September 18, Serving DX ers since 1933 1994 (ISSN 0737-1659)

Volume 61, No.

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0015-0045	Dec. 24, 1994	090	HCJB
0130-0200	•	000	KUUU
0000-0030	Nov. 14, 1994	1200	WGNY
0230-0300	Nov. 7, 1994	1490	KYCA
0100-0130	Oct. 31, 1994	1180	KOIL
0400-0430	Oct. 29, 1994	1590	KEAS
0030-0100	Oct. 29, 1994	1320	WGET
0300-0330	Oct. 24,1994	1280	MANM
0200-0230	Oct. 24, 1994	1160	WPIE
0100-0130	•	1150	WCEA
0030-0100	Oct. 17, 1994	960	WPMR
0500-0530	Oct. 10, 1994	1300	ZZZW
0200-0230	Oct. 10, 1994	1620	KA2XAU
0430-0500	Oct. 9, 1994	1600	KBOR
0500-0530	Oct. 3, 1994	1590	KWEY
0100-0130	Oct. 3, 1994	1290	KKAR
•	Test Calendar	CPC	

68102 will conduct a DX test between 1:09 and 1:30 am EDT Monday, October 3. The test will include Morse Code, test tones, voice ID's, and a mixture of polkas and big band music. Reception reports may be sent to Mr. Allen Sherrill, Chief Engineer. Arranged by J. D. Stephens for the IRCA CTC.

KWEY-1590 - P. O. Box 587 - Weatherford, OX 73096 will conduct a DX test between 5:00 and 5:30 am EDT Monday, October 3. The test will include Moreas code voice IIV's and an intersociatied selection. KKAR-1290 -1001 Farnam St. . Omaha,

Ö Ray Bagby, Engineer. Arranged by J. D. Stephens for the IRCA CPC. Morse code, voice ID's, and an unspecified selec-tion of music. Reception reports may be sent to Mr.

October 9 between 4:30 and 5:00 am EDT. The test will be at 1:000 watts, possibly with CIDs. Reports should be sent to Mr. Edgar Centrenino. Arranged by the National Radio Club CPC.

KAZXAU-1620 - P. O. Box 500 - Richland, PA. 3407 will conduct a DX test on Sunday morning, KBOR-1600 - Box 3407, Brownsville, TX 78523

am EDT Monday, October 10. The test from this experimental station will include tones and Morse code ID's. Reception reports may be sent to Mr. Irv. Fidler, Engineer. Arranged by J. D. Stephens for 17087 will conduct a DX test between 2:00 and

> WZZZ-1300-1300 Radio Park, Lakeshore Road Fulton, NY 13069 will conduct a DX test betweeen 5:00 and 5:30 am EDT Monday, October 10. The reports tion reports will be verified with a QSL card for and other easily identifiable music. Correct receptest will include Morse code, voice ID's, and polkas oorts sent to Mr. Peter Hunn, owner. Arranged J. D. Stephens for the IRCA CPC. WPMR-960 - P. O. Box 132 - Mount Pocono, PA

ID's, test tones, and "various audio programs". Reception reports may be sent to Mr. Jeff Woehrle, Chief Engineer. Arranged by J. D. Stephens for the IRCA CIC. 18344-0132 will conduct a DX test between 12:30 and 1:00 am EDT. The test will include Morse code

WGEA-1150 - P.O. Box 339 - Geneva, AL 36340 will conduct a DX test between 1:00 and 1:30 am EDT. The test will include Morse code ID's, test

(continued on page two)

### DX Time Machine

Directors. only club with the discontinuance of the Short XERC with a broken-down brick wall around it and chickens and little kids in the yard ... From the September 23, 1944 DXN: The NRC became a BCB-XEFO where plaster was peeling off the walls and the modern studios of XEQ and XEW to those of 50 years ago ... from the September 9, 1944 DXN: Bill Gabriel, Jr., Lakewood, OH, reported on Brooklyn, NY was elected chairman of the Board of Wave section. In a tie-breaking vote, Ernie Cooper, his visits to stations in Mexico City, ranging from From the pages of DX News:

loop antenna were published in DXN Year" for 1969 ... plans for Nelson's FET alt**azimuth** 25 years ago ... from the August 23, 1969 DXN Gordon Nelson was selected "Man of the

autumo. DXN: Craig Healy logged "RAB" from Rabinal, Guatemala, on 1613 kHz August 5 ... The VOA was planning to put Radio 10 years ago ... from the September 24, 1984 Marti on the air by

14886 will conduct a DX test on Monday morning, October 24 between 2:00 and 2:30 am EDT. The test come at (607) 387-3185. Arranged by the National will be operated at 5000 watts and include CIDs, Radio Club CPC. Loverro, General Manager. Phone calls are wel ones and music. Send reception reports to Mr. Joe

sent to Mr. David J. Miller, Chief Operator. Arranged by J. D. Stephens for the IRCA CPC. WGET-1320 - P.O. Box 280 - Gettysburg, PA big band/swing music. Reception reports may be 54957-0707 will conduct a DX test between 3:00 test will include Morse code ID's, test tones, and and 3:30 am EDT Monday, October 24, 1994. The WNAM-1280 - P. O. Box 707 - Neenah, WI

17325 will conduct a DX test on Saturday morning. October 29 between 12:30 and 1:00 am EDT. The test will be at 500 watts and will consist of CIDs, VIDs, and tones. Send reception reports to Mr. Larry Angle. Arranged by the National Radio Club CPX

will conduct a DX test on Sunday morning. October 30 between 4:00 and 4:30 am EST. The test will by the National Radio Club CPC ports should be sent to Mr. Dan Stagas. Arranged include VIDs and possibly CIDs. Reception re-KEAS-1590 - P.O. Box 590 - Eastland, TX 76448

polkas and big band music at 25 kW. Reception reports may be sent to Mr. Allen Sherrill, Chief KOIL-1180 - 1001 Farnam St. - Omaha, NE 68102 will conduct a DX test between 1:00 and 1:30 engineer. Arranged by J.D. Stephens for the IRCA Morse code, test tones, voice ID's, and a mixture of am EST Monday, October 31. The test will include

and voice ID's. Reception reports may be sent to Mr. Al Hartzell (N7UKQ), Chief Engineer. Arranged by J. D. Stephens for the IRCA CPC WGNY-1200 - P. O. Box 2307 - Newburgh, NY will conduct a DX test between 2:30 and 3:00 am EST. The test will include Morse code, test tones, KYCA-1490 - 600 6th St. - Prescott AZ 8630:

Mr. Shawn C. McGrath, Operations Eng Arranged by J. D. Stephens for the IRCA C KDDD-800 - P. O. Box 555 - Dumas, TX Mr. Shawn C. McGrath, Operations Eng 2:30 am EST. The test will include test tone 2550 will conduct a DX test between 12:0

> EST. The test will include test tones and Morse code IDs Reception reports may be sent to Mr. Granville Murphy (WSCNVD). Arranged by J. D. will conduct a DX test between 1:30 and 2:00 am Stephens for the IRCA CPC

Tiara reports that the Chief Engineer for KSD-550, David Obergoenner, who ran a test last December 5 for IRCA, is now at KZIM-960 - P. O. Box 1610 - Cape Girardea, MQ 63702, and is "cleaning out the scarcity of tests from the NRC and IRCA. Robert test season is suddenly well under way, with no HCJB-690 ... see details in IDXD on page 18. From the publisher ... As you can see, the CPC

drawers" of old QSL requests and also sent Bob a KSD verie upon request to the KZIM address.

The New Hampshire NRC convention was a hoot. Here are the vitals from host Bruce Conti

(more details will follow):

55 attended, from as far away as California and Hawaji

Convention site DX included hearing Norway 1314 and Denmark-1062

Paul Swearingen and Bill Hale were honored for John Sampson, Bob Lavigne, and Frank Merrill were the DX Audio Service quiz winners. It looks like Denver, Colorado will be the site of Mark Connelly was the door prize winner of a Superadio III, Ernie Cooper got the highest score on the NRC Quiz, followed by Scott Fybush. memorating the New Hampshire convention the 1995 convention their dedication to the club, with plaques com-

well-deserved rest! Thanks for a great job, Bruce. Now, get some

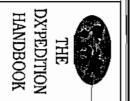
tain, GA. Joliet, IL; Stephen M. Byan, Littleton, MA (rejoins), Russ Horton, Mississagua, Ontario; Scott Magyar, West Mifflin, PA; Ms. Kathryn Hay, Stone Moun-(rejoins); Mark Whittington, Austin, TX (rejoins); David R. Ball, Mississauga, Ontario; Brent A. Berry, Kansas City, MO; Lynn Gillis, Jacksonville, FL (rejoins); Raymond Bauernhuber, Rosedale, NY Flosi, Rio De Janeiro, Brazil; Kenneth L. Welcome to these new members ... Felipe L. G. Diehl,

## DXV Publishing Schedule, Volume 62

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# Deadline Pub. Date 8. Nov. 11 Nov. 21 1. Sept. 23 Oct. 3 9. Nov. 18 Nov. 28 2. Sept. 31 Oct. 10 10. Nov. 25 Dec. 5 3. Oct. 7 Oct. 17 11. Dec. 2 Dec. 19 4. Oct. 14 Oct. 24 12. Dec. 9 Dec. 19 5. Oct. 21 Oct. 31 13. Dec. 16 Dec. 26 6. Oct. 28 Nov. 7 14. Dec. 30 Jan. 9 7. Nov. 4 Nov. 14 15. Jan. 6 Jan. 16	
Pub. Date Oct. 33 Oct. 17 Oct. 24 Oct. 24 Oct. 31 Nov. 7 Nov. 14	Section 5
5,43,51,59,8	
Nov. 11 Nov. 18 Nov. 25 Dec. 2 Dec. 9 Dec. 16 Dec. 30 Jan. 6	,
Nov. 21 Nov. 28 Dec. 5 Dec. 12 Dec. 19 Dec. 26 Jan. 9 Jan. 16	4

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850 960



## The DX'Pedition Handbook

\$12.95 to non-members. Order from NRC Publications - Box 164 - Mannsville, NY DX'pedition. \$8.95 to NRC members, is simply all you need to plan your next 13661. NY orders, please add sales tax

## M Switch

4040 Simon Road c/o WHOT Radio Jerry Starr

Youngstown, OH 44512-1320

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

1510	1410	1060	980	760	680	APPLIC	APPLIC None	* KBC	1040	850		590		CALL
KMND TX	MOHT	WRHL	KICA	WKNL	WISR	ATIONS	ATIONS	) had thei	1040 WCXQ PR Moca	WHDH	WRUS K	WEEI MA Boston	Old call:	ETTERC
Τχ	SM	IL	M	Z	PΑ	APPLICATIONS FROM EXISTING FACILITIES	APPLICATIONS/GRANTS FOR NEW STATIONS None	* KBCO had their change to KBLD set aside and will remain KBCO	R Moca	WHDH MA Boston	WRUS KY Russellville	Boston		CALL LETTER CHANGES
alterna of toda Midlan	Clevela	Rochell	Clovis:	Knoxvi	Butler:	XISTING	S FOR N	to KBLD		2	ville			
tes betwe y they see d: power	ind: redu	e; add 20	reduce n	lle: reduc	add 23 w	FACILI	EW STAI	set aside a	WZNA	WEEI	WBVR	WBNW	New call:	
alternates between showingth of today they seem to be favorin Midland: power to 2400 watts	ice night	watts nig	ight powe	Knoxville: reduce power to 2400 watts	Butler: add 23 watts nights, antenna to U1	SH	SNOL	and will re	143	138	1200	1190		
ngthis state	power	hts, anter	er to 110 v	to 2400 w	s, antenn			emain KB	30 WMR	30 WHR	)0 KBQ	0 KBLD	Old call:	
alternates between showingthis station in Cleveland or Boyle, MS. As of today they seem to be favoring Cleveland???) Midland: power to 2400 watts	Cleveland: reduce night power to 23 watts, antenna to U5 (FCC	Rochelle: add 20 watts nights, antenna to U3	Clovis: reduce night power to 110 watts, antenna to U1	atts	a to U1			Ö	1430 WMRV NY Endicott	1380 WHRS KY Winchester	KBOQ CA Soquel	KBLD CO Boulder	11:	
leveland ???)	tts, anter		nna to U						licott	chester	el	ier		
ar Boyle,	ma to U		_										ľ>	
MS. As	5 (FCC								WENE	MLNI	ΚÔ	KBCO;	New call:	

2	Ridgefield: modified CP for 2500 watts in on	Ω	WREF	850
will relinquish AM lıcense	North Bay: requests move to 100.5 FM and will relinquish AM license	9 2	CHUR	840
	with low power			
quite possibly site testing	IDs only, no regular programming heard, quite possibly site testing			
AIR, first noted 7-27 with	Worcester: new station is testing ON THE AIR, first noted 7-27 with	MA	WCRN	830
	East Lansing: CP for 500/50 U4 is on	ĭ	WVFN	730
	Vail: station is SILENT (again)	8	KSKE	610
Box 625, Niles, Chiq 44446	Russell Springs: station is SILENT	Ş	WIDS	570
THE VOLLEGE OWN			NESS	DIHERNESS
1340 AM Apdio				
	Boylestown: changes in antenna system	PA	WBUX	1570
	Albuquerque: relocate transmitter site	X	KRZY	1450
)	Spokane: relocate transmitter site	WA	KJRB	790
ate transmitter site	Greensburg: night power to 350 watts, relocate transmitter site	PΑ	WHJB PA	620
	GRANTS TO EXISTING FACILITIES	STING	S TO EXI	GRANI

						-
	MΑ	Q	9 2			1444
Tonother all within a few miles this station all report it is still SII ENT	Fitchburg: previously reported to be back on the air, three of our	Ridgefield: modified CP for 2500 watts in on	North Bay: requests move to 100.5 FM and will relinquish AM license	with low power	IDs only, no regular programming heard, quite possibly site testing	therefore the secretary to receive the rest of the secretary and t

CJLB ON	CHMG AB	WCEN	WBNM GA	WIBQ	KRPX				WBGS WV		WFGL MA
ON ON	AΒ	K	GA	Z	H				Ş		MA
CFMG) Thunder Bay: requests move to 105.3 FM and will relinquish AM	St Albert: move to 104.9 scheduled for 9-1-94 at which time the AM facility will be DELETED (format remains the same but FM call will be	Mount Pleasant: silent station is ON THE AIR	Gordon: station is SILENT	Warwick: silent station is ON THE AIR	Price: silent station is ON THE AIR	immediate vicinity who could confirm this?	Pleasant and could detect no signal. Do we have a member in that	again 8-28 your editor was in Ripley, WV, about 20 miles from Point	Point Pleasant: reported in MSJ as being ON THE AIR but on 8-26 and	reporters all within a few miles this station all report it is still SILENT	Fitchburg: previously reported to be back on the air, three of our

1080 1110 1120 1150 1200

1250 1250

WKBR

FORES

Manchester: silent station is ON THE AIR Blakely: silent station is ON THE AIR

Jacksonville: silent station is ON THE AIR

McComb: station is SILENT

ANHW

1230

1260 1280

WBBK

¥				
	1330	KMRR	ΑZ	South Tucson: station is SILENT
Ļ	1350	CHVR	Q.	Pembroke: requests move to 96.7 FM and will relinquish their AM
				license and the licenses of CHVR-1 Renfrew and CHVR-2 Arnprior,
				both I400 kHz
_	1370	CKOD	ō	Valleyfield: has moved to 102.9 and cancelled AM license, station is
				SILENT and will not return
_	1380	KMUS	OK K	Muskogee: station is SILENT
_	1440	WPGW IN	Z	Portland: CP for 500/45 is on
_		CKDX ON	8	Newmarket: has moved to 88.5 FM and cancelled AM license, station
				is SILENT and will not return
_	1490	WZOR	E	Immokalee: station is SILENT
		WATB	VA	Waynesboro: silent station is ON THF AIR
_	1500		MS	Sardis: station is SILENT

WEATHERADIO: See Otherness 1580 in Issuc 26; we have unearthed several other Weatheradio on 1260 kHz with undetermined power. All these stations are NSP. operations in addition to the ones already listed, in Pacific Rim Park and Swartz Bay, BC, both

repairs are about 10 times the value of this property, a recent sale Ocean City: station is SILENT, unconfirmed inside info is that needed

attempt found no takers and it is "not likely to return".

1580 1590 1590 1590

WKYZ

Gray: station is SILENT

Springdale: silent station is ON THE AIR Chattahoochee: CP for 10000 watts is on

14 级 24 图

KQXK WICL

THANKS: Dave Schmidt, Andy Rugg, Ed Krejny, Shawn Axelrod, Brian Vernon, Marc DeLorenzo, Wayne Heinen, Lynn Gillis, Morris Sorensen, Stan Morss, Bob Yates, Dick Tafone and MSJ.

73 and Good DX, Juny / BKF

Jerry Starr & Buffalo K. Foonman

# SONY SRF-42 AM Stereo Walkman Review ... by Frank Aden, Jr.

stereo (C-QUAM) radio currently available to the public. The Sony SRF 42 is a recently-issued (December 93) Stereo radio that, I believe, is the only

a glorified catalog, and it does list this radio. mistake. Sony has a new magazine (around \$5.00, found in most larger book stores) which is just suspect this radio is going to be a marketing failure if Sony does not make it easier to find. It is apparent they are limiting the number of locations where it can be bought, which I feel is a major North America before I was able to confirm the radio did exist and where I could obtain one. When I first heard that such a radio was on the market, I called over 20 different Sony offices in

quoted me a price of only \$29.00, but charged me only \$26.00. List price is \$34.95. Portland OR 97209, Phone # 503-224-9400. They will take credit card orders via the phone. They I found the radio available at the NW SONY ONLY STORE in Portland OR at 1610 NW Glisan,

a walkman radio. With careful tuning, I can pick out many of the AM Stereo stations heard in this almost as good as listening to FM. When tuned to distant AM stereo stations, the usual area. Sound quality is quite good. Listening to KBOI-670 with their 40% stereo separation sounds Band coverage is 530-1710 kHz plus 87.6-108 MHz FM. The SRF-42 uses a small ferrite loopstick AM antenna, typical of most walkman type radios. Selectivity and sensitivity is about average for "platforming" distortion can be noticed, especially when moving the antenna (radio) around. The radio is small, slightly larger than the Sony SRF-39, measuring about 4.5" by 2.75" by .5"

puts out a moderate level of audio. The only complaint I have with this radio is when the volume control is set at minimum, it still

for FM and 40 hours for AM. The SRF-42 runs off 2 AA batteries. It has no external port jack. Battery life is listed as 48 hours

compared to that of the Sony stereo radio which was available several years ago. I have already exceeded that with my first set of batteries, so it does not appear to be a problem

pleasant surprise if a strong AM stereo signal is available. around with, looking for AM Stereo signals. Also, hooking the SRF-42 to a stereo system can be a Hooking up an outboard loop antenna (via the headphone jack) makes the radio fun to tune

not a "DX" machine, but it can provide for some interesting AM Stereo DXing For its price, the Sony SRF-42 is a bargam if you want an AM Stereo radio. As expected, this is

## Domestic DX Digest

495 Creekview Drive - Meridian, ID 83642-3241 West: Bill Hale MTFH12A@Prodigy.com

(Division line is

East: Dave Braun 73520,657@compuserve.com between East and \_\_\_\_\_\_ z



11 Mill Bend Acres · Wyoming, DE 19934-9523 DX Catches in the U. S. and Canada, with 24-br. FLT 

## MEDIUM WAVE RAMBLINGS

- ☐ Greetings from Idaho. Famous for potatoes and forest fires. P-Yew! But the smoke jumpers are owes his wife a new quilt and a vacation due to the length of the calls. Also thanks to him for the phone calls. We really had a couple of nice chats (him chatting, me listening, hi). Ned doing a whale of a job. My first order of business is to thank Houston member Ned Duval for his computer plots, and disks.
- My second order of business is to apologize for missing the deadline for last issue's column month deadlines will do. Anyway, the column for Issues 29 and 30 are combined here. had one more week. So, after 230+ on time columns . . . I screwed up. That's what once-per-As family crises and other business were taking time the weekend of July 2, I kept thinking
- ☐ Have located a Radio Shack TM-152 in a pawn shop. Anybody know what it may be worth? I'm tempted to take a chance on it, but don't want to pay too much. Help! (Try \$20.00 -pls.)
- ☐ If you haven't already heard, "... as of July 1, American Public Radio is officially Public Radio PRI is in the business of importing and exporting radio programs — they distribute the BBC World Service to U.S. public radio stations, and have other deals pending." [This blurb from a National Public Radio, and 2) to more accurately reflect our activities. What #2 means is that Fido-Net post, and later confirmed here - Ed.] International. The change of name was done for two reasons: 1) to reduce the confusion with
- Graveyard updates from Wayne Heinen, Roy Millar, Jack Woods, J.W. Bay, Don Trelford, Ron that Roy claims have only been on the books a month or so. But that's how we keep the records 600 miles on a Graveyard record from Issue 28. But his sharp eye, and my re-calc has righted that ship. And one of Ron's, which has been on the books since ???, has been re-computed with guy." Yup. And your name could be in our Hall of Fame, if only you'd submit the claim. I up-to-date. Someone always says "Hey! I heard that station, and I'm further away than that Bailey, Morris Sorensen and Mark Hattam grace the column this time. A couple of the records results at the end of the column. And "Thanks" to Mark for the British TV Guide. figure the mileages. Due to a mis-calculation on my part, I shorted Jack Woods out of about
- Speaking of the Graveyard records . . . effective as soon as I can clean them up, Graveyard your logs in order, and be prepared to submit your GY loggings for a possible new record. LOT of stations will "open up" for new record-holders. That means YOU members. So, get records from non-members will be purged! I haven't looked at them that closely, but suspect a
- signal patterns. As a result, FCC inspectors have been randomly inspecting these stations to encourage compliance. The Dallas Office sent an inspector to Denuson, Texas to check an Here's an interesting piece taken from the August 1st edition of the W5YI Report "Recent field surveys have indicated that many AM directional stations are not properly maintaining their to lay off the station's employees. A violation notice is being prepared and further action will be coordinated with the Mass Media Bureau." This must be KDSX-950/KDSQ-101.7. Frankly, unattended. The station did not change to its nighttime pattern, had no DJ, and no one was AM/FM station and was surprised to find that the station was operating completely inspectors tracked down the station manager who explained that times were hard and he had periodically by an employee, but the station had no telephone or apparent contact point. FCC watching the EBS receiver. Pre-recorded programming and commercials were brought in I wish more inspectors would get out to check some of these violators. I can't wait to see the
- And a "thank you" is also in order to Shawn Axelrod for sending several great logos for scanning. They are now in the stable. Shawn sez: "Well, the DX still keeps coming in, with a new TIS from North Dakota and 1ZD from New Zealand on 1008. That Quantum Loop is one great antenna." Another unsolicited testimonial, hi. He got a new computer. And is stil

eagerly awaiting the upcoming season. Me, too!

