcemen
			telling listeners that GLR is no longer on the fre
			and they should re-tune to 94.9 FM; this was follow
			by a 1000 Hz tone. U/ stn w/ BBC WS, SIO 222
1458	24	2147	ENGLAND - Greater Manchester R.: 0/ a mess
	1	- and a process	including the Albanian and the GLR tape-loop
			announcement. C&W song, "G-M-R Country" slogan
			over the end of it, then talk about parole
Vienesco.	To recent	· · · · · · · · · · · · · · · · · · ·	violations. SIO 322
1467	22	2030	FRANCE Roumoules - light mx o/ Moldova
1467	22	2030	MOLDOVA Grigoriopol - f RR talk a bit u/ France
1475	24	2200	BENIN Cotonou - poor w/ m FF talk, then mx // 4870
	1 22	2230	AUSTRIA Wien-Bisamberg - strong w/ gypsy mx,
1475	24	2200	AUSTRIA Wien-Bisamberg - strong w/ gypsy mx,

1476	1	22	1	2246
1476	1	24	1	2245
and the second				
1476	1	22	1	0607
1476	1	24	1	2351
1476	1	22	1	0241
1476	1	23	1	0215
1485	1	21		2345
1485 1485	1	22		0235
	ì		-	
1485	1	22	1	0705
1485	1	24	1	0730
1492.7	1	22	1	2020
1493	1	24	1	2050
	i			
1494	1	21	1	2146
1494	1	23	1	2315
1502	1	24	1	2035
1503	1	22	1	0725
	!			
1503 1503	1	23 23		0403
1303	1			
1503 1512	1	22		0530 0520
1512		23		0105
1521 1521		22		0521
1521		24		2254 0606
1521	1	24		2355
1530	1	22	1	0309
1530	1	22	1	0715
1530	1	23	1	0750
1550	1	23	1	0750
1530	1	22	1	0300
1530	1	22	1	2222
1539	1	23		2220
1544 1548		23		2216 1931
	,		1	

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1548	T	23	1	0630	ENGLAND Bristol -BB. R. Bristol: ID & news. SIO 3
1548	1	23		0800	ENGLAND BBC Bristol & Somerset Sound mentions, ne "That's It for Weekend West" after wx., 9:00 time
	v				check. Other British QRM present. ENGLAND London - Capital Gold: ID at TOH u/ BBC s
1548	1	24	1	0100	
1548	1	23	1	0135	unID (probably SRI LANKA): Deutsche Welle pgm of French mx ("Milord" by Edith Piaf) //6075 seemed to be in there for 5-10 sec. u/ British locals
1548	1	23	1	1930	to be in there for 5-10 sec. u/ British locals unID (probably SRI LANKA): Quest for DW Trincomal mellow US soul f vocal, then apparent bits of Mar
					mellow US soul f vocal, then apparent bits of Mar Hopkin song (//6075) through the Brits. Signal v followed from 1930-2000; it was threshold at best (or imaginary).
1557	-1	22	1	1950	MALTA Cyclops - good, AA-style mx, // 9515.
1557	1	23	1	2159	MALTA Cyclops - Deutsche Welle IS good o/ others
1557	ı	23	1	0822	ENGLAND Northampton - Northampton mention, phone call, 9:22 time check, oldies; fair in WOEW slop
1557	1	23	1	2244	call, 9:22 time check, oldies; fair in WQEW slop ENGLAND Northampton - Northants. Supergold:
					Briefly o/ the other weak signals w/ 2 "Supergold ID's. SIO 222
1557	1	22	1	0700	FRANCE Nice - good, rooster crow marking top-of- the-hour, news in FF.
1557	1	23	1	2150	LITHUANIA Vilnius - US MOR mx, talk // 9710; briefly o/ Malta / France / UK / possible others
1566	1	22	1	0745	AZORES Vila do Porto - good, s/on with anthem.
1566		22		2025	AZORES Vila do Porto - Em. do Clube Asas do
					Atlantico: PP pop song, then m ancr in PP talked
					to a child called Marie-Lise. Huge signal, but h
1000					been inaudible on the previous evening, SIO 544
1566		23		0930	AZORES Vila do Porto - PP in at this late time
1566	1	21	1	2329	BELARUS R. Moscow synchros: Mayak IS noted in a mess, and also more clearly at 2359 and
			-		at 0029 (21 OCT). SIO 221
1566	1	21	1	2332	INDIA Nagpur - AIR: Initially very weak with bits of audio in presumed Hindi, Indian film mx faded in and out 2355-0020, ID's at 0029 were muffled,
				2750	Indian-accented EE news was followed by sports (boxing, football), lost or likely off at 0041 on 22 OCT. SIO 222-1
1566	1	25	1	0038	INDIA Nagpur - AIR: Indian-accented EE news by woman, u/ Azores
1566	1	21	1	2341	IRAN Bandar-Abbas - IRIB: Fade up w/ talk in Fars bits of audio during next half hour. SIO 222-1
1566	1	21	1	2325	TUNISIA Sfax - xint, Koranic chants followed by s/off in FF at 2327.
1566	1	23	1	2157	TUNISIA Sfax - heavy drumming, violins, AA vocal
1575	1	24	1	0458	then RAI and "Radio Uno" ID's in II, pips at 0500
					and romantic mx. Over Spain, SIO 433
1575 1575		22		2228	ITALY - RAI fair, II talk with "RAI" ID, o/u Spai
1575	1	22		2230	SPAIN SER - good, SS teletalk. SPAIN - SER good, "La cadena SER" jingle and
	,	TX ST			"deportivo" (sports) report, over Italy.
1584	1	21	1	2341	"deportivo" (sports) report, over Italy. SPAIN SER - xlnt, SS // 1575, noticeable echo fro
1584	1	24	1	0005	delay between network stations on the same freq. ENGLAND unID sites - 3 different UK local station
1593	1	22	1	0300	one w/ oldies/MoR, one w/ EE news, one w/ Eagles so GERMANY Langenberg - xlnt, instrumental mx lead:
1593	1			2122	up to time marker and top-of-the-hour ID.
					u/ Germany. SIO 222
1602		21		2343	SPAIN SER - good, SS // 1584.
1618.2	1	23	-		HOLLAND unID stn (Pirate): Freq slowly drifted up; hokey Dutch mx and C&W tunes; no announcement so no ID! Some deep fades and CW QRM, SIO 222
					Early evening reception. Exact times not reporte
1638	1	23	1		per requests of some of these stations. HOLLAND R. Barones (Pirate): For about
2030	1	23			1 hour heard old-fashioned Dutch mx, Bonanza
					theme, and 4 or 5 "Baro" ID's, then US pop mx.
					Best signal ever for a TA pirate, SIO 343. See
					notes of 1618.2 regarding reception times.

### The Answer Man

Got a question about radio? Send it to NRC's Answer Man: Russ Edmunds - 753 Valley Rd. - Blue Bell, PA 19422-2052. No question is a dumb question, and Russ will answer all, from basic to highly technical. Watch for the answer in *DX Newsi*  Pan-American DX from the Newfoundland DXpedition / OCT 1993

FREQ.	-   -	AY	-	TIME	LOCATION, PROGRAM DETAILS
535		22	1	0122	GRENADA St. George's-fair to good w/ m in Carib. EE
535		23	-	0349	GRENADA St. George's - fair, reggae mx; R. Vision
					Christiana phased.
535	1	23	1	0348	TURKS & CAICOS - SS religion atop Grenada.
555		22		0123	ST. KITTS & NEVIS Basseterre - ZIZ - m&f in EE.
555		23	-	0350	ST. KITTS & NEVIS Basseterre - ZIZ - good; reggae
560	1	24	1	0222	and urban mx.  JAMAICA Kingston - JBC: fair, reggae mx including the EE version of "Me Vacila (Reggae Fever)".
560	1	25	1	0909	GUYANA Georgetown - V. of Guyana: Badly ORMed by CHVO, local announcements, Hindi mx. SIO 422
595	1	22	1	0259	DOMINICA Hillsborough - Carib. EE talk w/ VOCM slop
600		23	1	2133	BRAZIL Porto Alegre - ZYK278 - R. Gaucha: fair,
600	1	25	1	0257	news in PP by m&f anchors. BRAZIL Porto Alegre - ZYK278 - R. Gaucha: PP talk w/ list of frequencies, Porto Alegre mention, then
600	1	25	1	0757	R. Gaucha ID u/ CBNA St. Anthony, NF BRAZIL Porto Alegre - ZYK278 - R. Gaucha: Up briefly over CKCL w/ ID and freqs. VOCM-590
					phased to reduce splatter, SIO 322
600	1	23	1	0636	VENEZUELA unID stn: Lottery numbers, mentioned Valencia, hyper DJ w/ Venezuelan mx. Became
600	1	23	1	2143	useless before an ID. SIO 322-1 VENEZUELA - R.Mundial: poor to fair, news and sports, "Radio Mundial" IDs, many mentions of
610	1	24	1	0701	Caracas, unID xmtr site. BRAZIL unID stn: Stn in PP under CHNC, but ID's
640				0620	garbled by QRM. SIO 222-1 GUADELOUPE Pointe a Pitre - RFO fair, m&f in FF,
640				0626	// 1375, o/u Cuba. GUADELOUPE Pointe a Pitre - RFO good w/ m&f FF
640	1	24	1	0740	talk // French Guiana - 1070 & St. Pierre - 1375. GUADELOUPE Pointe a Pitre - RFO: m FF talk, possibly
640	1	23	1	0416	w/ wx. summary for France. It was only noted when massive "Portenas 6-40" had no mx. SIO 222-1. ECUADOR Quito - HCXY1 - R. Nacional: Two
					"R. Nacional" ID's, SS talk re terrorism in Ecuador and support for the Armed Forces by the Ecuadoran people reception deteriorated as Cuba became stronger. SIO 232
640	1	23	1	0430	CUBA Guanabacoa / Las Tunas - R. Progreso good, "La Habana" ID and salsa / tropical mx.
640	1	23	1	0455	CUBA Guanabacoa / Las Tunas - R. Progreso ID good o others w/ Spain - 639 het notched; CBN off.
640	1	23	1	0458	CUBA Guanabacoa et al R. Progreso: Emerging over Ecuador, sports news and ID. SIO 332
640	1	24	1	0738	VENEZUELA Puerto la Cruz - YVQO - Portenas 640: SS ballad over v. weak Guadeloupe, ID at
660	1	22	1	0300	O740:30. SIO 444 ST. LUCIA Castries - jazz, ID "Radio St. Lucia";
660	1	22	1	2149	good, o/ WFAN. ST. LUCIA Castries - R. St. Lucia: Caribbean -
					accented ads and local PSA's. SIO 333
660 670	1	24 22	1	0219 0329	ST.LUCIA Castries - fair, continuous soca mx. VENEZUELA Caracas - YVLL - loud w/ Rumbos
670	1	25	1	0309	doorbells, SS news. VENEZUELA Caracas - YVLL - chimes, "Notirumbos
670	1	23	1	0740	Informa" news pgm; xlnt ARGENTINA Mar del Plata - LRI209 - SS talk, mx,
670	1	23	1	0740	R. Mar del Plata ID. ARGENTINA Mar del Plata - LRI209 - fair, "Radio Mar del Plata" ID in SS talk, Argentinian mx. +
673a	1	22	1	0305	also heard tentatively on 25 OCT @ 0743-0820. CANADA Grand Falls, NF - (domestic spur) C&W mx.,
690		22	1	0306	raspy audio of CKXG (680). Signal on 680 was actually getting wiped by WRKO some of the time ! ANGUILLA - The Valley - Carib. Beacon - EE preaching
700	1		120	0213	XLNT. + also good OCT 25 @ 0310 VENEZUELA Puerto Ordaz - YVPQ - R. Sur: xlnt,
	1	7.5			"Radio Sur" ID and salsa / merengue / rap mx.
700 720	1	25 23	1	0304	
	•		1		"720 AM" IDs, SS tropical mx.
730	1	23	1	0554	MEXICO Mexico City - XEX - good o/u CRAC, Mexican festival promo, "La Super X" ID, anthem before 0600.

-	42				
	1180	1	22	1	0213
	1200				2055
	1220	1	22	i	0050
	1230	- 1	25	1	0505
	1230	1	25	1	0335
	1230	1	25	1	0140
	1240	1	25		0130
	1240	1	25	1	0228+
	1260	- 1	25	1	0052
	1280	1	21		2257
	1280	1	24	1	0400
	1290	1	25	1	0358
	1300	1	22		0008
	1300	1	25	1	0142
	1330	1	21	1	2310
	1350	-1	25	1	0055
	1360	1	25	-	0111
	1420	-	25		0354
	1450	1	25	1	0502
	1450	ı	24	1	0234
	1450	1	25	1	0355
	1470	1	23		2353
	1480	1	24	1	0003
	1500	1	23	1	0526
	1500	1	25	1	0323
	1505	1	25	1	0110
	1520	1	24	1	0020
	1550	1	23	1	0342
	1550	1	25		0030
	1550	1	22	1	0242
	1550	1	25	1	0107
	1570	1	22	1	0323

1571.7	1	23	1	0043	BRAZIL Santo Andre, SP - ZYK651 (250 watts 1) - This was monitored on & off by Jean from 0043-0307: Stable on this freq. (as it was when checked on subsequent nights); religious programming, played the "Exodus" theme with canned ID's, unequivocal "Radio Emissora A.B. C." ID's at 0122 and 0300, Holy Rosary noted at 0234 and at 0301
1580	I	23	1	0224	from this off-frequency Brazilian graveyarder. BRRZIL unID stn: Initially alone on freq w/ ads and Brazilian mx, but CBJ came up quickly to wipe it out. SIO 232
1600	1	22	1	2205	
1600	1	23	1	0658	
1610	1	23	١	0705	ANGUILLA The Valley - EE talk. "LGB TLX" & "GCC1" CW beacon pests near channel - these 2 beacons are also audible at eastern MA QTH's.

## Countries logged on the 1993 NWF DXpedition

```
1 | Albania
                                  1089 1395
 2 Algeria
                                  549 891 1422
  Angola
                                  1088 1115 1313 1367 1502
 4 Anguilla
                                  690 1505 1610
   Antiqua & Barbuda
                                  1100
 6 Argentina
                                  670 870 1030
 7
  Austria
                                  1026 1476
 8
   Azores
                                  693 828 909 1259 1503 1566
 9 Belarus
                                  1566
10 Belgium
                                  540 927 1512
11 Benin
                                  1475
12
   Bermuda
                                  1160 1230
13 Brazil
                                  600 610 740 750 840 860 900 940 980 1030
                                  1040 1100 1120 1130 1150 1200 1220 1240
                                  1260 1280 1300 1360 1550 1571.7 1580
14 Bulgaria
                                 576 828 864 1161 1224 1296
15 Canada
                                 many (locals 590 640 740 800 930 1210)
16 Canary Islands
                                 621 837 882 1008 1098 1179
17
   Channel Islands
                                 1116
18 Colombia
                                  770 810 840 870 1170 1230 1450 1550
19 Croatia
                                 1125 1134
20 Cuba
                                 640 760 940 950 1180
21 Denmark
                                 1062
22 Dominica
                                 595
23 Dominican Republic
                                 1570
24 Ecuador
25 Egypt
                                 640
                                 819 864 1107 1593
26 England
                                 693 756 882 909 945 1053 1089 1116 1152
                                 1197 1242 1260 1296 1332 1431 1458 1476
                                 1485 1503 1521 1530 1548 1557 1584
27 Faroe Islands
                                 531
28 Finland
                                 963
29 France
                                 675 945 1071 1161 1206 1242 1350 1377
                                 1404 1467 1557
30 French Guiana
                                 1070
31 Germany
                                 666 756 873 936 972 1044 1107 1269 1323
                                 1422 1539 1593
32 Greece
                                 792 981(t) 1179(t)
33 Grenada
                                 535
34 Guadeloupe
                                 640
35 Guyana
                                 560 760
36 Hungary
                                 540 873 1188 1251 1341
37 India
38 Iran
                                 1566
                                 1404 1449 1566
39 Ireland
                                 567 612 729 1278
40 Isle of Man
                                 1368
41 Italy
42 Jamaica
43 Jordan
                                 846 900 1116 1332 1449 1575
                                 560
                                 801 1494
44 Latvia
                                 1350
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45 Lesotho
                                  1197
46 Libya
                                  711 1251
47 Lithuania
                                  1557
48 Luxembourg
49 Madeira Islands
                                  1440
                                  531
50 Malta
                                  1557
51 Mauritania
                                  1349
52 Mexico
                                  730
53 Moldova
                                  1449 1467
54 Montserrat
                                  885
55 Morocco
                                  594 819 1044 1053 1080 1188 1233 1325
56 Neth. Antilles
57 Netherlands
                                  675 747 1618.2 1638
58 Northern Ireland
                                  1026 1341
59 Norway
                                  1314
60 Oman
                                  1242 1413
61 Poland
                                  819 1206 1368
62 Portugal
                                  567 666 720 783 891 963 981 1035 1170
                                  1251 1377
                                  1330 1350 1480 1520
63 | Puerto Rico
64 Romania
                                  756 855 1053 1152 1179
65 Russia, European
66 Russia / Kaliningrad
67 Saint Kitts & Nevis
                                  810 1089 1116 1494
                                  1143 1386
                                  555 895
68 Saint Lucia
                                  660
69 Saint Pierre et Miguelon
                                  1375
70 Sao Tome & Principe
                                  1530
71 Saudi Arabia
                                  900 1440 1512 1521
72 Scotland
73 Senegal
                                  810 1035 1152 1449
                                  765
74 Slovak Republic
                                  702 1098 1287
75 Slovenia
                                  918
76 Spain
                                  531 558 567 576 585 603 639 648 657 666
                                  684 702 729 738 756 774 792 801 810 837
                                  855 864 873 954 972 990 999 1008 1026
                                  1044 1053 1080 1098 1116 1125 1134 1143
                                  1152 1179 1215 1224 1296 1305 1314 1341
                                  1359 1413 1485 1521 1575 1584 1602
77 | Sudan
                                  1296
78 Sweden
                                  1179
79 Switzerland
                                  765
80 Syria
                                  783 918
81 Trinidad & Tobago
                                  730
82 Tunisia
83 Turkey
                                  1566 585(t)
                                  1017
84 Turks & Caicos Islands
                                  535 1020
85 Ukraine
                                  972 1242 1377 1404 1431
   United Arab Emirates
                                  1476
87 USA
                                  many - most northern / eastern clears good
88 Uruguay
                                  850
89
   Vatican
                                  1530
90 Venezuela
                                  600 640 670 700 720 740 750 760 820 880
                                  890 900 950 960 1110 1230 1290 1420 1450
                                  1470 1500
91 Wales
                                  1125
92 Yugoslavia (Serbia)
                                  684 1413
  *** TENTATIVES ***
   Costa Rica
                                  1024.5
   Czech Republic
                                  954 1287
   Iraq
                                  1530 (clandestine; QTH probable)
   Macedonia
                                  810
   Oatar
                                  954
   Saharan Arab Republic
                                  1544 (clandestine; QTH probable)
                                  1548
  Sri Lanka
  |unID's
                                630, 1100.3, 1240, 1492.7, 1493
  *** Heard in NOV 1991, but not in OCT 1993 (some may now be inactive) ***
   Ascension Island
                                  1485 1602
   Balearic Islands
                                  909
   Barbados
                                  900
   Burkina Faso
                                  747
   Cameroon
                                  1152 1286
   Central African Republic
                                  1440
                                  1554
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Gambia
                              909.8
Guinea
                              1386 1404
Ivory Coast
                              1493a(t?)
Melilla
                              1359 - now on 972
                              872
Mozambique
                              1125
Niger
                              909 918 1170 1395
Nigeria
Saint Vincent
                              705
Spanish Morocco
                              990 1355 [see also Saharan Arab Rep. above]
                              1394
Togo
Zambia
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\*\*\* Others heard at various NF & MA sites / mostly 1991-1993 \*\*\*
(some may now be inactive)

