

IRCA – '04 REPRINT LIST

Quite a few articles have appeared in DX Monitor since the club first started in 1964. They offer a wide variety of information on Broadcast Band DXing. This is the list of reprints and other items, which are currently available. Numbers in parenthesis are the total number of pages contained in the reprint. Designations in parentheses following the descriptions are other IRCA publications in which the reprint appears (or was taken from). Descriptions of these other IRCA publications appear at the end of the list.

ANTENNAS

- A001 **Construction of a Directional Spiral Loop Antenna** (1) Dallas John/Keith Birlingmair. Construction details for a simple inexpensive loop antenna. 9/73 (NMP/T2)
- A002 **Construction of a "Box" Loop Antenna** (2). Plans for a large un-amplified four foot box loop. 3/69
- A003 **DCL Construction Plans** (1) Dave Fischer. Schematic for a Direct Coupled Loop Antenna. Some receiver modification may be required. 1/70
- A004 **Roll Your Own** (1) Dave Fischer. Hints on the construction of a simple two-foot box loop antenna. 12/69
- A005 **The Loop-Sensor Cardioid Array (LSCA)** (1) Ron Schatz. Introductory thoughts about combining signals from a loop and a longwire or vertical, which can produce a heart-shaped receiving pattern. See A6, A7, A18 and A32. 5/71
- A006 **Some Comments on the Loop-Sensor Cardioid Array** (2) Gordon Nelson. Discusses some of the shortcomings of the theory described in A5. 8/71
- A007 **The Loop-Sensor Cardioid Array** (7) Ron Schatz. In depth description of the LSCA, with construction hints and examples of reception. See A5. 9/73
- A008 **Two-Foot DCL Plans** (3) Ralph Sanserino/Nick Hall-Patch. Updated construction plans for a two-foot box loop and pre-amplifier, the "Sanserino Loop". Very well done. 10/80
- A009 **The Shielded Ferrite Loop: Principles and Practice** (4) Joe Worcester. Theoretical description of a ferrite rod loop antenna, used by many DXers because of its small size. See A10 for construction details, also A31. 2/70
- A010 **How to Build the SPACE MAGNET Shielded Ferrite Loop** (6) Joe Worcester. Very thorough plans for constructing the antenna described in A9 (SM-1 and SM-2). Includes photo. 1/71
- A011 **The Super Signal Snatcher** (4) Dave Fischer. Theory on the set up and operation of a Beverage antenna (a very long wire), with tables and graphs. See A15, A16, A19, A23, A42 and A46. 12/72
- A012 **Using Two Loop Antennas to Generate Asymmetrical Receiving Patterns** (1) Mike Levintow. Describes how the simultaneous use of two loop antennas can distort the pattern of a single antenna, possibly nulling out some stations otherwise un-nullable. 12/73
- A013 **The Wedge** (3) Charles Wolff. Detailed plans on a space saving wedge-shaped air-core loop. Includes tuning instructions and base construction. 11/75
- A015 **NEBE** (3) Dave Fischer. Describes the construction and results of a Beverage antenna DXpedition in the middle of Nebraska. See A11. 3/75
- A016 **Report on the Beverage Antenna DXpedition** (1) Don Kenney. Describes a DXpedition to the Mojave Desert using two Beverage antennas, one 2800'/850m, the other 6000'/1830m. Results are discussed. See A11. 9/72
- A017 **Loops for the Barlow Wadley, (or anything else)** (1) Grant Manning/Ralph Sanserino. Directions for modifying the XCR-30 so it can be used with a ferrite rod antenna. Also includes two schematics for single ended FET preamplifiers. 8/75
- A018 **LSCA-2** (4) Ron Schatz. Construction plans for an updated version of the LSCA (described in A5), which is easier to build and use. 3/76
- A019 **Some Thoughts on Beverages** (1) H. John Clements. An experienced Beverage antenna user gives some hints to potential Beverage antenna builders. See A11. 4/78
- A020 **4 Commercially Available Ferrite Loops** (1) Michael Sapp. Author compares the performance of the SM-2, MW-1, DA-5/7 and Palomar ferrite core antennas. Several areas of concern to the DXer are addressed, and each antenna is rated. See also A22 and A35. 6/78 (T2)
- A021 **Amplifiers/Tuners for Longwires** (1) Brian Sherwood. Two circuits for amplifying the signal from a coupled longwire to a receiver. See A27. 1/79
- A022 **MW-1 vs SM-2** (2) Mark Connelly. Two popular ferrite core loop antennas are compared by an experienced DXer. See A20. 3/79

