

DX News

Serving DX'ers since 1933



Volume 73, No. 8 - November 21, 2005 (ISSN 0737-1659)

Inside . . .

- 2 .. AM Switch
- 5 .. DDXD-East

- 8 .. IDX
- 13 .. Special: NRC Publications Catalog

Station Test Calendar

KKLF	TX	1700	Dec. 4	0106-0115
WFLI	PA	560	Dec. 11	0000-0100
WNTP	PA	990	Dec. 11	0000-0100
WNAR	PA	1620	daily	0300-0304

Station Tests ... KKLF-1700 - Richardson, TX will conduct a DX Test on December 4 from 0106-0115AMELT with 1 kW non-directional and Morse Code superimposed over regular programming. This station prefers to receive reports via e-mail. If you wish to send a snail mail QSL request, please include an SASE. The station notes that as the same audio is available on KLIF 570 kHz, no verification without audible proof of reception of 1700. Please include an MP3 file with e-mails, or a CD/Cassette with snail mail reception reports. Reception reports via e-mail only go to Hue Beavers <<hbeavers@dfwradio.com>>. Special thanks to Bill Hale for helping to arrange this test. Arranged by Les Rayburn for the NRC and IRCA.

WFLI-560 and WNTP-990, Philadelphia, PA - 117 Ridge Pike - Lafayette Hill, PA 19444 will conduct a simultaneous DX Test on December 11 (Sunday morning) from 0000-0100 ELT. The modes of operation will be as follows: firstst half-hour: WNTP 50 kW DA-D, WFLI 7.1 kW DA-D; second half-hour: WNTP 2.5 kW NDA, WFLI 2.5 kW NDA. The programming will consist of Morse code ID's, sweep tones, and voice announcements. CE René Tetro is very interested in hearing what differences listeners notice during the NDA period of the test when both stations will be running the identical power levels from the same tower site. Reception reports should go to <<rene@wfil.com>>; snail mail reports should be addressed to René F. Tetro,

Chief Engineer - Salem Communications. Arranged by NRC member René Tetro for the NRC and IRCA.

From the Publisher ... We're running a bit light on columns this issue, as Bill Dvorak had a family emergency right at deadline time, and Dave Schmidt is holding a hand-written Musing which should appear in next week's DXN.

DXN Publishing Schedule, Volume 73

Iss.	Deadline	Pub. Date	Iss.	Deadline	Pub. Date
9.	Nov. 18	Nov. 28	20.	Feb. 10	Feb. 20
10.	Nov 25	Dec. 5	21.	Feb. 17	Feb. 27
11.	Dec. 2	Dec. 12	22.	Feb. 24	Mar. 6
12.	Dec. 9	Dec. 19	23.	Mar. 10	Mar. 20
13.	Dec. 23	Jan. 2	24.	Mar. 24	April 3
14.	Dec. 30	Jan. 9	25.	April 7	April 17
15.	Jan. 6	Jan. 16	26.	May 5	May 15
16.	Jan. 13	Jan. 23	27.	June 9	June 19
17.	Jan. 20	Jan. 30	28.	July 7	July 17
18.	Jan. 27	Feb. 6	29.	Aug. 4	Aug. 14
19.	Feb. 3	Feb. 13	30.	Sept. 8	Sept. 18

DX Time Machine

From the pages of DX News:

50 years ago ... from the November 26, 1955 DXN: Roy Millar, Issaquah, WA reported hearing an ID from 3GL-1350, Geelong, Victoria, at 0400 on 11/14, and s/on of WOLF, Syracuse, NY, on 1490 kc/s.

25 years ago ... from the November 24, 1980 DXN: Konstantine Rychalsky, Beacon Falls, CT was compiling an AM history book, which had reached five inches in thickness ... Bob Mielcarek, Milwaukee, WI noted that he had 57 new stations since 9/14.

10 years ago ... from the November 20, 1995 DXN: Jerry Starr chronicled the story of WJDM-1660 and its presence as the only STA station on the X-band.

The County Cross Reference

What a time-saver! A complete list of counties, parishes, and similar political divisions in the U. S. and Canada. Two lists are included: alpha by county, and by state. Compiled by Bill Hale and designed and produced by Wayne and Joan Heinen. \$8.95 for members, \$11.95, non-member; overseas surface mail, add \$4.00 for first copy; \$.64 for each add'l copy/ For airmail, add \$8.00 for each 3 or fraction of 3. Order "CCR" from the NRC Publications center; NY residents, please include sales tax.



AM

Switch

Bill Hale w_r_hale@sbcglobal.net
6124 Roaring Springs Drive
North Richland Hills, TX 76180-5552



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

CALL LETTER CHANGES

<u>Old Call</u>		<u>New Call</u>	
690	WTIX	LA	New Orleans
710	WQKI	SC	St, Matthews
790	KJUL	NV	Winchester
1440	KBET	ID	Pocatello
1460	NEW	FL	Golden Gate
			KNTX-AM
			P.O. Box 1080
			Bowie, TX 76230
			WIST
			WPOG
			KWLY [New station, not yet on the air]
			KPTO [Was KBET for 14 days]
			WNPL [New station, not yet on the air]

CPs ON THE AIR

920	KBAD	NV	Las Vegas - CP for U2 5000/500 is on the air, changing from U4.
1030	KBUF	KS	Holcomb - CP for day and night power increases is on the air. KBUF is now U2 2500/1200. The CP had called for CH 2500, but that isn't listed in the current FCC database.
1440	KPTO	ID	Pocatello - Program Test Authority (PTA) granted for U4 2500/350.
1480	KLVL	TX	Pasadena - PTA granted to increase daytime power after adding a tower to their array of two. KLVL is now U4 3000/500.

APPLICATIONS FROM EXISTING FACILITIES

540	WRGC	NC	Sylva - Applies to move to 540 kHz with D1 5000/0.
860	WAMI	AL	Opp - Applies to change City-of-License (CoL) to Kanab, Utah (correct) and move to 1560 kHz with D1 250/0 CH 250. A "W" call in Utah?
1380	WGYV	AL	Greenville - Applies to relocate to Aurora, Indiana (correct) on 1030 kHz with D4 250/0 CH 250.
1390	WISK	GA	Americus - Applies to change CoL to Lawrenceville, Georgia, and move to 990 kHz with D1 1000/0.
1550	KWBC	TX	Navasota - Applies to change CoL to College Station, Texas with U5 1400/24.

AMENDMENTS TO CONSTRUCTION PERMITS SUBMITTED

1010	KCPW	UT	Tooele - Licensed for U7 50000/13 CH 3100, KCPW has a CP for U7 50000/194 CH 42000. This amendment requests U7 50000/218 CH 35000 with a CoL change to Magna, Utah.
1110	WOMN	LA	Franklinton - Licensed for D1 1000/0, WOMN has a CP for D1 30000/0 CH 10000. This amendment requests U7 50000/250 CH 20000 with a change in CoL to Chalmette, Louisiana on 1100 kHz.
1530	KZNX	TX	Creedmore - Licensed for U7 10000/12 CH 1000, KZNX had a CP for U7 10000/17 CH 1000 and an application for U7 10000/220 CH 1000. This action deletes the CP, leaving only the application pending.

AMENDMENTS TO APPLICATIONS SUBMITTED

1250	KNWH	CA	Twentynine Palms - Licensed for U1 1000/105, KNWH applied to change CoL to Yucca Valley, California with U1 1000/100. This amendment requests U1 800/77 from Yucca Valley.
1260	KIMB	NE	Ogallala - Licensed for U1 1000/112, KIMB had a CP for U5 50000/112, which they asked to be rescinded, while applying for U5 50000/110 from a different 2-tower transmitter site.
1260	WTBZ	WV	Grafton - Licensed for U1 500/23, WTBZ has a pending application to move to 1190 kHz with U1 6300/22. This amendment requests U1 4500/22.
1360	KELE	MO	Mountain Grove - Licensed for U1 1000/60, KELE has a pending application to move CoL to Ripley, OHIO with D4 10000/0 CH 6500 on 1200 kHz. This amendment requests D4 1000/0 CH 650 on 1180 kHz from Ripley. I wonder if they would keep the "K" call in Ohio?
1440	WJLJ	NY	Niagara Falls - Licensed for U1 1000/55, WJLJ has a pending application to increase day and night power levels to become U4 5000/190. This amend-

ment adds a change in CoL to West Seneca, New York to the application, as well as upping the night power. The application now reads U4 5000/1000 from West Seneca.

- 1440 KTNO TX **University Park** - Licensed for U4 15000/350, KTNO has applied for U4 50000/350. This amendment requests U5 50000/350.
- 1480 WSPY IL **Geneva** - Licensed for U4 1000/500, WSPY has a pending application to change CoL to Millbrook, Illinois with U4 500/250. This amendment requests U4 400/250 at Millbrook.
- 1590 WONX IL **Evanston** - Licensed for U2 1000/2500, WONX had a CP to increase their daytime power to become U4 3500/2500, and later applied for U4 20000/5000 along with a change in their CoL to Carol Stream, Illinois. This amendment requests U4 10000/3000 from Carol Stream.
- 1590 WTRW WI **Two Rivers** - Licensed for U1 1000/33, WTRW has a pending application to change CoL to Denmark, Wisconsin with U4 10000/1000. This amendment requests U4 10000/200 from Denmark.
- 1600 WPDC PA **Elizabethtown** - Licensed for U1 500/79, WPDC has a pending application for U1 1000/7. This amendment requests U1 1000/18.

APPLICATIONS RESUBMITTED

- 540 WFLF FL **Pine Hills** - Station re-applies to move their transmitter facilities to that of WQTM-740 Orlando, Florida with U4 50000/46000.

APPLICATIONS FROM EXISTING FACILITIES DISMISSED

- 750 WNDZ IN **Portage** - Application to change CoL to Calumet City, Illinois.
- 850 WCPT IL **Crystal Lake** - Application to change CoL to Addison, Illinois.
- 1170 WWLE NY **Cornwall** - Application requested a move to 1150 kHz with U4 2500/500. WWLE remains D1 800/0.

AMENDMENTS TO AUCTION 84 APPLICATIONS

- 1240 NEW MT **Whitefish** - New station, not yet on the air filed an Auction 84 application for U1 460/460. This amendment requests U1 400/400.
- 1550 WURP PA **Reserve Township** - New station, not yet on the air filed an Auction 84 application for U4 4000/32. They then filed for U1 1000/4 at Braddock, Pennsylvania. This amendment requests U4 2000/12 back at Reserve Township.
- 1580 WXXP PA **Waynesburg** - Licensed for D1 720/0, their Auction 84 application asked for U1 500/170 on 1190 kHz. This amendment requests D1 5000/0 CH 710 on 1210 kHz.

APPLICATIONS DISMISSED

- 1190 WOWO IN **Fort Wayne** - Application dismissed to increase night power and change the night pattern. WOWO remains U2 50000/9800.
- 1550 KYCY CA **San Francisco** - Application to change CoL to Campbell, California with U4 12000/16000. KYCY remains U4 10000/10000.

APPLICATIONS FOR NEW STATIONS

- 690 NEW SD **Tyndall** - Applies for U4 1000/400.
- 800 NEW OR **Bandon** - Applies for U4 2500/2500.
- 820 NEW NC **Masonboro** - Applies for U4 50000/3300.
- 830 NEW FL **Hilliard** - Applies for U4 50000/4000.
- 920 NEW VA **Quantico** - Applies for U4 2000/970.
- 1030 NEW AL **Maxwell AFB** - Applies for U7 35000/1000 CH 35000 [Maxwell AFB is at Montgomery]
- 1030 NEW OR **La Grande** - U2 1000/600.
- 1190 NEW AK **Juneau** - Applies for U1 1000/1000.
- 1190 NEW AR **Pine Bluff** - Applies for U2 10000/450.
- 1240 NEW HI **Kahului** - Applies for U1 1200/450.
- 1260 NEW AK **Ketchikan** - Applies for U1 1000/1000.
- 1280 NEW AK **Petersburg** - Applies for U1 1000/1000.
- 1280 NEW HI **Keahou** - Applies for U1 660/660.
- 1300 NEW AK **Fairbanks** - Applies for U1 1000/1000 CH 1000.
- 1310 NEW CA **Bakersfield** - Applies for U4 1000/2500.



1320	NEW	CA	Santa Maria - Applies for U4 250/670.
1320	NEW	OR	Merlin - Applies for U4 1000/1000.
1350	NEW	PA	Geistown - Applies for U4 1500/890.
1400	NEW	MT	Columbia Falls - Applies for U1 1000/1000.
1400	NEW	NV	Tonopah - Applies for U1 1000/1000.
1400	NEW	TX	Anthony - Applies for U1 250/250.
1430	NEW	AK	Wasilla - Applies for U1 1000/1000.
1450	NEW	AZ	Cameron - Applies for U1 1000/1000.
1450	NEW	CA	Catalina-Avalon - Applies for U5 500/250.
1450	NEW	FL	Lake City - Applies for U1 1000/1000.
1450	NEW	NV	Lovelock - Applies for U1 1000/250.
1470	NEW	AK	Soldotna - Applies for U1 1000/1000.
1480	NEW	TX	Wink - Applies for U2 1000/250.
1490	NEW	CO	Del Norte - Applies for U1 1000/1000.
1490	NEW	WY	Casper - Applies for U1 250/250.
1520	NEW	OR	Merlin - Applies for U2 5000/4000.
1530	NEW	MT	Billings - Applies for U2 50000/750 CH 10000.
1530	NEW	UT	Mantua - Applies for U2 25000/520 CH 25000.
1550	NEW	LA	Blanchard - Applies for U4 2500/1000.
1550	NEW	TX	Alpine - Applies for U1 250/250.
1560	NEW	WY	Mills - Applies for U7 50000/500 CH 9000.
1580	NEW	CA	Shasta Lake City - U4 250/250.
1590	NEW	AL	Opp - Applies for U4 500/190.
1590	NEW	NV	Paradise - Applies for U2 6500/1100.
1600	NEW	MT	Billings - Applies for U2 5000/1250.