Deadlines for DDXD-W for the beginning of Volume 62 are as follows: Saturday's mail! Yup. the County Book, the Sunrise/Sunset Maps, a new road atlas, plus other DXing tools, so is from you this upcoming season, Brian! And from South Texas, Jim utters that he's got the Log two new ones & WLOW (new for Wayne), so he got three. Brian Vernon passes on some info DX site at Valhalla, but rain drove us back to Wayne McRae's trailer at Arnes. Managed to get looking for the "return" key, hi. After emptying his waders, retorts ... "Went out to work on the about the WeatherRadio station(s) in British Columbia. Thanks, and I hope to hear some DX

Since we jump right into a weekly schedule, have your loggings, tips and Graveyard updates here by Saturday. E-Mail is picked up as late as Sunday mornings for final column preparation. Anyway, we want to hear from you! Especially NEW members

#### REPORTERS

TR-IL with built in antenna Thomas Reiser 9506 South Winchester Apt. 205 Chicago 60643-1109 Sony ICF- 2003

JB-TX Thomas Reiser DXing at Manteno, IL Sony ICF-2003 with built in antenna im Boehm San Antonio IC-71A + galvanized downspout antenna

BK-CA Bob Karchevski Sunnyvale Radio Shack TRF barefoot

FA-ID Frank Aden Boise

JW-OR TS-IL DS-xx Doug Smith lack Woods Waldport ICF-2010 + Martens Loop Nashville, TN (on vacation) or TN just listenin or scanning the BBSs

TS-IA1 Tom Sanders (Davison, MI) vac in Cedar Rapids JVC Caradio Fom Sanders (Davison, MI) vac across Illinois JVC Caradio

IS-IA2 Tom Sanders (Davison, MI) vac in Des Moines JVC Caradio

MBDXF Shawn Axelrod & Wayne McRae Winnipeg Arnes, MB ICOM R-70 w/PLAM board + Quantum Loop

Shawn Axelrod Winnipeg ICOM R-70 w/PLAM board & filter mods + 100 lw / 4 box loop/Quantum Loop

SA-MB2 Old Reliable Swan River ICOM R-70 w/PLAM board & filter mods + Quantum g

SA/LG-NDShawn Axelrod & Les Geir [or is that "less gear"?, hi- Ed.] Mountain Drake R-8 + West + East wires

RD-IA RD-KS Rick Dau on the outskirts of Topeka, KS Ford car rx Rick Dau Iowa City Ford car rx (1033 heard here)

BV-AB RM-WA Roy Millar Marysville ICF-2010 + Quantum Loop

EXZ Maple Grove GE SupeRadio III Brian Vernon Edmonton

JE-IA Ed-ID Editor Meridian \*= newswire services Storm Lake GE SupeRadio III

#### SPECIAL

640 680 GOB ZSIW MI Zeeland - Heard with "Radio Aahs" children's programming. (DS-vac)
MB Winnipeg - 7/17 0530 - Excellent signal. Now runs the WIN Network talk
program nights. (MBDXP)
WI Superior - As of 7/28, has not changed format as reported by M-Street Journal.

710 WDSM (JE-MN) [For you M-Street readers, hi - Ed.]

790 770 VSQW KOOM MN Minneapolis - Using slogan "770 Radio K" (legal IDs on the hour), running IN Nashville - My nearest local, has returned to the air. Format sounds like college/alternative rock. (DS-vac)

950 Ş WA Seattle - Has been purchased by New Century Media, a Seattle-based limited partnership, along with KJR-FM and KUBE-FM, for a total of about \$30 million. [Ed.-ID\*] southern gospel/bluegrass. (DS-TN)

980 KEGE MN Richfield - 7/16 2300 - Good with The Edge 93.7 IDs, rock music. Ex: KRXK. and still on the air. (MBDXP)

1060 XUXQ AZ Phoenix - as of 8/17 - Has returned to alternative format from talk, and may

be mostly automated. (DS-via CIS message)

 KPAY-AM is back on the air. "Their Nautel 10 kw transmitter arrived on 7/30, and they signed on the air the next morning at 6 am. The Nautel lasted about 15 facility estimated at \$3 million. Supposed to be back on in 3-4 days. (FA-ID) CA Chico - Reportedly "burnt to the ground" morning of 7/11. Loss of entire They made it back on the air Friday morning. Saturday afternoon, the



were (seemed) much stronger. And my informant says the fire was in their studios signal was so poor they were only readable about 5% of the time as they breached Heard them Thursday night (7/28) for sure and maybe the night before. with the temporary 'portable' building that houses the transmitter." (via DS-TN engineer was out shopping for an air conditioner. Apparently none was provided from which they had planned to from move in a few months anyway, so the fire the KOFY-1050 slopover. May be on low power since I remember last year they

1160 KENS TX San Antonio - Went all-news 7/11, replacing its music format with affiliation merely sped up their schedule. (BK-CA) with the Associated Press All-News Network, plus relays of Channel

1200 CHMG AB St. Albert - As of 8/29 is // with new FM on 104.9. Add 90 days to that date Eyeuritness News. This makes five SA news (/talk) outlets. (JB-TX)

CA Los Angeles - 8/29 - Switched to gospel music format. (DS-TN) and CHMG will be off the air. (Ed.-ID")

1330 KNOW 1230 KGFJ MN Minneapolis - Now carries AP's All News Radio (ANR) with local inserts and many promos for FM 91.1. Still non-commercial, but no longer // FM. (JE-

1340 KTIK ID Nampa - Now all-sports, and these CLs, effective 7/18. Carries The Team carrying the San Francisco 49ers this fall. Bought by Diamond Sports (owner of the Hawks' Northwest League games. Have heard them announce they will be network from WTEM Washington 24-hours, except when broadcasting the Boise Hawks). [Ed.-ID]

1450 KIOV guy since they returned to the air about 3 months ago. Turned up with a Caldwell ID Caldwell? - Now IDing as a Caldwell station. Have been trying to locate this address and phone number. Full details to the Log administrators. [Ed.-ID]

1460 WBJX WI Racine - Heard (on Sunday afternoon, so this may not be the regular format with a program in Spanish, not // to 100.7. (DS-vac)

1470 KKSC IA Sioux City - Ex: KWSL. Another format change; now they're Talk. Many mentions of Siouxland. (JE-IA)

ND Mayville - Station has been off the air since 8/12-13, when a storm tore the roof off the station. (SA/LG-ND)

1550 KPIX On 7/7, the 10 PM news hour was simply audio from KPIX Five, with their own which is the only reference to the AM operation I've heard. But they frequently give CA San Francisco - At the top of the hour: This is KPIX and KPIX-FM San Francisco. commercials or music during TV ads. A promo said that on weekends they play are made to KPIX Five which is the television station, Channel 5, in San Francisco their popular ID: 95.7 The Express or 95.7 FM Radio, The Express. Some references The Flavor of Jazz, so they apparently are not "all news". (BK-CA)

### UNIDs and UNIDs IDed

810 UNID - 7/23 0610 - Very poor, possibly religious, but very light or EZL music.
 Under KCMO/CJSS. (SA-MB2)

1030 UNID MB1) [Maybe KTWO? - Ed.] -8/1 0615 - Poor, with TalkNet program. Faded out leaving KMAS. (SA-

### (IS & OTHER STUFF

SIL Dam. Site tours + campground info. Maybe new. Les says it appeared around June. Often overrides West Fargo TIS. (SA-LG-ND) ND Riverdale - 8/16 0330 · Info on Lake Sakakawea, Audubon Lake and Garrison

530

SIL ND Riverdale - 8/20 0630 - Very poor in brief fade-up, with info on Garrison Power House. New. (SA-MB2) [You Power 'n' Light guys will listen to anything

1580 WxRadio BC Revelstoke · 7/26 0647 - Nice ID as This is Weather Radio Revelstoke, 1580 on your AM dial, a service of Environment Canada. Was in and out most of 0545-0800 period. In null of KCWW. (RM-WA)

WxRadio and in the Victoria-Vancouver area uses 162.400 MHz. (BV-AB) Shuswap, both British Columbia. Weatheradio in Vernon, BC is on 162.475 MHL March, 1994 using 60 watts. I picked it up one night last week using just a cheap portable, so it's still on the air. Other stations are on 1260 kHz at Swartz Bay and BC Revelstoke - [letter dated 7/23] Station went on the air, I believe, in

#### HARMONICS

1160 WIBW KS Topeka - 7/17 2104 - First harmonic with KC Royals baseball; until I did my math (thanks to Todd!), I thought I was getting bleedover from KSAL! (RD-KS) [1 hate the sound of blood - Ed.

<u>MIDNIGHT TO 0800 HOURS ELT</u>

530 CIAO ON Brampton - 8/10 0200 - SS programming; top of hour ID was a gong followed by Ciao Radio 530. With locals WPBX286 and WPAL278. (JE-MN) [Better these guys on 530 quick, as the rumor mill has it that they're moving to either FM or another AM frequency - Ed.1

630 540 WYLO KHOW WI Jackson - 8/31 0647 - Dominant with CCM, ID Today's Christian Radio WYLO (JE-MN)

CO Denver - 7/23 0600 - Fair, with KHOW Denver. Over/under CKRC. (SA-M82) Talk Radio 630 ID.

KY Lexington - 7/18 0148 · Very poor with ad for Individual Investor magazine (TR-IL)

790 640 IOM CIGM Ames - 7/18 0150 - Poor, with analysis of financial markets. (TR-IL)

800 CKLW ON Windsor - 6/29 0000-0100 - Fair, in-and-out but not as strong as CIGM with postgame shows. (TS-IA2) ON Sudbury - 6/29 0000-0045 - Fair, in and out but listenable, with Blue Javs

810 KGO CKJS/KCMO. New! (SA-MB2) CA San Francisco - 7/23 0610 - Poor, with talk and news, KGO ID. Under an unID SS underneath, with Blue lays postgame shows. (TS-IA2)

920 KXLY WGY WA Seattle - 7/23 0630 - Good, with local news and weather. Over/under CFRY NY Schnectady - 7/18 0151 - Tair, with Dr. Jov Brown call-in show. (TR-IL)

930 KSEI ID Pocalello - 9/14 0658 - With WKY and WTAD. Promo after Talknet with AM

1010 CFRB ON Toronto - 7/18 0153 - Fair, with talk about statements on Jesus in the Koran 930 KSEL (JE-MN)

1040 CKST music, AM 1040 IDs, local ads. Over WI-IO. (SA-MB2) BC Vancouver - 8/20 0010 - Good, with NOS/AS [did you mean "AC"? - Ed.]

1240 1060 WX.X KXLE Washington's news source has been KXLE, Ellensburg, into news. First-timer. (JW. WA Ellensburg - 7/24 0500 - Fair, with stogan For almost half-a-century, Central PA Philadelphia - 6/29 0000-0030 - Weak, but alone, with all-news. (TS-IA2)

1360 WWOW OH Conneaut - 1/16 2310 - Poor, with WWOW ID, under KKBJ. C&W music New! (MBDXP)

1450 1400 KONP KQMS WA Port Angeles - 7/23 0607 -Fair-to-poor, with ID KONP Port Angeles, your CA Redding - 7/3 0800 - Good, with ID and slogan News Talk 14. Last logged in 1985. (JW-OR)

1460 WXOK time heard. (JW-OR) [And a new NA record! - Ed. complete sports station. Mentioned Port Angeles and Seattle sports teams.

1470 WLOW MN Brooklyn Park -7/16 2240 - Good, with St. Paul Saints vs Winnipeg Goldeves LA Baton Rouge - 8/20 0120 - Station promo for gospel prrogram, concluding with: What is a better way to start off the day than with WXOK? Good for 1 km. (JB-

1520 KOMA OK Oklahoma City - 6/29 0100-0200 - Fair, with oldies. Fading in-and-out with nothing behind them. Not as strong as I expected in Iowa. (TS-IA2) baseball. (MBDXP)

0800 TO 1600 HOURS ELT

540 WGTO FL Pine Hills - 8/10 0530 - Poor, with sports talk program + 10. XEWA. New. (SA-MBJ) Over/under

WWCS PA Canonsburg - 8/10 0600 - Fair, in fade-up over WGTO/XEWA, with BBO News. New. (SA-MBI)

570 560 WIND WNAX SD Yankton - 7/1 1400-1500 - With C&W music and farin news. Solid all the way IL Chicago - 6/27 1300-1400 - La Tremenda, with SS music and news. Steady across Illinois. Lost near Newton, Iowa (TS-IA1)

630 CFCO ON Chatham - 8/11 0350 - Good, with G.T.O. Oldies program. 6-30 across Iowa. Lost near Rockford, Illinois to WIND splash (TS-IL) CKRC off. (SA-MB1) CFCO ID

> 1030 940 KIOA IA Des Moines - 6/26 1200-1245 - Fair in Dyersburg, Iowa with Good Times, Great Oldies // 93 3, except when carrying <u>Iowa Oaks</u> baseball.(TS-IA1)

KMAS WA Shellon - 8/1 0628 - Fair, with oldies music, 1030 KMAS ID just before WCTS sign-on at 0630. (SA-MB1)

1120 1200 WOPA KMOX MOSt. Louis - 6/25 1400-1500 - Fair, with Cardinals-Cubs baseball, coming out from under WMBI-1110 near Princeton, Illinois. (TS-IL) Chicago - 6/27 1300-1345 - With SS music. Good across Illinois, but lost near

1230 MT Bozeman - 8/15 0650 - Fair, with C&W music, 99.9 KZLO FM, The Fox ID New (SA-MB1) Grinnell, Iowa. (TS-1L)

1400 1340 KJDY KWOR WY Worland - 8/16 0655 - Good, with KWOR IDs. Must have a new schedule Not an 0800 sign-on. (SA-MB1)

OR John Day - 7/20 0806 - Clear ID through the crowd, following national new: 1st-timer. (JW-OR)

580 550 WDAF KSD MO Kansas City - 7/3 2232 - Country music. (TR-IL) MO St. Louis - 7/1 2202 - Story on <u>O. [. Sımpson</u> case. (TR-IL1) Urbana - 7/1 2200 - Update on cricket from BBC. (TR-IL1) <u>1600 TO 2400 HOURS ELT</u>

610 WISB MSW Grand Old Opry. (TR-IL1) TN Nashville - 7/1 2216 - Fair, with ads for Nashville Breakfast Theater and MI Zeeland - 7/1 1800 - Fair, w/Radio Aahs children's network. (TR-IL1)

850 740 690 710 MOR CBL KOA C8F CO Denver - 7/19 2340 - Fair, with Rockies vs Cubs baseball. (TR-IL) New York - 7/19 2337 - Fair, with open line calls. (TR-IL) Montreal - 7/18 2312 - Fair, with FF talk show. (TR-JL)

750 WSB GA Allanta - 7/1 2145 - Poor, with discussion about HIV positive blood and the ON Toronto - 7/18 2314 - Good, with classical music on program named That Time of the Night (TR-IL)

760 ₩ЈŖ religious right: (TR-IL1)

MI Detroit - 7/3 2234 - Tigers vs Rangers baseball promo for Knoeger Kids night (TR-IL1)

880 800 CKLW **WCBS** CKLW ON Windsor - 7/1 1804 - Poor, with talk about a 10-hour siege. (TR-IL1) NY New York - 7/18 2316 - Fair, with sports report. (TR-IL) ON Windsor - 7/18 2315 - Fair, with Blue Jays Post Game Show. (TR-IL)

CHMIL CHML ON Hamilton - 7/1 2347 - Good, with Blue lays-Royals game. (TR-IL1) ON Hamilton - 7/19 2345 - Fair, with oldies. (TR-IL)

WWJ WFAW ĭ MI Detroit - 7/2 2230 - Poor President Clinton rejects Republican health care Fort Alkinson - 7/3 2236 - Chicago vs Minnesota baseball. Rare.

KMA IA Shenandoah - 7/17 2059 - Good with ID during station break on the KC (RD-KS) Royals Bascball Network. Somebody underneath, possibly on early sunset skip.

960 950 940 900

1020 WPEO II. Peoria - 7/1 1811- Fair, with ad for attorney and church, both in Washington (llinois. (TR-IL1)

1070 WIBC KDKA PA Pittsburgh - 7/18 2318 - Fair, with sports talk. (TR-IL) IN Indianapolis - 7/1 1813 - Poor, with ad for Women's Hospital of Indianapolis

1090 WGLC Ξ (TR-IL1) Mendota - 7/1 1816 - Ad for Ottawa Collision and Custom New logging

1090 SOWM MI Muskegon - 8/18 2239 - Country, local ads, 107 MUS ID's and jingles. Log says this is a daytimer. With KAAY and CKRX. (JE-MN) [Since you heard an ID for the FMer (207 MUS), I'd guess they just "forgot" to turn off the AM coffee pot-(TR-IL1)

1130WDEN MI Detroit - 7/26 2228 - Fair, with sports talk, IDs as Detroit's Fan. Under KFAN

1160 So, be careful to which "Fan" you hear. New. (SA-MB1)

1180 WHAM new UV index. (TR-IL1)

NY Rochester - 7/18 2346 - Fair, with <u>Jim. Bohannon</u> and ad for <u>Rochester Tel</u> UT Salt Lake City - 7/3 2240 - Big band music; ad from Coppertone explaining

WGMP WRJC WI Mauston - 8/21 2103 - Popped up over WKBF and UNID (probably KWEB) with AM 1270 WR/C Mauston. Mid-Wisconsin's Information Station. (JE-MN) PA Philadelphia - 7/3 - Fair at 2243 with CBS game of the week. (TR-ILI) Cellular, (TR-IL)

1460 1400 KNND MUEI OR Cottage Grove - 7/2 2400 - Fair, thru the mess, with ID as Radio 14. (JW-OR) Rantoul - 7/1 1822 - Open line calls. New logging. (TR-IL1) [My old stomping

1470 KKSC grounds - Ed.]
IA Sioux City - 8/1 0615 - Poor, with Talk Radio 1470 KKSC IDs. No more NOS music. Ex: KWSL. New. (SA-MB1)

1560 WRIN IN Renssaelear · 7/1 1827 - Ad for events at Indiana Beach (nearby amusement

1600 KATZ park). (TR-IL1)
MO St. Louis - 8/20 2145 - In/out, with XEAE, with promo for \$2 off theatre tickets on August 19 (the day prior!) with coupon from station. Dj with Adult entertainment with KATZ. Frequently heard mornings, but this is first logging at this hour due to XEAE's dominance. (JB-TX)

## <u>GRAVEYARD DX UPDATE</u>

\* indicates North American record

££≞UKD	1490 kHz: WMBM KJSN	1450 kHz: WBHF KONP	1400 kHz: KART WFTG KJDY KNND CBLY	1340 kHz: KWSL WGAA KWOR	1240 kHz: WDDO WJIM	Tindicates  1230 kHz:  WQUA  KMUZ  KQIK
££ = UK DXPedition (Mark Hattam, Clive Rooms, Dave Kenny and Martin Hall)	F L Miami Beach SK Shaunavon	GA Cartersville WA Port Angeles	ID Jerome KY London OR John Day Cottage Grove ON Haliburton	CO Grand Junction GA Cedartown WY Worland	GA Macon MI Lansing	230 kHz: 230 kHz: 11. Moline WQUA II. Moline WUZ OR Gresham WUZ WA Lakeview
Clive Rooms, Dave Ker	UK DXPedition ££ Roy Millar	Ron Bailey Jack Woods	Wayne Heinen Ron Bailey Jack Woods Roy Millar Morns Sorensen	Jack Woods Ron Bailey Wayne Heinen	Don Trelford UK DXPedition ££	Wayne Heinen Roy Mıllar Wayne Heinen
ıny and Martin Hall)	Sheigra, Scotland Marysville, WA	Shelby, NC Waldport, OR	Colorado Springs, CO Shelby, NC (R Waldport, OR Marysville, WA Head Lake, ON	Douglas, AK (Rec Shelby, NC Colorado Springs, CO	St. Anns Bay, Jamaica Sheigra, Scotland	Orchard Park, NY Marysville, WA Colorado Springs, CO
	4186 *651	208 *258	) *574 (Recalc) 307 *255 *259 58	(Recalc) *1753 228 CO *393	1072 3426	*604 *138 *847

RC Publications - P. O. Box 164 Mannsylle M residents, please and state and local TON TO place ma 000

Wayne Heinen Colorado Springs, CO

ım Boehm San Antonio, TX

Ron Bailey Shelby, NC

Wayne Heinen Aurora, CO

Morris Sorensen Scarborough, ON

1230 16 8 12 2 2 6 32

lack Woods Waldport, OR .W. Bay, Jr. Drexel Hill, PA

## ABBREVIATIONS USED IN DOXD

/ /:parallel to :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 SSS:sunset skip TC:time check TT:test tones UC:urban contemporary UPI:United Press International QRN:natural interference QTH:location PRI:Public Radio International REL:religious ROK:rock 'n' roll RS:regular schedule \$:stereo SID:singing ID SRS:sunrise skip SS:Spanish SSB:Star Spangled Banner NHL:National Hockey League NPR:National Public Radio OC:open carrier POL: political PRI: Public CID:code ID CL:call letter EZL:easy listening EE:English FF:French COS:gospel IRN:Interstate Radio Net Radio International PSRA:pre-sunrise authority PSSA:post-sunset authority QRM:man-made interference LSR:local sunrise LSS:local sunset NBA:National Basketball Assn NFL: National Football League

## WKLP/WQZK-FM

### NEWS AND VIEWS

of the column for your DX enjoyment. Coatsworth's annual summary of the CPC test season; it's included as a separate section at the end Welcome to first time reporter Greg Myers of Virginia Beach, Virginia. I also received Jerry

kHz now much weaker and 1610 kHz is a mass of strong station and much QRM here."