- A023 **The Jordan River Beverage Expedition** (1) Nick Hall-Patch. DXers brave the wilds of Vancouver Island in order to hear DUs on a Beverage. See A11. 8/79
- A024 **DXing with the "DX Flyers"** (1) Gerry Thomas/Charlie Barfield. What is it like DXing with an antenna strung out with a kite? Talks about results of 650'/198m wire towed by a flying kite. 10/79
- A025 **The KRS All-Band "Active" Antenna** (1) Mike Hardester. Review of Radio West's amplified "whip" antenna. 7/80
- A026 **Random Length Antennas** (1) Bruce Portzer. Discussion of random length antenna, their advantages and disadvantages. 10/80 (T2)
- A027 **Random Wire Accessories** (2) Nick Hall-Patch/Ralph Sanserino. Attenuators, couplers, traps and amplifiers for use with longwire antennas. See A21. 10/80 (T2)
- A028 **Phased Longwire Antennas** (1) Mark Connelly. A phasing unit is used to sum the outputs of two longwires to obtain directional patterns. Schematic included. 10/80 (T2)
- A029 **Why a Loop?** (2) Phil Bytheway. Loop antenna theory, construction and tuning techniques are discussed. 10/80 (T2)
- A030 **Using the Loop** (1) Grant Manning. Discusses methods for getting the most out of a loop antenna. 10/80 (T2)
- A031 **A Ferrite-Core Loop Antenna** (1) Nick Hall-Patch. Construction details for a simple ferrite loop antenna using an FET pre-amplifier. See A9. 10/80 (T2)
- A032 **A Loop-Longwire Combo** (1) Nick Hall-Patch. Talks about a simple way to connect a loop and longwire to obtain unidirectional receiving patterns. Similar to the LSCA. See A5. 10/80 (T2)
- A033 **Improve Your DX by Phasing Non-Identical Antennae** (1) Mark Connelly. Discusses the effects of using two parallel antennas (one on the ground) and a phasing unit. Includes some examples of DX. 5/81
- A034 **The MFJ-1020 Indoor Active Antenna** (1) Randy Tomer. Review. 7/81
- A035 **Radio West Ferrite Loop Antenna** (1) Don Moman. Review of the MW-1 and a comparison to the SM-2. See A20. 7/81
- A036 **Phasing Unit Design Modifications** (5) Mark Connelly. Introduction to antenna phasing techniques. Discussion of a conventional phasing unit and its use. Some shortcomings and possible corrections are addressed. 10/81
- A037 **The Martens MW Loop Antenna** (1) Ben Peters/George Hakiel/Don Moman. Several reviews of this compact air-core loop antenna from Germany. 10/81 and 3/84
- A038 **Constructing a Phasing Unit** (7) Mark Connelly. Complete details for the construction and use of a phasing unit. When finished, the unit will phase antennae of longer than 98'/30m or amplified shortwires longer than 16'/5m. Includes parts list, schematic and drawings as well as step by step instructions for its use. 11/81
- A039 **Phased Amplified Shortwires** (4) Mark Connelly. Discussion of phasing short wires (16'/5m or shorter), using a "Space Magnet" antenna (A10) as a tuner/amplifier. Detailed operation of the system is outlined. 12/81
- A040 **A Comparison of the "Shotgun" and "Select-a-Tenna" Loop Antennas** (1) Randy Tomer. Introduction to the "Select-a-Tenna" and comparison to Radio West's Shotgun antenna. 1/82 (T2)
- A041 **Defeating Atmospheric Interference by Underground Antennae** (1). Short introduction with description of two techniques. 1/82
- A042 **The Practical Beverage Antenna** (1) Don Moman. Author describes time saving techniques used to create "instant" Beverage antennas. See A11. 3/82 (T2)
- A043 **Large-Area Loops for High-Noise Environments** (1) Glen Kippel/Steve McGreevy. Details on the construction and use of large-area loop antennas. See A52. 3/82 and 6/83 (T2)
- A044 **Yaesu FRT-7700, FRA-7700, Grove Signal Match TUN-2** (2) Sheldon Remington/Randy Tomer/ Don Moman. Reviews and a comparison of the FRT-7700 Passive Tuner, FRA-7700 Active Antenna and SW Horizons' Receiver-Antenna Interface #1 (A45). 7/82 and 2/83 (T2)
- A045 **A High Performance Preselector for MW** (1) Don Moman. Description, construction details and performance notes of Shortwave Horizons' Receiver-Antenna Interface #1. 8/82 (T2)
- A046 **A Simple Guide to Beverage DXpeditions** (1) Doug Nyholm. An introduction to planning a Beverage DXpedition, including equipment and some theory for the layman. See A11. 3/83
- A047 **The Hot Rod** (3) Gerry Thomas. Complete details for building this small, inexpensive ferrite antenna for use in signal boosting on portable radios. 5/83