LICENSE RENEWALS GRANTED

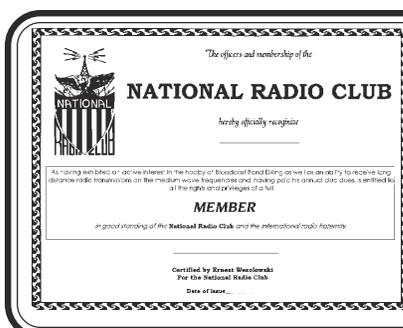
910	WJCW	TN	Johnson City	1240	KVSO	OK	Ardmore	1540	WJJT	TN	Jellico
1090	KBOZ	MT	Bozeman	1310	KXAM	AZ	Mesa	1690	KDDZ	CO	Arvada
1230	KOBB	MT	Bozeman								

CORRECTIONS

- 1440 WNYG NY Babylon - Applies to change the CoL to Elizabeth, New Jersey and move to 1530 kHz with D5 1500/0 CH 450, taking the place of co-owned WJDM. WJDM will surrender its license once PTA is granted for WNYG on 1530. [Correcting an item from last Issue]

HEAR AND THAR

- ☐ Back on the air: WNUZ-1230 Talladega, Alabama, WMDR-1340 Augusta, Maine, KMHS-1420 Coos Bay, Oregon ID'ing as *Pirate Radio*, KLCL-1470 Lake Charles, Louisiana with a C&W format and *Cajun Country* slogans, and WSKT-1540 Martinsville, Indiana, simulcasting WCBK-102.3 with their country format. Reported as being silent: WTKN-1230 Corinth, Mississippi,
- ☐ I guess I should be flattered when DX sites on the Internet use material gleaned from this column. But I'm not. How do I know the item(s) came from **AM Switch**? Having suspected this might be happening, I "planted" an innocuous, false piece of info in a column an issue or two back. I just made something up out of the blue, which had no bearing on the integrity or accuracy of any document, such as someone's log. Lo and behold, this item appeared on the Internet on one of the DX information web sites. C'mon, folks. I put a lot of time and effort into **AM Switch**. It's now obvious to me that some people lack any credibility when posting information on their sites. They just cut and paste. Remember, what appears in **DX News** (and now **e-DXN**) is copyrighted by the **National Radio Club**. If you want to use material from **DX News**, get permission first. And give credit where it is due.
- ☐ Thanks to Shawn Axelrod, Richard E. Evans, and Wayne Heinen for information this week.



For NRC members only ...
Membership certificate, \$1.00
 Suitable for framing; red and blue print on white stock. Suitable for framing. Order "CERT" from the NRC Publications Center - Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.

Domestic DX Digest

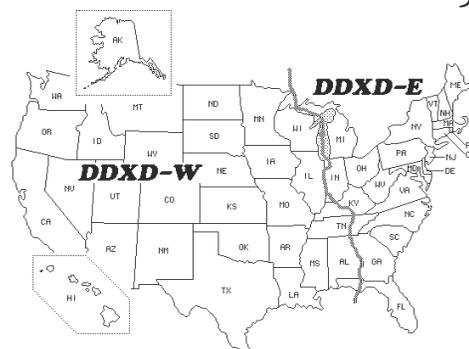
West: Bill Dvorak westlogs@aol.com

501 Algoma St. - Madison, WI 53704-4812

East: Ginnie Lupi DDXD-E@nycap.rr.com

PO Box 4404 - Clifton Park, New York 12065-0853

(Division line is
between East and
Central time zones)



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

DDXD-East

Note: Bill had to deal with a family emergency at week's end, but DDXD-West will return next week.

REPORTERS

- RB-PA** R.A. Briggs, Grove City – DX-399, stock antenna.
RB*PA R.A. Briggs, Grove City - 1995 Chevy K1500 truck radio.
MKB-ON Mike Brooker, Toronto – Grundig YB-400PE; Panasonic RF-2200.
SC-ON Saul Chernos, Toronto – Ontario DX Association Radio Camp get-together at Shadow Lake (Stouffville, near Toronto) – Sangean ATS909 with Radio Shack loop and 200 foot unterminated longwire pointed approximately n-s.
SC*ON Saul Chernos, Burnt River – Sangean ATS909 with Radio Shack loop.
DG-PA Dave Gardiner, Oreland – GE SuperRadio III.

STATION LOGGINGS

- 550 WSVB VA Charlottesville – 11/3 2206 – Local news with woman who sounded like a young teenager. Several IDs. Have wanted this for a long time. New! (SC*ON)
- 560 WIND IL Chicago - 10/13 0145 - Mike Gallagher Show, followed by commercial for life insurance. Station promo for traffic reports aired, followed by female giving traffic report. Announcer capped report by saying "News-Talk 560 W-I-N-D." (RB-PA)
- 880 WFRD OH Columbus-Worthington - 10/14 1300 - Legal ID "The Word - 880 W-R-F-D, Columbus-Worthington." Followed with recording of a speaker named Ty Nichols at the Moms In Touch Ministry. (RB*PA)
- 910 WLPT OH Marietta – 11/4 2206 – "News Talk 910 WLPT," Texas Motor Speedway coverage. New! (SC-ON)
- 950 WORD SC Spartanburg – 11/4 1731 – over WWJ/WROC mix with "first word traffic" local traffic report, ID as "News radio 1330 and 950 WORD", promo for News Channel 7 television. (MKB-ON)
- WPEN PA Philadelphia – 11/5 1636 – Local municipal political talk with candidate for city comptroller. New! (SC-ON)
- 970 WFUN OH Ashtabula – 11/5 1950 – Cleveland Cavaliers NBA basketball under WNED. Common at Burnt River but new here. (SC-ON)
- 1030 WBGS WV Point Pleasant – 11/4 2000 – On late with Fox Sports Radio, "you're tuned to AM 1030 WBGS, Point Pleasant, Gallopolis, The Informer," area ads. Should not be on at this hour. New! (SC-ON)
- 1120 WKQW PA Oil City – 11/5 0020 – "AM 1120 KQW," country, "western Pennsylvania weather," and "1120 Wild Catter Country." New! (SC-ON)
- 1150 CJRC PQ Gatineau – 11/7 0710 – dominant with CKOC off (transmitter damaged due to high winds?) with ID as "opinions, actualité à CJRC onze cinquante" into commentary on Canadian federal politics. (MKB-ON)
- 1160 WABY NY Mechanicville – 11/4 2300 – Calls heard in mix of stations at TOH. New! (SC-ON)
- WBYN PA Lehighton – 11/4 2300 – TOH ID includes WBYN 107.5 Boyertown (107-5 Alive), area ads. This is a much-wanted target at Burnt River. New! (SC-ON)
- 1180 WXLA MI Dimondale – 11/5 0824 – Lansing ads, soul and R'n B music. New! (SC-ON)
- 1260 CKHJ NB Fredericton – 11/8 1804 – fighting losing battle with ESPN sports talker (likely

- WNSS, Syracuse) with ID after local weather: "that's your CKHJ forecast", into C&W song. (MKB-ON)
- 1280 CFMB PQ **Montreal** – 11/2 0701 – creaming WHTK with news in Italian, mentioning "il rapporto Gomery" (the Gomery report on Liberal Party graft under ex-PM Jean Chrétien), local weather, into pop song sounding like Céline Dion in Italian. (MKB-ON)
- 1510 WPGR PA **Monroeville** – 11/5 0538 – "the best in gospel music... WPGR... Pittsburgh's gospel music station." Should be running 1 watt at this hour. New! (SC-ON)
- 1630 KCJJ IA **Iowa City** - 11/8 0220 - Commercials for Town and Country Home Furnishings, followed by local weather forecast. Female voice gave station liner "1630 K-C-J-J." Mix of Top 40 and 80s hits followed, including Dead or Alive's "You Spin Me Round." A male voice liner "80s, 90s and now... The Mighty 1630, K-C-J-J." Sheryl Crow's "If It Makes You Happy" last song heard. (RB-PA)
- 1680 WDSS MI **Ada** - 11/5 1715 - Popped in with "WDSS 1680" through a jumble. WTTM barely heard. (DG-PA)
- 1690 WRLL IL **Chicago** - 10/24 0150 - Classic oldies format featuring Elvis Presley, Johnny Rivers, James Brown, et al. Slow station liner sung by female voices, "Real Oldies 1690". Also heard "Real Oldies For Chicago" station liner. (RB-PA)
- PRESUMED/UNID
- 950 WXGIp VA **Richmond** – 11/5 1640 – "ESPN Radio 950 weather..." But no location caught. Could also be WI and IN stations, but I consider these highly unlikely. Heard often at Burnt River but would be new for Toronto. (SC-ON)
- 960 WPLYp PA **Mt. Pocono** – 11/5 1618 – Presumed with 570 area code in ad. (SC-ON)
- 1210 WSKRp LA **Denham Springs** – 11/2 unknown time – On late with day power and ESPN basketball. I posted an early alert but hard to fully null KYW. Others did ID this. (SC*ON)
- 1420 WCOJp PA **Coatesville** – 11/5 1432 – Shippensburg University football (versus Westchester College). New! (SC-ON)

For Beginners

Greg Harris wdx9khy@sbcglobal.net

262 Juniper St.

Park Forest, IL 60466-1725

Shared techniques for the new and experienced DX'er

A receiver is important to DX with, and so is its antenna. Discussing antennas is always lively, as everyone has his or her favorite. I myself have homebrewed a lot of antennas. I'm an apartment DX'er with no country estate to put a rhombic on, so I have to make do with indoor antennas, and fairly small ones at that. Still, all in all, I get pretty fair results. Currently I'm using a rotating ferrite rod antenna with a built-in regenerative pre-amp. This works fantastically well, and by turning the loop I can null out interference or stations on frequency covering up the one I am trying to hear. Plans for fine antennas can be had from the NRC.

There are numerous plans for loops on the web. I made a shielded loop out of some junk coaxial cable I had laying around; plans for shielded loops are on the web as well. I sort of hung this loop around my picture window frame and used the window frame for support. I couldn't rotate it and it had no amp, but the cost was right (!) and it worked very well and kept much noise out of my receiver. Once I took about 20 feet of number 24 wire ... tied a small fishing weight to one end ... and lowered it from a smaller window. It worked very well. When I was done I hauled it in. Simple as that.

Most receivers (even portable ones) have an external antenna input of some sort. If yours doesn't, add a few extra feet of lead-in wire and wrap it around the receiver itself. Sound a trifle awkward? Well it is, but it works.

In my opinion there is no such thing as a bad antenna. They all work, some work better than others. They can be made cheaply and at least in my own case it has been great fun to experiment and see what works, and what works better.

There are many books on antennas in the radio section of most local libraries (look in the 621 Dewey decimal number area and you'll be in the area). Most will be for ham or shortwave listening use but will work well for BCB DX'ing as well. Get up the best antenna you can in the circumstances and the DX signals will roll in.

International

DX Digest

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

Bruce Conti nrcidxd@aol.com

46 Ridgefield Drive

Nashua, NH 03062-1174

With coastal DXpeditions taking place in New Jersey and Newfoundland, gang-of-one Mark Connelly went solo on a parallel effort. Mark's results are already in, plus additional outstanding logs from the rest of us, while we await the compilation of what should be some awesome DXpedition logs.

Transatlantic DX

- 549 **ALGERIA** *Alger Chaîne 1*, Les Trembles (35°17'N 00°34'W) NOV 5 0230 - Good over unID; Arabic vocal parallel 153 kHz. At 2325 excellent, local-like with 4 kHz IF; North African vocal. [Conti-NH] NOV 6 0531 - Arabic news headlines; good. [Connelly*B-MA] NOV 7 2157 - Vocal parallel 531, 890.95; good. [Connelly*R-MA]
- 558 **SPAIN** *RNE5* synchros NOV 6 0301 - Fast-talk Spanish news; over other. [Connelly*B-MA]
- 567 **IRELAND** *RTÉ Tullamore* (53°17'N 07°22'W) NOV 6 0445 - Light opera tenor male vocal; fair. [Connelly*B-MA] NOV 8 0058 - Woman in English, then jazz; over Spain. [Connelly*R-MA]
- 567 **SPAIN** *RNE5* synchros NOV 7 2201 - Fast Spanish newstalk; dominant. [Connelly*R-MA]
- 576 **CANARY ISLANDS // SPAIN** *RNE5* synchros NOV 5 0220 - Fair; folk vocal parallel 585 kHz. [Conti-NH] NOV 8 0058 - Parallel 684 with Spanish talk; mixed with second station, probably Algeria. [Connelly*R-MA]
- 585 **SPAIN** *RNE1* Madrid (40°28'N 03°52'W) NOV 4 2145 - Good; *Radio Nacional de España* ID and teletalk. [Conti-NH] NOV 7 2155 - Parallel 621 with man in Spanish; good. NOV 8 0057 - Almost as strong as the 590 WEZE/VOCM mix! This would be about 74.7 dBu (5.43 mV/m) per V-Soft. [Connelly*R-MA] NOV 9 0200-0205 - Loud and clear with ID by a woman in Spanish, "Radio Nacional de España," followed by news by a man and woman in Spanish. Armchair copy with selectivity in 4 kHz position. [DeLorenzo-MA]
- 594 **PORTUGAL** *R.Renascença*, Muge (39°05'N 08°41'W) NOV 5 2204 - Good; pop music, man in Portuguese with teletalk. [Conti-NH] NOV 5 2216-2250 - Good in peaks with folk, country & western, and pop music including 1990 hit "Black Velvet" by Alannah Myles. 590 WEZE splatter reduced by phasing. New. [DeLorenzo-MA] NOV 6 0308 - Woman in Portuguese; through tough WEZE slop. [Connelly*B-MA] NOV 8 0034 - Parallel 963 with Portuguese teletalk; through WEZE/VOCM slop. 0057 woman in Portuguese; good. [Connelly*R-MA]
- 603 **FRANCE** *France Info*, Lyon (45°53'N 04°57'E) NOV 8 0056 - Parallel 1206 with soothing light classical music; excellent, over Spain. [Connelly*R-MA]
- 603 **SPAIN** *RNE5* synchros NOV 7 2203 - Parallel 621 with news; good. [Connelly*R-MA]
- 612 **MOROCCO** *RTM A*, Sebaâ-Aioun (33°54'N 05°23'W) NOV 7 2153 - Parallel 207 with religious-sounding group vocal, then woman and man in Arabic; very good. [Connelly*R-MA]
- 621 **CANARY ISLANDS // SPAIN** *RNE1* synchros, Santa Cruz de Tenerife et al. NOV 6 0306 - Woman in Spanish, tropical-style vocal; excellent. [Connelly*B-MA] NOV 7 2155 - Parallel 585 with man in Spanish; excellent. [Connelly*R-MA]
- 639 **SPAIN** *RNE1* La Coruña et al. NOV 6 0309 - Parallel 621 with tropical female Spanish vocal; good. [Connelly*B-MA]
- 648 **SPAIN** *RNE1* Badajoz (38°53'N 06°58'W) NOV 8 0054 - Parallel 621 with Spanish teletalk; fair. [Connelly*R-MA]
- 657 **SPAIN** *RNE5* Madrid (40°28'N 03°52'W) NOV 4 2205 - Good; "Radio Cinco, todo noticias" ID after top of the hour news. [Conti-NH] NOV 8 0054 - Parallel 621 with Spanish teletalk; loud. [Connelly*R-MA]
- 666 **PORTUGAL** *RDP* synchros NOV 4 2215 - Good; futebol play by play in Portuguese parallel 9460 kHz. [Conti-NH] NOV 8 0047 - Parallel 720 with classical guitar and violins; good. [Connelly*R-MA]
- 675 **NETHERLANDS** *Arrow Rock Radio*, Lopik (52°01'N 05°03'E) NOV 8 0052 - Lou Reed song; fair. [Connelly*R-MA]
- 684 **SPAIN** *RNE1* Sevilla (37°12'N 05°55'W) NOV 8 0051 - Spanish teletalk; very good, slight WRKO splash. [Connelly*R-MA]
- 693 **UNITED KINGDOM** *BBC R. 5 Live*, Droitwich et al. NOV 7 2206 - Man and woman with news including item about rioting in France; good, over others. [Connelly*R-MA]