Don Trelford said he got an interesting QSL from WZZK-610-AL...they sent him a T-shirt...on currently has 24 stations (permanent) in the system. On June 21 We will be converting stations in Cambridge, Easton, Queenstown and Denton to 1610 AM (from 530 AM). Stations now on 530 From Hank Holbrook on the TIS situation in Maryland: "QSL just in informs me that Maryland

which he had to pay customs duty!

A request from G. Harley DeLeurere: "I have three questions: (1) What are the call letters for the TIS on 920 for the Detroit Metropolitan/Wayne County Airport in Romulus, MI? (2) What are the OH/Parkersburg, WV area." Anybody with help on these can send responses to Harley at P.O. Box tor everyone to see! 10, Hendricks, WV 26271-0010. And why don't you send a copy to me also so it can be published (3) What is the location and address for WPBX694 on 530 (emergency broadcast station of the call letters for the TIS on 530 for the Dayton/Montgomery County Convention and Visitors Bureau? industrial Alert System of the Mid-Ohio Valley)? WPBX694 is somewhere in the Belpre,

interns wearing signs saying "Tune to 1510 AM for the next 500 feet - Music by B-Tribe" at the entrance to the Holland Tunnel. Of course, at this location, 500 feet reaches 90,000 cars per day! York - using it to promote music by a new band! Advertisement consists of record company John Hanz sent along an article regarding a new use of a low-powered radio station in New

literature. Contact Robert at Box 1003, Station B, London, ON, Canada, N6A5K1. Robert Ross is looking for transistor radios with 640 and 1240 marked and transistor radio

everyone had a great time at the convention. Deadlines are every Saturday beginning September A great turnout for a monthly column! Thank you all! The season seems to be underway. Hope

590 MA Boston - The Boston Herald says 590 will become WBNW with an all business format "in early September". (Fido-Net)

640 ZEWW were indeed testing, using a new transmitter on the WIFI-1460 site, with 500 announcement. Later this day I received a message through Fido-Net that they NJ Mount Holly - 9/4 0900 - Station is on the air with nonstop NOS music Heard the end of one announcement at 1033, seemed to be a testing watts. (DB-DE)

**WIXM** FL Largo - Switched to a network all-sports format as of 8/22. (Fido-Net)

820 840 WKIR VA Earlysville - Per call to station address is: P.O. Box 309, Quinque, VA, 22965. (GM-VA)

850 WHDH MA Boston - Starting August 29th, 850 will become WEEI with an all-sports format. (Fido-Net)

1000 WRAR VA Tappahannock - 8/6 0755 - ID as "105.5, the best music mix, WRAR", local news into network news. No longer NOS. (DB-DE)

WDFN WKBR NH Manchester - 8/11 1500 - Noted on the air with non-stop "beautiful" music MI Detroit - 8/1 1808-1820 - Ex-WWWW. Now sports talk. ID as "WDFN primarily instrumental, with a few vocals. The only announcements were the Fantastic Radio". (RR-ON)

which could be heard in the background. The worst interference was slop from signal was good, about 15 dB (or more) above co-channel WARE (Ware, MA) legally-required ID's at the top of the hour. At this time the following ID was heard "Beautiful Music for New Hampshire - This is WKBR, Manchester". The much-stronger adjacent WEZE on 1260. (MC-MA)

wjbr DE Wilmington - 8/29 0807 - Noted with NOS format, ex-AC, no longer //FM.

1290

1370 WPAZ with OLD, "...plays your favorites on Lite 1370, WPAZ". No longer NOS. PA Pottstown - 8/10 1427 - Unusual daytime conditions brought this one in (DB-DE)

1460 **WCMB** PA Harrisburg - 8/26 1617 - Traffic report "on Hot Talk WCMB and the all new Mix 99.3". Don't know if they are // or just the traffic report was simulcast. (DB-

1470 WBTX continuous since 72! Also sent a coffee mug! My first ever! GOS format, 5 kw-VA Broadway - Per v/l station was never silent. Letter mentioned they've been

1480CKDX ON Newmarket - Station is silent. First noted off on 8/7 but may have gone of ever changes to FM. (MS-ON) and found them there with good signal. This must have been one of the quickest earlier. An article in a local newspaper said they are now on 88.5-FM. Checked

CKDX ON Newmarket - As of 8/8 has left the air and reappeared on 88.5-FM. I was would have made a very profitable subdivision. This region is "served" by at least three other stations programming oldies, CKOC-1150, CHUM-1050 and had to abandon their AM transmitter site. Somebody can correct me on this, but I of the FM dial. However, I gathered from Dan O'Connell at the D.O.C. that they CJEZ-97.3. I guess some people never get tired of hearing Canadian oldies by Edward Bear and April Wine (NW-ON) think their lease was up. The site was smack-dab in the middle of land that their dials to 88.5 FM", especially since they have moved to the "educational" part surprised that there are no announcements on 1480 telling listeners to "switch

## EMERGENCY BROADCASTS

1160

UNID 2010-2200+ - Station with EBS and tornado warnings for Stokes and Surry VA, located just north of the NC border and the mentioned counties, near martinsville, VA-db) can find something out about this one! (GM-VA) (My guess is WODY-Fieldale, at 2200. Assume a transmitter used only for emergencies. Reported, hopefully 2200 with same, and DJ mentioned severe weather, IDs, CW music. Legal FM ID with tornado warnings for Allegheny and North Wilkes counties, continued relay of WTQR. Check of 600 kHz had W5JS with talk; checked periodically until WTQR-FM-104.1 (sister station of WSJS-600). At 2036 emergency weather tones counties, mentions of "National Weather Service in Greensboro", then relay of

## UNID AND UNID HELP

1320 UNID 8/1 2230 - Nat King Cole with Whose Sorry Now?, ID as "Golden Horseshoe 8/1 2239 - Came up briefly in glop with what I thought was "WTSN, your sports authority". WTSN is listed as 1270. Tried similar sounding calls but couldn't Golden Horseshoe years ago. Could this be CJMR? Anyone? (DE-ON) (Also heard in RI on 6/20 – db) Radio". Strong signal. The area at the west end of Lake Ontario was called

SVID

1450

1490 8/1 2241 - Blue Jays baseball. Possibilities might be CKOA-Amprior, ON match. (DE-ON) (How about WTSA, except for the format, perhaps? - db) Vol. 61, No. 27 – db) (nearest) or CFPS-Port Flgin, ON. (DE-ON) (Only CFPS is on the Blue Jays list in

1580 UNID 8/3 2025 - Phillies baseball. No one listed on net. (DB-DE)

### 0000 to 0800 ELT

speaking stations. (AH-RI)
ME Gardiner - 7/11 0530 - Man with ID. (AH-RI) NB Fredericton - 8/15 0401 - Pop music and news. Unusual because the local WICE was off unexpectedly. Also two UNID English and some Spanish

WABK

1280

550

1300 WFFG FL Marathon - 7/31 0451-0505 - CW, Hooked on Phonics ad, news, promo interference, (DT-JAM) program "9:00 AM every Sunday, right here on 1300, WFFG". Poor with UNID for

1320FL Hollywood - 7/29 0555-0700 - Pop LA music, callers requesting numbers poor-fair. (DT-JAM)

1370 IXXM NY Rochester - 7/13 0340 - Saxophones in Jazz commentary. (AH-RI)

1430 WLKF WSPD FL Lakeland - 7/23 0302-0306 - Ad for National Dynamics, talk show, promo for OH Toledo - 8/16 0400 - "Serving Ohio and Indiana" promo. (AH-RI)

1480 WYZE program "on News 1430, WLKF", Talknet, poor-fair. (DY-JAM)

GA Atlanta - 7/20 0334-0440 - Pop music, ID in part as "...on WYZE...", poor with UNID interference. (DT-JAM)

1500 KCLF announcement and news. New. These beverage antennas never cease to amaze LA New Roads - 8/22 0600 - Fair on top for a minute with ID, sign-on

1570 WZCC IN New Albany - 8/1 0231-0242 - Good with ID by man at 0231 "1570 WZCC me! (MB-IN)

hours a day, the Bug" into CW music. Mixed with WZCC. (RR-ON) FL Atlantic Beach - 7/15 0515-0536 - GOS and REL programming. Health and New Albany, Indiana's inspirational radio". Soft gospel/choir music. (RR-ON) NY Amsterdam - 8/1 0235-0238 - Fair with ID by man at 0235 as "WBUG, 24

1600 WNCM Happiness sponsored by Sports Jagua South Beach, etc., poor-fair. (DT-JAM)

### <u>0800 to 1600 ELT</u>

540 WLIX NY Islip - 7/24 1423-1444 - REAL Surprise, thought it was WWCS-PA usually Riverhead, etc. Pretty good report. (HH-MD1) Music, announcements, weather, ads, Our Town USA Christian book store in heard days here but was WLIX first time. Weak-fair, no QRM. Static about nil

WDXN TN Clarksville - 8/21 1600 - Very good with ID, news, ad for Liberty Computers then Peoples Radio Network. New. (MB-IN)

610 CHNC PQ New Carlisle - 7/16 1220 - French rock songs. Station can be heard in NB NS, PI and eastern PQ all day long and night in my Cornwall, ON home base. (DE-ON1)

770 WABC NY New York - 8/19 1507 - Poor but audible with Bob Grant. (AN-NS)

12301560CFGN WATJ OH Chardon - 8/1 1518-1532 - Fair with oldies pop/rock music. IDs as NF Port-aux-Basques - 7/17 1230 - Clear across the water with Irish jigs and Newfy folk songs. ID'd as "CFCB-570 Corner Brook, Newfoundland". (DE-ON3) "WATJ-1560". Spot for "Captain Joe's Showboat on WATJ", news, weather

1570 WITW OH Piqua - 8/7 0958-1005 - Poor-fair with male DJ "playing 5 songs in a row" Ex-WBKC. (RR-ON) ID as "WPTW" into music, then faded out. (RR-ON)

### <u>.600 TO 2400 ELT</u>

550 CENE NB Fredericton - 8/1 2140 - First time here, must be pattern change. ID "Good Time Oldies on CFNB". Great signal. (DE-ON)

560 CK New. Steady signal (DE-ON) ON Kirkland Lake - 8/1 2145 - Woman ID, Blue Jays baseball vs. Red Sox

CKRS PQ Jonquiere - 8/1 2150 - Radio Saquenny, French commercial for ambulance

MICC company. ID into FF song. (DE-ON) CT Bridgeport - 8/1 2153 - Talk show and ID. Fighting with nearby CIQC

600 590

NXXM NB Saint John - 7/13 2030 - Clear stereo in my Bangor, ME location. Can be KY Newburg - 8/21 1800 - Good with ID and CNN News. New. (MB-IN)

**680** 710 CKVM PQ Ville Marie - 8/1 2156 - Strong, //CBF-690, over WOR. This station is located north of North Bay, ON near the Quebec-Ontario border. (DE-ON) CHSJ can be received much better in these locations. (DE-ON2) heard in NB, NS, and PI all day. CFNB-550 claims to be Radio Atlantic, but

740 CHCM NF Marystown - 7/16 1855 - Moved here from 560(?) using "CHCM" ID and carrying VOCM-590 network. Good signal day and night from my Sydney, NS

750 ON Timmins - 8/1 2200 - Very strong with Blue Jays baseball. No sign of WSB location. (DE-ON1)

WLKW RI Providence - 8/1 2205 - Came up loud over CIGM with clear ID Beautiful music on WLKW", but I could not find it in '91 Log (ordering new one). Searched

790

830

MN Minneapolis - 8/1 2207 - "News Talk Radio WCCO". First time in years FMs state by state until I came across WLKW-FM. Help! (DE-ON) (Dave, it is

WCC0 over nearby CFJR. (DE-ON)

1110 1040 Y.C. WYFX FL Boynton Beach - 7/28 2128-2152 - Noted dominating the frequency with ON Sarnia - 8/1 2224 - This comes in regularly now. I mentioned this to Bill spot for "Tip Top Tires". One mention of "WYFX, Foxy 10-40". Did someone forget to pull the daytime plug? At 2152, WHO was suddenly dominant, and as "Foxy 10-40", dedication line 1-800-227-7685, national spots and one local strong signal while looking for Radio Democracy. Male announcer with promos Hale and he said pattern does not come anywhere close to me. Changes must Foxy 10-40" was gone! Made for a good log/report. (MH-NC)

winter here – db) have been made. (DE-ON) (They have been quite common under WBT since last

1150 AR North Little Rock - 8/21 2100 - Good with "Praise 1150" ID as per Log, GOS music. New. (MB-IN)

1210 WCMO FL Miami Springs - 8/12 2050 - Pop LA music fair over OOA and UNID SS. ID as "CMQ Cadena National". (DT-JAM) (Don, what's "OOA"? - db)

1230 WFAI music QRM. Not a great log, but with local WJNC-1240 a few miles away, any log on 1230 is welcome! (MH-NC)

FL Cocoa Beach - 7/31 1814-1855 - OLD, promo to "contact Manager of WXXU", NC Fayetteville - 8/11 1945-2002 - Heard with General's Baseball (local team). Several local spots, mention of FM, WTSB, and brief ID on hour for "WFAI...Fayetteville". Poor-occasionally fair with UNID co-frequency flute

1300 WXXU poor over/under WFFG. (DT-JAM)

1320 WAMR FL Venice - 7/30 1835-1910 - Minni Dolphins network play-by-play of the JAM) Dolphins-NY Ginnts football game, poor with interference from UNID SS. (DT-

1460 WWWG NY Rochester - 8/7 2326 - "3WG" mention in ad block, "Spirit of Rochester, your community Gospel station". (DB-DE)

1550 1480WYZE KAPE GA Atlanta - 8/21 2040 - Good-fair with ID "WYZE, the voice of the Gospel MO Cape Girardeau - 8/21 2100 - Good with ID, CNN News. New. (MB-IN) Atlanta". GOS music. WTHI not audible on beverage, good on super snooper

1570 WWCK NY Dundee - 8/6 1900-1906 - Fair with ID by man as "WFLR 1570 Dundee, MI Flint - 8/1 1916-1925 - Good with weather for Tri-Cities and Flint. IDs as New York" into news. Another ID and then fade-out. (RR-ON) "CK105". Local ads, rock music - current hits. (RR-ON)

WANR OH Warren - 8/1 1835-1840 - Fair with ID as "WANR" by man, mention of Mahoning County. IDs as 'Metro 157". (RR-ON) Warren, phone number 373-1570, ad for restaurant in Youngstown, mentioned

WIOW PA Latrobe - 8/21 2044-2100 - Fair with ad for "Eastgate Dodge on Route 30 in (RR-ON) Greensburg". More local ads, weather, ID by man at 2100 as "WQTW-1570"

MRJQ WI Appleton - 8/2 2045-2048 - Fair with ID by man "Right here on WRJQ-1570, ??? Radio", NOS music over a mess of stations. (RR-ON)

#### OTHER STUFF

530 WNQA289 MD Queenstown -- 5/31 1310-1325 - Maryland Department of Transportation TIS. (HH-MD1) (This one has since moved to 1610 – db)

530 WNVY508 MD Landover - 7/30 0824-0840 - Maryland Department of Transportation TIS of the Maryland Department of Transportation stations is 707 Calvert Street with information on road work and upcoming events in the Washington, DC area. Fairly good signal. Now heard as WNQA289 Queenstown, MD has moved to 1610. Calls confirmed by QSL received 8/4, uses 10 watts. New address for all Baltimore, 21202. (HH-MD1)

530 WNMO415 MA Westport - 1630 - Usually heard during daylight hours with a beach (AH-RI) report and caution that no dogs or liquor are allowed on "Horseneck Beach"

530 WNYS687 NY Syracuse - Hancock International Airport TIS well heard several miles out Wil get out better at night once CIAO vacates channel. (RE-PA)

> 530 WNRWW290 PA Lehighton - "Pilot program of the Pennsylvania Turnpike Authority..." for southbound travellers on the Northeast Extension of the Pennsylvania

530 Turnpike approaching the Lehigh Tunnel. (RE-PA)
WNRW290 PA Slatington - "Pilot program of the Pennsylvania Turnpike Authority..." for northbound travellers on the Northeast Extension of the Pennsylvania Turnpike

approaching the Lehigh Tunnel. (RE-PA)

590 WPBJ222 good, copied with some difficulty, UNID stations below? Calls confirmed by QSL which mentioned 3 of a planned 12 stations are in operation using two Management Center TAS. Road work info, mainly for Silver Spring, MD. Fairly frequencies, 590 and 1070, uses 10 watts. (HH-MD2) MD Rockville - 7/27 1318-1335 - Montgomery County Transportation

710 KAD1590 NY Syracuse - New York State Thruway Authority station with traffic, weather, events, located at Exit 35. (RE-PA)

1490  $\mathbf{SII}$ PI Prince Edward Island National Park - 7/17 1550 - Jingle ID with man and woman giving into on park events and requirements. Faint, But clear signal received at Cheticamp, NS (Cape Breton Highlands National Park entrance parking lot). (DE-ON4)

1610 WNQA286 MD Annapolis - 6/20 0910-0929 - Maryland Department of Transportation

IIS. (HH-MD1)

1610 KFB55 MD Cambridge - 7/28 0925-0940 - Pretty good signals, good but QRM stations Calls confirmed by QSL received 8/4, uses 10 watts. (HH-MD1) in background. Info on upcoming events in Cambridge and Ocean City, MD

1610 TIS NY Buffalo(?) - 8/8 2335-2340 - Fair with male on continuous tape loop with for New York State mentioned Buffalo, Albany and New York City. (RR-ON) information on traffic conditions for western New York State, weather broadcast

#### <u>REPORTERS</u>

MC-MA Mark Burns, Terre Haute, IN: Drake R-8, 1000-foot beverage N/S, Super Snooper Mark Connelly, WA1ION, Billerica, MA:

RE-PA DE-ON1 DE-ON R.J. Edmunds, WB2BJH, Blue Bell, PA: Nissan car radio and whip Dave Evans, Cornwall, ON: Superadio II, built-in rod Dave Evans, in Sydney, NS: Sony SRF-A1 stereo walkman and Alpine 7510 car

DE-ON3 MH-NC Dave Evans, in Cheticamp, NS: Alpine 7510 car radio Dave Evans, in Bay St. Lawrence, NS: Alpine 7510 car radio Mike Hardester, Jacksonville, NC: ICOM R-70, Radio West 22" ferrite loop

Dave Evans, in Bangor, ME: Alpine 7510 car radio

DE-ON2

radio

HH-MD2 HH-MD AH-RI Hank Holbrook, Bethesda, MD: 1990 Toyota car radio with auto whip Al Hemmalin, Middletown, RI: Hank Holbrook, Dunkirk, MD: SP-600, 120-foot random wire

RIR-ON ANNS GM-VA Greg Myers, Virginia Beach, VA: Grundig YB-400 Allan Ng, DXing at Yarmouth, Nova Scotia: Nissan car radio Robert S. Ross, VE3 JFC, London, ON: Collins 651S-1, Hammarlund SP-600

DT-JAM DB-DE NW-ON MS-ON Niel J. Wolfish, Toronto, ON: Don Trelford, St. Anns Bay, Jamaica: Morris Sorenson, Scarborough, ON:

homebrew loop, dipoles, longwires

Dave Braun, Wyoming, DE: R-5000, Quantum loop

Viliage Broadcasting Cohtpany, Inc. P. O. Box 212? Chapel Bill, North Carolina 27514 (919) 942-8765 Non-Sap Chapel Hill 1360 

# DX TESTS 1993-1994 - JERRY COATSWORTH, MERLIN, ON

The following are the results of my efforts during the last winter's DX season. All tests were logged using a JRC NRD-525 and a 30-foot wire hanging about 20 feet above the ground. Also, all tests included a 40-cent U.S. stamp for return postage. Some of the tests were taped while I slept during taping. A few stations were nice enough to return a list of other listeners who reported error also scored big, e.g. forgetting to rewind the cassette or leaving the pause button engaged beyond my control, e.g. electricity going off and changing the on/off times on the timer. Human the test but details were so slim that I didn't bother to report. Other tests weren't heard due to forces verifications of the 29 tests I reported. I attempted another 29 tests. Some I may have heard bits of using a rather inexpensive Radio Shack timer and cassette recorder. I managed to attain 21 This I think should be standard procedure as I think it's great to see who else sat in front of their

contribution of logs are of interest to the readers of this magazine. Good luck to all in the fast radio, in the middle of the night, listening to the same static as I did. Here's hoping my humble approaching 94/95 DX season." Jerry Coatsworth, VE3 KXO

middle of the night, listening to the same static...", and don't hear the test, which happened all too News during the year. Unfortunately, it doesn't list those of us who sit "in front of their radio, in the frequently to me this past year! – db) (lagree that a list of reporters is good to see. In fact I wish more of them would show up in DX

- 1150 WELC WV Welch 10/11 0001-0030 Heard voice and code IDs. Also bluegrass music Diploma style QSL along with nice verification letter in 17 days, v.s. Chief Operator John
- 1560 WAGL SC Lancaster - 10/18 0300-0330 - Heard code and voice IDs. one of whom was from New Zealand. All in 78 days, v.s. B.L. Phillips, Jr., General Manager. verification letter, station info and list of DXers who logged the test and/or called the station, Received
- 1510 WSSH MA Boston - 11/1 0300-0400 - Heard tones, code and voice ID. Sent report but received no reply
- 1270 WXYT MI Detroit 11/19 0130-0200 Had to be alert to catch a few bursts of rapid code Schwanitz, C.E. during regular programming. Verification sheet in 8 days, v.s. illegible but think it was Neil
- 1340 1250 KWSU WA Pullman - 11/20 0300-0400 - Positively heard several tones of different pitch, received no response. and possibly a weak voice ID. Test was supposed to consist of code IDs. Sent report but
- 550 KSD KXXY OK Oklahoma City - 12/5 0100-0130 - Heard several tones through jumble or clear in both their directional and non-directional modes. Sent timely, detailed report, yet frequency. Received nice verification letter and list of reporters in 46 days, v.s. Britt Lockhart. MO St. Louis - 12/5 0300-0330 - Heard code and voice IDs in the
- 1150CKX received no response. Chief Meteorologist. voice. My first Canadian DX test. Classy verification letter in 76 days, v.s. Ron Thompson, Brandon - 12/6 0300-0330 - Heard tones and code IDs but no
- 1110 WJSM PA Martinsburg - 12/12 0000-0100 - Logged some weak code. Received bumper This all in 50 days. sticker, coverage map and very thoughtful personal verification letter from Larry Walters.
- 1270 WCGC NC Belmont - 12/20 0100-0130 - Faint tones were logged here. Sent report. response.
- 1480WDAS PA Philadelphia - 12/20 0100-0200 - Heard voice, code and tones of varying pitch R. Sullivan, C. Coverage map, key chain, form letter and nice QSL/verification sheet in 47 days, v.s. William
- 1270 WMIZ NJ Vineland - 1/2 0100-0300 - Listened to first 15 minutes of test and heard code signed by Dave Schmidt, C.E./Operator, in 21 days. Dave also returned my return postage IDs and what sounded like a European-style police siren. Received a nice verification
- only regular programming. Received brief yet nice full data verification letter from Program Director Greg Moceri in 16 days.