```
Bahamas
                              810 1540
                              830 1530
Belize
Bolivia
                              1550
British Virgin Islands
                              780
                              1205 1555 (currently inactive)
Cayman Islands
Cyprus
                              1323
                              655
El Salvador
                              1215
Estonia
                              1458.2
Gibraltar
Greenland
                              700 720
                              1080 1170
Haiti
Honduras
                              650
Mayotte
                              1458
Panama
                              860
                              920
Paraguay
Saint Helena
                              1548
Sierra Leone
                              1206
                              600
Suriname
                              970 1000
Virgin Islands (US)
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Besides this report being the record of a specific DXpedition, it may be used as a comprehensive international DX guide for those in eastern Canada and the northeastern United States. Target stations and frequencies with best reception times are given for many countries. Medium wave and shortwave parallel frequency information is often provided; sometimes sign-on and sign-off times are listed. This article should assist DXers in focussing their efforts during the Winter '93 - '94 season and likely during DX seasons to follow.

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#### Abbreviations commonly used:

```
AA
       Arabic
                                            male, man
                                            middle-of-the-road music
                                    MoR
                                        =
CC
       Chinese
DD
       Dutch
                                    mx
                                         =
                                            music
EE
       English
                                    0/
                                            over, atop
    =
                                    o/u
                                            over / under (alternating)
                                         =
FF
       French
                                            public service announcement
GG
    -
       German
                                    PSA
II
    -
       Italian
                                    ORM
                                         =
                                            interference
                                         =
                                            radio
NN
       Norwegian
                                    R.
                                    s/off=
                                            sign-off
PP
    -
       Portuguese
RR
       Russian
                                    s/on =
                                            sign-on
                            SIO =
                                    strength/interference/overall merit
SS
    =
       Spanish
    =
11
       parallel frequency
                                    (t)
                                            tentative reception claim
RAD =
                                    TA
                                         =
                                            Trans-Atlantic
       big-band (jazz) music
C&W =
                                    TC
                                         =
                                            time check
       country-western music
                                    TOH
                                            top of the hour (e. g. 0500)
CW
       continuous-wave (code)
                                        =
   =
   =
       disk jockey
                                         =
                                            under
DJ
                                    u/
dom.=
       dominant
                                    unID =
                                            unidentified
EZL =
       easy-listening music
                                    v.
                                         =
                                            Voice (of)
       female, woman
                                    w/
                                            with
f
het =
       heterodyne, beat note
                                    wx
                                         =
                                            weather
       station identification
ID
                                    xlnt =
                                            excellent
       interval signal
                                    YV
                                            Venezuelan station
IS
   =
                                         =
LA
       Latin-American
                                    ZY
                                         =
                                            Brazilian station
```

Join the verification game!

Now, you can help out with station tests. Here's how: Send two 29¢ stamps per station to Jeff Tynan -10359 Severance Dr. - Parker, CO 80134-9104, and he'll print and mall an effective test request letter for you. Be sure to specify station and time. Increase your veries and help other NRC'ers at the same time ... Join the verification game!

# NW Scotland DX-ped ... by Mark Hattan

September-October, 1990

# \*\* NORTH AMERICA \*\*

540	0206	8.10	CBT	Grand Falls NF	Arts Week //1400 etc
	0539	30.09	CFNB	Fredericton NB	adverts, ID, rock music
560		30.09	CHVO	Carbonear NF	//590 adverts, VOCM Moose Alert, weather, music
	0310	8.10	CHVO	Carbonear NF	"5-60 CHVO Country", 20-20 weather
	2022		CDE	N	"First on the dial and best in the Bay"
570	2032 0955	10.10	GRF GRF	Nuuk Nuuk	rock music, int signal, news int signal and sign-on
570	0301	8.10	CFCB	Corner Brook NF	"VOCM Nightline" talk programme //590 1240 etc
	2210	1.10	CJFX	Antigonish NS	talk prgm, promo, ID
	2156	29.09	VOCM	St John's NF	easy listening pop classics
	2351		CBNA	St Anthony NF	CBC Talk prgm //750
	0434		CKXJ	Grand Bank NF	"KIX Country" contemporary C&W
620	2329	9.10	CKCM	Grand Falls NF	local adverts, local ID for CKCM & CKIM
640	2342	29.09	CBN	St John's NF	CBC relay //750 1400 etc
	2342	29.09	CKGA	Gander NF	//590 VOCM but with 1/2 second delay
650	2035	1.10	GRF	Qeqertarsuaq	//570 rock music, int signal, news
	0955	10.10		Qeqertarsuaq	int signal and sign-on
660	0650		CFFR	Calgary AB	adverts, promo, t.check, weather, oldies
	0621		CFFR	Calgary AB	"Classic Gold C-F-R Calgary's Family Radio"
	0707		WFAN	New York NY	sports talk
	0904		KFAR	Fairbanks AK	ABC Info News, adverts, jingles, Larry King promo, Talknet
	0340		CKXB	Musgravetown NF	"KIX Country"
	0540		WRKO	Grand Falls NF Boston MA	"KIX Country" station ID
	0459		CJOB	Winnipeg MB	news promo, ID, news
	0801		CFTR	Toronto ON	pop music, several ID's
	0444	10.10			YL with weather for Barrow
	2359	29.09	CHSJ	Saint John NB	end of "Jamboree" prgm, t.check, ID, Broadcast News
700	0339	9.10	WLW	Cincinnati OH	WLW's own talk prgm (phone 749 7000), adverts, ID's
710	2137	29.09	CKVO	Clarenville NF	//590 VOCM
	0444		WOR	New York NY	talk prgm
	0720	3.10	CHIN	Charlottetown PEI	rock/pop music, ID's
	0710	1.10	CKAC	Montreal PQ	French ID, music and adverts
	0002	8.10	CHCM		//590 VOCM
	0655	10.10	CBX	Edmonton AB	"That time of the night", CBC news, local ID, sign-off
	2209	30.09	CBGY	Bonavista Bay NF	CBC nationwide phone-in prgm
	0545	3.10	WSB	Saskatoon SK Atlanta GA	ID, C&W music and promo
	0545	1.10	WJR	Detroit MI	station ID after several back to back records Talk prgm
	0546		WABC	New York NY	ABC Talk Radio prgm
	0618	2.10		Calgary AB	Easy listening instrumental versions of pop songs, ID's
	0553	30.09			News reports
	0555	30.09		Port au Choix NF	"Country Countdown", "5-70 CFCB AM stereo" ID, sport news
790	0556	30.09	WNWS	S Miami FL	Talk prgm, promo for event with WNWS personalities in Miami
790	0600	30.09	C	2222 22	Broadcast News & Sport XD-ing WNWS/CFCB CIGM ??
790	0426	2.10	CFCW	Camrose AB	Peter Papa REL prgm, ID, sports news
	0434	10.10	CFCW	Camrose AB	C&W, t.check, temperature, ID
800	0551	1.10	CKLW	Windsor ON	easy listening memories, ID, adverts
	0710		CJAD	Montreal PQ (Pres)	French language prgm
	0230	5.10		St John's NF	"Music for Relaxation", sign-off ann's, "God Save the Queen"
	0605	30.09		Fort Worth TX	weather, C&W, ID and long distance no. 1-800 288 WBAP
	0630		CHAM	Hamilton ON	advert for cafe, ID, C&W
820	0759 0822		KCBF KCBF	Fairbanks AK	top of hour ID, news
				Fairbanks AK	"Kool Gold" oldies, "Kool 82" slogan
920	0841		KCBF WCCO	Fairbanks AK Minneapolis MN	"Kool Gold" oldies, ID's and slogans
	0534		WHAS	Louisville KY	News reports, ID, headlines and lead story at .58 station promo and ID
	0619	30.09	CHUR	North Bay ON	"Superstation from the Music Radio Network", pop music
	0620	30.09		Boston MA	advert, Talknet, .27 advert
	0620	30.09		Montreal PO	music and YL announcer in French
	0544		KOA	Denver CO	"News Radio 85 K-O-A", phone-in listener poll
	0628		CJBC	Toronto ON	music, YL in French, music
	0829		CHAK	Inuvik NWT	rock music and interview, ID and sign-off at 0855
	0715		WWL	New Orleans LA	"WWL AM 87", "Welcome To Israel" prgm
	0718		CFSX	Stephenville NF	CFCB relay, pop music, OM DJ, news at 0725
	0613		CFSX	Stephenville NF	CFCB relay, //790 CFNW
	0633		WCBS	New York NY	OM talk
	0914		CHQT	Edmonton AB	Easy listening favorites, "Q-T-8-80"
	0939		CIDC	Dawson Creek BC	"Old Coast To Coast" oldies, local adverts
	0608		CKDH	Amherst NS	"Coast To Coast", local adverts, "AM 90 CKDH"
900	0955	3.10	GRF	Uummannaq	int signal and sign-on

900	0709	10 10	СКВІ	Prince Albert SK	"Music Radio Network", local adverts at 0715
	0006		WABI	Bangor ME	ID, sports promo, ABC News
	0349	4.10	WABI	Bangor ME	oldies, "WABI AM 91", ABC News, sign-off
910	0219	2.10	CKDQ	Drumheller AB	C&W, prgm promo, adverts, ID's
	0420	10.10	CKDQ	Drumheller AB	REL prgm, .29 ID "Q-91", promo, C&W
910	0342	4.10	CHRL	Roberval PQ	talk in French
	2246		CICH	Halifax NS	pop music, ID, "19 in-a-row golden oldies"
	2100		CJYQ	St John's NF	"Newfoundland's Classic Gold"
930	0849		CJCA	Edmonton AB	Larry King, local adverts
	1030		CJCA	Edmonton AB	weather, ID, adverts
	0319		CJCA	Edmonton AB	"CJCA Dateline" talk prgm, ID's
	0341		CFBC	Saint John NB	sports news, ID, music
	0504		CBM	Montreal PQ	"Epilogue", local ID & sign-off, national anthem
	0637	30.09		Miami FL	Talknet
	2248		CHER	Sydney NS	pop music, ID, .00 "Rock & Roll Saturday Night"
	0524		CFAM	Altona MB	opera music prgm //1250
	0850		KJR	Seattle WA	sports phone-in, adverts, .04 legal ID, CBS News
	2245		CKNB	Campbellton NB	"95 CKNB" ID
	0408		WPEN	Philadelphia PA	"Night-time News from WPEN", big band / Nostalgia music
	2249		CHNS	Halifax NS	pop music, .00 "Rock & Roll Saturday Night"
960	0515		CFAC	Calgary AB	ID's over CHNS, C&W
	0651		CFAC	Calgary AB	"9-60 CFAC, Calgary's Home of Country Music"
	2139		CFIQ	Harbour Grace NF	"Q-93 St John's & Q-97 Harbour Grace", Classic Gold
970	0830		KIAK	Fairbanks AK	weather, ID, C&W
111	0748	10.10	KIAK	Fairbanks AK	C&W, weather, C&W, ID, Mutual News
	0612		WCUB	Two Rivers WI	advert for job at station, weather, "Cub Radio"
	0840		CKNW	New Westminster BC	promo, ID "NW-98"
	0702		WWNN		motivational talk prgm, jingle ID
	0703	9.10		Leland NC	NBC News, "Wave Weather Center", sports promo
	0730	1.72.7.7.5	WALY	Richfield MN	promo for 93.7 KLXK (FM sister station)
	0305		CBY	Corner Brook NF	CBC regional news and weather
	2252		CKBW	Bridgewater NS	end of C&W Billboard chart prgm
1000	0905		комо	Scattle WA	news, weather and ID
1000			КОМО	Seattle WA	rock/pop music
	0317		CFLP	Rimouski PQ	French talk prgm under CKBW
	0356		WLUP	Chicago IL	own Talk prgm, ID "WLUP Chicago AM one thousand"
	2352		WINS	New York NY	adverts, "Wins Newstime", Accuweather
	0138		CFRB	Toronto ON	phone-in about Goods & Services Tax
	0704		CBR	Calgary AB	local ID, sign-off and national anthem
	0423		CKXD	Gander NF	"KIX Country"
	2220		WYST	Baltimore MD	under WINS, but clear ID heard in brief gap
	0557	100000000000000000000000000000000000000		Pittsburgh PA	talk prgm
	2254	29.09		Boston MA	talk prgm about poverty
	0620		WHO	Des Moines IA	Talknet, local ID, adverts
	0650		CKXY	Vancouver BC	current rock music under massive WHO signal
	0135		WEVD	Toronto ON	adverts, jingle "10-50 Chum", pop music
	0243		CJRP	New York NY Quebec PQ	talk and music
	2214	29.09		Moncton NB	French pop music and OM ID CBC prgm //1400 1140 etc
	0621		KNX	Los Angeles CA	talk, ID, news, weather
1010	0652		KNX	Los Angeles CA	News and weather
	0640		KNX	Los Angeles CA	News etc.
1070	0654		WHYZ	Sans Souci SC	
72.00	0625		CHOK	Samia ON	sports promo and ID oldies, "Bluewater's Very Best"
1010	0140		CHOK	Sarnia ON	
1080	0623		WTIC	Hartford CT	Toronto Blue Jays v Baltimore Orioles baseball coverage adverts, Talknet
	0702	2.10		Lloydminster AB	Broadcast News, sport
	0109		WBAL	Baltimore MD	sports results
	0910		KING	Seattle WA	Talk (1-800 423 TALK), adverts
	0245		KBOZ	Bozeman MT	C&W,, YL with clear ID peaking over WBAL
	0110			Cleveland OH	sports news
1100	0702		KFAX	San Francisco CA	REL prgm behind WWWE
	0946		KFAX	San Francisco CA	alone but weak
1110	0153		WBT	Charlotte NC	talk about music tapes, adverts, jingle ID
TANKS VE	0715		WBT	Charlotte NC	Larry King, WBT Accuweather, adverts
1110	0715		KFAB	Omaha NE	Talknet, ID, NBC Radio News
	0233		KMOX	Saint Louis MO	sports news
	0615		WBIS	Concord CT	sports prgm (American Radio Network from Boston)
	0902	1.10		Vancouver BC	YL news, "WX 11-30 Weather"
270.5	0824	2.10		Vancouver BC	DESCRIPTION OF THE PARTY.
	0619	5.10		Vancouver BC	
1130			WNEW		adverts
	0826		CISS	Calgary AB	Accuweather, "11-40 Ciss AM", pop music
	2211	29.09		Sydney NS	CBC music prgm //1400 etc.
	0605		WRVA	Virginia WV	ID, adverts, show promo
	0356	9.10		Trois Rivieres PQ	French talk, music, news, sport, local ID at .06
1150		2.10		Brandon MB	advert, local farming prgm promo
1150			CHGM		music, French talk
100000			POLICE MANAGEMENT	NOW AS COME	HEST TRACE OF THE STATE OF THE