- 702 **MOROCCO** *RTM Sebaa-Aioun* NOV 8 0050 - Female Arabic chant; good. [Connelly*R-MA]
- 711 **FRANCE** *France Info, Rennes* (47°51'N 01°30'W) NOV 7 2208 - French talk; in "het sandwich" with 710 WOR and 711.06 W. Sahara. [Connelly*R-MA]
- 711.06 **WESTERN SAHARA** *RTM Addakhla* (23°42'N 15°56'W) NOV 4 2235 - Fair; North African vocal and drums, loud het wiping out 710 WOR analog and probably interfering with the IBOC digital which was on until 2300. [Conti-NH]
- 720 **PORTUGAL** *RDP 1 synchros* NOV 8 0047 - Parallel 666 with classical guitar; equal to CHTN! [Connelly*R-MA]
- 738 **SPAIN** *RNE1 Barcelona* (41°23'N 02°12'E) NOV 7 2209 - Fast Spanish newstalk; to good peak over CHCM slop. [Connelly*R-MA]
- 747 **CANARY ISLANDS** // **SPAIN** *RNE5 synchros* NOV 7 2212 - Woman in Spanish; mixed with Netherlands. [Connelly*R-MA]
- 747 **NETHERLANDS** *747AM Flevoland* (52°23'N 05°25'E) NOV 7 2212 - Dutch talk, Middle Eastern style flute music; over/under Spain-Canaries. [Connelly*R-MA]
- 756 **GERMANY** *Deutschlandfunk, Braunschweig & Ravensburg* NOV 5 2247 - Good; "In the Mood" big band instrumental, man in German, parallel 6190 kHz. [Conti-NH] NOV 8 0045 - Classical music; good. [Connelly*R-MA]
- 756 **SPAIN** *R.Euskadi, Bilbao* (43°15'N 02°54'W) NOV 7 2212 - Spanish teletalk; over low-pitched rumble. [Connelly*R-MA]
- 765 **SWITZERLAND** *RSR Option Musique, Sottens* (46°39'N 06°44'E) NOV 5 0330 - Excellent; French vocal, "Option Musique" jingle. [Conti-NH] NOV 6 0438 - French vocal, then "Pata Pata" by Miriam Makeba (from '67); fair to good. NOV 8 2140 - "Maxwell's Silver Hammer" by the Beatles; easy listening in 6 kHz bandwidth as 760 (Brazil/Venezuela) and 770 (WABC) were much weaker. [Connelly*B-MA] NOV 7 2213 - "Sad Lisa" by Cat Stevens; very good. NOV 8 0044 - "A Whiter Shade of Pale" by Procol Harum; local-like! [Connelly*R-MA]
- 774 **EGYPT** *Middle East Radio, Tanta* (30°45'N 30°57'E) NOV 7 2215 - Arabic talk by man; overtaking Spain. [Connelly*R-MA]
- 774 **SPAIN** *RNE1 synchros* NOV 4 2300 - Good; "Radio Nacional de España, Informativos" and news, significant synchro echo. [Conti-NH] NOV 6 0433 - Man and woman in Spanish; fair. [Connelly*B-MA]
- 783 **MAURITANIA** *R.Mauritanie, Nouakchott* (18°07'N 15°57'W) NOV 7 2217 - Rustic Arabic vocal, drums, and gong or cow-bell like instrument; somewhat over likely Portugal and Spain mix. [Connelly*R-MA]
- 792 **FRANCE** *France Info, Limoges* (45°56'N 01°10'E) NOV 8 0043 - Parallel 1206 with classical music; slightly over *SER* Spain. [Connelly*R-MA]
- 792 **SPAIN** *SER Sevilla* NOV 7 2217 - Parallel 873 with fast Spanish talk; good. [Connelly*R-MA]
- 801 **SPAIN** *RNE1 synchros*, NOV 7 2219 - Parallel 855 with Spanish discussion; fair over apparent Arabic station. [Connelly*R-MA]
- 819 **EGYPT** *ERTU Batra* (31°09'N 31°27'E) NOV 7 2220 - Parallel 12050 with a cappella Arabic vocal; over apparent Spanish station and rumble. [Connelly*R-MA]
- 837 **CANARY ISLANDS** // **SPAIN** *COPE synchros* NOV 7 2224 - Spanish talk; over two others (likely France, Azores). [Connelly*R-MA]
- 855 **SPAIN** *RNE1 synchros* NOV 7 2219 - Parallel 801 with Spanish discussion; mixed with probable Romania. [Connelly*R-MA]
- 864 **EGYPT** *ERTU Santah* (30°45'N 31°08'E) NOV 8 0041 - *Holy Koran Program*, Arabic male vocal; way over France. [Connelly*R-MA]
- 864 **FRANCE** *France Bleu, Villebon-sur-Yvette* (48°41'N 02°14'E) NOV 6 0431 - "Nights in White Satin" by the Moody Blues; to good peak. NOV 8 2138 - Soul music; excellent. [Connelly*B-MA] NOV 7 2225 - Woman in studio, man on phone; good. [Connelly*R-MA]
- 873 **SPAIN** *SER synchros* NOV 6 2241 - Fast echoey Spanish talk; fair. [Connelly*B-MA] NOV 7 2217 - Talk parallel 792; fair. [Connelly*R-MA]
- 882 **CANARY ISLANDS** // **SPAIN** *COPE synchros* NOV 7 2228 - Parallel 837 with Spanish teletalk; good. [Connelly*R-MA]
- 882 **UNITED KINGDOM** *BBC R.Wales, Washford* (51°10'N 03°21'W) NOV 8 0038 - "Give Me All Your Lovin'" by ZZ Top, then British DJ mentioned "band from Dallas, Texas"; super-loud; way over *COPE*. [Connelly*R-MA]
- 890.95 **ALGERIA** *Chaîne 1, Algiers* (36°40'N 03°09'E) NOV 7 2157 - Parallel 531, 549 with Arabic male vocal and flutes. [Connelly*R-MA]
- 909 **UNITED KINGDOM** *BBC R.5 Live synchros* NOV 7 2244 - Mention of a player from Wales on a national team, then auto racing and boxing news; good. [Connelly*R-MA]

- 918 **SPAIN** *R.Intercontinental*, Madrid NOV 8 2135 - Tentative; bits of apparent Spanish talk; in massive CJCH slop. [Connelly*B-MA]
- 927 unID NOV 8 0036 - Back-to-back dance-club music, no talk; poor. [Connelly*R-MA]
- 936 **SPAIN** *RNE5* synchros NOV 7 2239 - Parallel 855 with man talking about highways; fair over others. [Connelly*R-MA]
- 945 **FRANCE** *France Info*, Toulouse (43°21'N 01°20'E) NOV 7 2244 - Parallel 1206 with French interview; excellent. [Connelly*R-MA]
- 954 **SPAIN** *Onda Cero*, Madrid NOV 7 2246 - Spanish-sounding talk; in nasty 960 CHNS slop. [Connelly*R-MA]
- 963 **PORTUGAL** *R.Renascença*, Seixal (38°38'N 09°05'W) NOV 8 0034 - Parallel 594 with Portuguese talk, teletalk; barely over two others and CHNS slop. [Connelly*R-MA]
- 972 **SPAIN** *RNE1* synchros NOV 8 2150 - Spanish talk; in co-channel jumble and in rough slop from 970 WZAN and 980 WCAP. [Connelly*B-MA]
- 981 **ALGERIA** *RTVA Chaîne 2*, Algiers (36°40'N 03°09'E) NOV 7 2144 - Arabic talk by two men; good. [Connelly*R-MA]
- 999 **SPAIN** *COPE* Madrid (40°28'N 03°52'W) NOV 6 0538 - Spanish newstalk; very good. [Connelly*B-MA] NOV 7 2145 - Reverberated Spanish talk by man; loud, way over Arabic music station. NOV 7 2248 - Spanish talk (likely adverts) with short music segments; loud! [Connelly*R-MA]
- 1008 **CANARY ISLANDS** *Punto Radio*, Las Palmas NOV 8 2151 - *Punto Radio* ID and fast Spanish talk; to good peak over WINS slop. [Connelly*B-MA]
- 1008 **NETHERLANDS** *Radio 10 Gold*, Flevo (52°23'N 05°25'E) NOV 8 0032 - "You're So Vain" by Carly Simon; initially atop, then covered by *Punto Radio*, Canaries. [Connelly*R-MA]
- 1017 **GERMANY** *SWR Cont. R.*, Wolfsburg (49°53'N 08°03'E) NOV 8 0029 - German talk mentioning Slovakia. [Connelly*R-MA]
- 1026 **SPAIN** *SER* synchros, NOV 8 0022 - Parallel 1116 with woman in Spanish; poor. [Connelly*R-MA]
- 1035 **PORTUGAL** *R.Clube Português*, Belmonte NOV 7 2254 - Dr. Hook song "When You're in Love With a Beautiful Woman", jingle, then Portuguese talk, dance music; huge signal, easy with WBZ phased. [Connelly*R-MA]
- 1044 **MOROCCO** *Sebaa-Aioun* (33°54'N 05°23'W) NOV 4 2311 - Arabic shouting (political speech or preaching); over Spain. [Connelly*B-MA]
- 1044 **SPAIN** *SER* synchros NOV 8 0019 - Parallel 1116 with woman in Spanish; over low growl. [Connelly*R-MA]
- 1053 **UNITED KINGDOM** *TalkSport* synchros NOV 8 2132 - Adverts with phone numbers; fair over others. [Connelly*B-MA]
- 1062 **DENMARK** *Danmarks Radio*, Kalundborg (55°40'N 11°04'E) NOV 8 2130 - Rock song (Steve Winwood or similar); good. NOV 8 2152 - Woman in Danish; good. More slop from 1070 CBA than from 1060 WBIX. [Connelly*B-MA]
- 1062 **ITALY** *Rai Radio 1* synchros NOV 7 2257 - Italian talk; fair. [Connelly*R-MA]
- 1071 **SPAIN** *Euskadi Irratia*, Bilbao NOV 7 2318 - Parallel 1197 with Spanish talk by woman; through CBA slop. [Connelly*R-MA]
- 1080 **SPAIN** *SER* synchros NOV 8 0018 - Parallel 1116 with woman hosting Spanish teletalk show; about even with phased WTIC and a bit over YVQJ. [Connelly*R-MA]
- 1089 **UNITED KINGDOM** *TalkSport* synchros NOV 7 2259 - Advert for CD's, clip of "Sultans of Swing" by Dire Straits; good. [Connelly*R-MA]
- 1098 **SPAIN** *RNE5* synchros NOV 7 2300 - Pips, very echoey Spanish news. [Connelly*R-MA]
- 1107 **SPAIN** *RNE5* synchros NOV 7 2303 - Parallel 1098 with fast-talk news by man and woman in Spanish; fair. [Connelly*R-MA]
- 1116 **SPAIN** *SER* synchros NOV 7 2306 - Spanish teletalk; good. [Connelly*R-MA]
- 1134 **CROATIA** *Glas Hrvatske*, Zadar (44°06'N 15°15'E) NOV 6 2239 - Croatian talk by man; very good. NOV 8 2153 - *Le Mystere des Voix Bulgares* or similar female folk group vocal; very good over Spain. [Connelly*B-MA] NOV 8 0016 - Slavic talk; dominant. [Connelly*R-MA]
- 1143 **SPAIN** *COPE* synchros NOV 7 2309 - Parallel 999 with two men in Spanish; fair. [Connelly*R-MA]
- 1152 **SPAIN** *RNE5* synchros NOV 7 2310 - Parallel 774 with "When a Man Loves a Woman" by Percy Sledge; good. [Connelly*R-MA]
- 1161 **SPAIN** *Euskadi Irratia*, San Sebastián NOV 7 2312 - Bits of Spanish talk and a second station; in tough WSKW slop. [Connelly*R-MA]
- 1179 **CANARY ISLANDS** // **SPAIN** *SER* synchros NOV 7 2313 - Parallel 1116 with fast Spanish talk; over others. [Connelly*R-MA]