- A048 **Optimizing an Unamplified Loop Antenna** (1) Nick Hall-Patch. Techniques for matching loop antenna output and receiver input to get higher "Q". In addition, a scheme for determining loop "Q" is described. 6/83
- A049 **Results Using a Random Wire Antenna Phasing Unit** (1) James Herkimer. Author experiments with a phasing unit (see A38) and gives examples of the results obtained in comparison with a Radio West ferrite loop. 8/83
- A050 **The "APT-2" Active Antenna Tuner** (9) Mark Connelly. Complete details and diagrams for the construction and use of an active parallel tuner with regeneration for use with wires 2'/0.6m to 1000'/305m (150khz - 8Mhz). Layout and step-by-step construction are included, as well as instructions for use. See A53. 11/83
- A051 **Modular Phasing Systems** (4) Mark Connelly. Detailed description of an updated system for longwire phasing (see A38) which utilizes a modular approach. Schematics are given for various tuners (long and short wire active series, passive parallel and active parallel) as well as the phasing unit. 9/83
- A052 **Nulling with Two Wall-Mounted Loops** (2) Ben Peters. Results of experimentation with two wall mounted loops 90 degrees apart. Includes construction details. See A43. 1/84
- A053 **APT3: An Improved Design Active Parallel L-C Tuner** (5) Mark Connelly. Design improvements to the APT-2 (A50) yield the APT-3, an easier to use and more adaptable version of the regenerative longwire tuner. Schematics, drawings and description of use. Complete construction details in A54. 2/84
- A054 **MWDX-2 Phasing Unit** (7) Mark Connelly. Description, use and construction details for an improved phasing system which is a single unit, designed for longer longwires (greater than 82'/25m). See A64. 2/84
- A055 **The BBA-1 Broadband Amplifier** (5) Mark Connelly. Details for construction and operation of a 15db broadband (100khz to 30 Mhz) amplifier for use in systems where knob tweeking is to be kept to a minimum. 3/84
- A056 **Seven Passive Tuners** (5) Mark Connelly. Author describes and gives schematics for 7 different series/parallel tuner circuits for the LW, MW and tropical bands. 3/84
- A057 **Varactor Diode Applications for DXers** (5) Mark Connelly. Discussion of how a varactor diode can be used as a voltage controlled variable capacitor. Good and bad points are discussed, and some initial circuits for a remote tuned loop antenna and VFO. 3/84
- A058 **The 3 Parallel Loop - Adcock System** (2) Ben Peters. Complete description of an antenna system consisting of three loops mounted on a board. Thorough instructions for use and some construction hints. 5/84
- A059 **Ideas on Remote Tuned Antennas** (1) Mark Connelly. Short introduction and preliminary schematic. See A66. 5/84
- A060 **Some Antenna Experiments** (2) W.R. McIntosh. Description of the "Helical Longwire", a loop sized 293'/89m coil. Results are presented using different antenna tuners. 6/84
- A061 **Four Wall Loops for Better Nulls** (2) Ben Peters. Analysis of an antenna system using four wall mounted loops with a fifth in the center. 10/84
- A062 **"Easy-to-Build" Loop vs Wire Phaser** (1) Mark Connelly. Circuit for phasing loop antenna output with a minimum 100'/30m longwire. Includes instructions for use. 10/84
- A063 **An RF Notch Filter** (1) Don Moman. Schematic for a tunable RF filter which will provide a 45db notch. 10/84
- A064 **The MWDX-2A Phasing Unit** (3) Mark Connelly. Description and schematic for an improved version of the MWDX-2 (A54) which allows any wire length antennas to be used. 10/84
- A065 **Database Search - Loop Antennas** (4) DIALOG. List of recent technical and general articles pertaining to loop antennas, as compiled by Mark Connelly from the DIALOG data retrieval service. 12/84
- A066 **RT-1 Remotely Controlled Antenna Tuner** (3) Mark Connelly. Complete description and schematics for a varactor diode remotely tuned antenna (up to 50'/15m). See A59. 1/85
- A067 **Notes on Mediumwave Beverage Antennas** (3) Nick Hall-Patch/Don Moman. Summary of experiments done on Beverage termination, directional effects, construction and length. Brief description of the effect of two phased Beverages as well. 1/85
- A068 **MWDX-2B and 2C Phasing Units** (2) Mark Connelly. Improvements and changes to the MWDX-2A unit for phasing longwire antennas. 9/85
- A069 **A Simple Passive Longwire Tuner** (1) Mark Connelly. Describes a simple unit for tuning a longwire for BCB reception.
- A070 **The Mitchell Lee Loop Amplifier** (5) Mark Connelly. Two versions are described, one for use with loops, the other with