  1010 KDLA LA DeRidder 1/15 0500-0530 Lots of code here, test continued past scheduled **750** WSB GA Atlanta - 1/9 0000-0500 - Listened for about 20 minutes hearing
- end. Sent timely, meticulously prepared report. No response.
- 740 QSL/postcard in 14 days, v.s. illegible. MA Cambridge - 1/24 0130-0200 - Heard tones and rapid code. Nice full data
- 940 WADV PA Lebanon - 1/29 0230-0300 - Heard code and voice ID during portion of test using 1000 watts. Received a full data QSL and a post card in 42 days, v.s. Craig Baker.
- ŝ WFRM PA Coudersport - 1/31 0030-0100 - Caught some code and also a voice ID. Sent report. No response.
- 1340WTRN PA Tyrone - 1/31 0030-0100 - Heard some very weak bits of code. Sent report in
- 560 WFRB MD Frostburg - 1/31 0100-0130 - Heard tones, code and taped voice IDs. same envelope as report to WFRM (above). No response.
- 540 WGTO FL Pine Hills - 2/14 0200-0330 - Using my timer I taped the last 5 minutes of the WGTO test and then the first 10 minutes of the KIEZ test which began at 0330 on the same frequency. I was lucky enough to snag one burst of weak code from WGTO, but nothing from report. No response. Received coverage maps and detailed verification letter in 25 days signed by Dave

- 1340 KVBR MN Brainerd 2/20 0100-0130 Tones and code were heard. Received nifty Consultant verification letter/into sheet/list of reporters in 24 days, v.s. Mark W. Persons, Technical
- 910 WNEZ CT New Britain - 2/26 0000-0030 - Easily copied code and voice IDs. Sent report No response
- 1260 WEKZ WI Monroe 2/27 0100-0130 Copied tones and code. 6 weeks, v.s. Van Steiner, C.E. verification letter, station info and history and also a list of other DXers who reported. All in Received full data
- 1580 WIWO IN South Bend - 3/7 0400-0500 - One of the most enjoyable tests I have logged consisting in part of code and novelty Christmas songs. All in the clear. Verification letter and station info in 3.5 months, v.s. Larry Humphrey, C.E.
- data QSL/postcard in 1 month, v.s. Rich Bosse. WNNZ MA Westfield - 3/13 0100-0200 - Easily copied lengthy voice ID. Received full
- but at the time of this writing I couldn't find it. indicate that in 5 weeks I received a full data verification letter along with some other stuff KKIN MN Aitkin - 3/13 0200-0230 - Copied code IDs of different pitches. My records
- 1510 WJIC President. letter, coverage map, bumper sticker and station info in 35 days, v.s. Ben Ferguson, Vice NJ Salem - 3/14 0000-0030 - Heard code, tones and faint voice ID. Verification
- 1450 KVOW WY Riverton 3/14 0210-0220 I wanted this test bad. I heard a couple bits of possible code but wasn't sure so I sent a tape to the station along with my report. Received a short and very vague verification letter in 3 months. I guess I heard the test, v.s. Lonny A.
- KFGQ IA Boone 3/21 0230-0300 Faint code was heard. Sent report. No response.

Thanks for your efforts, Jerry. I got my KSD QSL on 8/27/94 – db



## Fire Sweeps KPAY Studios

Radio World via Jerry Starr

silencing the AM station for time days and the FM for four days KPAY is owned by Craig McCoy, who also owns KPNW in Fugene, Ore, and KCCY in CHICO, Calif. An alte fire destroyed the contents and building of stations KPAY AMÆM, Chico, Calif., July 11. Pueblo, Colo

everything was lost computers, the new transmitters went off the air. Nearly ment was called and the building evacu-But soon thereafter, they saw smoke smoke At first they thought it was the office building at 2654 Cramer Lane on Monday morning July 41, they smelled Broadcasting studio/AM transmitter/ phone system and the AM transmitter. sted. Shortly after the evacuation, the coffee pot, which was then turned off. When employees arrived at the McCoy

firefighters' efforts were hampered by a Daniage was extensive, estimated in the the building was constructed in 1941 The fire apparently began in the building's attic, likely the result of old wiring lreds of thousands of dollars, because

in place to keep the rain out. recently installed seamless metal roof put

to other parts of the hailding. Firefighters three hours, had problems getting to all the space in the actic due to the metal spent more than three hours putting out ruof, which also helped transfer the heat Firefighters, who fought the blaze

ter was located 16 miles away and was not harmed by the fire. 95 hours after the fire. The FM transmitaway, recently vacated by KPPL. With relocate to nearby studios one-half mile as soon as possible. KPAY was able to Lixal broadcaster Jeff Kragel, owner of KPPL, helped get KPAY back on the arr the use of the vacant studio building. KPAY FM was able to return to the air

dish untenna at the new temporary studio At press time in fate July. Chief Engineer Dan Burner and that temporary power was rigged for tower lighting, and vatellate dealer was employed to install for some of its talk programming. A local

(we days after the fire the tower

to the humed out building. A solid state transmitter was ordered from Nautel delivery had to wait until Monday the shipment arrived at customs Friday, too late to be eleared, and Nova Scolut, Unfortunately, Bulner said shipment of the transmitter from Halifax, Nautel promptly made an emergency A trailer was placed on the property close KPAY AM were illuminated once more 変素的

center tower only Unit complete rebuilding and installation of a phissing network, XPAY will operate non-directional with 2500W using the had been placed on the property It was nine days after the fire that KPAY AM returned to the air KPAY normally is a After this 48-hour additional delay, the transmitter was installed in the trader that 10 kW, three-tower directional station

KPAY AM depends on satellite delivery old burned-out transmitter, and testing for PCB is now required before the buildof a spill from the PCB capacitors in the after testing for spilled PCBs at the sate building and rebuild on the sa The fire department noted the possibility KPAY plans to bulldoze the huraed



#### International DX Digest

## Jim Renfrew JimRenfrew@AOL.com

Foreign DX Catches. Times are UTC; for ELT, subtract 5 brs. Rochester, NY 14607-3832

but my weekend work schedule makes this difficult. Maybe next year? Once again, I was NOT at the NRC Convention. Jerry Bond and George Green offered me a ride,

this week, but I chickened out. I couldn't tell if it was adequately grounded, and I didn't want to be terminated! So I went to the beverage stand instead. By the way, I had a chance to ride the Quantum Loop at the local Seabreeze Amusement Park

Haiti, USA or International Waters? How about Clandestine? I'm not sure if the plane flies over Several reports of Radio Democratie, though Mike Hardester wonders how to count this station

New IDXD reporter Atsushi Masamune may have solved the TP unID on 1557. Read onl

enough time to type it up, so we'll see that one next time. here with the exception of Ben Dangerfield's report which came in Thursday afternoon and not Looks like a great TA season is about to begin, with many loggings from August. All are shown

There is room for one last-minute hot tip:

HCJB TEST INFORMATION

0515 to 0545 UTC. (That's late December 23 local time if you live in western North America and came up with the next tost date yesterday. The test will take place UTC December 24, 1994 from "Hello from the Andes. This morning, there were three different messages in the mailbox inquiring about the possibility of the next 690 kHz DX test from HCB. Funny you should ask! We further west to the dateline.)" [Rich McVicar, HCJB, via e-mail SEP 9] 3

### TRANS-ATLANTIC DX

- GERMANY (t) AUG 7 0243 Engelbert Humperdinck song; fair. [Connelly\*H MA
- 153 FRANCE Allouis, AUG 7 0243 - saxophone jazz, EXCELLENT. [Connelly\*H MA]
- 83 GERMANY Felsberg, AUG 7 0242 - FF dance-rock music; LOUD! [Connelly\*H MA]
- 198 ENGLAND Droitwich et al., AUG 7 0244 - BBC with EE talk over second station (probably Algeria). [Connelly\*H MA
- 207 unID (MOROCCO or GERMANY), AUG 7 0245 - vocal; poor. [Connelly\*H MA] FRANCE Roumoules, AUG 7 0245 - FF talk over other station & CLB beacon. [Connelly\*H
- IRELAND Clarkestown, AUG 7 0257 - rock (sounded like Yes), then EE talk; fair. [Connelly\*H LUXEMBOURG Junglinster, AUG 7 0253 - FF talk, music; fair, some QRN. [Connelly\*H MA]
- $\frac{585}{2}$ SPAIN, SEP 3 0210 - Pop music // 774, woman talking in SS. [Braun-DE]
- SPAIN Sevilla et al., AUG 26 0313 SS talk by man; poor to fair. [Connelly-MA]
- 603 612 MOROCCO Sebaa-Aioun, SEP 7 0213 - male AA vocal at low audio level on good strength carrier. [Connelly-MA]
- 82 talk // 639; very good. SEP 7 0210, woman in SS; to good peaks. [Connelly-MA] SPAIN La Coruna et al., SEP 2 0500 - SS talk; very good. SEP 7 0218, man in SS // 621 CANARY ISLANDS Santa Cruz, Tenerife, AUG 26 0314 - SS talk // 603; fair, SEP 2 0502, SS
- 639 Connelly-MA!
- PORTUGAL Lisboa, AUG 6 0340 - PP group vocal; poor. [Connelly\*H MA]
- SPAIN Sevilla, AUG 24 0239 Woman talking. [Braun-DE]
- 711 unID (MOROCCO or LIBYA), SEP 7 0220 - bits of AA music & screamer het against WOR / Cuba - 710. [Connelly-MA]
- 747 HOLLAND Flevoland, SEP 2 0419 - Insh-style fiddle music; good. [Connelly-MA]
- SPAIN / GERMANY, SEP 2 0418 SS / GG mix; poor. [Connelly-MA]
- 785 SWITZERLAND Sottens, SEP 2 0415 - man & woman in FF; then light music. [Connelly-MA] SPAIN, AUG 24 0232 - Talk by man in WABC slop. [Braun-DE] SEP 2 0414 - fast SS talk // 855; to good peaks. SEP 7 0226 - SS teletalk; fair. [Connelly-MA]
- 836
- 837 UNID, AUG 25 0339 - het against 837. [Connelly-MA]
  CANARY ISLANDS // SPAIN, AUG 7 0324 - SS teletalk; EXCELLENT. [Connelly\*H MA] AUG 25 0339 - SS talk over others. [Connelly-MA]
- 85 SPAIN, AUG 24 0245 - Woman talking // 684. SEP 1 0345 - Woman singing // 774. [Brann-DE] AUG 25 0338 - man in SS; EXCELLENT, not even bothered by local WHDH, 850. SEP 2 0414 - fast SS talk / / 774; good. SEP 6 0434 - woman in SS; good. SEP 7 0228 - SS teletalk / / 774; good. [Connelly-MA]

- 864 SPAIN RNE R. 1, Socuellamos, AUG 13 0228 Pop tune, ID at 0229, then talk about a love song called "Eva". SIO 343 [Burnell-NF]
- European and AA styles; LOUD. [Connelly-MA]
  954 SPAIN R. Espana, Madrid, AUG 13 0238 Talk about musical "Evita", played SS version of 891ALGERIA Algiers, SEP 2 0408 - violins & AA vocal; EXCELLENT. SEP 7 0230 - music of both
- "Don't Cry for Me, Argentina". SIO 333 [Burnell-NF]
- 972 SPAIN RNE R. 1, Monforte de Lemos, AUG 13 0241 Woman in SS, pop music // 855. SIO 242 [Burnell-NF] 999 SPAIN Madrid / unID, AUG 24 0325 fast SS talk atop second station (probably Morocco). AUG 25 0334 LOUD with fast SS talk by man. SEP 2 0324 SS talk LOUD atop unID music station (Morocco?); SAH 4 Hz. SEP 7 0233 - SS talk. [Connelly-
- 1008 slop with WINS phased. [Connelly-MA]
  UNID, SEP 0340 - Weak with man talking in UNID language. [Braun-DE] CANARY ISLANDS // SPAIN, SEP 2 0325 - SS talk; poor in jumble through slight CFRB
- GERMANY (t), SEP 7 0235 C&W style vocal, apparent GG talk. [Connelly-MA]
- SPAIN Reus et al., AUG 6 0421 SS talk; choppy fades. [Connelly\*H MA]
- SPAIN, AUG 24 0323 SS news delivered in a monotone style. [Connelly-MA] SEP 1 0327 SS teletalk; EXCELLENT. SEP 7 0237 SS teletalk. [Connelly-MA] MOROCCO Sebaa-Aioun, SEP 1 2352 AA violin music over others. [Connelly, MA]
- ROMANIA R. Romania, Iasi, AUG 13 0248 Man and woman talk in Romanian, pop tunes "Radio Romania" ID, talk over rock music, weather. Dominating Spain, think this is the bes some in EE (but not one was familiar to me), usually without announcements, pips at 0300
- 1053 UNID, SEP 3 0152 - Music weak but clear in WEVD slop. [Braun-DE]

I've ever heard them on this freq, SIO 433 [Burnell-NF]

- unID, SEP 1 2351 huge carrier and background AA audio. I wasn't sure if it was an OC over an AA station or a single signal modulated about 10%. Morocco or Libya are most likely [Connelly-MA]
- 1062 DENMARK Kalundborg, AUG 24 0320 - "Emotional Rescue" by the Rolling Stones, then apparent Danish talk; good before fade. SEP 2 0332 - '50s-style rock song with Scandinavian-language lyrics; good. SEP 6 0405 - LOUD with news by man in Danish [Connelly-MA]
- RUSSIA? prob. Krasnodar, AUG 14 0159 RR phone-in program hosted by woman, no break
- <del>1</del>089 at the top of hour. Big het, but no audio from 1088 (Angola), SIO 343 [Burnell-NF] unID, AUG 25 0332 - Middle-Eastern sounding music here with WBAL phased. SEP 2 0330 and higher-power Syria & Albania are possible. This has heard been fairly often - can flutes, violins, AA-style music with WBAL phased. Lower-power Algeria & Saudi Arabia
- anyone help on this? [Connelly-MA] UNID, AUG 24 0250 Weak music in WWWE slop. Also heard SEP 3 0154 with music very weak. [Braun-DE]
- 1098 CANARY ISLANDS (//SPAIN) / SLOVAK REPUBLIC, AUG 25 0328 - SS talk alternating removed totally by phasing. SEP 1 2350 - Slavic talk atop SS talk. with Slavic talk; the combined signal was massive and the slight WWWE QRM could be [Connelly-MA]
- CANARY ISLANDS // SPAIN, SEP 1 2350 SS talk over growl. [Connelly MA]
  SPAIN, AUG 6 0420 Segovia-type classical Spanish guitar music; good. [Connelly\*H MA]
  SEP 2 0336 RNE5 synchros. HUGE (S9+40) with mellow SS vocal. [Connelly-MA]
- SPAIN, AUG 25 0321 man in SS; fair to good with WBBR phased. SEP 2 0338 fast SS talk EGYPT / SPAIN, AUG 25 0326 - Egypt dominant with AA vocal over Spain's SS vocal Connelly-MA
- by man; over others. SEP 7 0240 SS talk; fair. [Connelly-MA]
  CANARY ISLANDS // SPAIN, SEP 1 2325 man in SS; fair with WHAM phased. SEP 2 0340 - fast SS talk by man; second station (Sweden ?) with talk by woman was way in the
- HUNGARY Magyar R., Szolnok, AUG 6 0230 pips, news in Hungarian by woman, 0233 background. [Connelly-MA]
- 1215 ENGLAND, AUG 24 0312 - Virgin R. noted with EE talk, then song by the Smiths; to fair flute and guitar music. SIO 232 [Burnell-NF] peaks. [Connelly-MA] SEP 1 0328 - Blondie's "Rapture", man talk in EE, first time heard
- LIBYA Tripoli, AUG 25 0256 AA vocal at low audio level on big carrier. SEP 1 2345 AA talk by man. [Connelly-MA]
- SPAIN Valencia, AUG 25 0258 man in SS mixing with Sudan open carrier. SEP 2 0346 SS interview; to good peaks. [Connelly-MA
- SUDAN Rebia, AUG 25 0314 Koranic AA vocal // 7200; fair, over Spain. [Connelly-MA]

1305 unID, AUG 25 0301  $\cdot$  sounded more like FF talk than usual SS; tough to extract from the low-

pitched het growl. [Connelly-MA] SPAIN, SEP 2 0404 - man & woman in SS, over others & growl. [Connelly - MA]

cities, including Tromso, were given - some were below 0 degrees C. Piano music followed. LOCAL-LIKE - \$9+50 (!) and easy on a cheap bedside radio. [Connelly - MA] anything on 1310 with end of top of hour ID into news. [Braun-DE] AUG 27 0235  $\cdot$  NN discussion with 2 announcers; very good SEP 1 2347  $\cdot$  EXCELLENT (59+40 peak) with "Eye news including an item about Iceland; EXCELLENT, way over Spain. Signal about equal to adjacent CKEC, 1320 and stronger than the mess on 1310. [Connelly-MA] AUG 27 0338 -NORWAY Kvitsoy, AUG 25 0300 - NN vocal, then talk by woman, then man in NN read of the Tiger" by Survivor. SEP 6 0412 - weather and temperatures for several Norwegian Music loud and clear. SEP 1 0321 - Clear with talk by man. SEP 3 0159 - Louder than

1332 ITALY Rome, SEP 2 0403 - piano jazz; poor to fair. [Connelly-MA]

1375 ST. PIERRE & MIQUELON, SEP 1 0322 - Clear with talk by man into music. Unusual to hear audio this good from this one even when signal is strong. Again on SEP 3 0204 with music

1404 unID, AUG 6 0348 - big het soon faded. [Connelly H MA]

FRANCE Roumoules, AUG 6 0408 - man in GG; poor, [Connelly\*H MA] SEP 2 0401 - hymn by choir; poor to fair. SEP 6 0416 - light jazz; fair. [Connelly-MA]

1485 SPAIN / unID's, AUG 25 0306 - SS talk over others in mess. [Connelly- MA]

1512 BELGIUM (t), AUG 6 0410 - pop rock music; fairly strong carrier level, but badly sliced by WSSH slop. [Connelly\*H MA

chanting in KB slop.[Braun-DE] SAUDI ARABIA Duba, AUG 24 0302 - male AA Koran vocal; good. AUG 25 0309 EXCELLENT (killing WWKB) - AA a cappella vocal. [Connelly-MA] SEP 1 0324 - AA

0400 - Beethoven's "Ode to Joy", then Vatican IS; LOUD, creaming WSAI. [Connelly-MA] VATICAN R. Vaticana, AUG 5 2353 - Light pop music, // 5882. [Burnell- NF] SEP 2 0359

GERMANY Mainflingen, SEP 6 0420 - woman in GG, then music. [Connelly - MA]

1602 MALTA Deutsche Welle, Cyclops, AUG 5 2349 - GG news and sports, // 6100. [Burnell-NF] SPAIN, SEP 2 0354 - SER SS news // 1575, 1584. [Connelly-MA]

1611 VATICAN / NORWAY, AUG 25 0311 - Vatican fair with Slavic- sounding talk by woman mixing with Rogaland, Norway utility CW station ID'ing as "LGB TLX". [Connelly-MA] VATICAN, SEP 2 0356 - bouncy music, then Slavic talk by man. SEP 6 0425 - EXCELLENT with Slavic talk by woman, an interlude of folk-style music, then Slavic talk by man

couple of weeks. Most of what I have logged are actually just hets, but some very clear audio and even a couple of new ones!" Dave speaks: "Have had some great conditions here for TA's and low band Latins the last [Connelly-MA]

#### PAN-AMERICAN DX

33 TURKS & CAICOS ISLANDS RVC, AUG 20 1006 - Poor, very weak with religious program.

650 COLOMBIA, RCN Antena Dos, AUG 29 0441-0515 - Weak in WSM null with music. Believe it or not, interference from CKOM (Saskatoon) at the time! [Renfrew-NY]

 $670\,$  CUBA R. Rebelde, Arroyo Arcnas, AUG 20 0350 - Poor with Rebelde 1D, music and talk, under VENEZUELA Caracas YVLL, AUG 6 0339 - Notirumbos SS news, doorbell chimes; good [Connelly\*H MA]

PUERTO RICO San Juan WIAC (t), AUG 7 0520 - presumably this with SS talk mentioning Puerto Rican cities, phone numbers; in bad mess with at least 2 other SS LA's and possible WMAQ. [SA\*MB]