- 1179 **SWEDEN** *R.Sweden Int'l*, Sölvesborg (55°59'N 14°40'E) NOV 11 0315 - Fair over/under Canaries/Spain; operatic vocal, loud het against 1180 *R.Rebelde* Cuba with WHAM nulled. [Conti-NH]
- 1197 **SPAIN** *Euskadi Irratia*, Vitoria NOV 7 2318 - Parallel 1071 with woman in Spanish; occasionally over jumble. [Connelly*R-MA]
- 1206 **FRANCE** *France Info*, Bordeaux (44°57'N 00°11'W) NOV 6 0255 - "Sounds of Silence" by Simon & Garfunkel, then French vocal; good. [Connelly*B-MA] NOV 7 2244 - Parallel 945 with interview; excellent. [Connelly*R-MA]
- 1214.83 **ALBANIA** *Fllakë* NOV 8 2218 - Choral music; poor. Needed 1.8 kHz bandwidth, LSB to separate audio from 1215 UK/Spain. [Connelly*B-MA]
- 1215 **SPAIN** *COPE* synchros NOV 6 0256 - Echoey Spanish talk; over UK. [Connelly*B-MA]
- 1215 **UNITED KINGDOM** *Virgin R.* synchros NOV 8 2128 - *Virgin Radio* mention, advert with boy talking to girl on the telephone, then a Police song; good, over Spain. [Connelly*B-MA] NOV 11 0230 - Poor in mix with Spain and an unID het likely from the off-frequency Albanian, with a load of slop from 1210 WPHT difficult to null tonight. [Conti-NH]
- 1224 **SPAIN** *COPE* synchros NOV 8 2126 - Echoey Spanish teletalk; fair. [Connelly*B-MA]
- 1242 **FRANCE** *France Info*, Marseille (43°16'N 05°18'E) NOV 7 2328 - Parallel 1206 with mellow dance music, then woman in French; slightly over WBUR slop. [Connelly*R-MA]
- 1251 **LIBYA** *Libyan Jamahiriya*, Tripoli (32°50'N 13°00'E) NOV 6 2127 - Arabic vocal; getting through IBOC rubbish from 1260 WMKI. [Connelly*B-MA]
- 1287 **SPAIN** *SER* synchros NOV 7 2329 - *SER* mention, man in Spanish; fair. [Connelly*R-MA]
- 1296 **SPAIN** *COPE* Valencia NOV 6 0541 - Fast Spanish talk by man; fair. [Connelly*B-MA] NOV 11 0220 - Fair; teletalk over presumed *Radio XL* subcontinental Indian music. [Conti-NH]
- 1305 **SPAIN** *RNE5* synchros NOV 11 0210 - Instrumental music and talk parallel 1107; motorboating over an unID signal. [Conti-NH]
- 1314 **NORWAY** *NRK Kvitsøy* (59°03'N 05°26'E) NOV 7 2330 - Norwegian talk; evenly mixed with Spain, in CKEC slop. [Connelly*R-MA] NOV 11 0150 - Good; man and woman in Norwegian, folk/rock vocal. [Conti-NH]
- 1314 **SPAIN** *RNE5* synchros NOV 7 2330 - Spanish talk; over/under Norway. [Connelly*R-MA]
- 1341 **CANARY ISLANDS // SPAIN** *SER* synchros, NOV 8 0013 - Bits of Spanish talk; poor. [Connelly*R-MA]
- 1341 **NORTHERN IRELAND** *BBC R.Ulster*, Lisnagarvey (54°30'N 06°04'W) NOV 8 2124 - Sports-related talk; good. [Connelly*B-MA]
- 1359 **SPAIN** *RNE* Arganda del Rey NOV 6 0542 - Spanish talk, screamer het against WLYN. [Connelly*B-MA] NOV 7 2331 - Parallel 774 with telephone interview; excellent. [Connelly*R-MA]
- 1377 **FRANCE** *France Info*, Lille (50°31'N 02°59'E) NOV 5 2007 - Woman in French; good. NOV 8 2156 - Man and woman in French; excellent, one of the loudest TA's. [Connelly*B-MA] NOV 7 2332 - Parallel 1206 with man in French; fair to good over WMYF slop. [Connelly*R-MA]
- 1404 **FRANCE** *France Info* synchros NOV 7 2333 - Parallel 1206 with French talk. [Connelly*R-MA]
- 1413 **SPAIN** *RNE5* synchros NOV 7 2334 - Parallel 774 with teletalk; poor to fair. [Connelly*R-MA]
- 1422 **ALGERIA** Algiers (36°40'N 03°09'E) NOV 8 2158 - Pop dance music, man in French; good signal after 1430 WXKS shut its IBOC off. [Connelly*B-MA]
- 1422 **GERMANY** *Deutschlandfunk*, Heusweiler (49°21'N 06°55'E) NOV 6 0543 - Operatic vocal, classical instrumentation; excellent. [Connelly*B-MA]
- 1431 **DJIBOUTI** *R.Sawa*, Arta (11°31'N 42°50'E) NOV 8 2200 - Arabic talk; in WXKS slop. [Connelly*B-MA]
- 1449 **LIBYA** *Voice of Greater Arab Homeland*, Misurata NOV 8 2201 - Telco-quality Arabic newstalk; fair through 1450 WBNP/CFAB/WRKD slop blob. [Connelly*B-MA]
- 1467 **FRANCE** *TWR* Roumoules (43°47'N 06°09'E) NOV 5 2235 - Excellent, s9+20; Arabic program. [Conti-NH] NOV 4 2315 - *TWR* interval signal. NOV 6 2135 - Woman in Arabic; fair to good. NOV 8 2203 - Arabic discussion with man and woman; good, easily getting by local WAZN. [Connelly*B-MA]
- 1485 **MELILLA // SPAIN** *SER* synchros NOV 6 2136 - Audio clip of public address, then Spanish teletalk about it. NOV 8 2206 - Spanish newstalk; surprisingly loud. [Connelly*B-MA]
- 1503 **SPAIN** *RNE5* Piñeira and La Línea de la Concepción NOV 7 2339 - Woman in Spanish; fair. [Connelly*R-MA] NOV 11 0040 - Fair in WTOP splatter; teletalk in Spanish. [Conti-NH]
- 1512 **BELGIUM** *R.Vlaanderen Int'l/R.Netherlands*, Wolvertem (50°59'N 04°18'E) NOV 8 2208 - Dutch-sounding talk in brutal WWZN slop. [Connelly*B-MA]

- 1521 **SAUDI ARABIA** BSKSA Duba (27°20'N 35°45'E) NOV 5 1950 - Parallel 9555, 9870 with energetic modern Arabic group vocal, drums, guitars, and violins; good pre-sunset reception. NOV 6 2137 - Man in Arabic, then pop-style Middle Eastern music; good. NOV 8 2052 - Arabic talk about Saudi Arabia and several African countries; excellent. [Connelly*B-MA]
- 1521 **SPAIN** SER Castellon NOV 8 0004 - Parallel 1539 with Spanish news; fair with WWKB phased. [Connelly*R-MA]
- 1539 **GERMANY** *Evangeliums Rundfunk*, Mainflingen (50°00'N 08°55'E) NOV 6 0545 - German female religious vocal; in WDCD slop. [Connelly*B-MA]
- 1539 **SPAIN** SER synchros NOV 8 0005 - Parallel 1521 with Spanish news; poor to fair through WDCD slop. [Connelly*R-MA]
- 1548 **KUWAIT** *R.Sawa*, Kabd-Kuwait City (29°10'N 47°32'E) NOV 8 0006 - Arabic music, Sawa ID; initially mixed with two others, then atop. [Connelly*R-MA] NOV 8 2211 - Woman in Arabic with Sawa mention; excellent. Somewhat less 1550 RASD interference than noted at the shore in Rowley. [Connelly*B-MA]
- 1550 **ALGERIA** RASD Clandestine, Tindouf NOV 7 2342 - North African music (similar to Berber stuff 1044 often plays); good, way over CBE/WDZK. [Connelly*R-MA] NOV 8 2212 - Arabic talk by man, synthesizer music segments; a lot weaker than at Rowley, but still dominating the channel. [Connelly*B-MA]
- 1557 **FRANCE** *France Info*, Fontbonne NOV 6 0546 - Man in French with interspersed music. [Connelly*B-MA] NOV 7 2357 - Parallel 1206 with man and woman in French; good with WQEW phased. [Connelly*R-MA]
- 1575 **UNITED ARAB EMIRATES** *R.Farda*, Al Dhabiya (24°11'N 54°14'E) NOV 8 0007 - Middle Eastern music; over jumble of others. [Connelly*R-MA] NOV 8 2213 - Mideast disco; fair. [Connelly*B-MA]
- 1584 **CEUTA** *RadiOlé*, Ceuta (35°53'N 05°17'W) NOV 6 2143 - Folk vocal and guitar, then man in Spanish; over SER. [Connelly*B-MA] NOV 7 2350 - Moorish-style Spanish vocal and guitar; local-like! [Connelly*R-MA]
- 1602 **SPAIN** *R.Vitoria*, Vitoria (42°51'N 02°39'W) NOV 7 2351 - Man in Spanish; over SER and WUNR slop. [Connelly*R-MA]

Pan-American DX

- 530 **TURKS & CAICOS** *R.Visión Cristiana Internacional*, South Caicos OCT 22 0200 - "WRVC 1330 New York and Radio Cristiana Turks & Caicos Islands," ID in English weak under CDOT TIS. [Heinen-CO]
- 535 **GRENADA** GBC St. George's (12°04'N 61°45'W) NOV 8 0101 - From-the-scene news correspondent; good signal but distorted audio. [Connelly*R-MA]
- 550 **MEXICO** XEPL Ciudad Cuahutémoc (28°27'N 106°48'W) OCT 21 0404 - AM 550 XEPL Cuahutémoc in German with religious programming, call sign ID in German. [Heinen-CO]
- 550 **VENEZUELA** YVKE *Mundial*, Caracas (10°32'N 66°55'W) NOV 5 0245 - Good; telephone interview regarding Americas Summit, "hora Mundial" time check. [Conti-NH]
- 555 **ST. KITTS & NEVIS** ZIZ Basseterre (17°19'N 62°44'W) NOV 8 0103 - Man with Caribbean accent talking about the value of education; good. [Connelly*R-MA]
- 560 **CUBA** *R.Rebelde*, Moa (20°40'N 74°56'W) NOV 5 0250 - Good; "música cubana" program parallel 670 kHz. [Conti-NH]
- 570 **CUBA** *R.Reloj*, Santa Clara (22°24'N 79°56'W) NOV 9 0459 - Letters R R in Morse, weak mixed with domestics. [Heinen-CO]
- 580 **MEXICO** XEHO Ciudad Obregón (27°35'N 109°56'W) OCT 21 0906 - "XEHO La Voz de..." and faded, poor with the domestics. [Heinen-CO]
- 580 **MEXICO** XEMU Piedras Negras (28°44'N 100°31'W) OCT 21 1001 - National anthem, XEMU "La Rancherita del Aire" Piedras Negras 580 AM sign on announcement. Fair over KSAZ. [Heinen-CO]
- 620 **CUBA** CMGN *R.Rebelde*, Colón (22°42'N 80°52'W) NOV 5 0205 - IDs and music programming (including soft instrumental version of a Simon & Garfunkel song) parallel 670, 710, 1180, and 5025 kHz. [Chernos-ON] NOV 11 0345 - Fair over WSNR Jewish program; familiar synthesized attention signal with ID and time check, then teletalk, parallel 670 kHz. [Conti-NH]
- 650 **MEXICO** unID OCT 23 0438 - Spanish romantica music, at times atop KSTE. (No sign of KENI, hmmph!) Is this the same station I heard earlier in southern California on July 18? Fair; heard in San Jose. [Park-CA]
- 660 **CUBA** CMHG *R.Progreso*, Santa Clara (22°24'N 79°56'W) NOV 5 0340 - Good over unID in WFAN null; chime with "once cuarenta minutos" UTC-4 time check and network ID. [Conti-

NH]

- 660 **MEXICO** XEEY *La Consentida*, Aguascalientes (21°53'N 102°37'W) NOV 5 1138 - "La Consentida" ID and lively Mexican music. [Chernos-ON]
- 690 **MEXICO** XETRA *Fabulous 690*, Tijuana BCN (32°26'N 117°05'W) OCT 25 1431 - Spanish ID by woman, "XETRA Tijuana, Mexico," jingle "Fabulous 690" introducing weather, into Peggy Lee's "Fever." Has not switched to Spanish yet. Barely audible at night, but in the clear at sunrise. Fair to poor; 680 KNBR slop. [Park-CA*]
- 860 **MEXICO** XEMO Tijuana (32°31'N 116°58'W) OCT 21 0300 - "XEMO AM 860 Tijuana, La Poderosa" ID mixing with KMVP and others. [Heinen-CO]
- 895 **ST. KITTS & NEVIS** VON Bath Village (17°07'N 62°37'W) NOV 7 2238 - Soca male vocal and band; good. [Connelly*R-MA]
- 920 **MEXICO** XEHQ Hermosillo (29°03'N 110°53'W) NOV 6 - "Radio Capital" XEHQ 920 AM and FM ID, fair over domestics. [Heinen-CO]
- 940 **MEXICO** XEYJ Nueva Rosita NOV 5 0402 - XEYJ Nueva Rosita COAH call ID and promos under KIXZ. [Heinen-CO]
- 1000 **BRAZIL** ZYK522 *R.Record*, São Paulo (23°33'S 46°38'W) NOV 6 0538 - Portuguese talk; mixing with probable Colombia. Best with notch and USB 1.8 kHz bandwidth engaged to dodge stronger 999 Spain. [Connelly*B-MA]
- 1020 **CUBA** *R.Reloj*, unknown location NOV 5 0200 - Spanish news and clock ticks under KDKA, parallel to 790, 950 kHz. The 1020 is possibly in Moa. [Chernos-ON]
- 1110 **VENEZUELA** YVQT *R.Carúpano*, Carúpano (10°40'N 63°18'W) NOV 7 2305 - Political slogans and talk mentioning "el Presidente Chavez" and "frente de trabajo"; loud, over WBT. [Connelly*R-MA]
- 1180 **CUBA** *R.Rebelde*, Villa María (23°07'N 82°22'W) NOV 7 2316 - Parallel 5025 with outdoor political rally; dominant. [Connelly*R-MA]
- 1350 **MEXICO** XETB Torreón (25°35'N 103°29'W) NOV 8 0303 - XETB Torreón 1350 AM ID, mentions of "Música Bonita" and nostalgia style Spanish music. [Heinen-CO]
- 1500 **VENEZUELA** YVRZ *R.Dos Mil*, Cumaná (10°24'N 64°09'W) NOV 7 2336 - Excited talk, *Dos Mil* mention; noted through phased WTOP. [Connelly*R-MA]
- 1560 **MEXICO** XEJPV Zaragoza-Ciudad Juárez (31°38'N 106°19'W) OCT 26 0505 - "XEJPV Radio Viva, Ciudad Juárez, Chihuahua," into Spanish religious music. Dominant on north/south Flag. [Heinen-CO]

Contributors

Saul Chernos, Ontario DX Association Radio Camp at Shadow Lake, near Stouffville ON; Sangean ATS909, Radio Shack loop, 200-ft unterminated longwire pointed approximately north-south.
Mark Connelly, Billerica MA (42°32'N 71°13'W); R8A, dual-feedline Flag: 5 x 10.6 m to DX Engineering RPA-1 amplifier.

Mark Connelly, Rowley MA (42°45'N 70°50'W); R8A, DXP-6 phasing unit, 3-m vertical whip to 81:1 xfmr to RPA-1 amp, 60-m east- aimed horizontal wire to 9:1 xfmr to RPA-1 amp.

Bruce Conti, Nashua NH (42°43'N 71°31'W); R8B, MWDX-5, 15/23/15-m Ewe antennas east and south.

Marc DeLorenzo, South Dennis MA (41°42'N 70°09'W); JRC NRD-525, Mini DXP-3 phasing unit, noise-reduced vertical, broadband loop, longwire.

Wayne Heinen, Aurora CO (39°39'N 104°46'W); Drake R8B, Super Phaser, east/west Flag, north/south Flag, modified NRC Altazimuth loop.

Dale Park, San Jose CA; Dodge car radio.

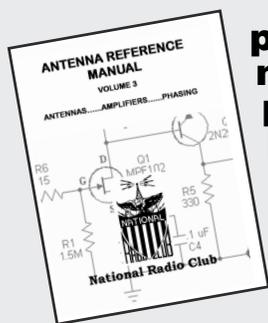
Dale Park, Cordelia CA*; Sangean ATS-818CS.

73 and Good DX!

NRC's Antenna Reference Manual, Vol. 3

Now available - a compilation of 17 articles on antennas, phasing impedance matching, and RF amplification for medium wave DX'ers. Some of the articles have been published in DX News between 1999 and 2004. 8 1/2" X 11" bound book format.

Member price: \$11.95 Post Paid; non-member price \$16.95 Post Paid For overseas surface mail, add \$4.00 for first copy, \$.64 for each additional copy; for airmail, add \$8.00 for each 3 or fraction of 3. Order from NRC Publications - P. O. Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.



The 2005/2006 National Radio Club Publications Catalog

Books, Reprints, and Other Aids to DX'ers

Publications

As of this DXN publication date, all items listed herein are available (except as noted). If you need any information on products that may still be available but are no longer listed in this catalog, please order **ZAL- NRC ARCHIVED PUBLICATIONS LIST**. These are items which are dated or have been superseded including bandscans and other early technical articles.

Remember, each purchase benefits the non-profit **National Radio Club**

AM Radio Log 26th Edition - Order Item **ARL**

The Current 26th Edition is for the 2005-2006 DX Season's edition of the hobby's original BCB reference for the U.S. and Canada. Packed with the quick reference station data that you've always loved. It includes cross references by city and call letter.