tuned circuits for LW, BCB and Tropical Band DXing. 3/85 and 9/85

- A071 **Hotrodding the Mini-MWDX3 Phasing Unit** (2) Mark Connelly. Describes some improvements to Mark's phasing unit.
- A072 **MWDX-4 and Mini-MWDX-4 Phasing Units** (9) Mark Connelly. Describes two devices for phase-cancelling a dominant station, allowing you to receive signals which would otherwise be inaudible. 11/85
- A073 **The Phase One, A Delay Line Phasing Unit** (2) Gerry Thomas. Describes an active phasing unit for eliminating interference.
- A074 **Active Shortwire Phasing System Using Modified Hagen Loop** (1) Mark Connelly. Describes a modification to a loop antenna amplifier to make it useable with short antennas (such as rabbit ears). 12/85
- A075 **The MWT-1: A MW Tuner/Preselector with Regeneration Capability** (6). Construction plans and theory of operation for a highly selective longwire tuner/amplifier. 12/85
- A076 **The Mini-MWT-1C: A Simple Yet Versatile MW Tuner** (3) Mark Connelly. Self-explanatory title! 2/86
- A077 **Additional Tuners in the MWT-1 Family** (5) Mark Connelly. Detailed instructions on building more MW tuners. 3/86
- A078 **A Loop Antenna Bibliography** (3) Ben Peters. A list of patent disclosures and articles from professional publications, all pertaining to loop antennas, from 1920 to 1982. 2/86
- A079 **A New(?) Aid: The Receiver Multicoupler** (1) Matt Stutterheim. Describes surplus multicouplers and their use in BCB DXing. 11/86
- A080 **Heathkit Model HD-1424 Active Antenna** (1) Karl Zuk. Product review. 2/87
- A081 **Sloping Random Wire Antennas** (1) Jim Herkimer/Nick Hall-Patch. Discusses the use of random wire antennas sloped down to ground level.
- A082 **The Mini MWDX-3** (9) Mark Connelly. Describes a simple, effective phasing unit for longwires. Includes detailed wiring instructions.
- A083 **RT1 and RT2 Remotely Controlled Antenna Tuners, Articles 2 and 3** (5) Mark Connelly. Continuation of A66.
- A084 **The Micro MWDX-4 Phasing Unit** (3) Mark Connelly. A highly compact phasing unit for longwires. 2/86

- A085 **Phasing Network for Beverage Antennas** (1). Reprint of an FCC paper describing a phasing network for Beverage antennas at their Powder Springs GA, monitoring stations.
- A086 **Antennas for Standard Broadcast Station Reception** (2) FCC. A brief discussion of various types of antennas that can be used to improve AM radio reception. Reprinted from FCC publication dated 4/58. 2/88
- A087 **Memorandum on the Beverage Wave Antenna for Reception of Frequencies in the 550 - 1500 Kilocycle Band** (4) Benjamin Wolf and Adolph Andersen. A discussion of length, height, grounding, coupling, lightning protection, transmission effects and termination of Beverage antennas. Reprint from FCC publication dated 4/58. 2/88
- A088 **ENCEBE - A North Carolina Mini Beverage** (3). Description of Beverage construction and reception near Grifton NC. 3/88
- A089 **A 5-Foot Altazimuth Loop for Long or Medium Wave Reception** (2) Steve McDonald. Description and construction details for a large octagonal shaped inductively coupled air-core loop. 9/88
- A090 **Some Thoughts on a Subterranean Antenna System for BCB DXing** (1) Shawn Axelrod. The author compares an antenna strung in an underground basement with a longwire and loop. 10/88
- A091 **Designing a Parasitic Array** (1) Broadcast Engineering. Description of the broadcast antenna used by WWWE-1100, in Cleveland. 11/88
- A092 **The Beverage Antenna Handbook, 2nd edition 1987** (1) Nick Hall-Patch. Review of this excellent Beverage book by Victor A Misek. 11/88
- A093 **Product Review: The Backcountry Booster** (1) Bruce Portzer. Review of this antenna coupler. 12/88
- A094 **Impedance Matching a Beverage Antenna to a Receiver** (5) Nick Hall-Patch/John Bryant. Discussion of impedance and practical solutions for Beverage applications. 2/89
- A095 **Micro-MWDX-4A Loop-vs-Wire Phaser** (4) Mark Connelly. Addresses construction of a phaser to use for loop and longwire phasing. Includes complete instructions for construction and operation. 4/29
- A096 **A Splitter Transformer for the Beverage DXer** (2) Nick Hall-Patch. Discussion of splitters and instructions for construction