COLOMBIA Barranquilla HJAJ, AUG 7 0511 - festive female vocal // HJJX, 770. [Connelly\*H

PP (ZYH446). CHCM nulled; CBL off. [Connelly\*H MA]

770 860 885 MONTSERRAT Plymouth 2JB, AUG 27 0153 - Lite music poor but clear. [BRAUN- DE] COLOMBIA Bogotá HJJX, AUG 7 0434 · "RCN Bogotá" ID under WABC. {Connelly\*H MA} VENEZUELA Valle de la Pascua YVYE, AUG 7 0500 - lengthy list of sponsors in Monagas and Pascua to clinch the ID. This is the unID I had reported on JUL 28 0202. [Connelly\*H MA] Caracas, then mention of the "festival San Lorenzo de Oro" and then mentions of Valle de la

COLOMBIA Bogotá HJCE, AUG 7 0533 - "en Bogotá!" mention, fast SS music; atop grow) of slightly-off-channel carriers. [Connelly\*H MA]

VENEZUELA Punto fijo YVNN, AUG 7 0538 - R. Punto Fijo ID blasting over others

1020 TURKS & CAICOS ISLANDS CCR, AUG 20 0407 - Excellent, man in EE and woman in SS that CCR had destroyed his chances for hearing Pirates baseball down in North Carolina doing a religious program, over KDKA. [SA\*MB] (It broke my dad's heart when he realized Jim) SEP 7 0240 - EE preacher; alone on channel. SS on 535 good also. [Connelly-MA]

HAITIAN AIRSPACE, R. Democrasee, AUG 12 0005 - I tuned in to 1035 kHz at 0005, and 1-2 minutes and then back in (airplane turning?); loop bearing seemed to vary slightly from SE to SW to SE. Interesting that the station can be heard in the USA, and be poorly heard in doesn't sound French - Creole or poor reception? About every 10 minutes, the signal faded for and I noted the logs of Terry and Ray and their IDs as R. Democratic and French language talk. ID sounded like "Rad - yo Demo - crass - see." S-off at 0100. DX News arrived today by male and female singers. Into ID and s-off announcement and off after 25-30 seconds of Three vocal selections were noted. At 0057, a drum selection began and was gradually joined seemed like there were different man and woman announcers, but I really can't be certain noted a man talking in what DIDN'T sound like French, so I presumed it was Creole. It Information below for possible station addresses - Jim) WBZ. [Myers-VA] SEP 1 0100 - FF talk clear in WBZ slop, gone at 0101. A signal appeared shortly thereafter, but don't know if it was them or a TA het. [Braun-DE] (See QSL DXSF for tip. [Hardester-NC] AUG 16 0040-0101 - Tip from DXN, in here very strong with FF talk by man and woman, music for one minute at 0044-0049, briefly at 0100. ID "Radio power increase...now to find a QSL route (or the C-140 base)! Thanks to Terry Krueger of has changed to French on one best and Creole on another. Also, there has to have been a hearing the station in (presumed) Creole and similar ID. I'm wondering if the programming Haiti. QRM from presumed WBZ. E-mail from an IRCA DXer in Wilmington, NC, rpts Took another listen to my tape and still sounds like Demo-crass-see, but the language Democratie, La Voix de Soleil" (sounded like to me) at 0100, gone at 0101, slight splash from

unID, AUG 7 0605 - non-stop soul music, no ID's; atop WHO. Not sure if domestic or LA /

Carıb. [Connelly\*H MA] (Florida, I think - Jim)

1070 VENEZUELA Maracaibo YVMA, AUG 7 0546 - Mundial Zulia ID getting by other LA's, CB.

OC, and CHOK. [Connelly\*H MA]

1100.3a COLOMBIA Barranquilla HJAT, AUG 7 0600 - Colombia & CARACOL mentions 1090 COLOMBIA Cucutá HJBC (t), AUG 7 0549 - possíble CARACOL mention under WBAL [Connelly\*H MA]

splitable from WWWE / others on 1100.0. [Connelly\*H MA]

1180 CUBA R. Rebelde, AUG 20 0330 - Good, mixing with Radio Tanno for a real mess. What does this frequency sound like in Cuba? [SA $^{2}$ MB] (Has anyone determined if this is a 590  $\times$  2 harmonic? - Jim)

CUBA R. Taino, Habana, AUG 20 0330 - R. Taino ID in EE, they announced they are on 24 hours a day. [SA\*MB]

COSTA RICA TITQ San Jose, AUG 13 0224-32 - LA pop music, ID in part as "Radio Cadena" poor with WOAI interference. [Trelford-JAM] COLOMBIA HJBH Santa Marta, JUL 23 0807-26 · LA pop music, ranchera, ID

"CARACOL, Colombia", poor. [Trelford-JAM]

1500 ECUADOR HCOY7 Yacumubi, JUL 13 0207-34 - LA pop music, ID as "Radio Yacamubi several times, fair. Trelford-JAM

BAHAMAS Nassau, AUG 13 0214 - Unusually strong, over WPTR and CHIN, with phone-in program, callers have West Indian accents. SIO 322 [Burnell-NF]

MEXICO XENU Nuevo Laredo, JUL 17 2240-2323 - LA pop, ranchera music, no positive JOs poor to fair, under unID SS station. [Trelford-JAM] (Seems early in the evening for Mexico

### TRANS-PACIFIC DX

NEW ZEALAND 1ZD Tauranga, AUG 15 1101 - Poor, with woman reading the news in

accented EE. New! [SA-MB]

around 1200 UTC (then I went to bed). The program consisted of 70s/80s music with talk in mainly unknown language, partly in EE. It sounded like Tagalog, but not that language. in March. The station faded in around 0600 UTC and was still audible in good condition editions of DXN, I received a tentative Marshall Islands station during my stay in Maui, HI Agency, Cable TV Guide, REE Hotel, etc. The phone number mentioned in the ad was 625-3250, that is very similar to 625-3240 of WSZO. I have already sent an inquiry to WSZO, no Though I could not get 100% ID, I could get an announcement as "the station for your information, the Super Station". I could also hear ads for the Marshall Islands Travel MARSHALL ISLANDS - Regarding the unID station reported in the July and August

answered yet, though. [Masamune\*HI]

the season is never over, a new TP in mid-August at home!"" Shaton speaks: "Hets also heard on 702, 738, 756, 774, and 828 between 1110-1117 UTC. Well

#### STATION NEWS

AUSTRALIA: 1503 3AK Melbourne, Victoria, changed its format to 'Beautiful music' on July 29 1278 3AW at Viewbank, situated 20km Nth/East of Melbourne. Power is said to be 2kw with outlet of 1116 kHz & has the callsign of 3BM. It seems 3BM is sharing the same tower as format. The Italian service owned by Peter Corso, has now moved to the new Melbourne plans of 20kw day & 5kw night. [Dave Onley on Internet via Jean Burnell] after being sold to Southern Cross Broadcasters. The station had been running an Italian

BELIZE: According to John Lloyd of the Computer Science Department at Clemson University, SC, his contacts in Belize say that Radio Belize has now stopped transmitting on MW, with no plans to resume. Radio Belize will now only go out on FM. {Media Network via Communication, JUL 1994 in Distance AUG 17]

BULGARIA: The MW transmitters with power more than 60 kW will stop night operations

COLOMBIA: Radiodifusora Nacional de Colombia has been heard off-frequency on 573 kHz. between 2100-0300, this due to reduction of power consumption. [Distance AUG 17 Luis Guerra Brandt via Manuel Rodríguez Lanza via Dave Onley DXA in NZDXT AUG

ENGLAND: Fortune 14-58, Manchester, new station went on the air JUN 20 with old BBC transmitter. [Vernon-AB]

FRANCE: France Inter has retuned its off channel transmitter in the last few days. The high power frequency of 1070kHz. [Steve Whitt in Medium Wave News, AUG 19 e-mail transmitter has returned to its usual frequency of 1071kHz from its temporary off channel

GERMANY: AFN Berlin 1107 closed JUL 15 after continuous operation since the end of WW II Subsequently it moved to Holzkirchen. [Steve Whitt, via e-mail] Distance Aug 17] RFE 1593 is not using Langenberg transmitter as far as I know. I received a QSL from RFE in June which states that before 15th June 94 the transmitter site was Munich. due to close AUG 1. [Wolfgang Buschel/World of Radio via Communication AUG 1994 in [Media Network via Communication AUG 1994 in Distance AUG 17] Radio Volga 261 was

HAITI/CLANDESTINE/INTERNATIONAL AIRSPACE: Radio Democratic 1035 might be from a detailed article in the most recent Monitoring Times, which I browsed through in a QSLable through the pro-Aristide Haitian Embassy, 2311 Massachusetts Ave, N.W., Washington DC 20008. The plane is operated by the Pennsyvania Air National Guard, based in Harrisburg PA, but the unit is operating out of the Norfolk area. This information is local book store. [Renfrew-NY]

HONDURAS: In DX News #27, Jean Burnell had a logging of La Voz de Centroamérica with an item that the police were checking "sedulas". Actually, the spelling is "cedulas" and those are national identification cards which theoretically all Hondurans must carry, although excluding those on diplomatic passports have to have cedulas, so I had one while there in peasants in the more remote rural areas rarely have them. Also, all resident foreigners,

the Peace Corps ... [Don Moore, e-mail]

HONDURAS: Per information from the Honduran internet mailing list, Honduras is undergoing a major energy crisis. Tegucigaloa, San Pedro Sula, plus a number of sizable towns and small cities receive their power from the El Cajon hydroelectric project north of Tegucigalpa. May to possible now, but it is unlikely those will be in the country and installed before the end of the on order from Mexico that can be placed at and produce electricity at a lower level than is problems are having some type of effect on broadcasting schedules. Some new turbines are is beyond the financial reach of most businesses and individuals. Assumedly the electricity businesses and wealthy families have gasoline generators, but owning and operating those served by El Cajón are on rolling blackouts, six hours on and six hours off. A lot of larger of Honduras without electricity. In the meantime to reduce water flow, the different areas present rate, the water level will be below the turbines by the end of September, leaving much of deforestation) and water levels are falling by several centimeters a day at El Cajon. At the November is normally the rainy season, but this year has been very dry (probably the result year, at the earliest. [Don Moore, e-mail]

MALTA: Deutsche Welle Relay 1557 will probably close down its operations for DW during 1995 via BE in ARC AUG 5] This action due to reduced amount of money received for the future operation of DW. [DW

MOROCCO: Medi 1 1044 is now here, ex 612; schedule 0500-0100 on 171, 1044, 9575 and FM [Andy Sennitt/WRTH/Media Network & BBCM via Communication AUG 1994 in Distance

> PALESTINE: VO Palestine 675 Jericho is now using this frequency with sign-on at 0500. They are no longer heard on their former frequency 702 kHz. [BBCM via BDXC (Internet, JUL 25) in non-commercial purposes, with credit to the source - Jim) ARC AUG 5] (Note: BBCM items are copyright, unless used by non-profit publications for

POLAND: There was an item on the Internet news that "the external service of Polish Radio has ceased broadcasting on medium wave 1503 kHz". [Andreas Volk in Germany on Internet via Jean Burnell]. (Domestic service in its place? - Jim)

SCOTLAND: BBC R. Solway 585 ceased broadcasting FEB 93. [Vernon-AB]

UNITED KINGDOM: Virgin Radio is now operating with reduced bandwidth to protect Holland FM on 1224 kHz. [Distance AUG 17]

VENZUELA: Strong rumors from the Ministry of Communications say that permission to broadcast on FM, MW and TV given by the Velazquez' administration (the former interim president) will be rejected without explanation by actual authorities. [Luis Guerra Brandt in The Radio News #22 via e-mail from Manuel Rodriguez Lanza]

#### CORRECTION

CEUTA item from last issue should be 1584, not 1548. [Steve Whitt via e-mail]

#### WHAT TIME IS IT?

obliged to follow the new rules. [Henk van der Laan via DSWCI in ARC AUG 5] meeting. This means adoption of the British/Irish system by the other European member states. September. This was decided by the Ministers of Transport of the European Union at their last For the years 1994, 95 and 96 they may still continue the old system, but from 1997 on they will be From 1997 onwards summer time [in Europe] will end at end of October instead of end of

#### QSL INFORMATION

BAHAMAS: ZNS1 1540 verified by letter from Wycliffe Miller, Senior Supervisor, Radio Programming, PO Box N-1347, Nassau, Bahamas. [Stephens in IRCA via NZDXT AUG 1994, also H. Weatherly in DXA AUG 1994]

COLOMBIA: HJOP 960 Magangue, address as in WRTH, v/s Alberto Suarez Lopez, Gerente [Trelford-JAM] Letter, QSL cards (for shortwave). Magangue is transmitter site, studios in Barranquilla.

DOMINICA: DBS 595 Roseau, address as in WRTH, telephone 809-484-3282/3, signed by Fred White, AG, Chief Tech. [Trelford-JAM]

PUERTO RICO: WOSO 1030, partial data letter, v/s Sergio Fernandez, Station Manager, in 52 days for \$1. Letter was dated June 23, so possibly more than 6 weeks in transit. [Burnell-NF]

ST. PIERRE ET MIQUELON: QSL letter and stickers sent in 33 days for 1 IRC, v/s Louis Langlois, BP 4227, F-97500 St Pierre et Miquelon. [M. Vizzoni (Italy) in Piay-DX #800]

SPAIN: RNE 1 Socuellamos, 972, partial data letter, v/s Fdo. Domingo Gonzalez Gonzalez (yes, 2 x Gonzalez!], Director of RNE in Galicia, in 75 days after f/up for 1992 report. [Burnell-NF]

VENEZUELA: R. Super Punto Fijo 940 with personal but non-specific letter from Roman Oswaldo SPAIN: R. Santander 1485, partial data letter -- 3 pages and very friendly -- explaining that they remember the tape I sent them 2 years ago, but they lost it in the move to new studios. Also sent sticker and program schedule, but the v/s is illegible [Burnell-NF]

#### CONTRIBUTORS

Edificio Lofar, Av. Ecuador, Punto Fijo, Edo Falcon. They mention having a 25 kW

Aguilar, Director, in 6 months for 2 IRCs (looks like it was sent surface mail). Address is

transmitter, but only run it at 20 kW. {Renfrew-NY]

Mark Connelly (WA1ION), B

(and the rest of the text, unfortunately, is roadkill on the information superhighway -pls.)



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## Formats

356 Jackman Avenue Fairfield, CT 06430-1728 Tony Fitzherbert

Changes in programming status; reported by listeners

station will retain some sports and the Sunday AM polka shows which are popular with the large 9/6, using the new AP all news radio net, with some local news from KCRG-TV, Channel 9. The Czech community there. Doug Beard writes from Springville, Iowa that KCRG-1600 was to go to an all news format on

format, operating from WIFI-1460's studios in nearby Florence, by the time you see this column business news. How the mighty has fallen with a resounding plop! And Al Holtz, of Conrail, in Philly, advises that WWJZ-640, Mt. Holly, N.J., will be back on the air with its big band and jazz WEEL-590, the former all sports outlet in Beantown, and Boston's first radio station will air A friend at Amtrak in Boston told me via phone that WHDH-850 was going all sports, and that

570 WVMI MS Biloxi Our column, mostly from the M Street Journal, follows....

WELO MS Tupelo WQXI GA Atlanta

940 960 KJSK NC Columbus KXVX OR Bend

1030 1010 WCST WV Berkeley Springs WFGL MA Fitchburg WBNN IN Union City

090 1080 9 WBZB NC Selma KCSI IA Red Oak KUKQ AZ Tempe

160 150 WKNR KY Florence KMXN CA Santa Rosa

WVNJ NJ Oakland

170 WCLN NC Clinton KUBR TX San Juan

240 WUOK MA West Yarmouth 1230 WKBO 220 WENC NC Whiteville WECY DE Seaford PA Harrisburg

WABK ME Gardner

WDEC GA Americus

1300

MXX U

FL Cocoa Beach

1340 1370 1340 1340 WTIK ID Nampa WFEB AL Sylacuaga KWNC WA Quincy WKOZ MS Kosciusko

ASN Sports.

WFOR MS Hattiesburg KVOP TX Plainview KTUC AZ Tucson WISK GA Americus

1400 1400 1390

1430 1450 1450 1400 1400 WBKC OH Painesville WXVW IN Jeffersonville KDWA MN Hastings WFMB IL Springheld KOSG AR Camden WMYS IN Indianapolis WBIZ WI Eau Claire

Country music//FM.

Talk and AC, latter//WZLQ at night.

- Brokered variety, you buy the time, you play what you

Religion and AP News SMN Standards.

Back on the air with religion

Country music//FM.

New station, farm news, country music.

SMN Country music//FM.

Talk and country music, drops gospel Spanish and religion.

Ex-WBND, now country music.

gospel at night (TF). More brokered variety, oldies when time is not sold, black

KVOL-1470, and two FM stations. Southern gospel.

Spanish contemporary Christian, // on KVOZ-890.

Business news. JSN Oldies

Drops CNN Headline News for "The Team" sports

70'sw oldies.

format, long running WFAU, on the air for over 50 years is WWI adult standards, takes WFAU-1340's long running

Country / / FM.

JSN Oldies, rhythm and blues

Sports 'The Team' News, talk, sports.

JSN Country music. Country music//FM

WWI Talk. All talk.

Tejano (Mexican) music.

SMN Real country music. Adult standards.

ESPN Sports ISN Oldies

ASN Sports.

 Soft adult contemporary, AP News at night AP News. DJS Oldaes.

WLMC SC Georgetown KKSC IA Stoux City WRGA GA Rome

Back on the air with Black gospel, jazz, and R & B.

Talk and sports.

ELIZABETHTOWN, PA 17822 939 RADIO ROAD

> 1490 WCSV TN Crossville WDUR NC Durham WHBD AL Selma

1510 1490 WPAK VA Farmville KGA WA Spokane

KAMX NM Albuquerque KPIX CA San Francisco

1560 KBEW MN Blue Earth

1570 WANR OH Warren 1560 KWCO OK Chickasha

1580 WANB PA Waynesburg

Adult standards and talk.

JSN OLdies

 Travel information. Oldres.

 News, talk "Supertalk" AC//FM.

Oldies. Talk, information, jazz//FM

PRN Talk.

Talk.

on the East Coast, we will know that we have caught KPIX (we should be so lucky!!!) season, do get your area format changes in to your Formats column, so when we hear jazz on 1550 All for now. Thanks to our contributors for their submissions. And, for the beginning of the DX Southern gospel.

Koundub News of the radio industry, of interest to DX ers Bethel, CT 06801-0073 P. O. Box 73 Pete Kemp (KZ1Z) PeteKZ1Z@AOL.com

news magazine show.

He also writes a

KNUS, was recently featured on a network

conservative talk show host on Denver's

stations. After ten years at KMPS he'll travel dollar lawsuit ... Sad news for Boston talker about how she gave up her third child for Brian Davis has moved from WBBM to WMVP will return to the west coast, where he built his proposed midnight to 6 AM time frame too restrictive ... Pat "Paraquat" Kelly has been shown the door at WNEW-FM and I guess the FCC's right to govern such but found the wanting a new morning driver ... The FCC has asked the Court of Appeals to reconsider its years ... Also looking for talent is KCMO, games, as Rick Weaver is retiring after 23 to Nostalgia on January 1 ... WIOD is looking days ... KBTZ changed formats from Spanish side kick Dr. George Brothers from their KIIS due to a no-compete clause ... Hollywood across time to KRPM, after a six month sit out personality Ichabod Crane is switching and battery on his wife. A court hearing is set Tom Leykis. He has been arrested for assault good one ... Rush Limbaugh's move from burn out? You make the call and I hope it's a adoption. Will these shock jock types ever Enquire and then talked with her listeners Nikki Reed recently appeared in the National as an evening sports-talk host ... WNIS talker of connecting in the Big Apple if he dropped reputation. His name alone is a throwback to for a replacement voice for the Dolphins Riverside. He has been joined by his former Hamilton is back on the air at KGGI in for early February ... Seattle's morning WCBM to WBAL has initiated a 3 million his nickname ... Ken Hamblin, a black the sixties. He may have had a better chance ndecency Ruling. The court acknowledged Greetings all ... In the land of the Loop

> 6 PM and other programming until they go to an All Traffic format. What? That's right, the dotted line to be heard on KMOX starting in 29 markets ... Gene Autry has sold KMPC to air in the spring ... Tom Joyner's new ABC syndicated Urban program is currently airing column for the Denver Post ... and dedicated mobile units. They will cover station has set up a reporting system, using have joined together to form the IMSA Radio Network ... WCNX has become Traffic-1150, season ... The International Motor Sports April 4th in the 11 am to 2 pm slot ... The favorite cowboys has owned the station since Cap Cities. One of the movies and TV's developing a Youth Talk Show, hopefully to Network, aimed at being a liberal alternative daily talk show on the Talk America Radio hopeful Jerry Brown has launched a two-hour Haven and Hartford. All traffic from 6 AM to the Connecticut counties of Middlesex, New CBs, cellular phones, scanners, video cameras Association (IMSA) and Paxson Broadcasting Phoenix Cardinals will be heard on KESZ next 1952 ... Rush Limbaugh has signed on the to Rush Limbaugh ... Former California Governor and Presidential ABC is currently

Broadcasting echo areas, or amateur radio packet, KZ1Z @ K1UOL.CT. So much for above, via CompuServe 72376,2557, Prodigy PFVK52D, InterNet PeteKZ1Z@AOL.COM, the bed at midnight. Talk about narrowcasting ...
If you would like to contribute to this FIDO system in the Shortwave, Ham or column, I may be reached at the address

#### International DX Achievements

Paul Swearingen phecenter@AOLcom 2840 SE Illinois Avenue Topeka, KS 66605-1427

International DX verie/taped totals listed by continents

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## Graveyard DX Totals

Bill Hale MTH12A@Prodigy.com 495 Creekview Drive Meridian, ID 83642-3241

Total stations logged on graveyard frequencies

## Date of Last Update: August 8, 1994

Mike Hawk Omaha, NE Sharon Skowera Enfield, CT	Neil Dickerson Shaptown, MD Dave Schmidt New Castle, DE Bill Hardy Aberdeen, WA Marc DeLorenzo Hyannis, MA Pick Carr Flormington II &	Gary Atkms Lousville, Ky Frank Merrill Various Locations Geoffrey Parrish Memphis, TN New York Charles Are	Don Kaskey Sacramento, CA Esa Hänninen Various Locations, Finland	Laurie Boyer Invercargill & Dunedin, NZ*	Chris Lucas Various Locations	John Wilkins West Des Momes, IA Rich Eddie St. Louis, MO	Roy Millar Marysville, WA	Ron Musco Hartford, CT	Mike Csorbay Canneld, ON Shawn Axelrod Winnipeg, MB	John Kromka Montville, NJ	Dan Phillips Jacksonville, AL	Bruce Reynolds Warrensburg, OH	Andy Rugg Nuns' Island, PQ	Tim Kerfoot Metro Toronto, ON	Jeff Falconer Clinton, ON	loe Kureth Uniontown, MD	Ralph Sperry Fairfield, CT		Ernie Wesolowski Omaha, NE	Don Treiford Various Locations, ON*	Don Lynch Various Locations, MA	Carl Debeistern Omana & Lincoln, NE Overland Park, KS	Steve Francis Alcoa, TN	Roy Millar Bellevue, WA	Frank Wheeler Erie, PA	Hank Holbrook Chevy Chase, MD*	Bob Knox Newton, NI	Don Kaskey Galva, IA Charles Reh Leamington, ON	Stan Morss Boxford, MA	DXer and Location(s) Gene Allen Vallejo, CA
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Shawn Axelrod Swan River, MB	Dale Park Various Locations, HI	Dale Park Irvine, CA	Don Trelford Runaway Bay, JMC	Shawn Axelrod Edmonton, AB	Don Treiford St. Ann's, JMC	Perry Crabill Winchester, VA	Doug Smith Madison, WI	Shawn Axelrod Orlando, FL	Morris Sorensen Kemptville, ON	Richard Turner N. Yarmouth, MA	Sharon Waterman Southwick, MA	Les Carpenter Sandy, UT	Ron Rychalsky Bridgeport, CT	Paul Swearingen Moran, KS	Don Davis Warner Robins, GA	Paul Mount Nelsonville, OH
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### The Pittsburgh Post-Gazette takes world view

By Steve Creedy
Post-Gazette Staff whiter -via John Malicky

The ronce is status, measured and very, vary British It ozes from the small AM radio like bather over hot toast. This is the BBC World Service in London, it amountees, servicely masware of the surprise that statement may be generating on another continent.