LU					
1160	0625	1.10	KSL	Salt Lake City UT	talk and adverts
	0605		KSL	Salt Lake City UT	CBS News
	0505	9.10	KSL	Salt Lake City UT	"Larry King from the Mountain West"
1170	0950	1.10	CKGY	Red Deer AB	"Alberta Tonight" C&W music prgm, ID "KG Country & Cisn FM"
1170	0728	2.10	KJNP	North Pole AK	ID and address for music requests, REL prgm
	0858	2.10	KJNP	North Pole AK	Russian REL prgm, AP Network News, ID, weather
	0823	9.10	KJNP	North Pole AK	Russian REL prgm, English ID
	0835	10.10	KJNP	North Pole AK	Russian REL prgm
1180	0744	30.09	WHAM	Rochester NY	talk prgm
1190	0718	30.09	wowo	Fort Wayne IN	oldies
1190	2320	30.09	WLIB	New York NY	pop oldies & reggae music, adverts, ID "11-90 WLIB"
1190	0714		CFSL	Weyburn SK	"Star Country", local ID, news and weather
	0918	3.10	CFSL	Weyburn SK	"Star Country"
1200	0125	1.10	WOAL	San Antonio TX	1/2 hour REL prgms, ID's in intervals
	0635	3.10	WOAI	San Antonio TX	own Talk prgm (1-800 383 9624)
1200	1020	1.10	CHMG	Saint Albert AB	MoR hits and oldies
1200	0204	1.10	CFGO	Ottawa ON	pop music, ID "Energy 12 hundred"
1210	0013	30.09	WOGL	Philadelphia PA	"Oldies 12-10 W-O-G-L", oldies (ex WCAU)
1220	2206	29.09	CKCW	Moncton NB	pop countdown, ID's
1220	0326	2.10	CJRB	Boissevain MB	Radio Bible Class
1220	0120	4.10	WKNR	Cleveland OH	"The music you remember best on AM 12-20 WKNR"
1230	0530	3.10	WJNO	West Palm Beach FL	ID and promo
	0733	8.10	WJNO	West Palm Beach FL.	"WJNO AM 12-30, The News Station"
1230	2231	3.10	C	2222 22	CBC French Network ID 6 possible
	2257		CFGN	Port aux Basques NF	CFCB ID and pop
	0106			Bermuda	REL prgm until 0115, prgm promo, ID and pop
	2303		WCMC	Wildwood NJ	ID and dining guide
	2207		CKIM	Baie Vene NF	//590 VOCM
	2235		CJRW	Summerside PEI	Lcheck and ID
	2212		CJRW	Summerside PEI	
1240	0605		C	7777 77	end of CBC sign-off and national anthem Saskatchewan??
.55.77	0435		WMMB		Larry King, eventual ID given at 0530
	0524		CHSM	Steinbach MB	opera music prgm //950 CFAM
1200	0328		CHSM	Steinbach MB	Radio Bible Class //1220 CJRB
1250	0550		WEMP	Milwaukee WI	ID "12-50 WEMP in Milwaukee"
1250			WDAE	Tampa FL	
	0605		WTAE	Pittsburgh PA	ID, t.check, weather
1260			CFRN	Edmonton AB	Larry King, ID and weather "Oldies 12-60", oldies
	0657		WEZE	Boston MA	
1270			CJCB		REL prgms, ID's
1280				Sydney NS	pop music, sports news, marine forecast
			CHRB	High River AB	"Star Country", ID and jingle
	0612			Necnah WI	ID, market report promo, oldies
1290			CUPM	Winnipeg MB	"12-90 Fox", Favorites of the 60's, 70's & the 80's French sports prgm with many English language clips
1290	0907		CHRM	Matane PQ	pop music, weather, ID
1300	0159		CIME	Regina SK Regina SK	instant phone-in pop requests/dedications
1200	0057		WXRL	Lancaster NY	C&W, ID "WXRL Lancaster-Buffalo"
	2202	29.09		New Glasgow NS	Broadcast News, sports news, t.check, weather
	0933		C	7777 77	un-id'd "Coast To Coast" network station
	2238		CKXX	Corner Brook NF	C&W, ID "Kicks Country" (not part of KIX Country !!)
	0856		CFYK	Yellowknife NWT	Interview, music and sign-off at 0900
	0515		CKAD	Middleton NS (Pres)	"Star Country"
	0515		WBSK	Portsmouth VA	pop oldies, ID "The all new AM 13-50 WBSK"
	0645		WDRC	Hartford CT	favorites
	0648		CKBC	Bathurst NB	adverts, "Coast To Coast" pop music
	0329		WDEA	Ellsworth ME	Larry King, local break and ID
	0913		CFOK	Westlock AB	"Star Country", ID as "North Central Alberta Radio Network",
1370	0513	1.10	J. JK	··· valence / 113	bulletin board, weather
	0516	2 10	CFOK	Westlock AB	"North Central Alberta Radio Network"
	0552		CFOK	Westlock AB	weather and adverts
1276		29.09		St Pierre & Miquelon	OM announcer intro-ing ballads/EZL
13/3	2130				classical music, YL announcer
1200	0745	C 64 (1.6) (2.5)	CKLC	St Pierre & Miquelon Kingston ON	ID and DJ's name
1300	0014		CKLC		"Open House Party" CHR music
1200		(23.275.1		Kingston ON	oldies and ID
200	0014	10000	CKPC	Brantford ON Port Huron MI	announcing new long-distance toll-free number 1-800 228 WPHM
	0051		CFDA	Port Huron MI Victoriaville PO	ID and news in French
			KRKO	Victoriaville PQ Everett WA	pop music, OM ID, NBC Radio News
	0459				un-id'd Talknet station
			7777	7777 77	adverts, news from the Satellite News Service, OM ID
	0920		KOTA	Rapid City SD	oldies, ID "Dusty Radio 13-90", adverts for Chicago
	0541	7.10		Chicago IL	
	0344		WTMS		records, WTMS Weather Watch
	0450		WCSE	Charleston SC	"Kool Gold" oldies, local ID's
	0212		CHOO	Ajax ON	REL prgm and ID's
	0012		WFBL	Syracuse NY	"We're 13-90 AM stereo WFBL"  ID "Big Rig AM 13-90", oldies
	0646		WRIG	Schofield WI Gander NF	
	2128		CBG		CBC talk prgm adverts and talk (off channel 1409,93 kHz)
1410	2158	29.09	CIGO	Port Hawkesbury NS	actions and talk (off channel 1407.73 k(12)

1410	0433	1.10	CFUN	Vancouver BC	pop music, ID's "14 C-Fun", adverts, weather
	1019		CFUN	Vancouver BC	British Columbia Transit promo
	0526		CFUN		"Solid Gold Weekend"
1410				Vancouver BC	
	0100		WPOP	Hartford CT	ABC News, ID, ABC Talk Radio
1420	0816		CJVR	Melfort SK	ID, weather for Melfort, adverts
	0303	9.10	CJVR	Melfort SK	NHL commentary, ID, adverts
	0940	9.10	CJVR	Melfort SK	"Star Country" (still here at 1130 UTC !!)
1420	0851	4.10	WOC	Davenport IA	Talknet, ID, NBC prgm "First Light"
	0851		KTOE	Mankato MN	talk, adverts, ID's, ABC News
	0507		CJCL	Toronto ON	casy listening music, horse racing promo, ID
1430	0430		CJXX	Grande Prairie AB	"Star Country", adverts, PSA's
	1028		CJXX	Grande Prairie AB	"Star Country", PSA's
	0940		CJXX	Grande Prairie AB	"Star Country", local news and adverts
1430			WENE	Endicott NY (Pres)	satellite fed oldies prgm
	0413	7.10	WENE	Endicott NY	end of news, YL ID, jingles, oldies
	0301	9.10	WENE	Endicott NY	"The Oldies Station 14-30 WENE" "The Big E"
1430			WXKS	Everett MA (Tent)	nostalgia type records x-fading WENE
	0535		WXKS	Everett MA	ID and oldies (mixing with WENE & CJCL)
1440	0209		WLPZ		
1440	0209	3.10	WLIL	Westbrook ME	Z-Rock satellite service, ID "The Rock never stops, Z-Rock,
	0010		umno		WLPZ Westbrook Portland" (ex WWGT)
1440	0219		WRRO	Warren OH	weather, adverts, Browns' Hot-line promo, ID's
	0356		WRRO	Warren OH	DJ ending his show, ID's, sign-off at 0400
1440	0305	7.10	WFTQ	Worcester MA	"This is your weather station WFTQ Worcester"
1450	0022	30.09	WFPG	Atlantic City NJ	ID, adverts for winter storage
	0303		CFAB	Windsor NS	Broadcast News, Lcheck
	0640		VSB	Bermuda	adverts, ID, C&W
	0342		WFRA	Franklin PA	
			CHOW		football coverage promo with ID
14/0				Welland ON	"Star Country"
	0700		CHOW	Welland ON	Standard Broadcast News, "Star Country"
	0630		CHOW	Welland ON	station promo & ID
1470	0659	30.09	KWSL	Sioux City IA	easy listening music, ID "The Heart and Soul of Sioux City,
					AM 14-70 KWSL", CNN News
1470	0002	1.10	WLAM	Lewiston ME	ABC News, OM ID, weather, Talknet
	0314	1.10	WJDY	Salisbury MD	YL with ID, easy listening music
1470	0431	1.10	CJVB	Vancouver BC	Chinese REL prgm
	0526		WHBC	Canton OH	pop/easy listening music, YL DJ, adverts, OM ID "This is 14-80 WHBC"
	0526		WTDY	Madison WI	Talknet, ID "News Talk 14-80 WTDY"
	0031		WSAR	Fall River MA	station ID
	0034		WSDS	Ypsilanti MI	C&W, YL with ID
	0546		CKER		REL prgm with address in Grande Prairie
	2309			Edmonton AB (Pres)	
			CJMC	St Annes des Monts PQ	French OM, promo including ID's
	2351		WTOP	Washington DC	"WTOP National Weather Forecast"
1510	0803		KGA	Spokane WA	ABC Info News, weather, C&W
	0340		KGA	Spokane WA	C&W, promo's, ID
	0830	2.10	KGA	Spokane WA	C&W, ID
1510	2227	3.10	WKKU	Boston MA	C&W, ID's
1510	0422	4.10	WLAC	Nashville TN	REL prgms, ID at 0430
1510	0425	4.10	CJRS	Sherbrooke PQ	talk in French
	0035			Buffalo NY	adverts, Talknet
	0633		KOMA	Oklahoma City OK	jingle ID, 60's oldies
	0548		KOMA		
1520					oldies, legal ID "Oklahoma's authentic oldies station"
	0618		KFBK	Sacramento CA	talk, local news, local adverts, Talk Radio
	0636		WCKY		Talknet
		30.09		Waterloo IA	advert, ID, Interstate Radio Network
1540	0150	9.10	CHIN	Toronto ON	Indian music prgm, English ID, more Indian prgm
1540	0157	9.10	WPTR	Albany NY	CNN Headline News, ID, news
1550	0940		KKHI	San Francisco CA	classical music, PSA, ID for AM & FM
			WQXR		classical music
	0630		K???	2222 22	un-id'd talk prgm under WQXR on West Coast aerial
			CKLM		French C&W
	0744			Winkler MB	"Star Country"
	0115		CFOR	Orillia ON	Toronto Blue Jays v Baltimore Orioles baseball coverage
	2304	30.09		7777 77	"Rock and Roll Oldies Show", phone: 548 3465
1580				Camp Lejeune NC	ID "WWOF Jacksonville", REL music and sign-off
764	2316			Camp Lejeune NC	sign-off announcement
1590		1.10	WSMN	Nashua NH	news and weather
1590	0626	2.10	WAKR	Akron OH	Larry King, local ID
1600	0640	30.09	KCRG	Cedar Rapids IA	C&W prgm "Nashville Nights from 16 Country KCRG"
	0615		KCRG	Cedar Rapids IA	"16 Country" C&W and ID's
1600	0650	30.09	CHNR	Simcoe ON	PSA on "Defensive Driving", prgm promo, "Coast To Coast"
	2235		WLNG	Sag Harbor NY	advert, weather forecast, adverts, pop music, sports news,
	-	50075	1000	Charles and a series	"Older hits and new hits, Radio Eastern Long Island, WLNG"
1600	2300	30.09	WUNR	Brookline MA	ID on hour
1600			KGST	Presno CA	Spanish C&W songs
12227	0953		KGST	Fresno CA	Spanish C&W songs, "Radio Mexicana"
1600	0528	2.10	WAAM	Ann Arbor MI	Larry King, local ID, weather

# \*\* CENTRAL AMERICA & CARRIBEAN \*\*

580	0431	6.10	WKAQ	R Reloj, San Juan PR	OM ID "Radio Reloj WKQ"
	0725	12.10	WKAQ	R Reloj, San Juan PR	The transfer of the state of th
620	2330	9.10	ABBS	Antigua	OM with news and events information
700	0710	5.10	JBC	Montego Bay	interview with a Government Minister 1/750
750	2304	2.10	JBC	Port Maria	news and ID
760	0253	5.10	CMBD	R Reloj	OM talk, t.checks and morse code "RR"s
790	2330	7.10		Voice of Barbados	REL prgm, .44 announcer, .45 songs
790	0651	9.10	CMAD	R Reloj	OM talk, Lchecks and morse code "RR"s
800	0230	5.10	PJB	TWR Bonaire	Christian prgms
830	0604	30.09		R Belize	music, ID, prayer and sign-off
895	2303	2.10		Voice of Nevis	pop music, ID "Radio V-O-N"
910	0015	30.09	CM	R Reloj	OM talk, t.checks and morse code "RR"s
930	0151	8.10	CM	R Reloj	OM talk, Lchecks and morse code "RR"s
940	0405	30.09	CM	R Reloi	OM talk, t.checks and morse code "RR"s
940	0746	3.10	XEQ	Mexico	Spanish rock music, ID's
980	0730	5.10	CM	R Reloj	OM talk, t.checks and morse code "RR"s
1070	0612	6.10	RFO	French Guiana	relay of France Inter (equal strength with France on 1071)
1180	0109	30.09	CM	R Taino	sport, music and cultural news
1420	0829	3.10	SCN	Fort Davis, Panama	AFRTS ID, UPI Radio News
1430	2330	29.09	4VGM	Haiti (Tent)	YL presenter in French between melody type records
					(only French language station listed is 4VGM in Haiti)
1440	0359	7.10	CMIL	R Surco	ID and sign-off, national anthem
1480	0133	10.10	WMDD	R Oriente, Fajardo PR	YL advert, OM REL talk/address
1570	0100	30.09		Atlantic Beacon	YL preacher
1580	0015	30.09	VOA	Antigua	news
1600	2255	2.10	WLUZ	R Luz, Bayamon PR	latin music, full ID at .59
1610	0219	6.10		Caribbean Beacon	Christian prgms (very weak low power ??)