of one applicable for Beverage antennas and 50 ohm receiver inputs. 10/89

- A097 **Phasing Unit Designs: Simple to Construct** (3) Mark Connelly. Short discussion of simple phasing units, starting with a basic unit and discussion of add ons. 4/90
- A098 **The "Bevmatcher" Broadband Antenna Matching and Combining Unit** (4) Mark Connelly. Detailed discussion for a unit for coupling longwires to 50 ohm receiver inputs. 3/91
- A099 **The MWT-2 Regenerative Tuner** (12) Mark Connelly. Updated design of the MWT-1 which adds the ability to provide power to active antennas, increases frequency coverage, adds regenerative control, provides higher gain and adds broadband amplification. 3/91
- A100 **What's Wrong With Present Day Loop Antennas** (2) Dallas Lankford. Discussion of loop antenna pre-amplifiers with emphasis on gain factor. Also includes schematic for lower gain amplifier. 3/91
- A101 **High Dynamic Range Balun Loops** (3) Dallas Lankford. Description of a 2 foot air-core loop and accompanying pre-amplifier intended for DXers in rural locations. 3/91
- A102 **Loop Antenna Sensitivity** (1) Dallas Lankford. Discussion of loop sensitivity and what that means to the types of loops AM DXers use. 4/91
- A103 **High Performance One Foot Air Core Loop** (1) Dallas Lankford. Development of a 1 foot air core loop antenna and pre-amplifier (greater mobility and an air-core design). 4/91
- A104 **LIL-3** (1) Dallas Lankford. Schematic and description for a simple phasing unit intended for use with longwire and loop antenna. 4/91
- A105 **The RTU-1 Remote Tuning Unit for Active Whips** (6) Mark Connelly. Description of a varactor diode tuned remote pre-selector for whips. Schematic, parts list and construction details are included for the tuner and control circuitry. 6/91
- A106 **Option 5 / MWT-2: A Controller for Remotely-Tuned Antennae** (2) Mark Connelly. An option to allow remote control of varactor-tuned antennae. Includes parts list, schematic and a complete MWT-2 block diagram. 7/91
- A107 **Interference-Reducing Antennas for the BCB / Remote Tuning and Amplified Antenna Signals** (3) Denzil Wraight. Antennas for the reduction of interference from household appliances, fluorescent lighting and TV utilizing transformers are

discussed. Some thoughts on components used for remote tuning systems. 7/91

- A108 **Inverted L Noise Reducing MF/VLF Antenna** (2) Dallas Lankford. Description, schematic and discussion of a specific noise reducing antenna design. Construction details are supplied as well as a comparison to other antennae. 8/91
- A109 **Loop Experiments: The Super Booster Bar** (1) Gerry Thomas. Construction of a tuned passive ferrite booster loop which inductively couples to a receiver to improve reception. 8/91
- A110 **The RTL-1 Remotely-Tuned Loop** (9) Mark Connelly. Details on a remotely tunable balanced loop antenna used with Palomar loop coil heads (or similar) and a phasing unit (phasing with longwires). Schematics, parts lists, board layouts and other construction details included. 8/91
- A111 **The DCP-1 Dual Controller / Phaser for Remotely-Tuned Active Antennae** (4) Mark Connelly. Discussion of the control of two independent varactor-tuned remote active antennae and output phasing. Schematic, parts list and layout are presented as well as a description of its' usage. 10/91
- A112 **MWDX-5 Phasing Unit** (6) Mark Connelly. Longwire phaser utilizing both series (long wires) and parallel (short wires) tuned inputs. Also uses BBA-C broadband preamplifier. 1/92
- A113 **BFE-C Loop Amplifier Card** (2) Mark Connelly. Schematic and text describing a balanced cascode loop amplifier (similar to Dallas Lankford's new loop amp design) which reduces noise and spurious responses from loop antennas. 2/92
- A114 **Mini-MWDX-5: A Very Simple Phasing Unit** (3) Mark Connelly. Brief description of a simple two wire phasing unit. 2/92
- A115 **More notes on Interference-Reducing Antennas** (3) Denzil Wraight. Continued discussion (see A107/A108) of interference reducing longwire antennas. Short bibliography included. 3/92
- A116 **The Quantum Loop** (3) Gerry Thomas. Design description of Gerry's new ferrite loop antenna complete with construction details, tuner/amplifier schematic and usage. See A120 for review. 3/92
- A117 **Antenna Switching Box** (1). Pictures and description of a box with banana jacks that allows easy switching between multiple antennas without switches. 3/92
- A118 **The Electric Fence Beverage** (2) Leonard Hyde. Details on the construction and use of a Beverage antenna using .042