The BBC? In London? On a portable AM radio in Phitsburgh?

Absolutely, old beam. But it's not some freak signal estimates a content of the Allendon.

skipping screen the Atlanta.

What you're really iscenning to is WWCS in Canonscious. Wire after station staffed around the clock by just four the people and touting itself as "the Station of Netdons." WWCS was Canonships first rade station and its certainly counts these days as its most unusual.

And if you're surprised to bear the BBC, by unning in after 11 am when WWCS transmits four hours of programming from the Arab Network of America — in Arabic.

WWCS is part of a small chain of stations these of the Derivit and furn by Serthain businessman Sina Brach. Birach bought WWCS in 1982 and converted it from an all classical format to an edectic mix of international programming. And edectics the word, After the British and the Arab WWCS puts out an hour of trich and Celtic music, an Italian program, two bours of word music, some joz, the odd polica and a few German beer definiting sungs. It rewests to classical music after midnight.

It's an oddhall must hat seems commercially unvalue, but it has its indowers, says WWCS operations so—manager fan McGrath.

The station doesn't sell advertisements in the normal sense and doesn't even have a salesperson. It troders its time by selling time slots to people who put tagether their own broadcast packages

McGrath says revenue from the Maryland-based Arab network, which has a package doal to air its programs in Detroit and Pittsburgh covers the modest costs of ruzming the Canonishurg station.

Canonishurg station,

McGrath isn't entirely sure how many people in Pittsburgh isn't entirely sure sowed of Arabic programming—he suspects it may be more popular in Detroit—but says the station gets a decent audience for the BBC.

I remember when we had a problem for a couple of days with the BBC satellite that we were getting warked out," he says. "The phone was ringing off the hook."



People also call in about the Celtic music on the Irish Cuffee House program and what McCrath cells "the big melting pot of world music." "I really get a lot of positive response. It's working for us,"

he says.

Minach began the format in Detroit and says his station there broadcasts in 24 different languages, often switching a from one language to another on an houry backs. In addition to the two existing stations, he is seeking approval to add two stations in Maryland to the chain.

He says he introduced the format in 1984 for that most the says he introduced the format in 1984 for that most the stations in Maryland to the chain.

He started with a small daytime format but gradually increased the transmission power and began operating on a "I had an idea that it could really be very interesting and pick up a lot of listenership," he says.

I'l and midea that it could really be very interesting and pick up a lot of listenership, be says.

I'l and midea that it could really be very interesting and pick up a lot of listenership, be says.

I'l and midea that it could really be very interesting and pick up a lot. Of listenership, be says.

I'l and wely Canonaburg? Birach says he lised WWCS 5.40 h. And frequency and the station's angle, lits largest sudience, he says, is "anytoopt that has authered listening to the BBC."

In fact, WWCS gets its message across to a fairly wide real it receives as far as Columbia and Youngstown, Ohio, Parkershirg, W. Va., and Johnstown. Work is under way to replace to station's transmission towers, a move expected to improve its asgued stranger.

We're a small facility but we't ty to put a big tillboard up on the ratio out there, if you know what I mean," McGrath says.

**Broadcasters 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. DX'ing, how the NRC was formed, and the Importance of QSL's to DX'ers four different tri-fold guides for use with reception reports explaining

Totals are for Before/After 1960 Unreported

## Geomagnetic Phil Bytheway bytheway@ATE.com Summary

Seattle, WA 98117-2334 9705 Mary NW

Higb "A" values indicate possible auroral conditions

Geomagnetic Summary June 4 1994 through July 28 1994 Soft copies of this report available through phil\_bytheway@atk.com

maf - major flareSA- Solar Activity GEO - Geomagnetic activitypea - polar cap absorption

mas - major stormspe - satellite proton event mis - minor stormss- severe storm

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## General announcement - deadline changes

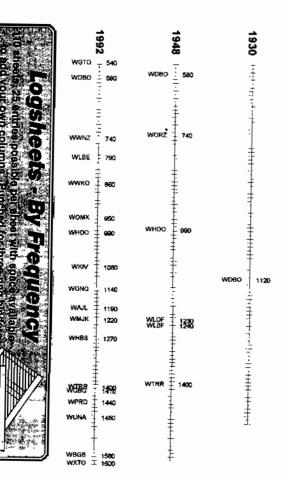
As a special project, I am going to compile an audio tape of TIS messages from all over the US and Canada. I can accept either reel-to-reel or cassette tapes, and the announcement should be readable (not faint DX, although clear DX is OK). Please include call (if known), location, frequency, date and time with each submittal.

My deadline is November 1 1994. Send tapes to: Phil Bytheway, 9705 Mary NW, Seattle, WA 98117. for at least two sides of a C60, and copies of the final product will be available for a nominal charge The length of the final product will depend on how many submissions I get... but I am hoping

# Now and Then John D. Bowker

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

## ORLANDO MARKET



*Vetworks* 

10314 S. Oakley

Chicago, IL 60643-2409

Network listings for team sports stations

me network lists, flagship lists, and announcer lists that you may have. Thanks. Here is the first NFL information that I have - one network list (and no announcers). Please send

### **Buffalo Bills** 1994 via Greg Coniglio (via Bill Hale/Internet)

NRC E-Mail	620 WHEN-NY 680 WINR-NY 810 WGY -NY * 930 WBEN-NY 1140 WCJW-NY
Addresses, 7	1160 WPIE-NY 1180 WHAM-NY 1240 WATN-NY WJTN-NY 1260 WRIE-PA
NRC E-Mail Addresses, #2 compiled by Paul Swearingen (PLBCBDXER@AOL co	1330 WFWC-NY 1366 KNNS-AZ 1380 WABH-NY 1390 WKDR-VT 1410 WDOE-NY
Paul Swearingen (Ph	1410 WELM-NY 1420 WACK-NY 1450 WODZ-NY 93.3 WWSE-NY
m (PisBCBDXER@AOL co	95.7 WPIG-NY 95.9 WFLR-NY 96.1 WODZ-N

Steven Alexsy please send a Musing to Dave Schmidt printed in DXN. If your address changes or if update of that list and will be the <u>last</u> one DX'ers' E-mail addresses. The following is an you need to correct an error or add an address, Several months ago, we printed a list of steven.alexsy@HAL9K.com

**Gerry Bishop** 73171,2265@compuserve.com alexsy@gatecom.com GerryB4991

Mark Connelly Alex Calabrese Phil Bytheway Enc Buenemai Dave Braun MarkWAIION@AOL.com DPHT10A@prodigy.com EUTYCHUS@AOL.com drkx13a@prodigy.com ALEX08310@aol.com bytheway@ATK.com

Gary Emenitove Rick Dau Richard D'Angelo rdau@blue.weeg.uiowa.edu r.dangelo3@genie.geis.com

BC@lexicon.com

74730.3724@compuserve.com

B19141%ANLVM.BITNET@UICVM.UIC.EDU Barry S. Finkel Ed Gehringer etg@ncsu.edu

George C. Greene

Brent Taylor Paul Swearingen

btaylor@mailserv.nbnet.nb.ca

plsBCBDXER@AOL.com

Bill Hardy 74367.3305@CompuServe.com 73201.2263@CompuServe.com MTFH12A@prodigy.com

Wayne Heinen Mark Hattam mark@dxradio.demon.co.uk FMFT21A@prodigy.com FMFT21B@prodigy.com nrclog@filebank.com (same as Bill, except)

> At Work: Stephen H. Ponder Don Moore Earl Higgins Ron Musco Paul Mount Ken MacHarg Pete Kemp MOORE@ACC.MCREST.EDU kmacharg@mhs.hcjb.com.ec MUSCORJ@hsdwl.utc.com SWKX26B@prodigy.com Higgins@amse.mde.com PeteKZ1Z@AOL.com mj@icbr.ifas.ufl.edu

At Home: Richard E. Robinson im Rentrew Tom Reiser Al Prete sponder%jscdi@jesnx.jsc.nasa.gov shp5511@tm0003.jsc.nasa.gov 71212.1644@compuserve.com nbarshp@jscprofs.nasa.gov JimRenfrew@AOL.com n5wbishp@blkbox.com ReiserT@AOL.com sponderl@aol.com

Gray Scrimgeour rerobins@mosaic.uncc.edu

70614.3561@CompuServe.COM 71533.657@AOL.com Guitrpickr@AOL.com

1240 WOMT-WI

1230 WHBY-WI 050 WLIP-WI [010 WSPQ-W]

1260 WXCE-WI

WEKZ-WI IM-SIMM WJMC-WJ MOBI-WI WCLO-WI

73300.3534@compuserve.comBruce Winklemar Thomas H. White Tom Walsh Fred Vobbe: Fred.vobbe@f16.n234.21.Fidonet.org whitetho@med.unc.edu bwink@galstar.com twalsh@gte.com

> 290 WKLJ-WI 1280 WGLR-WI 1270 WRJC-WI

Niel Wolfish 76646.2231@compuserve.com

# DX'ers TECHNICAL GUIDE

IRCA Bookstore - 9705 Mary Ave. NW - Seattle, WA 98117. IRCA members, \$6.50 for non-members (overseas airmail add \$2.50). Order your copy today from their construction), how to build a beverage and phasing unit, and much more. Only \$5.50 for NRC to improve their performance), how audio filters and loop antennas can improve DX (and hims on Now in its 2nd edition, this 120-page book answers questions on receiver and antenna theory (how

#### College Sports Vetworks

333 Church St., #14 Rick Dau rdau@blue.weeg.uiowa.edu

lowa City, IA 52245-1912

Network listings for team sports stations

IOWA HAWKEYES (Palmer Sports Network) Jim Zabel, Ed Podolak 800 KXIC-IA KICD-IA 370 KDTH-IA

stations that will be carrying major college teams this fall.

Hi, everyone! Football season is upon us, and once again I am providing for you affiliate lists of

1220 KJAN-1A 1040 WHO -IA 240 KBIZ-IA 1180 KOIL-NE 1360 KSCJ-IA 1330 KWLO-IA 1300 KGLO-IA 1270 KWEB-MN 1420 WOC -IA 1570 KWQC-IA 1490 KBUR-IA 1400 KVFD-IA 107.1 KTLR-TX 103.9 KUOO-IA 1600 KCRG-IA 100.5 KDEC-IA

IOWA HAWKEYES (Iowa Sports Network) Frosty Mitchell, Tim Boyle, Bob Evans, Kevin Dolan

1270 WKBF-IL 1330 WRAM-II 1310 KDLS-1A 1230 KWSN-SD 1070 KILR-IA AI-TMW 009 1540 KXEL-IA 99.5 KKMA-IA IOZ.7 KYTC-IA 1510 KJFG-IA 1480 WTDY-WJ 1410 KGRN-IA 1400 KCOG-IA 1380 KCII-IA

97.7 WMOI-IL 98.3 KEMB-IA 95.9 KILR-IA KHBT-IA KCILIA 95.3 KIFG-IA

GREATER

## WISCONSIN BADGERS Brian Manthey, Randy Wright

910 WDOR-WI 810 WDMP-WJ 960 WTCH-W) 800 WDUX-WI 710 WDSM-WJ 620 WTMJ-WI 550 WSAU-WI 1400 WATW-WI 380 WBEL-IL 360 WVRQ-WJ 1350 WPDR-WJ 1330 WHBL-WI 1320 WFHR-W) 1310 WIBA-W 94.9 WOLX-WI 92.1 WRLS-WI 105.3 WRLO-WI 101.5 WJNR-MI 102.3 WISS-WI

CFGO RADIO LIMITED

1450 KFIZ-WI 1440 WNFL-WI WRCO-W WDLB-WI WRDB-WI WBIZ-WI

package wrapping, and more Order from NRC Publications – NY orders, please add sales tax. letters, cuts string, poly bags Sturdy yellow plastic ... opens

1590 WTQQ-WI 1570 WKBH-WI 1550 WEVR-WI 1490 WIGM-WI 1470 WBKV-WI



sure to send me any lists (lists, not just flagship station info). That's it for now. Thanks go out to the UI Sports Information Dept. and to IRCA's Tim Noonan. Be



2nd ed \$8.00, postpaid.

Tion Bill Hale this book of station location to the station location of the station location of the station location with the station location locati

f. NY orders, please add sales tax.

#### Station Profile

Tony Fitzherbert
356 Jackman Avenue
Fairfield, CT 06430-1728

A special feature about a unique station

STATION PROFILE - WOPA - 1200, " La WOPA", Chicago.



A new 10,000 watt radio station signing on the air in America's third largest city as recently as 1990? Yes...on January 1, 1990, WOPA - 1200 began operations as Chicago's newest radio station, on the area's last available AM or FM frequency, with music and news for the Windy City's population of over a million residents of Mexican heritage.

WOPA arose from an idea in the mid 1980's, as FCC regulations on assignment of clear channel frequencies was relaxed. 1200 khz praviously belonged to WOAI in San Antonio and a handfull of daytime stations. Chicago investors, realizing that the Mexican market lacked a full service radio voice, applied for an unlimited license on 1200 khz, with 10 kW days and 2500 watts at night, with the call sign WMXA (for Mexican).

WMXA's first aspiring owner, facing unexpected expenses, agreed to sell the construction permit to the Marx family in 1989. The Marx family owned the former soo Line railroad freight office building at 509 west Rossevelt Road, on the edge of the huge Amtrak service facility and storage yards. They began construction of studios for their expected new acquisition on the third floor of the old freight house. However, the deal collapsed as the Marxes could not finance the station.

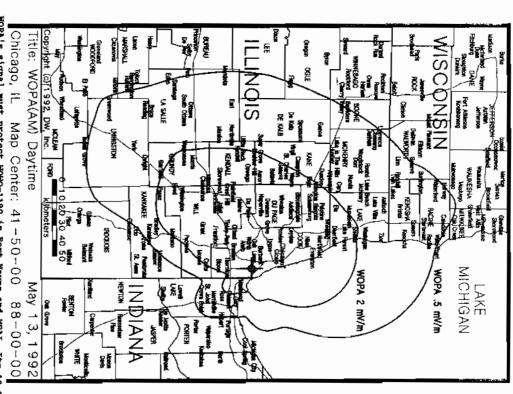
Joseph Antello, a former WGN staffer, obtained the construction permit and got the station on the air on New Year's Day, 1990, with a hand picked staff, and the planned Mexican music format.

The WMXA call was replaced by a well known call sign - WOPA. For decades, WOPA, WOPA was the call for a station at 1490 khz, atop the Oak Park Arms, in the near west suburb of Oak Park. WOPA occupied the penthouse of the former posh Oak Park Arms Hotel. However, the WOPA call became available for the new station, when 1490's owners were granted the call WBMX. The owners of 1200 wanted the call for name recognition, and the call presently has no meaning.

WOPA initially offered a Mexican format, but its owners, faced with competition from three established Chicago radio stations, adjusted the format to cover a wider Hispanic audience, WOPA face formidable challenges from WIND-560, a former renowned rock station, WTAQ-1300, once a small suburban LaGrange station, and WOJO-FM, who are scrambling for ratings and the sale of air time to the Mexican population. To appeal to a wider audience, WOPA has fine tuned its latin music farmat to include Fuerto Rican, Cuban, and other Spanish groups, all found in Chicago's vast ethnic melting pot. Menagement bills "La WOPA" as the only contemporary international Spanish language music radio station in Chicago. WTAQ and WIND air primarily ranchero music, which is essentially Mexican country music with an accordion of guitar base. WOJO broadcasts a mix of bonda, renchero, and nortena - all regional Mexican music.

WOPA targets a rapidly growing 18 to 34 year old Hispanic population, which includes over 350,000 Chicagoans. Other than music, WoPA nightly broadcasts the popular "Issues of the Community", at 5:00pm. This program is an hour's interview with prominent personalities and news makers in the Hispanic community. WOPA airs world and national news from the Spanish Information System, at the top of each hour, and local news is heard through morning drive time and at moon. WOPA's main staple is music, all live assisted, 24 hours daily. No silent period is scheduled. An hour of religion and some religious music is heard on Sunday mornings.

WOPA's studios and offices today occupy the top floor of the ancient freight office building. The control room, a news room, a production studio, plus the offices cover the entire floor. Sharing the sooty old structure are a printer on the second floor, and a flee market occupies the ground floor on Saturdays.



WOPA's signal must protect WOWO-1190 in Fort Wayne and WOAI. Its 10,000 watt day and 1000 watt night signal - the planned 2500 watt night signal could not be proofed, requiring a reduction to 1000 watts - originates from a nine tower array at 103rd Street and the Dan Ryan Expressway, ten miles southeast of the famed Loop. The unique antenna system consists of two rows of four guyed, 206 foot high towers, and a ninth towar in the center of the array. The signal is directional into Misconsin, toward Madison. Virtually no signal goes south or east. The 1000 watt night signal nicely covers Chicago, and extends out into the suburbs to Elgin, Palatine, and Evanston.

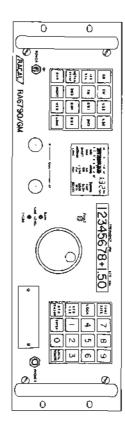
WOPA employs 28 full and part time personnel. It has passed through several owners in its brief history. Joseph Antello served as president for the first six months of the station's existence, owning 52 % of the shares. Arthur P. Velazquez, his partner, bought out Antello's interests and want into partnership with broadcasting consultant Edward Panning, who today is WOPA's general manager

WOPA is very visible in Chicago's Spanish community. Many Chicagoland Hispanic - owned businesses engage MOPA for remote broadcasts, complete with DJ and music, to promote their establishments - such as Armando's Supermarket, numerous auto dealerships, and other organizations promoting attendance at the "big sale". WOPA also appears at many Hispanic community festivities including the Puerto Rican week celebration of the Fiesta de Sol. This happening annually attracts over a million local residents drawn by free food and entertainment. Another major day for WOPA and the Mexican community is Mexican Independence Day, each September.

WOPA, in its less than five years, has been enthusiastically embraced by chicago's Spanish residents, and is a respected member of the midwest's largest Hispanic community.

The editor thanks Edward Fanning, WOPA General Manager, for his willingness to assist in the preparation of this Station Profile. ecause of his help, the NRC may enjoy learning about his interesting radio station.

# RA6790/GM: A Brief Review ... by Dallas Lankford



About six months ago the U.S. malitary disposed of several hundred RACAL RAG199/GM (R-2174(P)/URR) receivers through surplus bids, and subsequently several surplus equipment sellers have offered them for about \$1500 (with filters, checked for operation). The R-2174(P)/URR is identical to the RA6799/GM except that the R-2174(P)/URR was equipped with plug-in crystal filters instead of methanical filters. There was some variation in filter line-up figm one to another of these surplus 6790's, apparently because some of these receivers released for surplus bids were missing one or more filters, see, for example, Fair Radio's Yall 1993 Catalog Supplement. Evidently many also required repair amd/or replacement of some parcs.

The 6790 I received contained five filters, 0.4, 3.24, and 6.8 RHz nominal symmetric bandpass filters, and 2.7 KHz USB and 2.7 KHz LSB filters, all of them the large plug-in crystal filter type. Apparently 1.2 KHz and 16 KHz BW filters were also installed in some 6790s. The bandwidths mentioned above are nominal. Por example, the measured bandwidths for the 3.24 KHz and 6.8 KHz filters in the 6790 I tested were 3.48/5.00 KHz and 8.01/13.5 KHz at -6/-60 dB respectively. The 3.24 filter is excellent for DXing, but the 6.8 filter is a bit wide even for SW pleasure listening.