# \*\* SOUTH AMERICA \*\*

550	0714	6.10	YVKE	R Mundial	latin pop, ID
580	0718	6.10	YVMJ	La Voz de la Fe	YL talk, jingle ID
	0720		YVQO	Porteñas 6-40	latin pop, OM ID
680	2302			R Diffusora do Maranhoa	OM ID and fanfare
	0723		YVKY	R Capital	latin pop, YL ID
	0433		YVKS	R Caracas	pop and ID
	0516		HJAJ	RCN Barranquilla	1/770
	0514		ШЈХ	RCN Bogota	ID and talk
780	0551		YVMN	R Coro	music and ID's (New frequency ex 1210)
780	0551	10.10	HJZG	La Voz del Valle	music, TOLEDAR network ID's, news
	0336		HJCY	CARACOL Bogota	adverts, ID's
	2213		ZYJ459	R Mundial	pop, ID jingle
	0427		YVRQ	"RQ", Caracas	latin pop, "RQ" ID's
	0553		HJCS	R Continental, Bogota	TOLEDAR network ID and news
	2150		ZYJ453	R Jornal	talk
	0454		YVKG	R Vision	OM sign-off, national anthem (NOT 24 hour schedule)
	0633		HJHN	CARACOL	ID's and talk
	0543			R Super, Bogota	ID and Lcheck
	0640			R Nacional de Brasil	OM hosting phone-in
	0630		HJES	RCN Cali	latin music, local ID, adverts
	0528		HJCC	Mil Viente, Bogota	latin songs, ID's
1060	0205	10.10	HJLY	R Delfin	ID and "musica romantica"
	0350		HJSA	CARACOL Barranquilla	news, ID at .59
	2310			R Globo, Sao Paulo	OM talk, adverts, ID
	0310		YVMF	Super Ondas	pop and romantic songs
1130	0818	5.10	HJVA	Radio 24, Bogota	music, ID slogan and t.check
1190	0602	3.10	LR9	R America	news and ID
1190	0444		HJCV	R Cordillera	latin pop, ID's
1210	0021	5.10	YVZT	R Anzoategui	ID and music
1210	0056	8.10	HJFR	R Reloj, Neiva	ID, latin music mixing with YVZT
1210	0102		HJBE	Antena 2 RCN, Cucuta	RCN ID and jingle
1220	2213		ZYJ458	R Globo, Rio de Janeiro	talk and ID's
1220	0808	5.10	HJFV	R Reloj, Barranquilla	music and ID
1230	0800	5.10	HJLK	R Calidad, Cali	music, cock crows and ID
	0000		YVBW	La Voz de Venezuela	sweeping and steady tones, open carrier
	2157		YVBW	La Voz de Venezuela	music, local test announcement, sign-off
	0024	10.10		"La Voz del Centenario"	8.30 t.check, YL with station ID (not listed anywhere)
	0252		YVKH	R Mil Trescientos	YL talk, .57 OM ID
	0315		YVZA	R Fe y Alegria	music, OM sign-off announcements, national anthem
	0737	4.10	YVJW	R Latina	pop music, OM DJ with ID
	0159		YVSY	R Vibracion	latin songs, ID
	0151		HINT	R Total	spanish pop, YL ID (mixing YVSY)
	0500		YVRP	Favoritas el Sol	OM ID and strong latin dance music
	0630		YVYO	R Occidental, Santa Rita	bright latin music, ID's
	2020			ventury venture 15114	

#### \*\* ASIA \*\*

750	1830	30.09	Taiwan	BED2 Taiwan (Pres)	YL/OM talk
864	1855	1.10	S Korea	HLKR Kangnung	talk, music and time signal
864	1919	1.10	Saudi Arabia	BSKSA Damman	Arabic talk and music
900	1853	1.10	Taiwan		talk
900	2333	5.10	USSR	Alma Ata	YL and music
927	1849	1.10	Taiwan		music and YL
1008	1820	30.09	Taiwan	Luchiang	OM talk in Chinese
1071	0030	7.10	India	Rajkot	Urdu Foreign Service (listed), music and songs
1251	1955	1.10	Taiwan	2.60-	OM talk
1433	2140	3.10	Saudi Arabia	BSKSA Damman	Arabic anti-Iraq talk (off nominal 1440 channel to avoid jammer)
	2322	6.10	Saudi Arabia	BSKSA Damman	Arabic anti-Iraq talk (now with bubble jammer)
1440	0305	7.10	Saudi Arabia	BSKSA Damman	Koran recitation
1467	2353	5.10	USSR	Kirghizia	tuning signal, ID, Kremlin chimes, national anthem
1521	1930	1.10	China	R Beijing	YL in Russian
1521	1630	3.10	Taiwan	CBS Matsu	Chinese music under R Beijing in Russian
1566	1805	30.09	S Korea	HLAZ Cheju	English/Korean bi-lingual morning programme
1575	1645	1.10	Thailand	VOA	Bangla prgm, then English lesson
					77.5 A. C. P. C. P. C.

#### \*\* AFRICA \*\*

1355 2300	4.10 Algeria	Polisario station	Arabic talk

#### \*\* EUROPE \*\*

819	1115	9.10	North Sea	R Caroline	pop and ID
909	2345	6.10	Azores	R Club do Angra	rock/pop, "Power Station" slogan
1260	0144	3.10	Greece	VOA Rhodes	"VOA Wednesday Morning", news
1332	1848	30.09	USSR	R Tallinn	OM, music, time signal, YL ID
1440	0357	5.10	Yugoslavia	RTV Beograd	interval signal, sign-on, talk and pop
1566	0042	7.10	Azores	Clube Asis do Atlantico	pop/rock music

## \*\* ANTENNAS & RECEIVERS \*\*

300 metre	un-terminated	045 deg	Asia / Far East / USSR
450 metre	terminated	320 deg	Greenland / Alaska / Alberta / British Columbia / Washington / NWT
500 metre	terminated	305 deg	Manitoba / Ontario / Great Lakes / East Coast
400 metre	terminated	270 deg	Florida / Caribbean / Venezuela / Colombia

Martin Hall - NRD 525 (Eskab modified)

Mark Hattam - Drake R7A with RV-75 vfo, Sherwood SE3 sync AM detector, Datong FL3

Clive Rooms - Drake R7
Steve Whitt - Sony ICF-2001D (modified), active antenna tuner, audio filters

## Sheigra, NW Scotland; April, 1991

## \*\* NORTH AMERICA \*\*

560	0226	7.04	CHVO	Carbonear NF	C&W music, "VOCM Cares" promo, ID "5-60 CHVO Country"
590	0230	7.04	VOCM	St John's NF	Open House Party Saturday Night (CHR format)
600	0253	8.04	CBNA	St Anthony NF	CBC Arts/Music prgm //640 CBN
610	0355	7.04	CKXJ	Grand Bank NF	1225 t.check, KIX country network, "Newfoundland's Best Country"
610	0540	8.04	CHNC	New Carlisle PQ (Pres)	OM presenter in French, French song
620	0231	7.04	CKCM	Grand Falls NF	Open House Party //590 VOCM
640	0700	10.04	CBN	St John's NF	CBC News
650	0348	8.04	CKGA	Gander NF	pop, "VOCM logo on the door" shopping promo
670	0053	18.04	CKXB	Musgravetown NF	KIX Country //680 CKXG etc.
680	0442	10.04	CKXG	Grand Falls NF	KIX Country, sports results
700	0543	11.04	WLW	Cincinnati OH	WLW's own talk prgm
710	0053	15.04	CKVO	Clarenville NF	pop classics //740 CHCM etc
740	0651	10.04	CHCM	Marystown NF	VOCM shopping promo //590 VOCM but with satellite delay
750	0607	15.04	CBGY	Bonavista Bay NF	CBC overnight music & news //640 CBN etc
790	0147	18.04	CFNW	Port au Choix NF	Nightline talk prgm, adverts, CFCB ID //590 740 etc but not 560
				"You're listening to the V	OCM-CFCB all Newfoundland & Labrador Radio Network."
850	0304	14.04	WHDH	Boston MA	WHDH News and Sport, Channel 7 wx, talk show
880	0613	11.04	WCBS	New York NY	adverts, weather, ID "WCBS News Radio"
910	0425	18.04	WABI	Bangor ME	easy-listening pop, "WABI AM 91", WABI Community Bulletin Board
910	0430	18 04	CHDI	Pohanual PO (Peac)	OM in Fernal under WARI

910 0430 18.04 CHRL Roberval PQ (Pres) OM in French under WABI

52					
920	0212	8.04	CBO	Ottawa ON (Pres)	Talk, film review, "CBC Radio" ID
920	0236	8.04	CJCH	Halifax NS	"92 CJCH" jingle, weather
	0130	7.04	CJYQ	St John's NF	Broadcast News, Q-93 AM weather, oldies "NF's Oldies Station"
200	0210	18.04	CBM	Montreal PQ	CBC talk prgm
	0100	10.04	CHER	Sydney NS  Philadelphia PA	Standard Broadcast News "9-50 WPEN" ID and Nostalgia music
	0446	18.04 15.04	WPEN	Philadelphia PA Halifax NS	"96 CHNS" promo and pop music
	2321 0603	11.04	WYNZ	Portland ME	easy-listening music, ID, adverts
	0449	16.04	CFIQ	Harbour Grace NF	oldies, weather, adverts //930 CJYQ
	0406	17.04	CKBW	Bridgewater NS	Star Country
	0230	18.04	CFLP	Rimouski PQ	OM talk in French
1010	0602	18.04	WINS	New York NY	adverts, "Wins Newstime 2.03"
	0336	18.04		Pittsburgh PA	KDKA's own talk program
	0251	18.04		Boston MA	Talk, ID and weather
	0150	18,04	WEVD	New York NY	"R G Reynolds' Financial Cone Formula" sales program
	0153	18.04	CHUM	Toronto ON	adverts, ID, pop music Reseau Mutuel Informations
	0207	18.04 18.04	CJRP	Quebec PQ Moncton NB	weather and Classical Music
	0720	19.04	WTIC	Hartford CT	adverts, TalkNet
	0206	18.04	WBAL	Baltimore MD	adverts, Orioles Baseball Network including ID
	0606	11.04	KMOX	Saint Louis MO	12.06 Lcheck, "KMOX Radio News", St Louis medical news
	0203	18.04	WNEW	New York NY	Mutual News, adverts, Larry King promo for later program
	0515	9.04	CBI	Sydney NS	OM with classical music //other CBC stns
1180	0234	18.04		Rochester NY	Talknet, local adverts, ID "11-80 W H A M"
	0412	11.04	wowo	Fort Wayne IN	"WO-WO Fort Wayne's only all oldies station 11-90 AM & FM 103"
	0805	13.04	wowo	Fort Wayne IN	"Your weather station WO-WO"
	0613	11.04	WOAI	San Antonio TX (Pres)	advs, financial phone-in talk, snow report on I-83
	0101	18.04	WAGE	Leesburg VA	Orioles baseball network, local ID, local adverts and promo's
	0321	18.04	CFGO	Ottawa ON	"All hit Energy 12 hundred", CHR pop
	0608	18.04	WKOX	Framingham MA	advert, promo, ID's, oldies
	0408 0246	7.04	WOGL	Philadelphia PA Moncton NB	"Oldies 12-10 WOGL" pop, instant phone dedications/requests
	0458	15.04	WKNR	Cleveland OH	"AM 12-20 WKNR", classic pop
	0700	12.04	WCMC	Wildwood NJ	"Enjoy the musical memories on WCMC Wildwood", Satellite Netw Nx
	0707	12.04	CFGN	Port aux Basques NF	pop classics, "CFCB" ID, Leheck for 4.37, "Q-93 Sports"
	0530	10.04	CKIM	Baie Verte NF	//590 VOCM
	0402	10.04	CBGA	Matane PQ	OM talk in French
1270	0302	17.04	CJCB	Sydney NS	Broadcast News & Sport, Cape Breton weather, ID's
1320	0313	12.04	CKEC	New Glasgow NS	pop oldies, ID and weather
1360	0323	19.04	CKBC	Bathurst NB (Pres)	adverts, Coast-To-Coast Network, pop music
	0628	11.04	WDEA	Ellsworth ME	Larry King, .29 adverts, ID's
	0415	8.04	RFO	St Pierre & Miquelon	relay of France Inter
	0237	17.04	CFDA	Victoriaville PQ	OM in French under CKLC
	0237	17.04	CKLC WGCI	Kingston ON	OM/YL news, jingle ID, pop
	0516	11.04	CHOO	Chicago IL Ajax ON	"Dusty Radio 13-90", Motown oldies music "Gallagher On Sport" phone-in on Satellite Radio Network
	0559	16.04	WPLM		easy-listening music, ID, news and sport
	0217	18.04	WFBL	Syracuse NY	"You're listening to the Music Of Your Life right here on
				.,	13-90 AM stereo WFBL", CNN News at 03.00
1390	0515	19.04	WXTC	Charleston SC	"97 FM WXTC", soft rock [no longer KOOL GOLD!!]
	0335	7.04	CBG	Gander NF	"Saturday Night Blues" music programme
	0443	11.04	CIGO	Port Hawkesbury NS	programme promo, ID, Coast-To-Coast Network
	0510	10.04	WPOP		Larry King, ABC News on hour
	0448	15.04	CKSL	London ON	pop music, ID
	0402	19.04	WENE	Endwell NY Warran OH	CNN Radio News, advert, jingle ID, oldies
1440	0252	17.04	WRRO	Warren OH Warren OH	sports, adverts, ID
1440	0258	12.04	WFTQ	Worcester MA	classic rock/pop, ID's ID, ABC News
	0241	17.04	WLPZ	Westbrook ME	Z-Rock, adverts
1470	0443	8.04	CHOW	Welland ON	ID, Star Country
1470	0430	11.04		Lewiston ME	Larry King, advert and ID
	0247	17.04		Lewiston ME	"WLAM's Music Of Your Life" [No longer Talknet!!]
1470	0528	11.04		Toledo OH	full ID, CNN Headline News, local car dealer advert
	0459	15.04		1Tolcdo OH	ID and CNN News
345 7 437	0448	19.04	WRBD	Fort Lauderdale FL	OM ID, toll-free phone number, easy-listening pop
	0553	15.04	W-7-7-7	7777 77	news, music, "Face The Nation"
	0719	18.04		7777 77 Washington DC	Jim Bohannon Show
	0510	10.04	WTOP	Washington DC Nashville TN	Larry King ID's at 0445 & 0500, REL prgm from Georgia
	0248	17.04		Buffalo NY	Talknet
		10.04		New York NY (Pres)	orchestral concert
1560	0525	15.04			
1560 1570			CKMW	Winkler MB (Pres) Ann Arbor MI	C&W, NHL scores, "Coast-To-Coast Country" ID, news, Larry King

## \*\* CENTRAL AMERICA & CARIBBEAN \*\*

1100	0729	12.04	ZDK	Antigua	reggae music, "ZDK" ID's & "Magic" slogans
1180	0557	12.04	CM	R Taino	latin music, SP & EG ID
1190	0149	17.04	WBMJ	San Juan, PR	EG phone-in prgm, news, ID, EG REL prgm
					"A message of hope for Central Eastern Puerto Rico, WBMJ"
1390	0555	11.04	WISA	Isabella, PR	ID "Wisa" and freq announcement, easy-listening latin music
1420	0723	16.04	ACB20	SCN Panama	ID and pop music
1570	0150	8.04		Atlantic Beacon	local ID & promo insert into US fed CNN sports news
1610	0000	7.04		Caribbean Beacon	ID and 8 o'clock t.check. Later at eg 0700 noted //7520 kHz WWCR

## \*\* SOUTH AMERICA \*\*

930	0204	11.04	CX20	R Monte Carlo	"Informa Monte Carlo" news
	0257	15.04	CX20	R Monte Carlo	ID, Lcheck for media noche, talk
950	0130	19.04	LR3	R Belgrano	Talk and ID
1070	0028	9.04	RFO	French Guyana	satellite delayed relay of France Inter //1071 1350 etc
1070	0124	19.04	LR1	R El Mundo	"Radio El Mundo" ID and talk
1100	0706	9.04	ZYK694	R Globo, São Paulo	Globo jingle ID's, music and talk
1120	0530	9.04	ZYK274	1120 AM Porto Alegre	Brazilian music and talk
1190	0530	9.04	LR9	R América	OM & YL with news, "America la Radio de la Noticias"
1190	0158	17.04	HJCT	LV de la Costa	OM talk, ID and sung ID
1200	0435	16.04	HJNF	R Super, Cali	t.check, ID, local songs
1210	0607	12.04	YVZT	R Anzoátegui	latin music, ID's
1220	0052	8.04	ZYJ458	R Globo, Rio de Janeiro	songs, jingle ID, 01.00 "R Globo Noticao"
1230	0530	9.04	LT2	R Dos, Rosario	chimes and ID
1230		10.04	HJLK	R Calidad, Cali	music, ID, OM DJ with ref's to Colombia
1280		11.04		R Tupi, Rio de Janeiro	OM ID
1290	- D. T. C. J.	8.04		R Timbira do Maranhão	1970's UK records, ID and frequency ann's
1380		9.04		R Colo Colo, Santiago	music, talk and ID's
	0459	10.04		R Cristal "RCQ", Quito	Noticias, ID's and formal announcement
	0127	7.04	CP3	R Nacional, La Paz	ID's, adverts, news, formal ID at .32 & .02 mins past the hour
	0020	13.04	CP3	R Nacional, La Paz	ID's, adverts, news
1390	0112		YVZA	R Fé y Alegría, Caracas	ID and announcements (cross-fading with CP3)
	0439	13.04	HCFL2		latin music, ID
	0632	16.04	НВН	Caracol, Santa Marta	talk, ID (cross-fading YVTP)
	0639	16.04	YVTP	R Bahía, Puerto la Cruz	time check with location
	0710	16.04	HJPW	R Ciudad de Barranquilla	OM full ID and music
100000000000000000000000000000000000000	0418	8.04	YVJW	R Latina, Valencia	"Latina - La Musica"
	0428		HJZB	LV de los Robles, Tuluá	ID and latin songs
	0426		н	Ecos de Tomar (??)	ID, freq ann's, t.check announced for Bogotá
	0453	13.04		R Guarapiche, Maturin	latin dance music, lots of slogans "RG 15-70" & "La Radio Participativa"
					The state of the s

## \*\* ASIA \*\*

1323	0008	10.04	Cyprus	BBC World Service	Newsdesk
1350	0200	8.04	Bahrain	VOA	VOA Tuesday Morning
	0030	9.04	Bahrain	VOA	VOA Wednesday Morning
1413	0000	10.04	Oman	BBC World Service	Newsdesk, frequency announcement at s/off at 0030