gauge fence wire along with construction details for a wire winding spool. 5/92

- A119 **One-Chip Active Whips** (2) Mark Connelly. Active whip amplifier design utilizing single chip buffer amplifiers. 6/92
- A120 **Quantum Loop Test Evaluation and Improvements** (2) Mark Connelly. Marks tests and evaluates Gerry Thomas' Quantum Loop (see A116). Several problems and their solution are discussed. 7/92
- A121 **Improved Receiver Grounds** (3) Nick Hall-Patch. Discussion of antenna and receiver ground schemes with emphasis on 'what works' best. 9/92
- A122 **Improvements to Regenerative Tuner Designs** (1) Mark Connelly. Discussion and schematic for the RFE-D regenerative tuner/amplifier and its integration in Mark's antenna system. 9/92
- A123 **Another Look at Noise-Reducing Antenna Systems** (1) Mark Connelly. Continued discussion of the low noise inverted L antennas discussed in A107/A108. 10/92
- A124 **RTL-1A: Improved Version of the RTL-1 Remotely-Tuned Loop** (3) Mark Connelly. Addendum to A110 outlining modifications to the basic design adding switches for more dynamic operation, switching the amplifier from a BFE-A to BFE-C, and broadband amplifier from BBA-C to BBA-C1. 10/92
- A125 **High Performance General Purpose Loop Amp** (5) Dallas Lankford. Complete description and schematic of an improved loop amplifier with balanced output. 11/92
- A126 **Ribbon Cable Loops** (2) Mark Connelly. Computer ribbon cable is used to construct the windings for a loop. Construction details and results of experiments Mark conducted with a 5 foot long, 10 conductor loop. 12/92
- A127 **BUF-A Buffer Amplifier Card: A Valuable Building Block for DX Projects** (3) Mark Connelly. The use of off-the-shelf buffer-amplifier chips in DX applications. 1/93
- A128 **Super MWDX-5 Phasing Unit** (6) Mark Connelly. Enhanced capabilities of the MWDX-5 (see A112) including added transformers for noise reduction, better nulling and spare antenna connections. 4/93
- A129 **An Unamplified Four Foot Box Loop** (4) Shawn Axelrod. Complete details on construction and tuning of this inductively coupled loop. 5/93