FM Atlas The New 20th Edition - Order Item **FMA** Dr. Bruce Elving's New 19th Edition. Contains listings by frequency and alphabetical listings by state. state by state location maps. Translators are listed by state. Entries include power, antenna height and format.

Getting Started in Medium Wave DX'ing - Order Item **GSM** Updated in 1995. This booklet is designed to assist the novice DX'er in pursuit of the hobby. It includes introductory articles on foreign and domestic DX'ing. Articles on QSL'ing, safety and DX gear are also included.

Beverage and Longwire Antennas Design and Theory - Order: **BAM** This manual is a compilation of numerous articles on the subject of design and theory of the beverage and longwire antennas that have appeared through the years in *DX News*. Some articles are available as reprints. This book gives details information on the theory of operation, construction and maintenance of a beverage antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" booklet format. **BAM** Contents:

The Coolum Beach Beverage 1983 Analysis of the Beverage Antenna

Beverage Basic Theory Two-Wire Phased Antennas

The Florida Beverage

The Care and Feeding of the Wave Antenna

A Non-Resonant Longwire Remote From Earth Ground

Loop Antenna Design and Theory - Order Item **LAM** Revised and updated in 1996.

This manual is a compilation of numerous articles on the subject of design and theory of the loop antenna that have appeared through the years in *DX News*. This book gives detailed information on the theory of operation, construction and maintenance of a loop antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" bound book format. **LAM** Contents:

Multi-Rod Ferrite Loop Antennas

Roll Your Own! (Loop)

Loop Antenna Theory and Practice

Long Wave Converter Detail

Loop Distortion Why get Skewed?

Pattern Controlled Loops

High Dynamic Range Balun Loop

BFE-C Loop Amplifier Card

The Hot Rod- Ferrite Loop Antenna

Loop Antenna Sensitivity

High Precision Direction Finding

High Performance Loop Amp

What's Wrong With Present Day Loop Antennas?

Antenna Reference Manual Volume 1 -

Order Item **ARM1** 8th Printing Digitally Enhanced and Updated for 2005! This book features the plans for the original NRC 4' FET Altazimuth loop antenna. Revised in the Spring of 2005 with digitally enhanced drawings and updated material sources!

This manual is a also contains other articles on the subject of antennas for medium wave DX'ers, most were originally published between 1969 and 1974 in *DX News*. Includes articles on air-core and ferrite core loops, antenna tuners for longwire antennas and antenna couplers. This is the original book which has been available for over 20 years. 8 1/2" X 11" bound book format. **ARM-1** Contents.....

NRC FET Altazimuth Loop

Balanced FET Amplifier

Thoughts on FET Loop Construction

NRC Two Foot Loop

Tips on Loop Construction

One Transistor Loop amplifier

Balanced and Unbalanced Loops

Direct Coupled Loops

A 'Collapsible' Loop for Travel

BCB DX'ers Beverage

Antenna Tuning Devices for Longwires

'Bob Flick' Loop Antenna Coupler

The Hawk Loop

Alternative Methods of Air Core

Loop Amplification

Antenna Reference Manual Volume 2 - Order Item **ARM2** 5th Printing Updated and Digitally Enhanced For 2005! This manual has also had digitally enhanced drawings and updated material sources added in the Spring of 2005. This manual is a compilation of numerous articles on the subject of antennas for medium wave DX'ers. Originally published between 1974 and 1981 in *DX News*. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and Beverage antennas and phasing units for use with Beverage antennas and longwires. 8 1/2" X 11" bound book format. ARM2 Contents....

A Good Loop is Easy and Cheap to Make
The "Harley Loop"

Whip Antenna Coupler for Portable Receivers

The Wedge Loop

AC Power Supply for FET Loop Amplifiers

Antenna Phasing

FET Loop Amplifier with Coaxial Output

Practical Phased Beverages

Phasing Unit Construction and Use

More on Phased Beverages

Phasing Unit Design Modifications

More Thoughts on Beverages

Floor Stand and Mounting Arrangements for Loops

Antenna Reference Manual Volume 3 - Order Item **ARM3** New In 2004! This manual is a compilation of numerous articles on the subjects of antennas, phasing, impedance matching and RF amplification for medium wave DX'ers. Some of the articles have been published in *DX News* between 1999 and 2004. Some articles were formerly available as reprints. 8 1/2" X 11" bound book format. ARM3 Contents:

All Articles by Mark Connelly WA1ION unless noted

BBL-1 Broadband Loop Antenna (Parts a & b)

Pennant Antenna with Remote Termination Control

Flag Antenna Construction and Test Results

Three Loop Antenna Array with Electrically-Rotatable Nulling

Phased Spaced Active Whips and Broadband Loops

Medium Frequency Amplifier Circuits Compared

TMB-1 Tri-Mode Buffer Amplifier Box

DXP-3 DXpedition Phasing Unit

Superphaser-2 Phasing Unit

FCA-1 Feedline Coupling Adaptor

New Termination Control Method for Flag, Pennant, and similar Antennas

Fabricating Impedance Transformers for Receiving Antennas (John Bryant)

Broadband Receiving Antenna Matching

Passive Broadband Phasing

NRC County Cross Reference - Order Item **CCR** Compiled by Bill Hale. This handy reference has a complete lists of counties in the USA and

Canada. These are listed alphabetically and cross referenced by state.

The Challenging Crystal Set - Ray Cole - Order Item **CCS** This interesting booklet shows you how to build a "modern" crystal set, just like the one your parents or grandparents might have built and used many years ago. The 40-page booklet is full of illustrations and excellent diagrams.

DX'ers Accessories and Aids

Sunrise/Sunset Maps - Order Item **SSM**

A set of 12 maps (8 1/2" x 11") with instruction sheet showing the average monthly sunrise/sunset times for the United States.

Map of U.S. & Canada - Order Item **MAP**

Map of the U.S. and partial Canada with state and provincial borders. Cities are not shown.

Broadcaster's Guide to DX - Order Items **EEG** (English) **SSG** (Spanish) - **FFG** (French) - **FMG** (FM DX) Tri-fold guides for use with reception reports explaining the broadcast band DX hobby, the history of the NRC and the importance of verifications to DX'ers. Sold 20 per order.

Log Sheets - Order Items ... **LG** (110 sheets) **LGS** (20 sheets) Organize by frequency with 25 entries per sheet possible. Space is available to add additional columns. Punched for a three - ring binder. 8 1/2" x 11". Sold 110 sheets per pack. (Additional pages are available in 20 sheet packs).

Audio Cassette Magazines

ALL RADIO - Volume I An interview with Dave Graupner, CEO of TM/Century. John Bowker reads an article about Clear Channel Radio's competition. Ken Onyschuk reads an article from his newspaper about jazz radio in Chicago. John Malicky gives us a tour of 540-CBEF. Mark Durenberger tells us about some CBS Milestones. John Bowker talks about FCC rules and regulations. Fred Vobbe talks about D.R.M. A story about a group of people that are trying to get ads pulled out of the Russ Limbaugh show. Will Liberal Talk Radio work? From N.P.R., a piece on the consolidation of radio, and old time radio. Del Rio, Texas, is looking to give Wolfman Jack a tribute. Fred Vobbe reads two stories on EAS fines and regulation. Fred talks with Leonard Kahn, of Kahn Communications about digital MW radio.

ALL RADIO - Volume II George Gimarc and Pat Reeder talk about their book, "Hollywood Hi-Fi!" and play examples of songs. Steve Eberhardt tells us why KLIF 1190 was an icon of radio. N.R.C. member Ben Dangerfield talking about what it was like to DX during World War II. Bob Savage, owner of WYSL, Bob talks about his career and radio, IBOC, programming, profanity on the air, and other topics. Ending feature; the Business Meeting Awards section from the 2003 convention in Dallas, and 2004 convention in Rochester NY. Three hours of talk about radio and the National Radio Club.

After Dark Volume 6 - Order ADC6

Four 90 minute cassettes in a plastic album. A look at Talk Radio - 1340 kHz Travelog - "Battle of the Century", the WJY story from radio's early days. Interviews on scanning and Longwave DX'ing. Sports on Radio, a history of radio and sports, plus lots more!

After Dark Volume 7 - Order ADC7

Four 90 minute cassettes in a plastic album. Stories of KVET Austin TX and WJJD Chicago IL. Pirate Radio in the US. Captain Flintstone is Grounded. International DX Report. Broadcast Pioneers by State and more.

After Dark Volume 8 - Order ADC8

Two 90 minute cassettes in a plastic album. An interview with guitarist Les Paul by Mark Durenburger. Air-checking as a hobby by Fred Vobbe. Internet phone scam information and more

After Dark Volume 9 - Order ADC9

Two 90 minute cassettes in a plastic album. The 1400 "Travellog" by John Bowker. "Radio Bemis". "Filing your Comments with the FCC". "Sex and Deception", The Dr. Laura scandal. "Screening Calls" An AP article about screening your phone

service. "Selling of Sports" by Kem Onyschuk and more

After Dark Volume 10 - Order ADC10

Two 90 minute cassettes in a plastic album. "A Visit to WODI-1230" a small market station. "Radio L.P.B." Low Power Broadcasting Inc.

After Dark Volume 11 - Order ADC11

Two 90 minute cassettes in a plastic album. "A Visit to WODI-1230" a small market station. "Radio L.P.B." Low Power Broadcasting Inc.

After Dark Volumes 1, 2, 3, 4 and 5 are listed in the NRC Archived Publications list Order reprint ZAL for more information

For Members Only!

Member Logo Stationary - Order Item STA
Logo Reception Report Forms -Order item EERF (English)

Items FFRF (French), SSRF (Spanish) - *available as sample form only.*

Membership Certificate - Order Item CERT
with NRC Logo Red and Blue on White

Reprints

THIS LIST SUPERSEDES ALL PREVIOUS LISTS AND ORDER FORMS WHICH SHOULD NOT BE USED. The number of pages in each article is indicated by ().

ANTENNAS

Many articles formerly in this section are in the Loop and Beverage Manuals.

A2 A ZERO SHARPENING DEVICE FOR A BCB LOOP. T. Holmes. If you're having trouble obtaining sharp nulls with a standard loop, this simple device may help. (1)

A3 A VERSATILE LONGWIRE ANTENNA COUPLER. R. Foxworth. How to get the maximum amount of signal from your longwire. (3)

A9 DOWN TO EARTH GROUNDS. G.P. Nelson. How to make low resistance ground connections for terminating a Beverage (2)

A10 A CALIFORNIA BEVERAGE. Fr. Jack Pejza. Results obtained at this Beverage site. (2)

A12 THE VERTICAL PICKUP PATTERN OF THE MW LOOPANTENNA. G.P. Nelson. Information for those doing horizon blockage experiments with a loop antenna. (4)

A13 USING TWO ANTENNAS TO GENERATE ASYMMETRICAL RECEIVING PATTERN. M.Levintow. Shows a simple way to skew your loop's pattern to effect a null that will permit reception of a station impossible to receive on a figure-8

loop antenna by itself. Reprints A5 and A6 are a requirement for understanding this technique. (3)

A14A NEW MEDICAL BREAKTHROUGH FOR LONGWAVE TA'S. C. Clayton. Instructions on how to build an inexpensive loop antenna for LW. (1)

A15 REVIEW OF THE DYMEK DA-3 ANTENNA. Pete Taylor, with notes by R. J. Edmunds. Evaluation of this MW antenna. (4)

A16 MORE ON BEVERAGE ANTENNAS. Wes Boyd. Beverage antenna theory and application. (2)

A17 MORE FERRITE LOOP ANTENNA INFO. Dallas Lankford. Inconsistencies in ferrite-core loop antenna theory. (3)

A19 NEBE: THE NEBRASKA BEVERAGE. D. Fischer, C. Dabelstein, R. Mitchell. Results at the Nebraska Beverage site. (7)

A20 THE LSCA-1. Ron Schatz. Construction plans for the Loop Sense Cardioid Array. Should yield a unidirectional receiving pattern when operated properly. (10)

A25 A NOVEL APPROACH TO BUILDING YOUR OWN BCB LOOP. M. Maloney. Ideas for improvements in operation and sturdiness of loop antennas. (4)

A27 SEVEN PASSIVE TUNERS. Mark Connelly. This article will introduce you to many different tuner designs and how they are used (10)

A29 REMOTELY-CONTROLLED ANTENNA TUNER RT-1. Mark Connelly. An introduction to the design of remote tuning for loop or wire antennas from distances of 50 feet or more. Use w/ A43 (7)

A30 REMOTELY TUNED DIRECTIONAL LOOP ANTENNA. E.L. Cummins. Loops ideas for building where interior mounted loops will not work. (11)

A31 SIMPLE CHEAP AND EFFECTIVE PRESELECTOR LONGWIRE TUNER-AMPLIFIER. B. Sherwood. Schematic and brief instructions are given. (3)

A33 ANTENNAS FOR AM BROADCASTING. Steve Kennedy. A brief history of early and current station antenna systems. (4)

A34 SOME ANTENNA EXPERIMENTS - PART 1. W.R. McIntosh. Ever heard of a Helical longwire? This article deals with compact antennas for use where space is limited. (3)