## \*\* AFRICA \*\*

1367 0300 8.04 Angola R Nacional (Pres) OM talk in Portuguese

## \*\* EUROPE \*\*

540	7.30	13.04	Ireland	R Na Gaeltachta	music, YL talk and news in Gaelic //963 & 828	
702	1638	14.04	Germany	NDR-4 Flensburg	news reports, .55 Int Sig, 17.00 Italian prgm	
792	0110	10.04	Greece	VOA Kavala	VOA Wednesday Morning	
801	0312	15.04	USSR	Leningrad	OM/YL talk, music	
819	1800	14.04	Ireland	KLAS "Class Radio"	continuous pop/Irish/C&W music, test txn ann's	[NEW pirate stn]
828	1700	13.04	Ireland	R Na Gaeltachta	music, YL talk and news in Gaelic //963 & 540	
846	1553	14.04	Ireland	R North	music, ID and R North noticeboard	[actual freq 845.7 kHz]
909	0359	9.04	Azores	Angra do Heroísmo		[muffled audio]
918	0623	8.04	Spain	R Intercontinental		
963	1700	13.04	Ireland	R Na Gaeltachta		[actual freq 962.9 kHz]
981	1552	14.04	Ireland	R Star Country		[actual freq 980.9 kHz]
1116	1625	14.04	Ireland	North Atlantic Radio	adverts, ID for 97.9, 103.8 FM & 1116 MW	[NEW freq ex 1125 kHz]
1242	2227	13.04	USSR	R Kiev	Ukrainian FS programme	
1242	2244	13.04	USSR	Ukraine II multi-tx		
1260	0118	10.04	Greece	VOA Rhodes		
1350	2107	7.04	U.K.	R Merseywayes		
			USSR			
Mr. 2. 2. 2. 2.		0.0000				
			and the following of the con-			
			-			
	702 792 801 819 828 846 909 918 963 981 1116 1242 1242 1260 1350	702 1638 792 0110 801 0312 819 1800 828 1700 846 1553 909 0359 918 0623 963 1700 981 1552 1116 1625 1242 2227 1242 2244 1260 0118 1350 2000 1377 2214	702 1638 14.04 792 0110 10.04 801 0312 15.04 819 1800 14.04 828 1700 13.04 846 1553 14.04 909 0359 9.04 918 0623 8.04 963 1700 13.04 981 1552 14.04 1116 1625 14.04 1242 2227 13.04 1242 2244 13.04 1242 2244 13.04 1350 2030 10.04 1350 2030 10.04 1350 0200 8.04 1377 2214 13.04	702 1638 14,04 Germany 792 0110 10.04 Greece 801 0312 15.04 USSR 819 1800 14,04 Ireland 828 1700 13.04 Ireland 909 0359 9,04 Azores 918 0623 8,04 Spain 963 1700 13,04 Ireland 981 1552 14,04 Ireland 1116 1625 14,04 Ireland 1242 2227 13,04 USSR 1242 2244 13,04 USSR 1242 2244 13,04 USSR 1242 017 7,04 U.K. 1350 2030 10,04 USSR 1377 2214 13,04 USSR	702         1638         14.04         Germany         NDR-4 Flensburg           792         0110         10.04         Greece         VOA Kavala           810         0312         15.04         USSR         Leningrad           819         1800         14.04         Ireland         R Na Gaeltachta           828         1700         13.04         Ireland         R North           909         0359         9.04         Azores         Angra do Herofsmo           918         0623         8.04         Spain         R Intercontinental           981         1552         14.04         Ireland         R Na Gaeltachta           981         1552         14.04         Ireland         R Na Gaeltachta           116         1625         14.04         Ireland         R Star Country           1242         2227         13.04         USSR         Ukraine II multi-tx           1260         0118         10.04         Greece         VOA Rhodes           1350         2030         10.04         USSR         R Riga           1350         2020         8.04         USSR         R Riga           1377         2214         13.04         USSR	702   1638   14.04   Germany   NDR-4 Flensburg   VOA Kavala   VOA Wednesday Morning   VOA Wednesday

1485	1030	10.04	Iceland	NBS Keflavik	easy-listening pop/C&W prgm. [actual freq 1484.87 kHz]
1503	0700	15.04	Azores	AFRTS Lajes	AP Network News, "Lajes Today", sport, Bulletin Board, pop
	0607	16.04	Azores	AFRTS Laies	US DJ and pop, ID
1512	2335	15.04	U.K.	G9CFD Ludlow	test transmission announcements and tone
1566	0650	13.04	Azores	Clube Asas do Atlântico	

#### \*\* ANTENNAS & RECEIVERS \*\*

250 metre un-terminated 060 deg 450 metre terminated 320 deg terminated 305 deg 460 metre 400 me

Martin Hall - NRD 525 (Eskab modified)

Mark Hattam - Drake R7A with RV-75 vfo, Sherwood SE3 sync AM detector, Datong FL3
Steve Whitt - Sony ICF-2001D (modified), Collins R390A with sync AM detector, active antenna tuner, audio filters

Radio Roundup

Pete Kemp (KZ1Z) P. O. Box 73 Bethel, CT 06801-0073

News of the radio industry, of interest to DX'ers

Greetings all ... Howard Stern may be a bad act, but he is crying all the way to the bank. Infinity pays Howard 3 million dollars a year to be a garbage mouth, and in return he brings in \$360,000 a week to WXRK-FM alone!, not counting the revenues to his affiliates. His book, Private Parts, which has been taken from the shelves in a number of stores and chains, is doing well. Howard is expected to garner 3.5 million from this book. In addition, he has a Pay-Per-View Special coming up, at \$39.95 a pop, for the Miss Howard Stern New Year's Eve Pageant. (I wonder what Guy Lombardo would think of that?) Add to this his show on cable tv, and you have got a guy who is banking some heavy bucks for being a slime. Love him or not, he is in the dough ... DJ History buffs, get ready for the release of Wolfman Jack's autobiography, to be entitled Have Mercy: The True Story of Wolfman Jack, the Original Rock and Roll Animal. It will be released by Warner Books in 1994 ... Media Biggie, Westwood One has announced plans to acquire Unistar Radio Networks ... WYRK, in Buffalo, has had its license renewed after the FCC finding that there was no evidence of discrimination at the station ... WKMF, in Flint, MI, has dropped its simulcasting and become news/talk station WFNT ... Allen Weiner, a radio pirate of long standing, is going back on the air, this time on the shortwave bands. He is having a ship retrofited to accommodate four transmitters. Three transmitters will be leased out with the fourth dedicated to Overcome Ministry of South Carolina. The religious based group is footing the bill for the ships overhaul ... WGTZ, in the Dayton, wanted a little more exposure, so morning man Jeff Wicker offered

front row tickets to a Duran Duran Concert to anyone willing to drive to work naked. The local Beaver Creek Police Department wasn't appreciative of this stunt and arrested Marcia Neumeier for public indecency. The station says it will pick up her legal bills, and fines up to \$500, but doesn't know how it would handle a possible 30-day stint in a jail cell. She was released from the police in time to attend the concert ... Famed broadcaster Edward R. Murrow will be honored by the United State Postal Service in January, with a 29-cent stamp in his honor. It will be issued in Miami ... WTLC, in Indianapolis, is switching to a satellite fed Urban Gold format ... KHIH was switched to religious programming. KHOW will stop simulcasting its sister station in favor of independent programming. The veteran morning team of Hal and Charlie will remain on the AM side of their operations ... The famous call letters of WCFL have been sold to the Illinois Bible Institute. The calls currently reside on 104.7, on the FM dial, programming oldies. This was an asset sale through the U.S. District Court. The price? \$750,000 ... While on the subject of calls, WLUP-AM is now WMVP. The MVP calls were purchased from a station in Milwaukee. The "old" WMVP now becomes WMCS, for Milwaukee's Community Station ...

If you would like to contribute to this column, I may be reached at the address above, via AOL PeteKZ1Z, National Video Network PKEMP, CompuServe 72376,2557, Prodigy PFVK52D, the FIDO system in the Shortwave, Ham or Broadcasting echo areas, or amateur radio packet, KZ1Z @ K1UOL.CT ... So much for now.

# The MWT-3 Regenerative Tuner / Controller by Mark Connelly - WA1ION

The MWT-3 provides passive and active preselection, broadband amplification and attenuation, and control of remotely - tuned loops and active whips (RTL-1A, etc.). Its amplifier configuration, using the RFE-D and BUF-A cards, gives it improved dynamic range over earlier regenerative tuners such as MWT-1 and MWT-2. As with other tuners of this type, it is placed in the signal path ahead

of the receiver's RF input.

PASSIVE TUNING is used when local station strengths are very high (as in an urban area). More often, though, ACTIVE TUNING will be the mode of choice: it can offer improvements to both sensitivity and selectivity. Tuning covers 140 kHz through 10 MHz. Many portable receivers and low- to medium-price communications receivers have mediocre selectivity, insufficient for serious foreign-split DXing. By the correct setting of the regeneration on the MWT-3, splits 1 kHz from comparable-strength domestics (e. g. Spain - 999 vs. CKBW / WLUP - 1000) can produce readable audio on most receivers.

BROADBAND AMPLIFICATION is usually used when a band-limited input (e. g. a tuned loop's output) is not adequately above the receiver's noise floor. Broadband amplification of a wideband input source is to be used cautiously. Even if the MWT-3 itself doesn't overload, the receiver may.

The BYPASS function routes the input to the output through the attenuation control when amplification or preselection is

unnecessary.

All of the above functions can be used to condition a variety of signal sources en route to the receiver. Conditioning, depending upon reception requirements, maybe narrowing the received bandwidth, increasing signal level, or reducing signal level. The signal source maybe a longwire, a phasing unit's output, a

passive loop, or an active loop / active whip.

The MWT-3 can be used to enable an active, remotely-tuned antenna to be its signal Such active antennas have the advantages of small physical size for the amount of signal produced and the ability to place the antenna at an optimum location for signal pickup or electrical noise suppression e. g. on a tower, on a vehicle's roof, or a considerable distance out in a field or forest away from power lines. My previous articles on the RTU-1 modified MFJ 1024 Active Whip and the RTL-1 Remotely-Tuned Loop (and upgraded RTL-1A version) go into considerable detail on the value of such mobile "beach miniantennas on DXpeditions" and in motel-room DXing on business and vacation trips. Remotely-tuned active antennas require that the following are passed from the "shack" controller to the remote site: DC power for the remote antenna's amplifier, a control voltage for varactor tuning, and - in most cases - a relay control voltage for switching frequency ranges (or switching between broadband and tuned modes) at the remote antenna. RF from the active antenna must be passed back to the receiving position through 50-ohm coaxial cable.

In the MWT-3, RF is passed in through BNC jack J1 and banana jack J2. DC power (typically +12 VDC) is passed out through these same jacks when S4 is set to the "Power to Active Antenna" position. Varactor and band-relay control voltages are passed out through stereo headphone jack J7. If Input Mode switch S4 is set to "Spare", the control cable to the remote antenna can be used as an antenna itself; this could be useful if its directional properties differ considerably from those of the remote active antenna. S5 controls the relay at the remotely-tuned antenna andR3 controls the varactor tuning voltage.

#### Organization of article

Table 1: Controls and Input / Output Connectors text: Operating the MWT-3 Bypass Passive tuning Active tuning Broadband amplification Control of remotely-tuned antenna systems Building the MWT-3 Table 2: S1 Bandswitch Settings Chart Table 3: hole-drilling list Table 4: "upper level" parts list Table 5: (Al) RFE-D regenerative front-end card parts list Table 6: (A2) BUF-A buffer amplifier card parts list Table 7: (TA1) 1:16 impedance transformer card parts list Table 8: small hardware parts list

Table 9: wiring / component connections

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Table 10: control orientation conventions
Figure 1: MMT-3 schematic (input section)
Figure 2: MWT-3 schematic (output section)
Figure 3: (A1) RFE-D regenerative front-end card schematic
Figure 4: (A1) RFE-D regenerative front-end card assembly
Figure 5: (A2) BUF-A buffer amplifier card schematic
Figure 6: (A2) BUF-A buffer amplifier card assembly
Figure 7: (TA1) 1:16 impedance transformer card assembly
Figure 8: MMT-3 switch details
Figure 9: C1 & vernier knob mounting details
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Table 1: MWT-3 Controls and Input / Output Connectors

location	designation	operational description
left side	S6	Input Select switch
top	C1	Tuning capacitor
top	R1	Input Attenuation pot
top	R2	Regeneration Control pot
top	R3	Remote Tuning pot
top	R4	Regeneration Vernier pot
top	S1	Bandswitch
top	52	Function switch
top	53	Length switch
top	54	Input Mode switch
top	S5	Remote Relay switch (band 1 / 2)

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location	designation	operational description	connector type
left side	J1	Main RF input	BNC jack
left side	J2	Main RF input	banana jack
left side	J3	Earth Ground input	banana jack
left side	J7	Remote Antenna Control	stereo phone ja
left side	J8	Spare Antenna input	banana jack
right side	J4	RF output	BNC jack
right side	J5	B+ in	phono jack
right side	J6	9V battery holder	Revstone 1290

#### Operating the MWT-3 Connections

Before operating any of the four functions, connections to / from the MWT-3 must be made.

J1/J2: The main antenna or signal source should be connected to J1 or J2.

J3: Earth ground can be connected to J3 if the cable to the receiver will be longer than 10'/3 m. or if the receiver is not grounded. Earth ground may be an actual ground connection or a "dummy" ground provided by a longwire on or near the ground.

J5 / J6 / P1: A 9V battery may be used for power if the MWT-3 is not being used with a remotely-tuned active antenna. The battery is to be installed in holder J6 and plug P1 connected to the J5 B+ input RCA jack. If the MWT-3 is being used to operate a remote active antenna, a power source of greater current and voltage capacity is required. A supply capable of 11 VDC minimum, 19 VDC maximum should be connected to J5 in that circumstance.

J4: The RF-output coaxial cable (to the receiver input) should be connected to J4.

J7: If a remotely-tuned active antenna is to

be used, connect its control cable to J7. This cable should be wired so the tip of its stereo headphone plug (mating to J7) is used for the varactor control line (Figure 1: J7-A) and the center section for the relay control line (J7-B). If the control cable's length exceeds 10m / 33', a ground line should be connected to the remaining (base) section of the cable's plug which mates to J7. Note that actual DC power to the active antenna is sent out through the J1 connector also used for RF input.

J8: If J7 is not used, a spare antenna can be connected to J8. When the S6 Input Select switch is set for the Spare (instead of the Main J1/J2) input, this spare antenna is used as the MWT-3 input signal source. When J7 is used, as noted above, the control cable to the active antenna can be used as the spare antenna. Having Main and Spare signal sources available can allow diversity in directional pickup patterns.

#### Procedures

Physical orientations of controls are as described in Table 10.

Controlling a remote active antenna involves S4, S5, and R3 settings. Steps to do this follow the discussion of the four MWT-3 S2-selected functions. Discussions of these four functions assume that the active antenna, if used, has already been set up to deliver signal at the desired frequency.

# BYPASS function (direct feed of antenna to receiver)

Set-up: Set R1 initially to fully CCW (= maximum input: the switch on R1 takes the R1 // R5 attenuator out of the line). Set S2 to "Bypass". Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: With receiver on desired frequency, check that the wanted signal is of sufficient strength and has no spurious mixing signals or images from strong local stations. If spurs /images are present, adjust R1 until they go away. If the wanted station is now too weak, a different operating function is suggested.

#### PASSIVE TUNING function

Set-up: Set R1 initially to fully CCW. Set S1 for operating frequency range desired, in accordance with Table 2. Set S2 to "Passive Tune". Set S3 to "Normal" length position. Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: Adjust C1 for maximum strength of the desired-frequency station. If overloading-caused spurious responses QRM the desired signal when C1 is properly peaked, set S3 to "Long" and re-peak C1. If, after having done that, spurs still exist, adjust R1 to make the spurs go away. Setting S4 to the "Terminated" position may also help (if it had been on "Float"). Slight re-peaking of C1 may then be necessary.

If signal levels resulting from passive tuning are insufficient, Active Tuning will be required.

#### **ACTIVE TUNING function**

Set-up: Set R1 initially to fully CCW = minimum attenuation. Set R2 to fully CW = minimum regeneration. Set R4 (Regen. Vernier) to center. Set S1 for operating frequency range desired, in accordance with Table 2. Set S2 to "Active Tune". Set S3 to "Normal" length position (wire length greater than 10'/3 m.) or to "Short" length position (antenna shorter than 10'). Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: Adjust C1 for maximum strength of the desired-frequency station. If overloading-caused spurious responses QRM the desired signal when C1 is properly peaked, set S3 to the next-longest position (e.g. to "Long" if it had been on "Normal") and re-

peak C1. If, after having done that, spurs still exist, adjust R1 to make the spurs go away. Setting S4 to "Terminated" may also help (if it had been on "Float"). Slight re-peaking of C1 may then be necessary.

To increase gain and to narrow the received bandwidth with regeneration:

Bring R2 gradually CCW in small steps; after each step re-peak C1. An increase in signal level and tuning sharpness should soon be apparent. At the "regeneration threshold" the received audio gets muddy; beyond that threshold, oscillation occurs. When you're at this threshold, use R4 for a more precise adjustment of desired reception.

# BROADBAND AMPLIFICATION function

Set-up: Set R1 initially to CW (maximum attenuation to protect from overload damage). Set S2 to "Broadband". Set S4 to "Float" unless an active antenna is being used - in that case, set S4 to "Power to Active Antenna".

Operate: With receiver on desired frequency, gradually adjust R1 in a counterclockwise direction until the maximum wanted-frequency signals are heard with no interference from spurious overload-caused (intermodulation-distortion) responses. If the maximum achievable (spurfree) level of the wanted signal is insufficient, Active Tuning is suggested.

# CONTROL OF A REMOTE ACTIVE ANTENNA

It is assumed that the RF & DC power connection has been made from the active antenna to MWT-3 J1 and that the control cable (if desired for remote tuning) has been connected to J7.