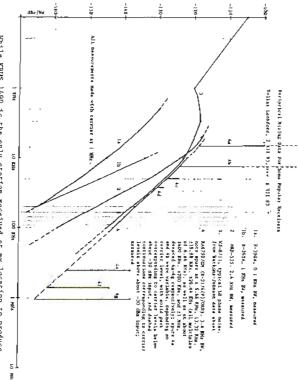
A detailed review of the RA6/90/GM (R-2174(p))(HRM) is contained in the 1982 KRTH, so this review will necessarily be brief. The 6790 tunes 0.500000 to 29.99999 MHz with resolution and readout to the nearest hz in the finest (slowest) tuning rate. Tuning rate resolutions are 1 Hz, 30 Hz, and 1 KHz, selectable by a front panel push button. The 6790 does not tune below 0.500000 MHz contrary to a statement in the 82 KHTML. There is a "trick" you can use co tune below 0.500000 MHz. For example, in the 1 KHz tuning rate, press ENTER then 01310, then press SWTER again and 00. The receiver will be tuned to 310 KHz, but if you move the main tuning knob ever so slightly, the 6790 returns to the 0.5-30 MHz range.

The 6790 is still in production, and spare parts and the manual are available from RACAL. You should phone or write for prices and parts availability: RACAL Communications, Inc., 5 Research Place, Rockville, MD 20850, (301)948-4420.

These surplus 6790s ddd not Include the optional Independent sideband module (ISB PC board, assembly Ab), or the remote control module (serial asynchronous remote interface PC board, assembly ASA)). The 6790 manual also

mentions other options which are available: improved internal frequency standard 23 parts in 1,000,000,000, an RF amplifier for greater receiver sensitivity, extended low frequency tuning range to 10 KHz, and a broadband IP output.

The following performance parameters were measured for the 67901 tested. AM sensitivity for the 3.24 filter for a 10 dB S+N/N using 400 Hz modulation at 50% modulation varied between 0.7 and 1.7 microvolts. The 3rd order intercept at 100 KHz or greater spacing was +30.5 dBm. The 2nd order intercept was +56.5 dBm. Both of these values are, of course, outstanding for a receiver with no from end preselection. The 3rd order intercept was phase noise limited at 20 KHz spacing. The weak point of the 6790 is eight reciprocal mixing spurs within ±30 KHz of the tuning frequency. A graph of the 6790 reciprocal mixing characteristics is given below together with reciprocal mixing characteristics is given below together with reciprocal mixing characteristics of an R-390A, NRD-525, and WJ-871L. The four close-in reciprocal mixing spurs at about 5.66 KHz and ±13.2 KHz can be heard on-line-air if a nearby signal is strong enough. For example, I have one super-local Mixing spurs at about 5.66 KHz and ±13.2 KHz can be heard on-line-air fill intensity into my location about one mile away from the KRUS antenna. This causes KRUS to appear not only at its normal 1490 KHz, but also at 1477 KHz, 1480 KHz, 1496 KHz, and 1503 KHZ. This is not exacely what one would anticipate from a \$20,000 professional grade receiver. Neither my venerable boat-anchor R-390A nor my lightweight NRD-525 produce any such apprious responses.



While KRUS 1490 is the only station received at my location to produce multiple spurious receptions of a signal, urban listeners with multiple superlocals would likely observe multiple occurrences of this phenomena. The close-in reciprocal mixing spurs at 16.66 KHz (approximately) produce two other unusual phenomena. When a strong signal is tuned in a wide bandwidth (say, 12 KHz or greater), a weak but noticeable 6660 Hz het is heard. And when tuning splits at night (when signal strenths are etronger) in the MV band, this same 6660 Hz het is often heard (in narrow bandwidths). Again, this is not exactly what one would expect for a \$20,000 professional grade receiver, and matther my R-390A nor my NRD-525, nor any other receiver I have ever used, has produced any such spurious responses. The 6660 Hz (approximately) hets due to the 16.66 KHz spurs are not strong (except in the case of KRUS (1400), and might not be noticed by many listeners. It is very unlikely that they would cause any serious problems when DXing spiles. Also, the KRUS (140 Spurs can be completely eliminated by inserting a 5:1 (14 dB) attenuator between the 6790 and the antenna.

The 6790 is dual conversion, with 40.455 MHz ist IF, and 455 KHz 2nd IF. There are two crystal filters, separated by an amplifier, in the lat IF, one marked 20 KHz BW, and the other marked 25 KHz BW. The measured combined BW of these two filters in the 6790 I tested was 32 KHz at -6d8 and 70 KHz at -6d dB. This exteremely wide 6W of the 40.455 MHz IF filters is casally made available by jumping the input and output of the next vacant filter

It is straightforward to add additional or optional 455 RBz filters to a 6790, though the consuming to fabricate the required homebrewed PC board a 6790, though the consuming to fabricate the required homebrewed PC board plug-in adapter. At present I am using 2.5 KBz and 6.0 KBz SB Collins torsion sechanical filters in addition to the regular filters in the 6790 I have tested. The torsion filters have momental tess loss than the standard plug-in crystal filters, so to equalize signal throughput I used a resistor divider network; filters, so to equalize signal throughput I used a resistor divider network; see the schematic below. These filters, the 6.0 BW (Collins part # 526-8635-010), see the schematic below.

Collins Torsion Filter

out

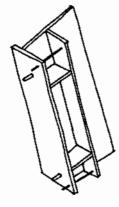
30 R1 R2

and

and the 2.5 BW (Collins part \$ 526-8635-0; are speced at 5.5 KHz min/ 11 KHz max and 2.5 KHz ± 0.1 KHz/ 5.5 KHz max for -6/-60 dB respectively, and measured 5.88/10.19 and 2.55/5.24 respectively. They are available for \$76.81 sach from Rockwall International, Filter Froducts, 2990 Airway Avenue, Costa Keaa, CA \$2626. (714)641-5311; content

gnd Products, 2990 Airway Avenue, Costa Mesa, CA 92626, (24)44-5311; contact Bob Johnson, Principal Engineer for current price, availability, and ordering information. These are wonderful little filters, about 1.24 inch long by 0.47 inch wide by 0.23 inch high with pins about 0.17 inch long. They are much smaller; much higher performance, and less costly than previous Collins much seases of 100 dB. The closest spurs to 455 KHz are typically at about in excess of 100 dB. The closest spurs to 455 KHz are typically at about 480 KHz and are about 82 dB down, and so all of the torsion filter spurs would be reduced to below 100 dB down by the 40.455 MHz crystal filters of the 6790. For the two Collins torsion filters discussed above, I used RI = 820 ohms and RZ = 1200 ohms to equalize signal throughput (and to terminate the filters in the required 2000 ohm load resistance). The general rule is to select RI and RZ so that RI + RZ = 2000 ohms (approximately) and signal throughput is about equal to the other 6790 filters.

Similarly, Collins FD type filters can also be used. Of course, the resonating capacitors will not be 30 pF as used for the torsion filters. And various kinds of ceramic filters can be used; no resonating capacitors are required for ceramic filters, and Rl + R2 should equal the load resistance of the ceramic filter used (2000 obns for oone, 1500 obns for others, and perhaps still other values for still others). For example, I tried an FD455FD58 filter with 1100 pF resonating capacitors which worked fine, except the bandwidth was a bit wider than the 6.0 torsion filter. And as a wideband option I made an adapter using a Murata CFL455G3 which had a measured BW of 13/19 at -6/-60 db.

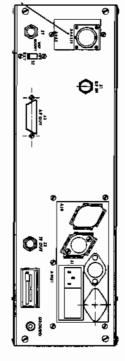


The general features of the plug-in filter adapter PC boards I fabricated are shown at left. The lenght is 3 inches, height 2 inches, and width 15/16 inches. The bottom of the bottom PC board is the filterglass side. The small plus are \$22 tinned (with the rough cut ends tinned with solder and smoothed with fine steel wool). The large plus were octal plug pins, obtained by breaking apart octal plugs (like the plugs used to plug in old tobe type Q-multipliers).

The large vertical PC board, and the two small PC boards are not exched, and the upper side of the base PC board is exched only at the corners where the two smaller "pins" puss up to the upper PC board (which holds the filter, resonating capacitors, if any, and resistors). The positions of the small and large pins on the base PC board are obtained by careful measurement of the 6790 plug-in filter sockets. The individual PC boards were soldered together slong their seems.

As mentioned above, when new or alternate filters are plugged into the 6790, the BITE program is run, and it automatically sorts the filters into increasing BN and sasigns them to the BI-B5 buttons on the front panel. In addition, the measured 3 dB BN is displayed in the square LCD when any of Bl-B5 are selected. The choice of 5 filters, independent of mode, plus USB and LSB filters, is one of the nice features of the 6790. There are 3 AGC release times selectable from the front panel, SIGNT (fast) MED, and LONG (slow), with release times of about 30 msecs, 200 msecs, and 3.75 secs tempercively. The MED and LONG AGC positions are "hang" AGC, which seems superfor to other AGCs I have used. In MAN mode the AGC release times are still operable, but the AGC threshold is set by the front panel (manual) IF gain control. All of the 5 non-SSB filters (B1-B5) can be used for SSB by

using CW mode and the VAR BFO control, which permits the BFO to be set 48 KHz from center frequency. The detector in AM mode is a synchronous detector, which perhaps accounts for the very good audio quality of the 6790 in AM mode. As with other solid state receivers, there is some noticeable hiss on weak signals in the narrower bandwidths. The AM synchronous detector does not lose lock in fedges, or become confused (as with some other well-known receivers). Its operation is completely transparent to the user. The only anomaly I can attribute to the AM synchronous detector is that it makes the -60 dB filter BMs seem wider than they actually are when filter BMs are measured using AM mode (or else some filter leakage is caused by AM mode, which seems unlikely).



The rear panel conteding a 455 KHz IF output (BMC connector, 50 ohms impedance, -10 dBm level nominal). Also on the rear panel is a 25 pin D type connector for local audio output (I watt into 8 ohms, distortion less than 3% at 500 mM, frequency response 100 Hz to 16 KHz at 3 dB points), two line audio outputs (operable only with 158 option), and AGC diversity connections. The matterns input is type N female. I use a UG-201A/U connector adapter (N male to BNC female) to convert to BNC for quicker antenna connection and disconnection. The Ra6790/GH has no front end protection diodes or other type of front end protection, you should use some kind of front end protection device for the 6790, such as the LA-1B with BNC connectors which can be mounted inside the 6790 between the BNC female output of the antenna diput connector and the BNC male connector with miniature coax which coan between the BNC adle connector with miniature coax which connects apput connector and the BNC male connector with miniature coax which connects to the 30 MHz low pass filter.

The 6790 maintenance manual, RAGAL part # 84249, is about 250 pages plus about 35 pages of large fold-out schematics. Unfortunately, the schematics are incomplete, missing the first mixer circuit (said to be quad passive FETs, Siliconix SD215DE). And there is little information in the manual about aligning transformers and trimmer capacitors, or about adjusting various potientiometers. If you are familiar with the thoroughness and completeness of the R-390A maintenance manuals, you will find the 6790 manual disappointing. Similarly, the REJ-35 maintenance manual, though not as good as the R-390A manuals with the form annuals.

At first I considered the 6790 close-in reciprocal mixing spurs to be an indication of a problem with the 6790 LDs or other circuits. But morther 6790 user I contacted has similar, if not identical, reciprocal mixing spurs. And one of my sources told me that an FCC monitoring station in Florida had similar spurs in their RACAL receivers. So the present evidence indicates that the close-in spurs at moltiples of 6.66 kHz (approximately) are normal for the 6790. One problem did develop with the 6790 I tested, After being left turned off for several months, the 6790 cease up into the HITE routine and then locked up when turned oo. This problem was cured by replacing the nickel cadmium volatile memory back-up battery. Curiously, the 6790 manual does not discuss this potential fault, or replacement of the battery. The battery requires about 72 hours to reach a full charge, and will keep volatile memory slive for several months after the 5790 is burned off. Replacement of this battery should be a regular maintenance item (about one replacement every four years). If/when you replace the battery, resistor 89 270 ohms should be checked (in case the battery falled by shorting and drew excessive current chrough the resistor, either burning it open or changing its value). For higher reliability, the battery may be replaced mongoften than once every four years. Hospituls, for example, replaced rechargeable back-up batteries in their equipment annually.

Like many synthesized microprocessor-controlled solid state receivers, the 6790 cannot be used with a nearby loop antenna for MW band DNing because of RFI emitted by the 6790. The level of RFI emitted by the 6790 in the MW bend is greater than the level of RFI emitted in the MW bend by the HRD-525. Perhaps the 6790 RFI levels could be reduced to an acceptable level by mounting the 6790 inside a well-shielded cabinet, or by shielding the microprocessor board. I have not tried either.

How does the 6790 stack up against other top DX receivers, like the R-390A and NRD-525? I hate to say it, but the 6790 comes in third, with the R-390A still my number one choice, followed closely by the NRD-525. If the 6790 was free of close-in reciprocal mixing spurs, and was a little more sensitive, it would be right in there with the other two. Unfortunately, it is not. The slight insensitivity of the 6790 would be relatively easy to fix with a high dynamic range, tuned, transformer feedback preselector. It remains to be seen if the close-in reciprocal mixing spurs can be reduced or eliminated.

#### Addendum 10 VI 9

Elimination of the close-in reciprocal mixing spuce was something of co proceed with trying to isolate the spurs from two very helpful RAGAL employees. However, all of their helpful and appreciated advice led to what seemed to be dead ends. The 6790 let helpful and appreciated advice led to what seemed to me to fabricate some adapter cables using SMB connectors, which was not an easy task.) Mext, I attempted to isolate the spurs to a particular place in the 6790 by conventional trouble shooting methods (my own idea), and again the 6790 by conventional trouble shooting methods (my own idea), and again it reached dead ends. Finally, out of desperation, I went at every board in the 6790 with "freeze spray" while skiting on one of the close-in spurs trequency (a few 10°s of Hz at most) led me to the hermerically sealed 5 MHz master crystal oscillator with built-in crystal oven. The 5 MHz output is divided by 5 to 1 MHz which is used throughout the 6790 as a reference. The 1 MHz reference is also output at a BNC plug on the rear panel. I connected the 1 MHz output through a 20 dB attenuator to an R-390A and tuned around 1 MHz. The close-in spurs were found at the came offset as on the 6790. An "internal/seternal" slide switch on the rear panel permits the internal 5 MHz master oscillator and powered and an external 1 MHz oscillator and found no close-in reciprocal mixing spurs. To eliminate the reciprocal mixing spurs. To eliminate the fixed internal spurs were found at the a reciprocal mixing spurs. To eliminate the fixed internal spurs at two different frequencies. The should do two reciprocal mixing measurement near one of these spure, it will appear to be a reciprocal mixing spurs. To eliminate the fixed internal spure can be found at two different frequencies. The seak fixed internal spure can be found at two different frequencies. The seak fixed internal spure can be found at two different frequencies. The weak fixed internal spure can be found at two different frequencies. The seak fixed internal spure can be

While fiddling around with my 6790, I had noticed that my 3.24 KHz BW filter (BACAL part # 08413, McCoy part # 16485) had considerable leakage on the high side. I replaced it with an NTK CLP-DZK N311A ceramake filter mounted on an adapter board like the Colline torsion filters discussed above. Cood-bye filter leakage. These ceramic filters are available from Kiwa Electronics, 612 South 14th Avenue, Yakima, MA 98902, tel. (509) 453-5492 for about \$70. 612 South vero fabricate the adapter board yourself, unless Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read this. Bob Sherwood Engineering has an adapter board available by the time you read the filters or CLF-DZK N311A ceramic filters. The CLF-DZK N311A ceramic filters I measured cypically have stopband attenuation in excess of 100 db close-in. When these filters are cascaded with the 40-435 the excess of 100 db close-in. When these filters are cascaded with the 40-435 the English of 100 db. My flakey 3.24 KHz EW 6790 filter apparently is not unique. Bob of 100 db. My flakey 3.24 KHz EW 6790 filter apparently is not unique. Bob

Sherwood mentioned a 6790 with a 6.8 KHz BW filter which appeared the have a BW of about 10.3 KHz. Evidently there can be considerable variation from one 6790 filter to another.

Because I had been working on and succeeded in improving the inadequate Drake R8 50 KHz IF image rejection from about 80 dB to almost 100 dB, I was naturally inclined to examine the RA590/GM 455 KHz IF image rejection. With a stock A3 mixer board, 455 KHz image rejection was about 114 dB, which is substantially greater than any other receiver with 8 455 KHz IF that I have measured, and, of course, exceptionally outstanding. With a modified A3 board which I had implemented for some of my trouble shooting, the 455 KHz IF image rejection was greater than the limits of my measurement equipment, in excess of 126 dB.

Repairing or modifying RA6790/GM PC boards is not easy because most, if not all, PC board holes are plated through, and many of the leads fit tightly in any case. I had to develop new techniques to remove components without damaging the PC board. Unless you are an expert at PC board work, don't even try to work on a 6790.

After my success at trouble shooting and eliminating the close—in reciprocal mixing spurs, it is unclear to me whether the problem is as widespread as I had been led to belleve. The fellow who sold me the 6790 assured me that close—in reciprocal mixing spurs were normal for the 6790, and since he was in the process of selling about 50 of them, I assumed he would know. But then the first 6790 he shipped me had as bad A2 last mixer board, and a bad A7 last 10 board, which required me had as bad A2 last mixer board, and as bad A7 last 10 board, which required me had as bad A2 last mixer board, and as bad A7 last 10 board, which required me to return the 6790 to him for repairs. I was a bit surprised to find that he had painted the A2 cover plate mounting screws and the A7 cover plate mounting screw day-glow orange when I received the repaired 6790. It was easy enough to remove the paint with a mild solvent reciprocal mixing spurs due to bad 5 MHz crystal oscillators, but it seems unusual that a surplus dealer should have 50+ of them. In any case, I was never told by anyone at RAGAL that the close—in reciprocal mixing spurs were normal, and, in fact, was told just the opposite, namely that the close—in spurs were not normal for 6790's. They were right. And the surplus dealer was not knowledneshed menely that the surplus dealer was not knowledneshed enough about RA6790/GM's to check it out properly. This prompts me to advise anyone thinking about buying a surplus 6790 the familiar "cavest emptor." On the other hand, it is also possible that there are significant numbers of RA6790/GM's with defective 5 MHz crystal oscillators, and, thus, close—in reciprocal mixing spurs like I experienced. That remains to be seen.

Based on my expertences, the 6790 was not incended to be repaired at the component level (except for the 455 KHz filters, which are plug-in). In other words, it appears that the 6790 was meant to be repaired by replacing PC boards. As I mentioned above, the manual does not have the detailed data, like stage gains, active devire operating voltages and resistances, and so on which are required to trouble shoot at the component level, and the plated-through-tight-lead-fit makes component level board repairs difficult. Board prices vary from about \$600 at the low end to several thousand dollars at the high end, depending on the board, so repair-by-board-changing is probably not an acceptable option for most hobbyists. Prices of individual parts can also vary wildly. For example, the USB filter (part \$08409) is \$100 (currently is \$260 (+ \$81), but the matching LSB filter (part \$08409) is \$100 (\* \$81), and both prices are subject to change. Since many of the 6790's which came on the surplus market recently were missing one or more filters, no surplus dealer (to the best of my knowledge) will sell you an individual 5790 filter, and so you are stuck with RACAL's current price for the filter you want (or you can markely live without it).

Back to the question of how the 6790 stacks up against other top DX receivers like the R-390A and NRD-52S, I still vote 390A/52S/6790 for 1/2/3, mainly because of the slight insensitivity of the 5790 compared to the other two. While I am reasonably oure a carefully designed tuned presamp will fix the 6790 sensitivity, that remains to be seen. But I don't expect to see a solid state microprocessor controlled FLL receiver as spur-free and with as low 10 noise as the 390A in my lifetime. And it is tough to beat the combination of good intercepts, tracked tuned front end, ease of use, small site, light weight, and overall sood performance (after a few simple mode are done) of the 52S. I don't regret buying the 6790 even after having to "go to school" on it. Some people like fine music, or fine food, or fine cars, or fine houses, and construction place the 6790 in a category by itself. I did not buy it to use as a Ding receiver, but rather to learn more about top end receivers and especially to learn more about intermodulation distortion and perhaps to

use the 6790 as part of my ultralinesr intermodulation distortion measurement system. I must say, however, the 6790 audio quality in AM mode is exceptionally good, due, in part, I presume, to the AM synchronous detector, and the hang AGC in medium and slow release modes. In AM mode, detection is always (and only) by AM synchronous detection. Operation of the AM synchronous detector is completely transparent to the user (as it should be): it never loses lock and there is never a growl or any other evidence of the AM synchronous detector. For this reason alone I will probably use the 6790 for some of my listening.

# Mini-DXpeditions ... by Mark Connelly, WALLON

Much has been written about large-scale DXpeditions involving several DXers, miles of wire, numerous receivers, and around-the-dock activities running for a weekend or longer. These are the grand efforts of which DX legend is made. Over the years, I've been involved in some big DXpeditions with guys like Neil Kazaross, Jean Burnell, and Bruce Conti. Valuable guidance for the serious DXpeditioner is given by Shawn Axelrod's DXpeditioner is given by Shawn Axelrod's Handbook and by Nick Hall-Patch's compendium in Proceedings 1990.

rewarding. Some of us have discovered worthwhile DXing locations not far from our strengths are greater in locations having a can help DXing considerably. from pesty local stations or noisy power lines homes or workplaces. Just getting a bit farther These shorter efforts can still be quite an overnight stay or more than two operators. are smaller scale efforts not usually requiring frequencies because of both the high ground mountains, and other obstructions. Seaside view of the horizon not blocked by buildings, conductivity and a clear horizon. Mountaintop sites are good, especially on HF. locations are the best at medium and low VHF, and above. Flat, open farmland and lakeshores also have merit. Mini-DXpeditions, as the name implies

For medium-wave DXing, the simplest DXpedition can be taking some loggings on the car radio for an hour or so while parked at an advantageous site. Certain DXers' drivetime loggings (e. g. Marc DeLorenzo in the Hyundai) have become a regular feature in the DX magazines because some cannot DX effectively from RF-noise-riddled urban apartments having no space for outdoor antennas.