A35 THE PHASE ONE - A Delay Line Phasing Unit. Gerry Tho-

- mas. Description of an improved phasing unit design that can be built or is available in kit form. (3)
- A36 LOOP-LONGWIRE COMBINED ANTENNA.** P. Swain. "Sensing" antennas for DXing and direction finding. (3)
- A38 EXTREMELY LINEAR ELECTRICALLY TUNABLE ACTIVE RECEIVING ANTENNA.** Hopf and Lindenmeier. Technical discussion of an antenna system that is the optimum solution towards allowing undisturbed reception near transmitters. (5)
- A39 SIMPLE PASSIVE LONGWIRE TUNER.** Mark Connelly. A basic tuner that can eliminate mixing spurs caused by strong locals. (2)
- A40 AMPLIFIED PHASED SHORTWIRES.** Mark Connelly. Construction article. Utilizing an SM-2, phasing unit and short wire antenna. (8)
- A41 THE KOWALSKI LOOP.** Neal Perdue with comments from Paul Kowalski. A first-hand account of this ferrite core loop antenna. A non-technical review, with comparisons to the SM-2. (2)
- A42 THE MWT-1 FAMILY OF ANTENNA TUNERS.** Mark Connelly. Construction plans for the MWT-1, Mini MWT-1A, 1B and 1C antenna tuners (28)
- A43 RT-1 REMOTELY-TUNED ANTENNA TUNER.** Mark Connelly. Description and construction plans. (10)
- A44 THE MINI MWDX-3, A simple, Effective Phasing Unit.** Mark Connelly. Construction plans for a one-box phasing unit. Order also A55. (21)
- A45 THE MWDX-4 FAMILY OF PHASING UNITS.** Mark Connelly. Construction and use of two similar series of phasing units. (25)
- A46 WIND A COMPLETE-COVERAGE COIL FOR THE RADIO WEST LOOP.** Fritz Mellberg. Eliminate the need to change coils during tuning of the entire MW band on this antenna. (1)
- A47 TEST OF THE MITCHELL LEE LOOP AMPLIFIER.** Mark Connelly. A new low impedance input, 3-transistor amplifier used with series tuned loops is detailed, along with improvement ideas. (6)
- A48 YAD ANTENNA GIZMO** Jerry Starr. A simple-to-build antenna switching device. Will ground the antenna not in use while using the other; designed for 2 antennas and 1 receiver. (1)
- A52 COMPUTER-AIDED ANTENNA TUNER DESIGN.** Mark Connelly. This BASIC computer program determines which component values are used in your antenna tuner. Tuner schematics included. (7)
- A53 IMPORTANT LOOP, TUNER AND PHASER DESIGN CONSIDERATIONS ("Q" DEMYSTIFIED)** Mark Connelly. Technical article. The importance of "Q" and a BASIC program to find antenna tuner component values in light of the "Q" (7)
- A54 THE MITCHELL LEE AMPLIFIER: TWO TUNER IMPLEMENTATIONS.** Mark Connelly. Technical article. Tuner circuits using this amplifier. Reference also A47. (5)
- A55 HOTRODDING THE MINI-MWDX-3 PHASING UNIT.** Mark Connelly. Technical article. More on the Mini-MWDX-3. Requires reprint A44. (3)
- A57 MICRO-MWDX-4A LOOP VS WIRE PHASER.** Mark Connelly. Connelly. Technical Construction Article. (11)
- A59 LIL-1.** Dallas Lankford. Construction plans for a new circuit for combining a loop and inverted L antenna to generate a cardioid pattern. (3)
- A60 MEDIUM WAVE, A PRACTICAL APPROACH.** Graham Maynard. This is a consolidation of articles that were first published by the Medium Wave Circle of England. It outlines the authors construction of his MW DX receiving set-up. (12)
- A61 MWDX-5 PHASING UNIT.** Mark Connelly. The latest the series of Phasing Units. Construction article. (11)
- A62 MINI-MWDX-5. A SIMPLE PHASING UNIT.** Mark Connelly. Construction article. Similar to the MWDX-5 but simpler. A61 recommended (3)
- A63 RIBBON CABLE LOOPS.** Mark Connelly. A new loop concept. (5)
- A64 QUANTUM LOOP** Gerry Thomas & Mark Connelly. A new ferrite core loop. Reviewed and modified. (9)
- A66 SUPER BOOSTER BAR.** Gerry Thomas. For portable receivers. (2)
- A67 BUF-A AMPLIFIER.** Mark Connelly. A building block for many Connelly construction projects. (9)
- A68 HIGH PERFORMANCE LOOP AMPLIFIER.** Dallas Lankford (6)
- A69 NOISE & INTERFERENCE REDUCING ANTENNAS.** Wraight, Lankford & Connelly. (10)
- A70 REMOTELY TUNED LOOP RTL-1 & RTL-1A.** Mark Connelly. Also Contains the latest BBA-C1 Amplifier Card. (20)
- A73 THE MWT-2 REGENERATIVE TUNER.** Mark Connelly (21)
- A75 BEVMATCHER.** A broadband Antenna Matching and combing Unit. Mark Connelly. (8)
- A77 The RTU-1.** Mark Connelly. A remote tuning unit for active antennas. (11)
- A78 Coupler & Upgrades for the Quantum Loop.** G. Thomas (2)
- A79 SUPER MWDX-5 PHASING UNIT.** M. Connelly. Upgrade of Reprint A61 (16)
- A80 ANOTHER LOOK AT NOISE REDUCING ANTENNAS** by Mark Connelly (3)
- A81 ONE CHIP ACTIVE ANTENNAS** by Mark Connelly (3)
- A83 THE RTL-2 REMOTELY TUNED LOOP** by Mark Connelly (24)
- A84 THE DCP-1 DUAL CONTROLLED PHASER FOR REMOTELY TUNED ACTIVE ANTENNAS** by Mark Connelly (12)
- A85 DL-1 DELAY-LINE PHASE UNIT** by Mark Connelly (9)
- A86 THE MWT-3 REGENERATIVE TUNER CONTROLLER** by Mark Connelly A passive and Active broadband amplification control of remotely tuned loops and whips. (21)
- A87 ULTRALINEAR 2N5109 AND 2N3053 AMPLIFIERS.** D. Lankford. Technical article with instructions/schematics. (15)
- A88 ULTRALINEAR AMPLIFIED ONE METER WHIP ANTENNAS.** Dallas Lankford. 1994 - complete instructions & diagrams for 2 one meter antennas. (19)
- A89 THE FULL-SIZE, FULL-PERFORMANCE LOOP.** R. Moore. A history & explanation of Loops & the author's current design. (10)
- A90 ANTENNA EXPERIMENTS** - summer 1994. Mark Connelly. Tests to help you choose for your

- needs. (5)
- A91 KIWA/QUANTUM LOOP COMPARISON** by Elliot Straus.(1)
- A92 PHASED NOISE REDUCING ANTENNAS** by Russell Scotka (7)
- A93 THE QUANTUM (OR Q-STICK). A PASSIVE ANTENNA BOOSTER PLUS ADVANCED Q-STICK DXING TECHNIQUES** by Jerry Thomas(8)
- A94 THE MWDX-6 PHASING UNIT** by Mark Connelly(24)
- A95 DL-2 DELAY LINE PHASING UNIT** by Mark Connelly(10)
- A96 TWO REMOTE ACTIVE ANTENNAS - RL-1 REMOTELY TUNED LOOP AND RW1 REMOTELY TUNED WHIP** by Mark Connelly(15)
- A97 INVESTIGATION OF REGENERATIVE TUNER DESIGN THE MWT-3S** by Bruce Conti -edited by Mark Connelly(6)
- A98 TEST REPORT - THE JPS ANC-4 ANTENNA NOISE CANCELLER** by Mark Connelly(3)
- A99 LOOP SHOWDOWN KIWA VS RSM-105** by Mark Connelly(4)
- A102 DXP-1 DXPEDITION PHASING UNIT** Mark Connelly Construction Details and use. (9)
- A103 EXPERIMENTS WITH REMOTE ANTENNA TERMINATION** Mark Connelly Construction Details and use. (2)
- A104 DCP-2 DUAL CONTROLLER PHASER** Mark Connelly Construction Details and use. (11)
- A105 THE KIWA POCKET LOOP ANTENNA** by Guy Adkins Review of this portable antenna (1)
- A106 The Wellbrook K9AY Antenna: A User's Review** by John Bryant. A review of this general use antenna. (5)
- A108** Coupling an external loop antenna to the DX-390 receiver by Hans K. Schellenberg (1)
- A109 Is your coaxial lead-in actually an antenna?** by John H. Bryant with Bill Bowers. (5)
- A110 A Beverage on the Beach:** by Rick Cenneally (3)
- A111 Testing Two (KAZ) Squashed Delta Antennas:** by John Bryant A comparison of the (KAZ), the (Super KAZ), and the (K9AY) Antennas.(5)
- A112 Pennant and KAZ Antennas Tests** by Mark Connelly More comparative testing. (4)
- A113 Pennant Antenna Review and Impressions** by Ken Alexander An independent test from Ontario. (3)
- A115 DXP-2 DXpedition Phasing Unit** by Mark Connelly (7)
- DOMESTIC DX*
- D2 IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS.** J. Murley and R. Schiller respectively. Article on the station's attitude toward reception reports and veteran DX'er Schiller's tips on increasing your returns. (4)
- D3 THE DX TEST FROM A STATION'S VIEWPOINT.** Bill Croghan. Hints from a broadcaster arranging DX tests and obtaining more verifications. (1)
- D4 WHAT IS A PRE-SUNRISE AUTHORIZATION ?** R. J. Edmunds. An Explanation of psra's. (3)
- D5 LONG DISTANCE RECEPTION OF DX TESTS.** F. Dailey. Proven techniques. (1)
- D6 MAKING THE BEST OUT OF PREPARED-CARD VERIES.** Kelly Andrews. The verie collector's last resort, with numerous samples. (3)
- D9 THE NSP SITUATION.** J. Starr. A look at this problem from the broadcaster's side of the fence. (2)
- D10 DX FROM THE TWILIGHT ZONE.** P. Sullivan. Sunrise and Sunset Skip explained (4)
- D11 GRAVEYARD DX,** R. Foxworth, with additions by M. Levintow. DX'ing the local channels with results. (15)
- D12 CANADIAN FAMILY LIFE...IT'S TWINS.** J. Oldfield. Explains station "families" in Canada. List of Station groupings as of 1980 (3)
- D13 THE POST-SUNSET AUTHORITY, A DAYTIMER'S DILEMMA** Jerry Starr. A discussion on "PSSA's". (4)
- D16 SUNRISE SKIP.** R. Kramer. Practical how to info. includes pre-sunrise authorities (psra), station allocations on clear channels and auroral effects. (7)
- D17 THE WORLDS HIGHEST-POWERED STATIONS.** Mike Burden. From Radio Luxembourg's 1933 150KW transmitter to the mega-watters of today, includes WLW, Doc Brinkley, and more. (3)
- D18 QSL'ING THE LOCALS.** Skip Arey. Extracting veries from your local stations. (1)
- D19 HOW TO "UP" YOUR TOTALS!** John J. Rieger. An antidote to "DX burnout" and proof that there is DX after the first 1000 catches! (3)
- D20 WHO'S ON FIRST?** Bruce Conti. Who was the first broadcasting station in history... ? (4)
- D21 WHAT MAKES FOR A DX TEST?** Wayne Heinen. A look at what happens at a radio station during a DX test (1)
- D22 FORMAT FUTURES.** Chris Cuomo. What radio formats may look like in the 1990s. (2)
- D23 SATELLITE PROGRAMMING.** Ed Ryan. A look at how it works. (2)
- D25 A SEVENTEEN-POINT PLAN FOR AN IMPROVEMENT.** Doug Smith. A fix to the AM broadcasting service as we know it? (3)
- D26 ONCE UPON A TIME.** Ben Dangerfield. What happened years ago in DX, the NRC, and the world! 1963 was an amazing year. (3)
- D27 THE STEVENSON LOG.** Gene Martin. The Broadcast Band in February 1926. (1)
- D28 SUNSET DXING FROM THE WEST COAST.** Guy Kudlemyer. Becoming a pro at catching stations at sunset.(6)
- D29 DXing Tips Using Satellite Services.** D. Schmidt (2)
- D30 TRAVELERS INFORMATION STATIONS.** Rules and Regulations governing these numerous low-power broadcasters. (2)
- D32 U. S. A. DIGITAL RADIO (IN-BAND, ON-CHANNEL).** Official descriptions. (6)
- D33 BAD WEATHER! USE IT TO YOUR ADVANTAGE.** by Dave Schmidt. (2)
- D34 PIRACY ON THE MEDIUM OR HIGH FREQUEN-SEAS (AND NOT WALK THE PLANK)** by John D. Bowker. (5)
- FOREIGN DX*
- F1 DXING CENTRAL, SOUTH AMERICA AND THE CARIBBEAN.** Mark Connelly. Listings, by frequency, of the best bets from these areas, along with the original Connelly, DeLorenzo, Kazaross article DXing Latin America and the Caribbean. (9)
- F2 TA TIPS FOR BEGINNER.** Dave Yocis. Your first Trans-Atlantic receptions ! (2)
- F3 PORTUGUESE FOR DX'ERS.** R.Schatz. Describes the important features of this lan-

guage. (2)

F4 TAD X'ERS GUIDE TO SUNRISE-SUNSET TIMES. Mark Connelly. Reference to SRS-SSS times with extensive tables for many locations. (4)

F5 HUNTING LATINs BY MUSIC. R.Schatz. Describes types of LA music from various countries and how to ID stations using this information.(5)

F6 ZONAL-ANALYSIS APPROACH TO TA DX. Mark Connelly. A systematic method of grouping TA countries to help the DX'er recognize different types of openings and improve TA reception. (4)

F7 ZONAL-ANALYSIS APPROACH TO PAN-AMERICAN DX. Mark Connelly. Similar to F6, with the emphasis on the Eastern U.S. loggings of LA and South American stations. (5)

F8 STATION IDENTIFICATION. Tips on how to ID stations in nearly 50 languages! (2)

F9 SOME EASY TA'S. Dallas Lankford. (2)

F10 ID'ING JAPANESE BROADCAST STATIONS. Charles Taylor. Hints to help, without actually knowing the language! (2)

F12 COMMON SENSE TA DX STRATEGY. Mark Connelly. Practical hints are given for hearing Trans-Atlantic stations. (2)

F13 THE ODDS ON EVENTA'S. Mark Connelly. The possibility of hearing TA's on channels shared with domestic stations. (10)

F14 YOUR FIRST 30 COUNTRIES IN ENGLISH. Mark Connelly. Listed by country. (3)

F15 CARIBBEAN MW DX GUIDE. Mark Connelly. Listed by country. (4)

HOBBY REFERENCE LISTS

Some reprints formerly in this section are found in *Station Location Mapbook* (SLM)

HRL1 National Radio Club Common Abbreviations List (6)

HRL2 Cuban Medium-Wave Broadcast Stations (This list recently revised) (4)

HRL3 U.S. Postal Service 3 digit ZIP codes (2)

HRL4 North American Time Zones to UTC Conversion Chart. (1)

HRL5 Frequency and Power Relationship Chart. Shows average coverage radius for various powers at BCB frequencies. (1)

HRL8 NRC Countries List edited by Al Merriman (2)

MISCELLANEOUS ARTICLES

M1 LOCAL SIDEBAND SPLASH: HOW MUCH IS TOO MUCH? G.P.Nelson. This article describes FCC

regulations on sideband radiation on the Medium Wave band and types of station-originated spurious radiation. (1)

M2 MODULATION ARCING J. Starr. Describes a frequent but rarely discussed cause of medium wave interference originating at the station. (1)

M3 SUNRISE-SUNSET TABLES. G.P. Nelson.

These charts allow determination of accurate time of sunset and sunrise at any point in the world on any date. (9)

M4 RF INTERFERENCE AND THE HOME COMPUTER. Bill Krause, ANARC. Home computers will cause interference on your DX rig unless precaution are taken; solutions are discussed. (2)

M5 UNRESTRICTED RADIATION. G.P. Nelson. Discussion of carrier current stations and how to hear them. (3)

M6 RF POLLUTION. G. Hauser. General discussion of the radio interference problem and steps necessary to control it. (2)

M7 PATTERNS, PARTS I, IIA, IIB. P. Hart. These articles explain in detail what patterns mean and understanding their relationship to DX'ing! (34)

M9 MORE ON HOW DIRECTIONAL ANTENNA PATTERNS ARE PRODUCED. Wes Boyd. Supplementary information to the articles contained in the 1980 edition of the *NRC Night Pattern Book*. (1)

M10 SUPERMODULATION AND EFFECTS ON DX'ING. Steve Kennedy. Discussion on the problem and its affect on DX'ing. (3)

M11 TERRAIN CHARTS FOR PROPAGATION PREDICTIONS. M. Connelly. This article details how to prepare a chart of a DX'ers surrounding terrain which can help enhance or diminish reception. (3)

M12 NOISE LEVELS AND USABLE RECEIVER SENSITIVITY. C. Hutton. Technical Discussion of the effect of noise on receiver sensitivity. (5)

M13 GREAT CIRCLE CALCULATIONS REVISITED. Mike

Tuggle, with an addendum by R.N. Allen. An explanation, how to figure distance and direction of stations mathematically, with a computer program to figure the Great Circle paths. (4)

M17 SOME THOUGHTS ON INTERFERENCE. Skip Arey.