Set S2 to "Bypass". Set R1 to fully CCW (minimum attenuation). Set S4 to "Power to Active Antenna" and set S6 to "Main" antenna input. If you are running a broadband active antenna (e. g. no control cable to J7), you may now proceed to the steps outlined in one of the four S2-selected modes above.

For remote tuning, set S5 to Band 1 or Band 2: this depends on the desired frequency of reception and the band-switching ranges of your specific remotely-tuned active antenna. Some active antenna designs use the S5-controlled relay to switch between a single tuned range and broadband operation. Adjust R3 to peak up the desired-frequency signal. R3 controls the voltage, biasing the varactor diode in the tank-circuit of the remotely-tuned antenna.

Once the active antenna has been set up correctly to deliver RF to the receiver via the MWT-3 in the Bypass mode, other MWT-3 functions (Passive Tuning, Active Tuning, Broadband Amplification) can be utilized, if desired, to optimize reception. The active antenna's input is then treated like any other

## **Building the MWT-3** Regenerative Tuner / Controller

The documentation (schematics, assembly drawings, parts lists, hole lists, etc.) serves as the starting point. The following procedure should serve as an outline for the builder.

1. Gather all necessary parts (see parts lists to follow). Prepare work area with appropriate tools.

2. Drill out chassis box, in accordance with Table 3.

3. Assemble the A1 (RFE-D) Regenerative Front-End Card subassembly, per Figures 3 & 4 and Table 5.

4. Mount the A1 (RFE-D) circuit card at the hole locations noted in Table 3.

5. Assemble the A2 (BUF-A) Buffer Card subassembly, per Figures 5 & 6 and Table 6.

6. Mount the A2 (BUF-A) circuit card at the hole locations noted in Table 3.

7. Assemble the TA1 1:16 Impedance Transformer Card subassembly, per Figure 7 and Table 7.

8. Mount the TA1 circuit card at the hole locations in Table 3.

9. Install jacks, pots, and switches. Solder inductors onto S1 per Figure 2 and Table 2.

10. Install wiring and other components per Figures 1, 2, 8, 9 and Tables 1-4, 9-10. Install knobs on C1, R1, R2, R3, R4, S1, S2, and S3 per Tables 1-4 and 10. Place labels near controls and jacks.

Table 2: S1 Bandswitch Settings Chart Ranges are usually a bit greater than those shown.

SI	S1 Knob	Min.	Max.			Tap" L]
Pos.	Pointer	Freq.	Freq.		k Inductor	Values
#	"o'clock"	kHz	kHz	L#	uH	Mouser Part #
==	==:==		=====	======	=====,=	==========
1	6:00	140	200	L1	4700	434-1120-473K
. 1				L13	1000	43LR103
2	7:00	200	280	L2	2200	434-1120-223K
[ "				L14	470	43LR474
3	8:00	280	400	L3	1000	43LR103
[ "				L15	220	43LR224
4	9:00	400	600	L4	470	43LR474
" ]			**	L16	100	43LR104
5	10:00	600	900	L5	220	43LR224
[ "			"	L17	47	43LR475
6	11:00	900	1250	L6	100	43LR104
" ]		"	"	L18	22	43LR225
7	12:00	1250	1850	L7	47	43LR475
" ]	"		"	L19	10	43LR105
8	1:00	1850	2600	L8	22	43LR225
" ]			"	L20	4.7	43LR476
9	2:00	2600	3800	L9	10	43LR105
" ]		"		L21	2.2	43LR226
10	3:00	3800	5200	L10	4.7	43LR476
[ "				L22	1	43LR106
11	4:00	5200	7500	L11	2.2	43LR226
"				L23	0.47	43LR477
12	5:00	7500	10000	L12	1	43LR106
"			"	L24	0.22	43LR227

Table 3: MWT-3 hole-drilling list

Hole loci are first marked on the box with a scriber and are then drilled with a .125" bit. Subsequently, as required, the holes are enlarged to the proper size by using progressively larger bits up to that corresponding to the final desired diameter.

X = Horizontal distance, in inches, from the vertical centerline (VCL) on the side observed. Negative values of X are left of VCL, positive values of X are right of VCL.

Y = Vertical distance, in inches, from the bottom horizontal edge of the side observed.

D = Hole diameter in inches.

LEFT SIDE

Hole	Comp. Desig.	Description	x	Y	D
1	J8	Spare Ant. In-red banana jack	-1.75	0.875	0.3125
2	56	Input Source switch - tab	-1.25	2.0	0.125
3	S6	Input Source switch - shaft	-1.0	2.0	0.25
4	J3	GND In - black banana jack	-1.0	1.25	0.312
5	J2	RF Input - red banana jack	-1.0	0.5	0.3125
6	G1	grounding H/W - internal lug	0.0	1.125	0.125
7	J1	Main RF Input - BNC jack	0.0	0.5	0.375
8	J7	Remote Ant. Ctrlstereojack	1.0	0.75	0.375

T O P S I D E Mounting holes on C1 must be tapped to 6-32 thread.

Hole	Comp.	Description	x	Y	D
1	S5	Remote Relay switch - tab	-2.75	4.25	0.125
2	S5	Remote Relay switch - shaft	-2.75	4.0	0.25
3 4	R3	Remote Tuning pot - tab	-3.1875	2.75	0.144
4	R3	Remote Tuning pot - shaft	-2.6875	2.75	0.375
5	R1	Input Atten. pot - tab	-3.125	1.25	0.144
6	R1	Input Atten. pot - shaft	-2.8125	1.25	0.3125
6	(C1)	Vernier Knob - H/W 1	-1.89	3.125	0.125
8	`C1	Tuning Capacitor -Mtg.H/W 1	-1.713	4.0	0.144
9	Cl	Tuning Capacitor - shaft	-1.25	3.75	0.5
10	C1	Tuning Capacitor -Mtg.H/W 2	-0.787	4.0	0.144
11	(C1)	Vernier Knob - H/W 2	-0.61	3.125	0.125
12	G2	grounding H/W - internal lug	-1.5	2.25	0.125
13	R2	Regen. Control pot - shaft	-1.625	1.25	0.3125
14	R2	Regen. Control pot - tab	-1.3125	1.25	0.144
15	TA1	1:16 Imped. Xfmr. card-H/W 1	-0.625	2.25	0.125
16	TA1	1:16 Imped. Xfmr. card-H/W 2	-0.625	1.45	0.125
17	54	Input Mode switch - shaft	-0.6875	0.5625	0.25
18	S4	Input Mode switch - tab	-0.4375	0.5625	0.125
19	53	Length switch - shaft	0.25	4.0	0.25
20	53	Length switch - tab	0.25	3.75	0.125
21	S2	Function switch - shaft	0.5625	1.125	0.375
22	S2	Function switch - tab	0.5625	0.625	0.144
23	G3	grounding H/W - internal lug	2.25	3.75	0.125
24	S1	Bandswitch - shaft	1.75	2.75	0.375
25	SI	Bandswitch - tab	2.25	2.75	0.144
26	R4	Regen. Vernier pot - shaft	2.25	0.75	0.312
27	R4	Regen. Vernier pot - tab	2.5625	0.75	0.144

RIGHT SIDE

Hole #	Comp. Desig.	Description	x	Y	D
1	J6	battery holder - H/W 1	-1.5	2.625	0.125
2	J6	battery holder - H/W 2	-1.5	1.75	0.125
3	A1	Regen. Front-End card -H/W 1	-1.875	1.25	0.125
4	A1	Regen. Front-End card -H/W 2	-1.875	0.45	0.125
5	A1	Regen. Front-End card -H/W 3	-0.875	1.25	0.125
6	A1	Regen. Front-End card -H/W 4	-0.875	0.45	0.125
7	J5	B+ input - phono jack	0.0	1.125	0.25
8	J4	RF out - BNC jack	0.0	0.5	0.375
10	A2	Buffer Amp. card - H/W 1	1.5	2.2	0.125
11	A2	Buffer Amp. card - H/W 2	1.5	0.6	0.125

Table 4: "upper level" parts list NOTE: For bandswitch inductors, see Table 2.

\*: Note follows parts list.

Vendor codes for this and subsequent parts lists:

AE = Antique Electronics /688 W. First St. /Tempe, AZ 85281 /Tel. 1-602-894-9503

```
DK = Digi-Key
                                 /P. O. Box 677
                        /Thief River Falls,MN 56701-0677
                                 /Tel. 1-800-344-4539
                                 / 128 Carnegie Row
/ Norwood, MA 02062
/Tel. 1-617-769-4852, 769-6000
GER = Gerber Electronics
MCL = Mini-Circuits Lab.
                                 / P. O. Box 350166
/ Brooklyn, NY 11235-0003
                                 /Tel. 1-718-934-4500
     = Mouser Electronics
                                 / 11433 Woodside Ave.
                                 / Santee, CA 92071
                                 /Tel. 1-800-346-6873
```

= Radio Shack / Many locations worldwide

Schematic = Figures 1 & 2.

Item	Designator	Description/Value	Vendor	Vendor Stock #	2
1	_	chassis box	MOU	537-TF-782	
2	A1	RFE-D front-end	255	(see Table 5)	1
3	A2	BUF-A buffer card		(see Table 6)	П
4	TA1	1:16 transformer		(see Table 7)	ı
5	(C1)	knob	MOU	45KN100	П
6	*	knob	RS	274-416	1
7	B1	9V alkaline battery	RS	23-553	ı
8	C1	var. cap., 10-365pF	AE	CV-235	1
9	C2	capacitor, 0.001uF	MOU	539-CK05103K	1
10	C3	capacitor, 10 uF	MOU	581-10K35	1
11	C4-9,13	capacitor, 0.33 uF	DK	P4890	1
12	C10	capacitor, 22 pF	MOU	232-1000-022	1
13	C11	capacitor, 30 pF	MOU	232-1000-030	1
14	C12	capacitor, 82 pF	MOU	232-1500-082	ı
15	D1	zener diode, 9.1V	MOU	333-1N4739A	1
16	J1,4	BNC jack	RS	278-105	1
17	J2,8	red banana jack	RS	274-662	1
18	J3	black banana jack	RS	274-662	J,
19	J5	phono jack	RS	274-346	1
20	J6 *	battery holder	MOU	534-1290	-1
21	J7	stereo headphone jk		274-312	-1
22	P1	phono plug	RS	274-339	- 1
23	R1,3	pot.,500 ohm,linear		31CT205	1
24	R2	pot.,5K,linear	MOU	31CT305	- 1
25	R4	pot.,10K,10-Turn	MOU	594-53411103	- 1
26	R5,14	resistor, 200 ohm	MOU	30BJ250-200	
27	R6,7,9	resistor, 330 ohm	RS	271-1315	-
28	R8,10,11	resistor, 100 ohm	RS	271-1311	1
29	R12	resistor, 1 ohm	MOU	295J500-1.0	١
30	R13	resistor, 10 ohm	RS	271-1301	- 1
31	RFC1	inductor, 2.2 mH	MOU	434-05-222J	
32	RFC2,3	inductor, 4.7 mH	MOU	434-1120-473K	- 1
33	S1	switch/2pole/12pos.	MOU	10WR212	- 1
34	S2	switch/6pole/4pos.	MOU	10WR064	-
35	53	swch, SPDT, on/off/on	RS	275-325	- [
36	54	swch, DPDT, on/off/on	RS RS	275-620 275-326	
37	85,6	switch, SPDT, on-on			. !

Misc. items: hook-up wire, buss wire, solder, labels "AS REQUIRED" \* Item 6 note: for S1, S2, R1, R2, R3, R4 \* Item 20 note: Keystone 1290 or equivalent.



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Table 5: (A1) RFE-D Regenerative Front-End card parts list Vendor codes per Table 4. Schematic = Figure 3 / Assembly = Figure 4.

		Description/Value		Vendor Stock #	QTY
====	=====		===		
2	BD	perfboard:1.4"X1.2"		276-1396 (cut)	1
	C1,4	capacitor, 0.001 uF	MOU	539-CK05102K	2
3	C2	capacitor, 0.1 uF	MOU	539-CK05104K	1
4	C3	capacitor, 10uF tant	MOU	581-10K35	1
5	H1-4	screw, 4-40 X .25"	MOU	572-01880	4
6	H1-4	spacer, 4-40 X .5"	MOU	534-1450C	4
7	H1-3	split lockwasher, #4	MOU	572-00649	3
8	H4	solder lug, #4	MOU	534-7311	1
9	P1-9	flea-clip/.042 hole	MOU	574-T42-1/100	9
10	Q1	FET, MPF102	RS	276-2062	1
11	R1	resistor, 10 ohm	RS	271-1301	1
12	R2	resistor, 1K	RS	271-1321	1
13	R3	resistor, 1M	RS	271-1356	1
14	R4	resistor, 47 ohm	RS	271-009	1

Table 6: (A2) BUF-A Buffer Amplifier card parts list Vendor codes per Table 4. Schematic = Figure 5 / Assembly = Figure 6.

		Description/Value	Vendor	Vendor Stock #	QTY
====	=====		===	*************	===
1	BD	perfboard:1.2"X2.0"	RS	276-1396 (cut)	1
2	C1	capacitor, 0.01 uF	MOU	539-CK05103K	1
3	C2	capacitor, 10uF tant	MOU	581-10K35	1
4	C3	capacitor, 0.001 uF	MOU	539-CK05102K	1
5	C4,5	capacitor, 0.1 uF	MOU	539-CK05104K	2
6	H1,2	screw, 4-40 X .25"	MOU	572-01880	2
7	H1,2	spacer, 4-40 X .5"	MOU	534-1450C	2
8	H1,2	solder lug, #4	MOU	534-7311	2
9	P1-7	flea-clip/.042 hole	MOU	574-T42-1/C	7
10	R1,2	resistor, 680K	MOU	271-680K	2
11	R3	resistor, 100 ohm	MOU	271-100	1
12	R4,5	resistor, 4.7 ohm	MOU	295-4.7	2
13	T1	RF transformer 4:1	MCL	T4-6T-X65	1
14	U1	buffer amplifier IC	GER	(National)LH0033CG	1
+ bi	ss wire, so	older - as required	+++++	<del>i i + + + + + + + i + + + + + + + + + +</del>	

Table 7: TA1 1:16 impedance transformer card / parts list Vendor codes per Table 4. Assembly = Figure 7.

====	=====	Description/Value	BEE		===
1	-	perfboard:0.6"X1.2"	RS	276-1396 (cut)	1
2	H1,2	screw, 4-40 X .25"		572-01880	2
3	H1,2	spacer, 4-40 X .5"	MOU	534-1450C	2
4	H1	split lockwasher, #4	MOU	572-00649	1
5	H2	solder lug, #4	MOU	534-7311	1
6	in, out	flea-clip/.042 hole	MOU	574-T42-1/C	2
7	T1	RF transformer, 1:16	MCL	T16-6T-X65	1

Table 8: small hardware parts list, comprised of tables 8A - 8F See Table 4 for vendor codes.

Note: Mounting hardware is supplied with the following components: J1 through J5, J7, J8, R1 through R4, S1 through S6.

		++++++++++++++++++			
Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
====	====	===========	===		===
1				572-01880	4
2	-	split lockwasher,#4	MOU	572-00649	4

\*\*\* Table 8B = A2 mounting hardware (excluding Table 6 items) Item Designator | Description/Value | Vendor | Vendor Stock # QTY ==== ==== -----=== ------=== screw, 4-40 X.25" MOU split lockwasher,#4 MOU 572-01880 1 2 2 572-00649

+++++++++++++++

\*\*\* Table 8C = C1 mounting hardware (see Figure 9) \*\*\*

[ ] designators refer to hole locations from Table 3 Bardware is divided equally for each hole listed with each item.

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
	====	=============	===		===
1	[8],[10]	screw, 6-32 X.4375"	DK	H157	2
2	[8],[10]	split lockwasher, #6	MOU	572-00650	2
3	[7],[11]	screw, 4-40 X.25"	MOU	572-01880	2
4	[7],[11]	spacer, 4-40 X .5"	MOU	534-1450C	2

\*\* Table 8D = hardware for TA1 card mounting (excl. Table 7 items) \*\*

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
====	====	==============	===		===
1	-	screw, 4-40 X.25"	MOU	572-01880	2
2	-	split lockwasher,#4	MOU	572-00649	2
3	-	hex nut, 4-40	MOU	572-00484	2

\*\*\* Table 8E = hardware for battery holder J6 \*\*\*

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
					- 7
1	-	screw, 4-40 X.375"	MOU	572-01881	2
2	-	split lockwasher,#4	MOU	572-00649	2
3	-	hex nut, 4-40	MOU	572-00484	2

\*\*\* Table 8F = grounding hardware \*\*\*

Item	Designator	Description/Value	Vendor	Vendor Stock #	QTY
1	G1,G2,G3	screw, 4-40 X.375"	MOU	572-01881	3
2	G1,G2,G3	solder lug, #4	MOU	534-7311	3
		hex nut, 4-40	MOU	572-00484	3

Table 9: wiring / component connections

#### Notes:

- Wire types: D = direct connection using component's own lead (When assembling, install Wire #1, then the direct connections, then wires #2 through #52.)
  - I = insulated wire, approx. #22 AWG
  - B = bare solid (buss) wire
  - TP = twisted-pair (insulated)
- Lengths specified are the maximum amount typically required; in actual practice, use the shortest length possible to minimize stray coupling.