Besides the car radio (with an accurate clock), the only other equipment you might need on the simplest mini-DXpeditions is a logbook, reference materials, a pen, and a flashlight. Car radios are usually quite sensitive. Newer models are synthesizer tuned. This is an advantage because accurate frequency readout is provided, but channelized radios make tuning in foreign split stations more difficult. Some car radios

are harder to tune onto weak-station frequencies because of the way the scanning functions work. Still, for many domestic DXers, the car radio will be the receiver of choice.

Unlike a full-blown DXpedition often requiring a substantial expenditure and time away from work and home duties, a muni-DXpedition can be "squeezed in" between leaving work and having dinner, or between leaving work and having dinner, or between dinner and bedtime. Sometimes these outings can be very impromptu, based upon hearing something unusual during a homeward commute. More than once, when I worked in downtown Boston, the sound of loud African heterodynes on the car radio around 5 PM EST (2200 UTC) in winter made me detour to the waterfront for an hour or so of listening before heading home.

### Beyond the Car Radio ...

The next step up from car radios on mini-Dxpeditions is the portable receiver. Inside of a parked vehicle (the customary mini-Dxpedition operating position), a portable receiver will only get powerhouse locals. The vehicle's metal surrounding the receiver eliminates everything else.

Few portable radios are sensitive enough on their built-in antennas even when operated outdoors, let alone inside a car. An external antenna, therefore, is necessary. The whip antenna that connects to the car radio is a high-impedance source that will not operate properly into the low-impedance external antenna inputs of portable receivers. If the car whip is to be used, it must be fed to a high-gain, high-Q tunable amplifier with an input impedance similar to the high impedance (LC tank / FET gate) of the car radio; such an amplifier would have a low-impedance (S0 to 75 ohm typical) output. The "MWI" and "API" regenerative tuners described in various NRC reprints can provide this function.

A broadband active whip such as the MFJ 1024, powerable from the car's 12 VDC supply or from a battery pack, could be used for fast and easy scanning in areas not having strong local stations. The whip should be roof-mounted for best results.

A tunable antenna is always preferable, in terms of signal-to-noise and overload immunity, to a broadband active antenna. The MFJ 1024 can be modified for varactor-tuned operation: see the NRC reprint about "RTU-1". You'll need to tune your active whip to prevent spurious responses at urban and suburban sites.

reach outside the car is to turn the loophead a conventional loop because the only need to car. This can be done if you reach out the car Quantum, the SM-2, and the Radio West Loop are recommended. You've got to be able to occasionally. remotely-tuned loop (e.g. RTL-2) is better than probably too cumbersome for most mini-DXpeditions. Small ferrite loops like the afforded by a high-Q tuned source make loop prefer them to any other compact antenna. Obviously, the ability to null and peak roof immediately adjacent to the window. A window to adjust a loop positioned on the roof - while you tune the receiver inside the tune the loop - located (usually) on the car's use desirable. A large air-core loop is different stations and the overload immunity Most medium-wave DXers use loops and

It is advisable to find a way to mount the loop base securely to the edge of the roof. More than once, a ferrite loop has been dislodged from a car roof by a gust of wind at a beach DXpedition site. This can be hazardous to your loop's health and to your sanity! Take a plastic bag to cover loops and active whips during rain; a rigid plastic radome-like cover might even be better.

Beyond the figure-of-eight pattern possible with loop usage, cardioid (single-null) patterns can be generated by phasing a remotely-tuned loop versus a remotely-tuned whip of comparable gain. Or, two remotely-tuned loops at a right angle can be phased. My RTL-2 and DXP-1 articles cover this in detail.

Up to now, I've been talking about antennas which can be mounted on the vehicle. Sometimes, longwires can be put up at a mini-DXpedition site. These can be phased for more directivity and run through tunable preamplifiers for higher gain and sharper tuning. Installation of such wires can produce different - sometimes better - DX than can be heard using car-mounted loops and active whips. One drawback is that wires must be rolled up at the end of the DXing session. Another disadvantage to wires is that if your site has substantial pedestrian, brycle, or vehicular traffic, your wires may be pulled up by someone (accidentally or on purpose). Wires can attract the attention of police and can be a safety hazard. Antennas mounted on a vehicle do not slow you down when some

circumstance - bad weather, police, bears, gangs of hooligans, or whatever - demands that you get away from the site quickly. Think about it before stringing out Beverages at a site whose potential dangers are not fully known. Here in the urbanized Northeast, few mini-DXpedition sites have enough room for big antennas anyway. You'll run into buildings, water, fences, other cars, powerlines, roads, or something else within a relatively short distance of most of the desirable shore sites.

I find that two insulated stranded wires of about 40 m / 130 ft, each, run at a right angle to each other and fed through an amplified phasing unit, give good results and can be rolled in quickly when it's time to leave. Still, if you're in the busy parking lot of a beach or seaside restaurant, forget the wires.

On the subject of receivers, there are many portables which will perform very well when operated with a good loop or tuned active whip. I have used the Sony ICF-2010 (2001D), the Realistic DX-440 (Sangean ATS-803A), and the Realistic DX-392 (Sangean ATS-818CS) with good results. The Sony has the edge in selectivity over the others because it was modified by Cerry Thomas for narrower filters. A regenerative loop (Kiwa or Martens) or a regenerative preselector such as MWT-3 can improve selectivity of portables to the point of being comparable to that of moderately-priced tabletop communications receivers.

The Realistic / Sangean models, while fairly insensitive on their built-in antennas, work like champs when hooked to a Quantum loop or to a regenerative wire / whip preselector. The DX-392 (ATS-818CS) has the advantage of a built-in cassette deck. You'll want to tape the excellent DX coming in at a good DXpedition site, especially during a wild aurora or other unusual conditions. Taping the jumping between a difficult medium-wave catch such as Lesotho - 1197 and an easy shortwave parallel like 5975 can make for interesting "show and tell" at the next DX gettogether. Dealing with a separate cassette deck, patchcords, etc. can get a bit clumsy in the limited space / limited light environment of a car at a DX site. (Vans and campers give compared to compact cars.)

Portables often have "wimpy" external antenna jacks that are prone to wearing out much sooner than the rugged BNC and UHF (SO.239) connectors typically found on "serious" receivers. Think about modifying your portable's external antenna input connector for longer life.

When you want to "do it right", use a "real' communications receiver that is powerable from 12 VDC. I'm talking about the Drake,

receiver takes up. The new battery-operable consumption and the added room such a receiver instead of a compromise portable. The drawbacks are increased power stations and foreign splits by using such a customarily used for serious DXing. Obviously you will do much better on weak performance gap between portables such as Drake SW8 promises to bridge the as the R8 and NRD-535. the Sony ICF-2010 and tabletop receivers such JRC, Icom, Yaesu, Lowe, and Kenwood radios

#### Otber bints

Start the car up about every 30 to 60 minutes if you're running receivers, preamplifiers, etc. from its battery. Run the jump-start. You don't want this to happen!
Do dry runs of mini-DXpeditioning from when I "croaked" the car battery during a cold engine for 5 or more minutes each time. In more than an hour to find someone for a winter outing to Swampscott, MA. It took learned this the hard way a few years ago light drawing power from the car battery. I separate flashlight or lantern rather than a as well as to recharge the battery. Use a winter, you'll want to do this to get some heat

antenna lead-ins, etc. Determine the most efficient, most comfortable set-up. Also, at it's"tough luck Charlie". on a pier more than an hour's drive away, necessary item at home and you're parked out inside your house or apartment. If you left a tool, adapter, or patchcable, it's right there home, if you decide you need another book, lanterns, antenna tuners, patchcables placements of receivers, tapedecks, books, your home location to figure out optimal

to the site from your normal home (or work) wrecking the whole effort. If your travel time dead batteries or a receiver malfunction from up receiver (e. g. Realistic DX-380) to prevent location is over an hour, this is especially Take back-up batteries and a small back

#### Mark's Mini-DXpedition Items: A Check-List

permanent basis. tools, cables, and books - that are not sensitive It can be adapted for operation on other bands, other locales, etc. One to five hours of actual DXing time is typical. Items - such as DXpeditions in the US and Canada in mind. dual-operator car-based medium-wave minito heat and cold can be stored in the car on a NOTES: This list is written with single- or

- portable receiver (e. g. Sony ICF-2010) with batteries and / or car eigarette lighter
- ferrite loop (RTL-2 base with Quantum head or equivalent)

- whip with BNC plug (for use of RTL-2 as active whip)
- cables to connect RTL-2 to MWT-3, MWT-3 regenerative preselector / remote loop controller (MWT-3)

to receiver

- kit of between-series coaxial adapters (BNC, UHF, RCA, N, SMA, F, stereo & mono
- phone & mini-phone)
  12 VDC power cord for loop / preselector,
- \* logbook, hit lists
- \* World Radio-TV Handbook
- \* NRC AM Radio Log
- pens, pencils flashlight or lantern
- rolls of wire (two about 40 m / 130 ft.; one or more over 250 m / 820 ft.)
- toolbox with common tools (screwdrivers, 12 V soldering pencil, solder, electrical socket set, knives, cutters, pliers, wrenches, tape, hammer, etc.)
- clock or watch set to UTC (GMT) single lighter plug to 2 (or more) jack car power adapter
- extra batteries as deemed necessary
- clip leads (alligator, Easy Hooks, etc.)
- rugged storage case(s) for the above items

#### ADDITIONAL ITEMS WELL WORTH HAVING

- small portable cassette recorder, blank
- second RTL-2 loop and a DCP-1 controller amplified two-wire phasing unit (e. g. MWDX-5) for loop-vs.-loop, loop-vs.-whip cardioid
- small back-up receiver (e. g. Realistic DX 380) (should also have digital readout)

pattern generation

- 2-meter ham transceiver, CB, or cellular phone for emergency communication
- pocket digital multimeter
- (power/AF/RF) as required for the above batteries, interconnecting cables
- recent copies of DX News and other hobby
- supplemental station lists (EBU List, Newfoundland DXpedition Logs, LF Beacon Guide, etc.)
- NRC directional pattern book
- compass great-circle map or bearing / distance tables that are fairly accurate for the DXpedition

U.S. / Canada road atlas

Spanish / English and other language and beacon freq's dictionaries as needed

aeronautical charts showing tower sites

topographical map of local area,

- lunchbox with sandwiches, snacks, soda / fruit juice; thermos with coffee or tea
- bow & arrows, fishing line, thin & thick nylon rope for launching antennas into
- \* insect repellant for summer DXpeditions matching / noise-reducing transformers for wire antennas

#### WHEN YOU REALLY WANT TO GO NUTS

- communications receiver (e. g. Drake R8) separate deep-cycle (marine-type) battery
- VCR for up to 6 hours of taping DX audio or spare fuses for communications receiver
- 12 VDC to 115 VAC converter if needed; AC extension cords / power strips / adapters for experiments with direct taping of RF
- laptop computer for checking previous logs and geographical data, and for taking notes
- ground rods, termination resistors for
- special protective clothing, boots, gloves as required for wet / rough terrain, harsh
- DXpeditions tolding tables, chairs for outdoor set-ups Business / Vacation Trip Mini-

your destination, instead of driving your own to be a spare-time pursuit rather than the car, you must be more selective in terms of items taken. This is especially so if DXing is When you have to travel by air to get to

> customized accordingly. A radio, a small loop, the logbook, and the WRTH might be all you can pack ... Better that than nothing at all focus of the trip. The check-list can be

required. Having receipts proving where equipment was bought is advisable. Bring problems (weather, insect pests, high crime possibly-useful sites, and any specia DXers living nearby. Learn about local laws customs restrictions at both ends of your trip aren't a spy or smuggler. the hobby. This can help to prove that you magazine or newspaper articles explaining Talk to those who have visited a given area. Find out what DX is like there and if there any For foreign travel, power adapters may be Think about

#### Conclusions

been obtained by DXers in Florida during short sessions. Brief pre-dawn operations Canada, upwards of 30 countries have been a few hours at a choice location within a from the Pacific Northwest have resulted in stretch starting at sunset. Similar results have logged on medium-wave in a 2 or 3 hour coastal sites in New England and eastern Granite Pier in Rockport, MA and other reasonable drive of home. On DXpeditions to rapid-fire logs of stations from Australia, New Zealand, Japan, and many other countries. Really interesting DX can often be heard in

it doesn't take a huge investment of time or money to "spice up" your DX life. One thing mini-DXpeditions prove is that

# International DX from New England ... Mark Commetty WALION

International DX (reception of stations from countries besides the USA and Canada) is in the southeastern states. is not usually as serious a problem here as it is although autumn and winter are best. Static possible from New England in all seasons, (QRN) is the main problem in summer, but it

coast of Canada, is probably the easiest Caribbean, and Central America (including in New England. foreign (non- US / Canada) station for DXers Mexico). St. Pierre & Miquelon on 1375, off the Americans from South America, the wave DXer are Trans- Atlantics from Europe, Africa, and (Middle East) Asia and the Pan-Principal areas of interest for the medium-

as programming information and when to Canadian DXers are actually hearing (as well about changes and stations that US and in DX News fill in supplementary information as your main guide to foreign DX. Recent issues of the International DX Digest column Use the World Radio-TV Handbook (WRTH)

course, high quality receiving equipment and conductivity, and proximity to sources of interference and electrical noise. Having good antennas are recommended. pursue (and when to find it) helps. And, of reference sources and a solid idea of what to such as (flares, sunspots), and location characteristics affected by the time of day, ionospheric propagation factors related to solar activity The likelihood of hearing foreign stations is horizon blockage, ground

g. Europe) of the path. peak around dawn on the transmitter end (e England, drop off slightly after that, and reat the eastern end, or the entire path in the sunset at the western end of the path, sunrise can peak up around local sunset in New transition zone between day and night: e. Signal strengths are sometimes enhanced requires darkness along most of the path when one or both ends of the path are in the "greyline" zone. Trans-Atlantic DX, therefore, Medium-wave long-distance skip generally

exploited inland, especially in autumn and better. Neil Kazaross had this from Ogunquit, Maine in 1984 and 1985; his loggings included Ascension Island, Namibia, and shore location is often considered the ultimate communications receiver. As the evening sunrise / sunset maps or tables. dawn. Use the popular GEOCLOCK computer program, the "DX Edge", or other home QTH situation, rather than something hastily scrambled up for a DX pedition, all the of phased Beverages, a quality receiver, and a progresses, skip angle becomes higher and the these sites will be had around transmitter-site winter, but better Trans-Atlantic results at will not hear these with a run-of-the- mill setnumerous Angolans and Brazilians. You just set-up for foreign DX. If it's a permanent differences aren't as drastic. The combination coastal - versus - inland signal strength inland even with a Beverage and a topnotch gear (portable radio, loop) that can't be found beach, stations can be audible with simple versus those heard at inland sites. At the African signals received at seashore sites have been measured between European and reception. At sunset, differences of over 30 dB needed for good medium-wave international strength on long- haul (low-angle) skip Location plays an important role in signal Sunset openings can sometimes be

Auroral conditions occur sporadically. High solar activity energizes the auroral zone and causes absorption of high latitude (northern) route domestic and foreign signals. Southerly stations increase their strengths sometimes or, at least, they benefit from the reduced interference. Looking for Latin Americans and Africans will be a primary focus during auroral activity. Many nights are short-skip-dominated and finding foreign DX will require effort, skill, and patience especially when limited by average receivers, antennas, and locations.

### TRANS-ATLANTIC DX

For Trans-Atlantic work, the best antenna system is one that produces an end-fire or a cardioid (heart-shaped) pattern with maximum pick-up from the east and minimum pick-up (null) from the west. Phased Beverages, phased slopers, loopversus-whip, and two phased loops at a right angle will generate this pattern. A single wire antenna running from the receiver to the east or northeast, or a loop aligned to favor these directions, can still produce reasonable DX results, especially at a good location.

Trans-Atlantics are on 9 kHz multiple channels: 90 percent of these are on "splits" that do not correspond to the 10 kHz multiple channels used in the Western Hemisphere. Tight filters are often required to separate

foreign and domestic stations that may only be I kHz apart (examples: Saudi Arabia - 1521 and WWKB - 1520, Algeria - 891 and WLS - 890).

The most consistently-heard Trans-Atlantics are those from the area around the western end of the Mediterranean Sea: Algeria - 891, Libya - 1251, Morocco - 1044, Portugal - 666 / 1035, and numerous stations from Spain including 639, 684, 738, 774, 855, 954, 999, 1107, 1359, and 1584.

Northern Europeans can come in during the better conditions. These include England - 693 / 882 / 1215, Norway - 1314, Gernany - 756 / 1017 / 1422 / 1539, Holland - 747, France - 675 / 945 / 1206 / 1467 / 1557, and Slovak Republic - 1098.

Easy lower-bearing Africans such as Senegal 765, Mauritania 1349, Canary Islands 621 / 837 / 1098 / 1179, and more exotic ones like Angola 1088 / 1115 / 1367 and Lesotho 1197 (BBC), are heard best during moderate aurora a bit after sunset from coastal sites. The Sao Tome VOA relay on 1530 (with English- language programming parallel to 7405 kHz) sometimes mixes with WSAI and Vatican after 0300 UTC sign-on. Middle East Africans and Asians such as Egypt 1107, Sudan 1296, and Saudi Arabia 1521 peak up well around transmitter-site dawn. The sign-on of the 1521 Saudi at 0300 UTC is often heard. Italy - 846 / 1332 / 1575, Vatican 1530, and Eastern Europeans (numerous Bulgarians, Romanians, Russians, ex-Yugoslavs, etc.) do best then, too.

An extensive treatment of Trans-Atlantic DX possibilities is given in the article "Your First 50 Trans-Atlantic Countries (and then some)" in DX News, vol. 61, no. 27 (20 JUN 1994).



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News of the radio industry, of interest to DX ers

Angeles. Along with this announcement comes the word that LA personalities will be anchor Lon Landis is moving west to ply his craft on sister station KCBS ... WTOP in our should probably be anticipated. As a side note, according to the STAR, Yoko Ono inducted into the hall. The new inductees National Broadcasters Hall of Fame is moving anniversary as an All-News station ... nation's capitol will be celebrating its 25th the new morning co-host/news anchor on WSNY in Columbus, Ohio ... WCBS news Lois Street, Norwalk, CT 06850, from neighboring Westport ... Christine Sullivan is two weeks via a medium. Wonder if they can is scheduled, and related radio specials the syndicator. That's right, Barney is about to its headquarters from New Jersey to Los when it's sweeps month with comments like link up for the show? You can always tell claims that she chats with John Lennon every New York City's Central Park. Pay-Per-View scheduled a reunion show this summer in three remaining members of the Beatles have stories to its younger audience members ... The read original and classic children's bedtime on Sunday evenings via MJI Broadcasting as out, "Bedtime With Barney" hits the airwaves parents think that they are about all Barney-ed million dollars for its last year ... very interesting in light of the fact that owner of Unistar Radio Networks. This is business. WNYC staffers don't want Curtis, as he doesn't fit the station's "highbrow" move has been viewed negatively in the Big Westwood has just reported a net loss of \$29.9 patronage ... Westwood One is now the official image, and they view this as just political stated that he wants the city out of the radio-to Apple Media. The new mayor has already Curtis is rumored to be heading for New York City's Municipal Station WNYC. His projected WQHT-FM for a 9 to 10 a.m. Sunday Show stay on their feet. Lisa has signed on with morning WABC-770 slot, have managed to Greetings all ... The soon-to-be-divorced Curtis and Lisa Silwa, recently axed in the WMMM has moved its studios to 1 Just when

> also had Larry King thinking of transitioning out of his radio talk show. One has pause to ratings with his CNN Chores ... heart is the problem. He still garners high nighttime gig to a so-so daytime one not his wonder if his move from a successful in West Palm Beach, FL ... The rumor mill the new morning drive personality at WOVV show on WABC, with Dr. Wally, discussing home repairs. What a switch ... M.J. Kelli is airwaves, this time co-hosting a one-hour WXRK-FM in the Big Apple, is returning to the known as the Rock and Roll Madame while at Lozano is rumored to be leaving when his contract is up March 1 ... Jo Meader, formerly bottom line ... KWPR's morning host Frank Ratings are important because we are talking commercial radio, and the bucks are the Radio's Top Billers include (in order): WGN, KABC, WFAN, KLOS, KOST / WINS (tie), KGO, WABC and KRTH / WLTW (tie). being completely destroyed ... The List is in lots of smoke damage, with the reception area were just a long spot away from a hot station. The fire turned into a two-alarmer, causing arrived with 90 seconds. You might say they street from the fire department. Fire personnel maintenance of AM directional antenna had to exit the building through the flames. Modesto was recently torched. Three staffers WARX/WARK in Hagerstown ... KVFX in Morning is gaining more markets. He has just been added to KHTK, in Sacramento, and systems, Docket 93-177 ... Imus in the rules changes in the area of performance and issued a Notice of Inquiry (NOI) concerning include:Robert W. Morgan, Gary Owens, and Fortunately the station is located across the United States Ronald Reagan ... The FCC has former WHO Sportscaster and President of the If you would like to contribute to this

h column, I may be reached at the address above, via CompuServe 72376,2537, Prodigy PFVK52D, hterNet PeteKZIZ@AOL.COM, the FIDO system in the Shortwave, Ham or the Broadcasting echo areas, The Oracle I:141/1050, or amateur radio packet, KZIZ & KIUOL.CT. So much for now.

Promote the NRC and DX Hews and help us grow! Planning to attend a DX or habby pathering? Why not include DX serve in your plans. Upon respect, we'll send you a packet of up to 50 recent DXII's to be given free to attendees. Just send a postcard to IRRC - P. O. Box 5711 - Topoka, KS 66605. Packets are sent by Fourth Class Printed Matter rate, so please allow 10-15 days for delivery. Help keep the MRC on the growd