- A130 **KIWA MW Loop Antenna** (1) Phil Bytheway. Complete, detailed review of this 12 inch air core loop antenna with regeneration. 7/93
- A131 **A Coupler and Upgrades for the Quantum Loop** (2) Gerry Thomas. Construction details for a loop coupler and use of the coupler with radios without external antenna terminals. Also, several upgrades to the original design are outlined. 7/93
- A132 **The RTL-2 Remotely-Tuned Loop** (5) Mark Connelly. The RTL-2 has increased performance over the RTL-1 (see A110), and the ability to handle Quantum, Palomar and home-brew ferrite core antennas.
- A133 **MWT-3 Regenerative Tuner / Controller** (6) Mark Connelly. Combines the features of remotely controlled loops and whips with active and passive preselection, all with improved dynamic range (versus MWT-1 and 2 - see A99) 12/93
- A134 **DL-1 Delay-Line Phasing Unit** (4) Mark Connelly. Complete discussion of using delay lines in a passive phaser. Good dialog on the principles of delay line phasing, and operation of the DL-1. 3/94
- A135 **KIWA vs Quantum Loop Comparison** (1) Elliot Straus. Head to head comparison of these two commercially available loop antennas. 11/94
- A136 **Antenna Experiments - Summer 1994** (3) Mark Connelly. Discussion of several antenna system configurations. Loop phased against Whip, "snake" (ground transmission line) and Balanced Wire Antennas are described in detail. 11/94
- A137 **The Case for the Full Size/Full Performance Loop Antenna** (3) Ray Moore. Discussion of the advantages of using large, unamplified, air core loops over smaller ferrite or air core loops. 12/94
- A138 **MWDX-6 Phasing Unit** (7) Mark Connelly. Brief description of an antenna phaser with improved signal-to-noise ratio at low signal rural locations. Wires at least 66 feet long should be used. 1/95
- A139 **Loop Showdown: KIWA versus RSM-105** (2) Mark Connelly. Brief description of the two loops and a thorough comparison across the MW band. Also includes some comparisons with the Quantum loop. 9/95
- A140 **The Quantum (or Q-) Stick** (2) Gerry Thomas. Description of a ferrite passive antenna booster for use with portable radios. In addition to a tuned circuit for BCB, it also contains circuitry for connecting it to an external antenna jack. 2/96

- A141 **The DCP-2 Dual Control / Phaser** (5) Mark Connelly. An updated version of the DCP-1 (see A111) which includes delay line circuits for easier tuning/phasing. Description, parts list and operation are covered. 6/96
- A142 **Advanced Q-Stick DXing Techniques** . How to use your Q-Stick and portable radio to improve reception quality and increase your probability of nabbing some tough DX, Gerry Thomas (2 p)
- A143 **Two Updated Remote Active Antennas** The updated construction and use of 2 RemoteActive Antennas Mark Connelly (20 p)
- A144 **Remote-Controlled Termination Beverage Antenna** (18 p) Steve Byan. Describes how to use a commercial cadmium sulphide photocell package to control the termination resistance of a Beverage antenna from the receiver. Also some notes on Beverage antenna installation and operation. (2-97)
- A145 **The JPS ANC-4 Antenna Noise Canceller** (3 p) Harry Helms and Nick Hall-Patch. A brief description and operational review of a commercial noise canceling system that uses a built in active antenna. (2-97)
- A146 **The MFJ-1026** (2 p) Mark Connelly. An extensive review of this "Deluxe Noise Canceling Signal Enhancer" from MFJ, including instructions for making it functional from 300 to 1800 kHz, and describing its use as a phasing unit for two different antennas (08/97)
- A147 **DXP-1 DXpedition Phasing Unit** (17 p) Construction and use of the DXP- with features not available on the MFJ-1026. By Mark Connelly, WA1ION (18.0p) (5/99)
- A148 **Is it a Loop or a Random Wire?** (6 p) Nick Hall-Patch. A description of terminated loop antennas that provide cardioid receiving patterns, including the K9AY, the Ewe, Flag and Pennant antennas. (03/00)
- A149 **The Wellbrook K9AY Antenna: A User's Review** (6 p) John Bryant. A review of a commercially available version of the K9AY antenna, describing its capabilities on long, medium and short waves, and a variant that uses 4 loops for greater nulling precision, rather than Wellbrook's original two loops. (08/00)
- A150 **Mark Connelly** - An excerpt from some recent correspondence with Gerry Thomas of RadioPlus Electronics. on loop experiments. (.0p) (3/01)
- A151 **Is Your Coaxial Lead-In Actually an Antenna??** (6 p) John H. Bryant with Bill Bowers. Description of how a coaxial cable lead-in can degrade the directionality and low noise characteristics of an antenna, along with notes on the design and testing of the RF chokes used to solve the problem. (4/01, updated to 10/03)
- A152 **Electrically-Short Dipole Antennas** Discussion of a short dipole antenna. and how to obtain maximum signal. by Mark Connelly, WA1ION - 8 APR 2001 (1.0p) (5/01)
- A153 **Initial "Kaz Antenna" Tests at WA1ION** (1 p) By Mark Connelly (5/01)
- A154 **"Sloper Antenna Tests"**(1.0) Mark discusses several sloper antennas he has used, and how it diminished local signals. by Mark Connelly - WA1ION - 16 APR 2001 (6/01)
- A155 **Fabricating Impedance Transformers for Receiving Antennas** (13 p) John Bryant. An update of reprint A94, describing the theory behind the design of antenna impedance matching transformers, the preferred core materials, and practical details on winding and using the transformers. (05/01 updated 07/03)
- A156 **Testing Two "KAZ" Squashed Delta Antennas** (8) John Bryant. The Kaz antenna is a variant of the cardioid designs described in A148. This review compares its performance with the K9AY antenna, and describes the advantages of the "Super" Kaz, a larger version of the original. (05/01)
- A157 **KAZ vs Flag** Andy tests the KAZ Delta Loop against the KA9AY. By Andy Ikin(1.00p) (8/01)
- A158 **Phasing Improves Kaz Antenna Nulls** By Mark Connelly, WA1ION 10 JUL 2001(2.0p) (9/01)
- A159 **Loop Shoot-Out at East Harwich** (3 p) Mark Connelly. A comparison of the performance of a Kiwa loop against variants of the Quantum loop and against a 30 meter sloper antenna. (10/01)
- A160 **Phased Spaced Active Whips and Broadband Loops** (3 p) Mark Connelly. A comparison of phasing two active whip antennas against each other versus the phasing of two small broadband loop antennas, as well as phasing a whip against a loop. (08/02)
- A161 **Flag Antenna Construction and Test Results** (5 p) Mark Connelly. A detailed description of the construction of this