- 3. Inductors L1 through L24 are wired directly to switch S1 in accordance with Figure 2 and Table 2. The designator "S1 Common" in the following list refers to the the common connection (junction) of the L1 through L24 sides that are not connected to the S1 switch contacts.
- J7-C (Figure 1) is tied to chassis ground via direct mechanical connection.
- 5. GB (Ground Buss) = Wire #1 (bare buss wire from S4B "Terminated" to the ground lug on the TAl card).
- 6. Switch position abbreviations S2 positions: PT = Passive Tune, BP = Bypass, AT = Active Tune, BB = Broadband Amplification. S4 positions: TERM. = Terminated, PAA = Power to Active Antenna.

wire #	From	То	Description
1	S4B 'TERM.'	TA1 GND lug(SeeNote5)	2.5" B =GE
2	J1	J2	1.5" B
3	J2	S6 "Main Ant."	2" I
-	C4 side 1	J8	D
	C4 side 2	S6 "Spare Ant."	D
- - - 4	C5 side 1	J7-A	D
_	C6 side 1	J7-B	D
_	C5 side 2	C6 side 2	D
Α .	S6 "Spare Ant."	C5 side 2	2.5" I
-	RFC2 side 1	J7-A	D D
-	RFC3 side 1	J7-B	D
	R6 side 1	RFC2 side 2	D
	R8 side 1	RFC3 side 2	D
5	R8 side 2	S5 arm	2.5" I
6	R6 side 2	C7 side 1	1" I
	C7 side 2	G2	D
-	R7 side 1	C7 side 1	D
-	R7 side 2	R3 arm	D
7	G1	J3	1.5" B
8	J3	S5 "Band 1"	1.5" I
9	S6 arm	C8 side 1	3.5" I
10	C8 side 1	S4A arm	2.5" I
-	C8 side 2	R1 CCW	D D
11	S5 "Band 2"	R9 side 1	2" I
12	R9 side 1	S4B arm	3" I
12	R9 side 2	R3 CCW	D
_	D1 cathode	R3 CCW	D
	C9 side 1	R3 CCW	D
-		R3 CW	D
5	D1 anode C9 side 2	R3 CW	D
13		G2	1" B
	R3 CW		4" I
14	R1 arm	S2B arm	
17 (810)	R1 arm	R5 side 1	D
15	R1 CW	R1 switch nr. CW pin	0.5" B
	R5 side 2	R1 switch nr. CW pin	2" I
16	R1 switch nr. CCW pin	G2	
17	R2 CW	G2	1" B
18	R2 arm	R4 CW	5" I
19	R4 CW	R4 arm	0.5" B
20	R2 CCW	S1 Common (see Note 3)	4" I
21	C1 stator	S1A arm	2.5" I
22	C1 stator	C10 side 1	1" B
-	C11 side 2	S3 "Normal"	D
-	C10 side 2	S3 arm	D
-	C12 side 2	S3 "Short"	D
-	C10 side 1	C11 side 1	D
-	Cl1 side 1	C12 side 1	D
23	S3 arm	S2B 'AT'	3.5" I
24	S2B 'AT'	S2B 'PT'	1" I
-	RFC1 side 1	S4A 'PAA'	D
-	R11 side 1	RFC1 side 1	D
-	C2 side 2	GB (see Note 5)	D
-	C2 side 1	RFC1 side 2	D
-	RFC1 side 2	R11 side 2	D
25	RFC1 side 2	S2A 'BB'	2" I
26	S2A 'BB'	S2A 'AT'	0.5" B
-	R12 side 2	J5	D
	C3 " + "	R12 side 1	D

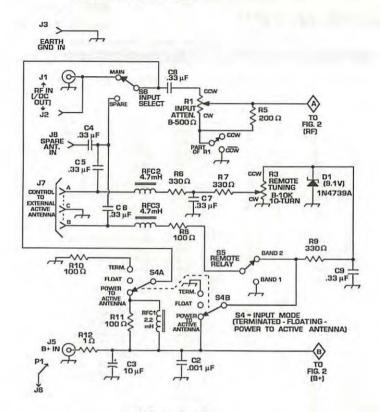
Table 9 (continued)

```
S2A 'AT'
S2A 'BP'
27
                                  R12 side 1
                                            (see Note 5)
                                                             0.5"
28
                                                                  I
       SZA 'BP'
                                  SZA 'PT'
29
                                                                  B
                                                               1"
       S4B 'PAA'
                                  RFC1 side 2
30
                                  S4A 'TERM.
       R10 side 1
                                                                   D
       R10 side 2
                                  GB
                                            (see Note 5)
                                                                   D
                                  S1 Common (see Note 3)
                                                               3"
31
       SZE 'PT'
                                                                   I
                                  S2C 'AT'
                                                             2.5" I
32
       S1A arm
33
       S1B arm
                                  G3
                                                             1.5" B
       R4 CCW
34
                                  S2D 'AT'
                                                             2.5" I
       C13 side 2
                                  J4
                                                                   D
35
       C13 side 1
S2E 'BB'
                                                               4" I
                                  S2E arm
36a
                                  A2-P5
                                                               5" TP
                                                               5"
36b
       GB
                   (See Note 5)
                                  A2-P7
                                                                  TP
       SZE 'BB'
37
                                  SZE 'AT'
                                                             0.5" B
       SZE 'BP'
38
                                                               2" I
                                  S2B arm
       A1-P5
                                                               5" TP
39a
                                  A2-P1
                                                               5" TP
39b
       A1-P6
                                  A2-P2
40
       A1-P3
                                  A2-P3
                                                             3.5" I
       A1-P3
41
                                  S2A arm
                                                               3"
                                                                  I
                                                               3"
42
       A1-P1
                                  S2C arm
                                                                  I
                                                               3" I
43
       A1-P7
                                  S2D arm
44
       S2D 'BB'
                                  S2D 'BP'
                                                             1.5" I
45
                                  S2D 'PT'
                                                             0.5" B
                                                               1" B
46
       S2D 'PT'
                                  S2C 'PT'
       S2C 'PT'
                                                             0.5" B
47
                                  S2C 'BP'
48
       S2C 'PT'
                                  TA1 GND lug
                                                               2"
                                                                  I
                                 TA1-in (= T1 pin 1)
R13 side 1
       R13 side 2
49
       S2B 'BB'
                                                               2"
                                                                  T
       R14 side 1
                                  TA1-out
                                            (= T1 pin 6)
       S2C 'BB'
50
                                  R14 side 2
                                                             2.5"
                                                                  T
      J6 + terminal pin
J6 - terminal pin
51
                                 P1 plug - center pin
P1 plug - shield pin
                                                               2"
                                                                  I
                                                               2" I
      [P1 connects to J5 for battery operation]
```

Table 10: control orientation conventions

Ensure that components are mounted and wired in accordance with this table; align knob pointers to clock positions indicated. Orientations are as viewed from outside the chassis box assembly.

Side	Control	Orientation Conventions
top	CI	CCW = minimum C = 9:00; CW = maximum C = 3:00
top	R1	CCW = maximum level (no attenuation) = 7:00 CW = minimum level (maximum attenuation) = 5:00
top	R2	CCW = maximum regeneration = 7:00 CW = minimum regeneration = 5:00
top	R3	CCW = maximum varactor voltage =max. remote freq. CW = minimum varactor voltage =min. remote freq.
top	R4	CCW = maximum regeneration (vernier) = 7:00 CW = minimum regeneration (vernier) = 5:00
top	S1	[see Table 2]
top	S2	"Passive Tune" = 10:30; "Bypass" = 11:30; "Active Tune" = 12:30; "Broadband Amp." = 1:30
top	S3	"Normal" = up; "Long" = center; "Short" = down
top	S4	"Terminated" = left; "Float" = center; "Power to Active Antenna" = right
top	S5	"Band 2" = up; "Band 1" = down
top	S6	"Spare Antenna" = left; "Main Antenna" = right



To Be Continued ...



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Date	FLUX	A	K	SA ·	GEO	OTHER
9/7	78	10	3	very low	quiet-unsettled	
8	79	6	1	very low	quiet-unsettled	-
9	79	3	2	very low	quiet	_
10	79	4	2	very low	quiet	-
11	79	5	1	very low	quiet	-
12	79	9	4	very low	quiet-active	-
13	80	43	3	very low	unsettled-mas	mis 0400
14	82	23	4	very low	unsettled-mis	_
15	85	18	1	very low	quiet-mis	-
16	88	5	0	low	quiet	-
17	85	3	1	very low	quiet	-
18	85	3	1	very low	quiet-unsettled	-
19	84	2	0	very low	quiet	-
20	80	14	2	very low	quiet-active	-
21	80	7	2	very low	quiet	-
22	79	6	0	very low	quiet	-
23	78	7	1	low	unsettled	-
24	70	15	1	low	unsettled	-
25	96	8	2	low	quiet-active	-
26	106	11	2	low	quiet-active	-
27	104	10	1	moderate	quiet-unsettled	-
28	111	5	1	low	quiet	-
29	116	15	3	low	unsettled-active	-
9/30	121	13	4	low	quiet-active	-
10/1	117	24	1	low	unsettled-mis	-
2	127	6	1	moderate	quiet	-
10/4	125 121	5	0	very low	quiet	-
10/4	124	5	3	low low	quiet	
6	118	10	1	low	quiet-unsettled quiet-unsettled	_
7	117	2	1	low	quiet	-
8	113	14	4	low	quiet-active	
9	110	30	4	moderate	unsettled-mas	mis 0600
10	107	22	3	low	unsettled-active	-
11	103	21	4	low	unsettled-active	_
12	98	14	4	low	quiet-unsettled	
13	95	11	1	very low	quiet	-
14	91	6	1	very low	quiet	-
15	94	2	0	very low	quiet	-
16	91	3	3	low	quiet	-
17	90	5	1	very low	quiet	-
18	87	6	1	very low	quiet	-
19	89	6	1	very low	quiet	4
20	94	3	3	low	quiet	-
21	95	5	3	very low	quiet-unsettled	-
22	92	12	1	very low	quiet-unsettled	-
23	92	11	4	very low	unsettled	-
24	92	6	2	low	quiet	-
25	87	25	2	low	quiet-mas	<del>-</del>
26	89	17	4	low	quiet-mis	7
27	87	34	3	low	unsettled-mis	-
28	88	16	2	low	unsettled	
29	92	8	1	very low	quiet	-
30	91	2	0	low	quiet	-
10/31	91	4	2	low	quiet	-

# Formats Tony Fitzherber 356 Jackman Avenue

# Tony Fitzherbert Fairfield, CT 06430-1728

Changes in programming status; reported by listeners

Welcome to another Formats column. My objective as editor is to publish information as quickly as possible.....thus many smaller columns are being prepared more frequently, thus keeping you up to date on what is going on in the bizarre world of AM radio. And the big reason is that more of you are

contributing to the column! Thank you! A few changes in my back yard....WVIP-FM has been sold, and the WVIP-1300, now without its FM sister, has gone to a talk format, carrying both local talk (news block during AM drive) and Mutual feed. And WSTC-1400, Stamford, CT. has augmented its news and talk format (news block during AM drive) with very old adult standards. Seven miles down the Metro North tracks, WGCH-1490, Greenwich, CT, has dumped Unis CNN Headline News (wise move indeed, in the shadows of WINS and WCBS, both all news) for a full service soft adult contemporary format,

with, you guessed it, news block during AM drive!

John Bowker and Bill Alisandres are our sponsors for this mega dial scan from the Tampa - St. Petersburgh, FL. area. The information came out of local papers and had to be matched to the current NRC Log, because many of the stations listed are licensed to some local settlement, bog, swamp, subdivision,

or trailer park! Here we go with our Tampa - St. Pete DIAL SCAN!

540 WGTO Pine Hills - Sports and oldies. 570 WHNZ Pinellas Park - News days, sports nights with CBS, SEN, CNN. 620 WSUN St. Petersburg - News and talk. St. Petersburg - Spanish programming. - Nostalgia. 720 WRZN Hernando WBDN Brandon - News and talk, Mutual feed. 760 WRFA Largo - Religion. 820 860 WGUL Dunedin - Easy listening, big band. - Sports talk, CBS feed. WFNS Plant City 910 930 WKXY Sarasota - Adult contemporary. - News and talk, ABC and CBS. 970 WFLA Tampa 1010 WQYK Seffner - Talk radio days and Unis CNN Headline News nights. WMTX Pinellas Park 1040 - Adult contemporary and oldies//FM. WTIS Tampa 1110 - Religion. 1150 Temple Terrace WTMP - Urban contemporary, Gospel. Sarasota 1220 WOSA - News and talk. 1230 WONN Lakeland - Oldies, nostalgia. 1240 WINK Fort Meyers - News and talk. WDAE Tampa WQBN Temple Terrace 1250 - Adult contemporary, oldies//FM. WQBN - Spanish, Cuban. - MYL, talk, MUtual and CBS. 1300 WAMR Venice 1320 - Urban contemporary, Gospel, sports. 1340 WTAN Clearwater 1350 WDCF Dade City - Country music. 1350 WCRM Fort Meyers - Religion. 1380 WRBQ Tampa - Urban contemporary. Zephyrhills - Easy listening. 1400 WPAS 1410 WMYR Fort Meyers - Religion. WBRD Palmetto - Sports, news, and talk, ABC feed. 1420 1450 WWJB Brooksville - Country music. 1470 WLVU Dunedin - Greek music and talk. WOKD - Contemporary country music. Arcadia New Port Richey - Greek music and talk. 1500 WPSO Englewood 1530 WENG - Country music and talk. 1550 WAMA Tampa - Spanish programming.

Quite a lot to listen to here in Tampa. Thank you very much, gentlemen for your contributions! And for all of you, get your format changes and dial scans in to your Formats column.

- News, talk, sports.
- Urban contemporary, Gospel, jazz.



Punta Gorda

1590 WRXB St. Petersburg

1580

WCCF

# 68 Graveyard Acbievements

# Bill Hale 495 Creekview Drive Meridian, ID 83642-3241

Distance records for stations logged on graveyard frequencies

#### 1340 kHz

#### Logged from Jan 1, 1960 to Present

# Date of Last Update: December 3, 1993 \* indicates North American record-holder

WKUL	AL.	Cullman	Steve Francis	Alcoa, TN	199
WXOR	,	Florence	Charles Reh	Learnington, ON	572
WMRK		Selma	Joe Kureth		740
WFEB		Sylacauga	Robert Kramer	Uniontown, MD	607
AFRN	AL	Ft. Yukon		Chicago, IL	
			Frank Merrill	Nenana, AK	177
KIKO	AL	Miami	Dave Holten	Spokane, WA	1041
KPGE		Page	Rick Carr	Bloomington, IL	1231
KENT		Prescott	Don Kaskey	Sacramento, CA	562
KBTA	AR	Batesville	Wayne Heinen	Colorado Springs, CO	754
KZNG		Hot Springs	Wayne Heinen	Colorado Springs	718
KBRS		Springdale	Charles Reh	Leamington	737
KATA	CA	Arcata	Richard E. Wood	Hilo, HI	2361
		Tavata	Bruce Reynolds	San Jose, CA	*270
KWXY		Cathedral City	Gene Allen	Vallejo, CA	440
KMAK		Fresno			
KBOS		Fiesho	Richard E. Wood	Hilo	2452
		No. lane	Bruce Reynolds	San Jose	*122
KDOL		Mojave	Gene Allen	Vallejo	311
KTOX		Needles	Bruce Reynolds	San Jose	440
KORV		Oroville	Frank Merrill	Nenana	2052
KATY		San Luis Obispo	Frank Merrill	Nenana	2344
KIST		Santa Barbara	Doug Lamerson	Makapu'u Point, HI	2473
			Mike Hardester	Modesto	*235
			Bruce Reynolds	San Jose	(Tie) *235
KOMY		Watsonville	Doug Lamerson	Kane'ohe, HI	2424
		· · atson · inc	Roy Millar		<b>*738</b>
KDEN	CO	Denver		Bellevue, WA	
KDEN	CO	Deliver	Esa Hänninen	Lemmenjoki, Finland	4537
KOH		C 11	Bruce Reynolds	Warrensburg, MO	*606
KQIL		Grand Junction	Olle Alm	Abisko, Sweden	4535
		2012	Bruce Reynolds	San Jose	*731
KVRH		Salida	John Wilkins	Wheat Ridge, CO	97
			Jeff Tynan	Parker, CO	(Tie) 97
WNHC	CT	New Haven	Niel Wolfish	Toronto, ON	365
WOOK	DC	Washington	Andy Rugg	Montreal, PQ	489
WTAN		Clearwater	Alan Imprescia	New York, NY	1012
WWFL		Clermont	Shawn Axelrod	Orlando, FL	20
WROD		Daytona Beach	Andy Rugg	Montreal	1197
WTYS					
		Marianna	Emie Wesolowski	Omaha, NE	939
WPBR		Palm Beach	Emie Cooper	Provincetown, MA	1202
WFSH	~.	Valparaiso	Steve Francis	Alcoa	393
WGAU	GA	Athens	Russ Edmunds	Parsippany, NJ	691
WIGO		Atlanta	Russ Edmunds	Little Silver, NJ	736
WBBQ		Augusta	Don Lynch	Lynn, MA	861
WGAA		Cedartown	Steve Francis	Alcoa	143
WOKS		Columbus	Charles Reh	Leamington	675
WALH		Mountain City	Steve Francis	Alcoa	66
WTIF		Tifton	Steve Francis	Alcoa	299
KSKI	ID	Hailey	Gene Allen		
KSGR				Vallejo	558
		Nampa	Esa Hänninen	Lemmenjoki	4441
KAIN			Jeff Tynan	Parker	*677
KACH		Preston	Bruce Reynolds	San Jose	627
WSOY		Decatur	Steve Francis	Alcoa	393
WJPF		Herrin	Shawn Axelrod	Winnipeg, MB	950
WJOL		Joliet	Esa Hänninen	Lemmenjoki	4114
			Bruce Reynolds	Warrensburg	*354
WBIW	IN	Bedford	Mike Jeziorski	Detroit, MI	309
WTRC		Elkhart	George Santulli	Cranford, NJ	605
WLBC		Muncie	Carl Dabelstein	Lincoln, NE	599
KROS		Clinton			
		Kansas City	Shawn Axelrod	Winnipeg	676
			Esa Hänninen	Lemmenjoki	4396
KFKF	KS	remisus city			
		Pittsburg	John Wilkins Jeff Falconer	Wheat Ridge Clinton, ON	*559 814