A simple modification to eliminate noise from light dimmers.(1)

M18 MANMADE INTERFERENCE ON THE BCB. Dallas Lankford. A systematic approach for evaluating a current or future DXing location in terms of man-made noise levels. (3)

M20 THE LOG BOOK. John J. Rieger. Organizing your log book . (3)

M23 WBBM RADIO: YESTERDAY AND TODAY. Chuck Schaden. A book review (1)

M25 MUSIC IN THE AIR, by Philip K. Eberly. Reviewed by Armand DiFilippo. (1)

M30 THE GOLDEN AGE OF DX'ING. John Clements. Were the years 1969 thru 1975 the Golden Age of DX'ing? You decide. (4)

M31 ALL ABOUT WAVELENGTH. John D. Bowker. Wavelength versus frequency. An explanation. (2)

M32 STANDARDS TIME AND FREQUENCY. via Pete Kemp. Time and frequency stations located on longwave. List by frequency. (3)

M33 AM RADIO IN HIGH FIDELITY. John D. Bowker. Find out the reason why AM sounds so bad and what can be done to fix it. (1)

M34 MYSTIQUE OF THE THREE-LETTER CALL. Thomas White, via CompuServe, via Pete Kemp. The Historic Roll Call and Current Status. (12)

M37 NOISE Some Causes and Some Cures. Wayne Heinen (4)

M39 FOUR SOFTWARE PIECES FOR MW DX'ers G. Kudlemeyer. Review of programs for Macintosh Computer Owners. (6)

M40 PIONEER BROADCASTING STATIONS IN THE US. Thomas White A comprehensive history of U. S. Radio including the oldest 127 stations still in operation with starting dates. (12)

M41 RFI FROM HOUSEHOLD ELECTRONICS by Perry Crabill, Jr (2)

M42 AN INTRODUCTION TO LONGWAVE DXING by Shawn Axelrod (3)

M43 HOBBY AUDIO RECORDING IN THE 21ST CENTURY

by R. Charles Rippel Discussion of modern recording methods (3)

M44 A useful little timer for DX'ing

by Rick Kenneally (1)

M45 An Audio Switching network

by John Bryant (3)

PROPAGATION**P1 MEDIUM WAVE SIGNAL PATHS, PARTS I, II, III, AND IV.**

G. P. Nelson. Discusses Great Circle paths, seasonal absorption patterns, auroral effects and the Mid-Winter Anomaly. (29)

P2 SOLAR CONTROL OF DAWN E-BLANKETING ON THE MW BCB.

G. P. Nelson. Explains how the position of the sun controls the fadeout time of TA's and TP's. (3)

P3 EAST-WEST SYMMETRY AND THE FADE-IN PROBLEM.

G. P. Nelson. Explains how the sun controls the fade-in times for MW stations. (2)

P4 SUMMER RECEPTION ON THE BROADCAST BAND.

G. P. Nelson. First article describing the seasonal patterns in solar terminator location which makes summer MW reception from deep South America and Africa possible. (3)

P5 METEOROLOGICAL EFFECTS ON MW GROUNDWAVE RECEPTION.

R. J. Edmunds. Short term variations in groundwave propagation at MW frequencies and their relationship to weather conditions. (7)

P6 AURORAL EFFECTS AND THE 1969 TRANS-ATLANTIC LISTENING TEST.

G. P. Nelson. A description of how the geo-magnetic and auroral phenomena control TA reception from various stations. An introduction to auroral effects. (5)

P7 THE AURORA OF NOVEMBER 6-9, 1970.

G. P. Nelson. Traces a classic auroral attack from its origin on the sun to its effect on MW reception. (3)

P8 COMPARATIVE MEASUREMENTS OF GEOMAGNETIC INDICES.

R. J. Edmunds. A three month comparison of A-index measurements as reported by several major observatories as they relate to each other. (3)

P9 SKYWAVE OR GROUNDWAVE RECEPTION?

G. P. Nelson. How to tell whether the signal from a station is arriving via ground wave,

skywave, or both. (3)

P10 A BEGINNER'S GUIDE TO THE IONOSPHERE.

Fr. Jack Pejza. This article explains the processes which change the ionosphere and the effects of these changes on radio wave propagation. (10)

P11 THE LIMITS OF MIDDAY MW DX.

G. P. Nelson. Comprehensive article describing the factors which influence radio wave propagation and reception during the late morning and early afternoon hours. (16)

P12 LIMITATION ON THE USE OF THE A-INDEX.

G. P. Nelson. An explanation of the A-index as a DX'ers tool. (3)

P13 BCB RECEPTION DURING PERIODS OF HIGH AURORAL ACTIVITY.

G. P. Nelson. Describes research into the effects of the aurora on MW propagation. (8)

P14 SKYLINE BLOCKAGE

Fr. Jack Pejza. Mathematical derivation of the formulas needed to calculate the effect which terrain has on signals. (10)

P15 SKYLINE BLOCKAGE, SOURCES OF UNCERTAINTY.

G. P. Nelson. Takes into account the possibility of signal propagation by some less

common modes which are subject to blocking by the horizon. (9)

P16 HORIZON BLOCKAGE: CAN FRESNEL DIFFRACTION BE IGNORED?

G. P. Nelson. This article shows how signals that should be blocked by the horizon can sometimes be heard. (10)

P17 TRANSPOLAR DX RECEPTION.

R. J. Edmunds. This technical article relates to the transpolar reception of central and eastern Asiatic stations at sunset in North America. (27)

P18 OBSERVATIONS OF TRANS-ATLANTIC MW RADIO SIGNALS.

C. W. Bailey. The results of a lengthy survey of TA receptions made over a one-year period. (3)

P19 PROPAGATION AT MW FREQUENCIES.

P. Sullivan. Discusses some aspects of the factors which control signal reception on the BCB. (6)

P20 FACTORS OF MW PROPAGATION.

F. Dinning. Discussion of the nature of MW propagation. (6)

P21 DOMESTIC PROPAGATION-ANSWERS TO FREQUENTLY ASKED QUES-

TIONS. R. J. Edmunds. A discussion on some of the propagational factors that affect domestic reception. (1)

P22 REVIEW OF SOLAR ACTIVITY FOR THE MW DX'ER.

R. J. Edmunds. An explanation of the Fredericksburg A-index as well as its use in the hobby. (2)

P23 MEDIUM WAVE IONOSPHERIC PROPAGATION PLUS THE SEQUEL TO

R.Schatz. These articles take a different approach to propagation and presents new terms and theory. (11)

P24 TERMINATOR TRANSIT MECHANIX.

R.Schatz. Parts I, II, III, IV AND IV-A of a series which the author states features practical techniques to hear new stations; techniques never before available. (33)

P25 SUNSPOT CYCLE 21 - THE PEAK - HOW MUCH AND WHEN.

O. Oklehen, H. R. REPORT. This article, through careful predictions,

shows how the next peak in solar activity will be one of the most severe in recent history: Includes additional comments by R. J. Edmunds. (3)

P26 ATMOSPHERIC AND GALACTIC NOISE ON THE BCB.

Dallas Lankford. A discussion on the amounts of various types of noise, Compared to receiver sensitivity (3)

P27 ON THE NATURE OF SCIENCE AND THEORIES OF BCB PROPAGATION.

Dallas Lankford. Discussion of several theories, concentrating on the controversy concerning the degree of the arrival angle of signals propagated over long distances. (3)

P28 DXING THE 1984 SOLAR ECLIPSE.

Gerry Thomas. One DX'er's experiences during this rare DXing opportunity. (3)

P29 ON OBLIQUE PROPAGATION.

Dallas Lankford. Very technical discussion on the theory of oblique incidence nighttime ionosphere at BCB frequencies. (12)

P30 MEDIUM-WAVE OBLIQUE PROPAGATION - ANOTHER VIEW.

Randall J. Seaver. Some different interpretations are presented on this subject, as well as examples of MW propagation analysis using the Knight Wave-Hop method. (9)

P32 RELATIONSHIPS BETWEEN SOLAR ACTIVITY,

THE EARTH'S MAGNETIC FIELD, AND MW DXING.

Randy Seaver . General characteristics of geophysical phenomena are addressed, in order to understand relationships between the sun, the geomagnetic field, and high-latitude DX. (15)

P33 SEA GAIN. Randy Seaver A discussion of the propagation phenomena. (11)

P36 M.F. PROPAGATION: A WAVE-HOP METHOD FOR IONOSPHERIC FIELD STRENGTH PREDICTION. P. Knight. A method for calculating the strength of medium-wave frequency sky-wave signals at night. (9)

P37 BEAMIAC-A -DELUXE+ GREAT CIRCLE BEARING DISTANCE COMPUTER PROGRAM. Mark Connelly. A "basic" computer program. (6)

P38 THE EFFECTS OF WEATHER ON THE IONOSPHERE. Jack Woods. A discussion on weather and MW propagation. (2)

P39 GROUND WAVE, SKY WAVE. John D. Bowker. A simple explanation of these term. (1)

P40 TRACKING THE 1994 SOLAR ECLIPSE BY RADIO by Ken Chatterton (3)

*RECEIVING EQUIPMENT
AND TECHNIQUES*

Some articles previously in this section are available in "The Challenging Crystal Set"

R1 SPURIOUS SIGNALS & SPURIOUS SIGNALS REVISITED. R. J. Edmunds and G. P. Nelson. Many DX'ers hear stations on frequencies where they don't belong. Article describes causes and cures of spurious MW signals. (10)

R2 SINGLE SIDEBAND RECEPTION ON THE BCB WITH MECHANICAL FILTERS. G. P. Nelson. Few commercial receivers covering the MW band have adequate selectivity to cope with MW interference—particularly in the presence of powerful local stations. Explains how to add mechanical filters to an existing receiver for the ultimate in adjacent channel rejection. (21)

R3 SUBAUDIBLE HETERODYNES ON THE MW BCB. G. P. Nelson. Details on a technique to permit the MW DX'er to de-

tect and characterize signals too weak to hear at the time; allows the DX'er to count the number of stations on a channel—even if no programming is audible and permits direction-finding on channels with several stations present. (6)

R5 THE TRACKING PROBLEM AND HOW TO CURE IT. G. P. Nelson and T. Holmes. Many excellent receivers are poorly designed for MW DX operation. This article describes one of the most common design faults and how to cure it. (4)

R6 ELECTRONIC VERNIER TUNING. R. Moore. Detailed instructions on how to fit a varactor to a MW receiver to provide fine bandspread. (4)

R9 RECEIVER/ ACCESSORY INTERFACES MADE SIMPLE AND CHEAP. R.J. Edmunds. A discussion of methods of interconnecting DX equipment. (7)

R10 UP THE CARRIER. W. Bailey. Dig the weak DX out of the mud with this form of exalted carrier reception. (1)

R11 PRECISION FREQUENCY MEASUREMENT. R. Schatz. How to use the frequency counter. (3)

R13 SINGLE SIDEBAND RECEIVING ADAPTERS. T. Sundstrom. How to sharpen your receiver's IF bandpass using a B&W 370 receiving adapter. (2)

R14 REVIEW OF THE AUTEK Q-BOX. T. Sundstrom. Describes the uses of this noise filtering device and its applications in MWDX. (3)

R17 BUILD YOUR OWN AUDIO FILTERS. P. Sullivan. A technical theory and construction article on inexpensive homebrew audio filters. (7)

R19 A BRIEF REVIEW OF THE AUTEK QF-1 AUDIO FILTER. C. Hutton. A non-technical review of this noise and interference filter. (2)

R20 A FREQUENCY COUNTER FOR RECEIVER TUNING. R. Foxworth. A very thorough paper on digital readouts and what to look for in various models. Discusses technical theory and provides circuitry to enable the Experimenter to build a counter for use as a "digital dial". (13)

R22 THE LYNODYNE CRYSTAL WIRELESS RECEIVER. R.W. Tuggle. The concepts of vintage crystal radio are incorporated in these construction plans for a

simple receiver, offered as a sporting alternative to modern receivers; yet it has the potential for real DX. (4)

R23 DIVERSITY RECEPTION. C. Hutton. Using more than one antenna and receiver in an effort to reduce fading and interference on one frequency. (1)

R24 TIPS ON REMOTE TAPING. R. J. Edmunds. This article explains several methods you can use to turn your receiver and recorder on while you are otherwise occupied. (2)

R25 STRONG SIGNAL HANDLING. C. Hutton. This technical article explains that sensitivity and selectivity are not the only, nor the most important, considerations in a receiver. (6)

R26 RECORDING JACKS FOR RECEIVERS. Dave Arbogast. A simple step-by-step procedure is outlined for adding a tape jack to almost any receiver. (1)

R27 TAPE RECORDING HINTS. Mark Connelly. A complete method of radio-to-tape interfacing for portable radios is detailed, complete with schematics and parts lists for construction. (4)

R28 CONVERTING THE R-390A POWER SUPPLY TO SOLID STATE. Charles Taylor. A conversion process to change the older high voltage tubes to solid state diodes is described step-by-step. (7)

R29 R-390A ALIGNMENT CHART. Charles Taylor. A step-by-step procedure for aligning the R-390A. (5)

R30 MCKAY-DYMEK DP-40 PRESELECTOR. R. Foxworth. A non-technical description of this useful filter accessory plus some modifications to improve its performance. (2)

R31 THE SUPER HQ-180. Dallas Lankford. Add a Collins mechanical filter to your "180". While not a "how-to" article, problems and results are discussed. (4)

R32 HQ-180A ALIGNMENT WITHOUT A 60 KHZ SOURCE. Dallas Lankford. Although most RF signal generators do not tune below 100 KHz., the HQ-180A's 60 KHz IF can be aligned with a 455 KHz RF source. (4)

R33 R-390A/URR PTO ALIGNMENT. Dallas Lankford. The alignment procedure to achieve