					69
WCMI	KY	Ashland	Joe Fela	Newark, NJ	477
WBGN		Bowling Green	Carl Dabelstein	Omaha	587
WNBS		Murray	George Santulli	Cranford	820
WEKY		Richmond	Chris Lucas	Fairfield, CT	635
KVOB	LA	Bastrop	Bruce Reynolds	Warrensburg	426
KRMD		Shreveport	Frank Wheeler	Erie, PA	1005
WFAU	ME	Augusta	Chris Lucas	Fairfield	280
WDME		Dover-Foxcroft	Don Voorhies	Oswego, NY	381 298
WHOU	NA	Houlton Gardner	Don Lynch	Lynn	51
WNBH	IVIA	New Bedford	Don Lynch Christian DeHaes	Lynn Chicoutimi, PQ	466
WBRK		Pittsfield	Tim Kerfoot	Weston, ON	320
WLEW	MI	Bad Axe	Morris Sorensen	Emsdale, ON	215
WLAV		Grand Rapids	Bruce Conti	West Warwick, RI	763
			Shawn Axelrod	Winnipeg	(Tie) 763
*******			Niel Wolfish	Winnipeg, MB	(Tie) 763
WCSR		Hillsdale	George Santulli	Cranford	575
WMTE		Manistee	Mike Csorbay Russ Edmunds	Canfield, ON	336
WAGN WWPZ		Menominee Petoskey	Shawn Axelrod	Parsippany Winnipeg	743 692
WEXL		Royal Oak	Chris Lucas	Fairfield	525
KQBR	MN	Brainerd	Jerry Starr	Hubbard, OH	760
KDLM		Detroit Lakes	Andy Rugg	Waterloo, ON	775
WEVE		Eveleth	Morris Sorensen	Leaf Rapids, MB	710
KROC		Rochester	Jeff Tynan	Parker, CO	718
KWLM		Willmar	Niel Wolfish	Winnipeg	366
********		1	Shawn Axelrod	Winnipeg	(Tie) 366
KXEO	MO	Mexico Donlar Dluff	Andy Rugg	Montreal	1016
KLID		Poplar Bluff Salem	Charles Reh Bruce Reynolds	Learnington Warrensburg	552 137
KICK		Springfield	Charles Reh	Learnington	660
KCAP	MT	Helena	Frank Merrill	Nenana	1861
KPRK		Livingston	Forest Osborn	Hooker, OK	775
KYLT		Missoula	MB DXPedition &	Arnes, MB	818
KHUB	NE	Fremont	Charles Reh	Leamington	716
KGFW		Kearney	Charles Reh	Learnington	860
KSID	200	Sidney	Shawn Axelrod	Winnipeg	648
KRAM KBET	NV	Las Vegas	Frank Merrill	Nenana	2407
WDCR	NH	Reno Hanover	Roy Millar Rich Eddie	Marysville St. Louis, MO	555 1000
WMID		Atlantic City	Esa Hänninen	Lemmenjoki	3961
			Steve Francis	Alcoa	*574
KNDE	NM	Aztec	Roy Millar	Marysville, WA	1037
KCEM		Farmington	Tim Hall	San Diego, CA	577
KSIL		Silver City	Bruce Reynolds	Warrensburg	913
KKIT		Taos	Robert Wien	San Jose	900
WMBO	NY	Aubum	Esa Hanninen	Lemmenjoki	3786
WENT		Gloversville	Charles Reh William Townshend	Learnington DC	*311 314
WKSN		Jamestown	Andy Rugg	Washington, DC Montreal	360
WUSJ		Lockport	Carl Dabelstein	Lincoln	932
WMSA		Massena	Charles Reh	Leamington	433
WALL		Middletown	Tim Kerfoot	Weston	320
WIRY		Plattsburgh	Esa Hänninen	Lemmenjoki	3653
		~	Charles Reh	Learnington	*401
woow	NC	Greenville	Frank Merrill	Toledo, OH	537
WJRI		Lenoir	Don Lynch	Lynn	723 605
WTSB		Lumberton	Russ Edmunds	Syracuse, NY	
WGNI		Wilmington	Andy Rugg	Montreal	811
WAIR		Winston-Salem	Andy Rugg	Montreal	731
KPOK	ND	Bowman	Wayne Heinen	Colorado Springs	513
KXPO	OH	Grafton Ashland	Rick Carr Steve Francis	Austin, TX Alcoa	1250 359
WNCO	OH	Athens	Charles Reh	Leamington	188
WIZE		Springfield	Shawn Axelrod	Winnipeg	949
WSTV		Steubenville	Joe Kureth	Southern Pines, NC	368
KIHN	OK	Hugo	Charles Reh	Learnington	894
KOCY		Oklahoma City	Niel Wolfish	Winnipeg	1001
KTOW	730.00	Sand Springs	Karl Jeter	Atlanta, GA	675
KLOO	OR	Corvallis	Bruce Reynolds	San Jose	507
KWVR		Enterprise	Esa Hänninen	Lemmenjoki	4325 4354
KIHR		Hood River	Esa Hânninen Bruce Reynolds	Lemmenjoki San Jose	*578
KBBR		North Bend	Richard E. Wood	Hilo	2445
			Bruce Reynolds	San Jose	*438

0						
	WCVI	PA	Connellsville	Andy Rugg	Montreal	480
	WSAJ		Grove City	Frank Merrill	Holland, OH	195
	WKRZ		Oil City	Don Lynch	Lynn	454
	WHAT		Philadelphia	John Buehler	Toledo, OH	470
	WRAW		Reading	John Buehler	Toledo	415
	WTRN		Tyrone	Don Trelford	Scarborough, ON	397
	WKRZ		Wilkes-Barre	Charles Reh	Leamington	349
	WWPA		Williamsport	MB DXPedition &	Ames	1150
	WOKE	SC	Charleston	Bruce Revnolds	Warrensburg	872
	WRHI	50	Rock Hill	Joe Kureth	Uniontown	385
			Sumter	Russ Edmunds	Little Silver	558
	WSSC KIJV	gn		Frank Merrill	Milan, MI	757
		SD	Huron Regid City			4220
	KTOQ		Rapid City	Esa Hänninen	Lemmenjoki	*347
	HTD A C	TTO T	CI 1 1	Jeff Tynan	Parker	487
	WBAC	IN	Cleveland	Mike Jeziorski	Brookfield, IL	
	WKRM		Columbia	Dave Yocis	Fairfield, CT	840
	WGRV		Greeneville	Mike Jeziorski	Brookfield	473
	WKGN		Knoxville	Roy Millar	Marysville	2138
	WLOK		Memphis	George Santulli	Cranford	950
	WCDT	****	Winchester	Charles Reh	Learnington	510
	KWKE	TX	Abilene	Brett Hanavan	Chula Vista, CA	1009
	KHLD		Burnet	Carl Dabelstein	Lincoln	704
	KAND		Corsicana	Frank Wheeler	Erie	1139
	KSET		El Paso	John Wilkins	West Des Moines, IA	974
	KDUB		Lubbock	Roy Millar	Marysville	1439
	KRBA		Lufkin	Carl Dabelstein	Lincoln	665
	KPDN		Pampa	Roy Millar	Marysville	1375
	KOLE		Port Arthur	Alan Imprescia	New York	1396
	KTEO		San Angelo	Wayne Heinen	Colorado Springs	564
	KVIC		Victoria	Carl Dabelstein	Lincoln	830
	KTMP	UT	Heber City	Shawn Axelrod	Winnipeg	911
	KMTI		Manti	Gene Nix	Billings, MT	465
	WVNR	VT	Poultney	Don Voorhies	Oswego	188
	WTWN		St. Johnsbury	Tim Kerfoot	Weston	360
	WKEY	VA	Covington	Shawn Axelrod	Winnipeg	1231
	WHAP		Hopewell	Mike Csorbay	Canfield	416
	WJMA		Orange	Tim Kerfoot	Weston	400
	WBLB		Pulaski	Steve Francis	Alcoa, TN	195
	KAGT	WA	Anacortes	John Campbell	Malnagen, Norway	4042
	KSMK		Kennewick	Don Kaskey	Sacramento	545
	KAPA		Raymond	Tim Hall	Vancouver, BC	180
	KWWW		Wenatchee	Shawn Axelrod	Whistler, BC	200
	WHAR	33/3/	Clarksburg	Don Lynch		533
	WEPM	VVV		Steve Francis	Lynn Alcoa	411
			Martinsburg			1030
	WMON		Montgomery	Rodney Valdron	Petit Rocher, NB	60
	WXEE	17/7	Welch	Jeff Kosnett	Charleston, WV	810
	WLDY	WI	Ladysmith	Joe Kureth	Uniontown	
	WRIT	*****	Milwaukee	Joe Fela	Newark, NJ	724
	KSGT	WY	Jackson Hole	Robert Kramer	Chicago	1177
	KYCN		Wheatland	Gene Allen	Vallejo	952
	KWOR		Worland	Esa Hänninen	Lemmenjoki	4296
				Jeff Tynan	Parker	*370
	WNOZ		Aguadilla	Cesar Objio	Santo Domingo, DR	180
	WSTA		Charlotte Amalie	Tim Hall	Crane Beach, Barbados	499
	CFHC1	AB	Banff	Tim Hall	Lake Louise, AB	30
	CIBQ		Brooks	Niel Wolfish	Winnipeg	604
			STATISTICS AND ADDRESS OF THE PARTY OF THE P	Shawn Axelrod	Winnipeg	(Tie) 604
	CJLW1		Grand Centre	Esa Hänninen	Lemmenjoki	3543
	CBRY	BC	Alert Bay	Roy Millar	Marysville	298
	CHNL2		Ashcroft-Cache Creek	Roy Millar	Marysville	226
	CFKC		Creston	Roy Millar	Marysville	208
	CKGF		Grand Forks	Roy Millar	Marysville	207
	CBUF		Ocean Falls	Roy Millar	Marysville	411
	CKCR		Revelstoke	Roy Millar	Marysville	304
	CIVH		Vanderhoof	Richard E. Wood	Hilo	3025
	CKXX	NF	Corner Brook	Esa Hänninen	Lemmenjoki	3001
	CFGB		Happy Valley	Esa Hänninen	Lemmenjoki	3043
	CFLW		Wabush	Esa Hänninen	Lemmenjoki	2968
	CFYK	NT	Yellowknife	Esa Hänninen	Lemmenjoki	3163
	CJLS		Yarmouth	Esa Hänninen	Lemmenjoki	3494
	CBON		Chapleau	Tim Hall	Near Chapleau, ON	10
	CKNR	311	Elliot Lake	Don Lynch	Chelmsford	613
	CFCH		Hearst	Morris Sorensen	Leaf Rapids	840
	CKARI		Parry Sound	Jeff Falconer	Clinton	141
	CKRE		Red Lake	MB DXPedition &	Valhalla Beach, MB	139
	CKDK		Woodstock	Rodney Valdron	Petit Rocher	795
	CHAD	PO	Amos	Jeff Falconer	Clinton	381
	J.L.ID	. 4	. 4.100	ven i alcoller	Simon	301

282000		4.5				71
CJAN		Asbestos	Charles Reh		Learnington	587
CJAF		Cabano	Andy Rugg		Montreal	253
CHRD		Drummondville	Andy Rugg		Montreal	73
CKMG		Maniwaki	Tim Kerfoot		Weston	240
CJQC		Quebec	Charles Reh		Leamington	646
CBGA7		Ste-Anne-des-Monts	Esa Hänninen		Lemmenioki	3197
CKVT		Temiscaming	MB DXPedition	&	Ames	841
CFSL	SK	Weyburn	Carl Dabelstein		Omaha	695
ZBM2	BER	Hamilton	Olle Alm		Göteborg, Sweden	3886
			Charles Reh		Learnington	*1185
XEAA	BCN	Mexicali	Esa Hänninen		Lemmenjoki	5159
			John Wilkins		Wheat Ridge	*756
XEZE		Santiago Ixcuintla	Tim Hall	20mi	SE of Cabo San Lucas, BCS	277
XENV		Monterrey	Jim Boehm		San Antonio, TX	289
XECW		Los Mochis	Esa Hänninen		Lemmenjoki	5524
XEOS	SON	Ciudad Obregon	Tim Hall		Poway, CA	574
		Matamoros	Jim Boehm		San Antonio	263
R. Uno		Bogota	Cesar Objio		Santo Domingo	998
BEC48	CHN	Matsu	Frank Merrill		Nenana	4627
						1,000

& = Manitoba DXPedition [Shawn Axelrod, Wayne McRae]

## GRAVEYARD DX UPDATE

\* indicates North American record

1230 kHz:									
KCON	AR	Conway	Bruce Reyn	olds	V	Varrenst	ourg, MC		264
KBTM		Jonesboro	Bruce Reyn		V	Varrensl	ourg		264
KSZL	CA	Barstow	Bruce Reyn	olds	S	an Jose	, CA		318
KDAC		Fort Bragg	Bruce Revn		S	an Jose			*179
KLXR		Redding	Bruce Reyn	olds	S	an Jose			223
KWG		Stockton	Bruce Reyn		S	an Jose			*57
WKLK	MN	Cloquet	Bruce Reyn		V	Varrenst	oure		554
KZZR		Burns	Bruce Reyn			an Jose			455
KHSN		Coos Bay	Bruce Reyn			an Jose			434
KQIK		Lakeview	Bruce Reyn		20.7	an Jose			347
WBVP	PA	Beaver Falls	Bruce Reyn			Varrenst			724
KSST		Sulphur Springs	Bruce Reyn			Varrensh			405
KLAV		Las Vegas	Jim Boehm	Olus			onio, TX		1073
						an Anto			367
KLVT		Levelland	Jim Boehm						255
WXCF	VA	Clifton Forge	Russ Edmu	nas	В	lue Bel	I, PA		255
1240 kHz:		- market has					~.		#120
KJOP	CA	Lemoore	Bruce Reyn			an Jose			*138
KSON		San Diego	Bruce Reyn		100	an Jose			*414
KSMA		Santa Maria	Bruce Reyn			an Jose			*182
KIUL		Garden City	Bruce Reyn				ourg, MC	)	*392
KBMY		Billings	Bruce Reyn			arrenst			*895
KODY		North Platte	Bruce Reyn			arrenst			*407
KBEL	OK	Idabel	Bruce Reyn			arrenst			344
KFLY	OR	Corvallis	Bruce Reyn			an Jose			*507
KQEN		Roseburg	Bruce Reyn	olds		an Jose			412
WEKR		Fayetteville	Bruce Reyn	olds		/arrenst			467
KOCA	TX	Kilgore	Bruce Reyn	olds	V	arrenst	ourg		444
WROV	VA	Roanoke	Bruce reyno	lds	N	arrenst	ourg		755
KWIK	ID	Pocatello	John Wilkin	ıs			idge, CC	)	*437
KFOR	NE	Lincoln	John Wilkin	ıs	V	Vheat R	idge		*454
KRAL	WY	Rawlins	John Wilkin	ıs	V	Vheat R	idge		178
WGGA	FL	Gainesville	Charles Reh		L	eaming	ton		537
WFOY	-	St. Augustine	Russ Edmur	nds	P	arsippar	ıv. NJ		*848
WWON	RI	Woonsocket	Russ Edmu	nds		vracuse			*248
CJAF		Cabano	Russ Edmu		7.20	vracuse			*445
CKLS	10	La Sarre	Russ Edmu			arsippa			*599
Totals:		La Saire	1230	1240	1340	1400	1450	1490	Total
-	Lear	mington, ON	64	77	88	68	79	86	462
		Warrensburg, MO	31	32	28	24	26	27	168
		San Jose, CA	13	10	17	10			
Jim Boehm			11	5	8	11	10	12 10	68 55
Steve Franci				43			77007	100.00	04/2/05/3
		eat Ridge, CO	48		41	49	59	66	306
			19	21	19	27	26	28	140
Dave Braun	DOVE	a, DE	3	1	6	4	8	6	34

#### National Radio Club

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DX News is printed by Hall Directory, Inc. 1935 N. W. Topeka Ave. - Topeka, KS

National Radio Club, Inc. DX News P. O. Box 5711 Topeka, KS 66605-0711



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