- exact end-point alignment in the R-390A PTO tuning is detailed. See R34, (3)
- R34 INSIDE THE R390A PTO.** Dallas Lankford. An in-depth article that explores the PTO tuning in the R-390A and shows how to improve its performance up to specifications. See R33. (4)
- R35 THE R-390A ON LONGWAVE.** Craig Healy. A simple and inexpensive method to modify the R-390A effective amplifier for loops to tune below 500 KHz. (2)
- R36 THE BBA-1 BROADCAST AMPLIFIER.** Mark Connelly. A simple and other antenna. Complete construction details. (11)
- R37 THE GENERIC HQ-180 IF ALIGNMENT.** William Marvin. A non-technical procedure that requires no test equipment. (4)
- R38 VARACTOR DIODE APPLICATIONS FOR DX'ERS.** Mark Connelly. Discussion of the Advantages and disadvantages of substituting the varactor diode for the variable capacitor in various DX projects. (10)
- R39A "KNOCK-YOUR-SOCKS-OFF" REGENERATIVE PREAMP.** Ray Cole. A simple-to-build preamp that promises to nearly double your receiver's ability to dig weak signals out of the noise. (1)
- R41 THE DX TIME-MACHINE.** Craig Healy. Use your VHS VCR to record all or part of the AM Band for later listening! It may have started as an April Fool's joke, but with the modifications described, it really does work!! (3)
- R42 NOISE AND SIGNAL LEVELS ON THE BCB.** Marc Bergman. How much sensitivity does a receiver need? A practical view of signal level vs. BCB noise levels (15)
- R43 CERAMIC FILTERS.** Marc Bergman. A listing and description of the most commonly available ceramic filters, with data from tests. (9)
- R44 THE HQ-180 SERIES RECEIVERS SENSITIVITY TEST.** Dallas Lankford. A simple diagnostic test. (2)
- R46 SURPLUS MECHANICAL FILTERS.** Marc Bergman. Test results of several reasonably-priced and available mechanical filters. (3)
- R47 ADD A TUNING METER TO YOUR RECEIVER.** Ray Cole. Shows how to add a meter to your radio for accurate tuning. (1)
- R50 R71A SPEAKER MODIFICATION.** Herman Plew. Throw that sound in the right direction with this modification. No technical knowledge needed! (1)
- R51 SELECTIVITY VS. FIDELITY FOR THE DOMESTIC BCB DX'ER.** Neal A. Perdue. What is selectivity? What is fidelity? Why do you need both? (1)
- R52 YET ANOTHER USE FOR THE AUTEK RESEARCH QF-1A ACTIVE AUDIO FILTER.** Neal A. Perdue. Clean up your DX catch tapes, even old records with these techniques. (1)
- R53 THE RBLAND THE R-392/URR, A SYMBIOTIC RELATIONSHIP OR NEW USES FOR TEST POINT E203.** John H. Rose III. Technical article using these receivers in a series of experiments. (3)
- R54 COLLINS 51J4 REVIEW.** Dallas Lankford. A detailed review. (3)
- R55 COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A comprehensive technical review. (10)
- R56 MORE COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A continuation of Reprints R 54 and R 55 (4)
- R57 COLLINS R390A, THE WORLD'S BEST RECEIVER?** G.S. Mayard. This review gets into the details of another fine DX receiver. Technical. (6)
- R58 A SIMPLE HIGH-PASS AF FILTER.** Gerry Thomas. Hear those "in-the-mud" stations better on that speaker. (1)
- R59 R-5000 MODIFICATIONS.** Eric Roskos via Peter Kemp. (3)
- R60 COMMENTS ON G. MAYNARD'S SYNCHRONOUS DETECT.** Wayne Heinen. This reprint should be used in conjunction with reprint R-57. (1)
- R61 ADD A Q-MULTIPLIER & A SB-620 TO THE R390A.** Wayne Heinen. (1)
- R62 PHASING UNIT DESIGNS: SIMPLE TO COMPLEX.** Mark Connelly. (5)
- R63 HQ-180 AGC MOD.** Dallas Lankford. AGC overshoot on the HQ-180 can be cured. (1)
- R64 51J/R-388 BAND 1 MOD AND AGC MOD.** Dallas Lankford. Increases MW sensitivity. (1)
- R66 R390A AGC/BFO MODS.** Dallas Lankford. Technical article. (4)
- R67 R390A KHZ FILTERS FOR THE HQ-180.** Dallas Lankford. How to use Collins DB filters in your HQ-180 receiver. (2)
- R68 R-390A AUDIO OUTPUT IMPEDANCE MATCHING.** Dallas Lankford. Improve the audio quality of your R-390A. (2)
- R69 COLLINS R390A - THE ORIGINAL "WORLD'S BEST".** Graham Maynard. More tips and modifications. (7)
- R70 NRD-525 AGC Mod. & AGC Mod 2** Dallas Lankford (6)
- R71 DRAKE R-8 MW ATTENUATOR MOD.** Dallas Lankford. (1)
- R72 MODIFICATIONS FOR THE NRD-525.** John R. Tow (5)
- R73 HOTRODDING THE RADIO SHACK 12-625.** Ray Cole (1)
- R74 COLLINS TORSION MECHANICAL FILTER FOR THE R-390A.** D. Lankford (7)
- R75 DRAKE R-8 TYPE B SPURS ELIMINATION.** D. Lankford (3)
- R76 DRAKE R-8 INCREASED DYNAMIC RANGE.** D. Lankford (4)
- R77 MODIFICATIONS FOR THE SANGEAN ATS-803A.** G. Maynard (3)
- R78 IMPROVEMENTS TO REGENERATIVE RECEIVER DESIGN** by Mark Connelly (2)
- R79 R-390A WON'T TURN OFF AGAIN (?)** by Dallas Lankford (2)
- R80 NRD-525 FILTER MODS** by Dallas Lankford (7)
- R81 DRAKE R-8: ENCODER SHAFT STATIC ELIMINATION.** by Dallas Lankford (1)
- R82 DRAKE R-8: LOW HEADPHONE VOLUME & BROKEN FEET** by Dallas Lankford. Cures for Same! (1)
- R83 RACAL RA6790GM NOISE BLANKER NOTES** by Dallas Lankford. (6)
- R84 DRAKE R8 MORE ON IMPROVING IMAGE REJECTION** by Dallas Lankford (5)
- R85 R-390A FILTER MOD #3** by Dallas Lankford (3)
- R86 Drake R8: More on improving image rejection** by Dallas Lankford (3)
- R87 Adding an AM FET Frontend to your low-priced portable** by Jeff Sparks (4)

RR1 RECEIVER COMPARISONS - WHAT DO THEY MEAN? R. J. Edmunds. Certain problems arise when comparing product summaries and receiver reviews. The author explores these comparisons with an emphasis on MW DX. (2)

RR2 QUALITATIVE REVIEW OF THE YAESU FRG-7 RECEIVER. G. Hauser. A non-technical review (3)

RR3 DRAKE R7-A REVISITED. Craig Healy. Reviewed and compared to the R-390A. (2)

RR5 BARLOW-WADLEY XCR-30. M. Hardester. (2)

RR8 McKAY-DYMEK DR-22 J. Clements. A non-technical pre-production review. (3)

RR9 ICOM IC-R70 COMMUNICATIONS RECEIVER. Vincent Pinto. An in-depth, technical review. (9)

RR10 THE GE SUPERADIO-CASSETTE. Michael Sapp. The GE Superadio with an integral tape recorder. (4)

RR13 THE SONY SRF-A100. Greg Monti and Albert S. Lobel. Two looks at this AM-stereo portable receiver. (5)

RR14 THE ICOM IC-R71A RECEIVER - From the Australian *DX CALLING* Magazine. User review with commentary. (7)

RR15 UNIDEN CR-2021 VS. SONY ICF-6500W Gerry Tho-

mas. A Comparison. (3)

RR16 NRD515 Review by Bob Foxworth. (7)

RR18 SURVEY OF HAMMARLUND RECEIVERS. Dallas Lankford. A summary of the full line of Hammarlund receivers suitable for BCB DX; with comparisons, modifications and hints when purchasing one. (7)

RR19 KENWOOD R-5000. Don Moman. Includes performance results against the ICOM R71 and SONY ICF-2010. (5)

RR20 THE GE SUPERADIO-PLUS. Dick Truax. User first impressions and opinions. (1)

RR21 THE COLLINS 51J-4 GENERAL COVERAGE RECEIVER. Fritz Mellberg. (2)

RR22 DENON AM-FM TUNER, MODEL TU-800. Doug Allen. A great radio for FM DX'ing! (2)

RR23 ICOM IC-R70, A QUICK REVIEW, John J. Rieger. Non-technical review. (2)

RR25 REALISTIC 12-625 Ray Cole, Paul Swearingen, César Objío. (4)

RR28 REALISTIC DX-440 VS SONY ICF-2010. Mark Connelly. An MW DX evaluation of these two popular portable receivers. (2)

RR29 DRAKE R-8 Reviews by Rob Keeney, John Tow, Dallas Lankford and Ronald Hunsicker. (18)

RR30 GE SUPERADIO III, Gerry Thomas (2)

RR31 The NRD 525 -A TECHNICAL REVIEW. D Lankford (7)

RR32 NRD-525 FILTER LEAKAGE. Continuation of RR31 D. Lankford (5)

RR33 RECEIVER SHOWDOWN Comparing ICOM R-9000, R-71A / JRC NRD-525D / Drake R-8 and Collins R-390A by Gerry Thomas (6)

RR34 THE DENON TU-680 NAB "SUPER RADIO" (2)

RR35 RA 6790/GM: A REVIEW. Dallas Lankford - 1993 (8)

RR36 SONY SRF-42 AM STEREO WALKMAN REVIEW. Frank Aden, Jr. (1)

RR37 PANASONIC RQ-V60 REVIEW. John Hanz. (1)

RR38 RAMSEY AM-1 TRANSMITTER KIT - REVIEW. Christopher Cuomo. (3)

RR39 REVIEW of the SANGEAN CC RADIO. Paul Swearingen et al. (6)

RR40 AOR - AR 7030 Receiver review by Guy Atkins (13)

RR41 THE HENRY KLOSS MODEL ONE RADIO Receiver Review by Philip Marinaccio (1)

RR42 A review of the Sangean ATS-505 by Russ Johnson (1)

RR43 The Palstar R30 General Coverage Receiver by Gerry Thomas. A review from a MW DXers viewpoint. (8)

Subtotal your page totals here _____.

Flash Alert Postcard System

Can't access the Internet to find out about last-minute DX tests? Join Les Rayburn's Flash Alert System to receive notice about late-notice tests and special events. Just send Les 10 or more self-addressed postcards, and he'll be sure to keep you up-to-date and even notify you when you're down to five cards. Send your cards to Les Rayburn - 100 Centerview Drive, Suite 11 - Birmingham, AL 35216-3748. It's almost as good as being wired!

The **NRC AM Radio Log, 26th Edition,** including cross-referenced listings from 530-1700 khz., is compiled from both listeners' reports and official sources, making it the most accurate listing of U. S. and Canadian AM stations available. Unbound, three-hole punched for standard binders. \$19.95 to U. S. members; \$25.95 to U. S. non-NRC members; to Canadian members, \$23.00 (\$29.00 to non-NRC members). Airmail to members in western Europe (except Italy) and Australia, New Zealand, and Japan: \$29.00. All others contact us for exact prices. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax).



NRC Products Order Form

U.S./Canadian Member discount prices **in bold**. List (U.S./Canadian Non-member) price in (). All prices are in US \$. Order Less than US\$2.00 add 50¢ for postal costs. **Prices good through September 1, 2006**

- ARL- NRC AM Radio Log to USA **\$19.95** (\$25.95) Canada **\$23.00** (\$27.95). Overseas airmail to Western Europe (except Italy) & Australia New Zealand and Japan, **\$27.95** All others contact us for prices.
- FMA- FM Atlas 20th Edition - **\$20.00** (\$24.00)** **SOLD OUT**
- GSM - Getting Started in MW DX'ing **\$9.50** (\$12.95)*
- BAM - Beverage Antenna Design, Theory **\$8.95** (\$12.95)*
- LAM - Loop Antenna Design & Theory **\$9.95**(\$13.95)*
- ARM1- Antenna Reference Manual Vol 1 **\$8.95** (\$11.95)*
- ARM2- Antenna Reference Manual Vol 2 **\$8.95** (\$11.95)*
- ARM3- Antenna Reference Manual Vol 2 **\$11.95** (\$16.95)*
- CCS - Challenging Crystal Set **\$4.00**(\$5.00)*
- CCR - NRC County Cross Reference **\$8.95** (\$11.95)*
- SSM - Sunrise/Sunset Maps **\$3.25** (\$4.50)
- MAP - Map of U.S. & Partial Canada- 5 for **\$1.00** (\$1.50)
- EEG - English Broadcaster's Guide to DX-20 for **\$3.50** (\$4.50)
- SSG - Spanish Broadcaster's Guide to DX-20 for **\$3.50** (\$4.50)
- FFG - French Broadcaster's Guide to DX-20 for **\$3.50** (\$4.50)
- FMG - Broadcaster's Guide to FM DX-20 for **\$3.50** (\$4.50)
- LG - Log Sheets -110 for **\$8.50** (\$9.50)
- LGS - Log Sheets - 20 for **\$2.50** (\$3.00)
- ALL Radio Vol 1 US \$5.00 Canada \$7.00 Others \$9.00
- ALL Radio Vol 2 US \$5.00 Canada \$7.00 Others \$9.00
- ADC6 - After Dark **6 \$9.50**
- ADC7 - After Dark **7 \$9.50**
- ADC8 - After Dark **8 \$5.00**
- ADC9 - After Dark **9 \$5.00**
- ADC10 - After Dark **10 \$5.00**
- ADC11 - After Dark **11 \$5.00**
- DX Audio Service - Sample Tape **\$3.00**
- Sample Copy DX NEWS Magazine \$ **0.37** (Canada \$0.60)
- Back Issues of DX Audio Service- ea **\$3.00**
- Desired Issues:
- STA - NRC Emblem Stationary -100 sheets for **\$7.50**
- EERF - English Reception Report Forms - 50 for **\$6.00**
- SSRF - Sample Form for Spanish Receptions - **\$0.50 each**
- FFRF - Sample Form for French Receptions -**\$0.50 each**
- CERT - NRC Membership Certificate - **\$1.00**
- ZAL - Archived Publications List - **\$0.40**

Sub-total for this page

US/Canada orders Shipped BOOK RATE Please allow 4 to 6 weeks for Delivery!

For Priority Mail in the U.S. of ARL, NPB or FMA ONLY add \$2.50 each item.

* Overseas add \$4.00 for Surface mail for any three or fraction of three in this group Or add \$8.00 for Airmail for any three or fraction of three in this group

** Overseas orders for these publications are \$25.00 Airmail

Above Overseas prices apply to Australia, New Zealand, Japan and Western Europe except Italy. All others contact NRC Publications for pricing information

NRCpubs@aol.com

Expiring? Time to renew? Not sure when? Need to call or e-mail someone or join e-DXN or DXAS? Check the back page - it's all right there!

Please preserve these QSL's
for future display!
Do not discard these items
For preservation information
contact the:

National Radio Club
P. O. Box 164
Mannsville, NY 13661-0164

If you are interested in helping preserve the history of our hobby through preserving your collections, you should consider ordering a supply of these free 3-inch-square stickers to place on your veries, recordings, etc. Specify the number you need, and order from Ken Chatterton - P. O. Box 164 - Mannsville, NY 13661-0164. Include an SASE. Don't wait until it's too late - order now.