- antenna, including matching transformer and remotely controlled Vactrol termination. (10/02)
- A162 **New Termination Control Method for Flag, Pennant, and similar Antennas** (2 p) Mark Connelly. Another method for remotely varying an antenna termination, using two feedlines. (12/02)
- A163 **Three Loop Antenna Array with Electrically-Rotatable Nulling** (5 p) Mark Connelly. By using three broadband loop antennas set up at 120 degree bearing differences, a fully rotatable single-null (cardioid pattern) can be achieved by combining given pairs of loops (03/03)
- A164 **The AMRAD Active Antenna / The Wellbrook ALA 100 Large Aperture Active Loop Antenna** (2 p) Nick Hall-Patch. Review of an active whip antenna, originally described in a QST construction article, as well as a review of a commercially available active broadband loop antenna. (09/03)

DOMESTIC

- D002**A History of Bootlegging in Indianapolis: The Rise and Fall of the Ten-Watt Voices** (6) Charles Taylor. The story of several pirate radio stations in the 1960's. 3/75
- D017**A Few Rural Alaskan Radio Stations** (3) Mike Dorner. Commentary on several radio stations in Alaska, their histories and operations. 2/78
- D018**Highway Advisory Radio** (1) Bruce Portzer. Describes low-powered radio stations that provide motorists with road condition information. Includes list. See L19. 4/78
- D020**A Look at AM Stereo** (2) Greg Monti. Talks about the various plans for introducing stereo to AM. The possible effects of each plan are discussed. 4/80
- D021**How a Radio Network Works** (1) Karl Zuk. Explains how a nationwide network gets its programs to its affiliates. 10/81
- D022**America's Newest Way to Run a Station** (1) Ed Ryan. Discusses satellite radio programming and how it works. 3/82
- D023**United States Domestic Radio Networking** (2) Greg Monti. Complete description of national radio networking in the US. 4/82

- D024**AM-Azing Wisconsin** (2) John Rieger. Discusses the programming, history, and other information on many Wisconsin stations. 2/87
- D025**Western Wisconsin** (3) John Rieger. Similar to D24 but concentrates on the western part of the state. 10/87
- D026**Alaskan Radio** (1) Rod O'Conner. Map, list, and short article on all the stations in Alaska. 3/85
- D027**The Alaskan Forces Radio Network** (1) Rod O'Conner. Discusses the history and function of AFRN and lists current outlets. 2/86
- D028**The KTRC Antenna Systems** (1) Cary Simpson. Describes this New Mexico station's unusual antenna installation. 11/86
- D029**DXing the Travellers Information Stations** (3) Bruce Portzer. An introduction of TIS station operation and tips for identifying them once heard. 4/88
- D030**Changes Afoot in the AM Band** (2) Bruce Portzer. Discussion of recent changes made by the FCC in AM band broadcasting, including AM station power, station interference changes and band expansion to 1700. 7/92
- D031**ICI Radio Canada** (1) Shawn Axelrod. Informative article on the French service of Radio Canada and the future of Radio Canada. 5/95

FOREIGN

- F001 **DXing the Latins** (2) Bruce Portzer. A listing by country of Central and South American stations which are easiest to pick up, plus tips on Spanish pronunciation. 8/76
- F004 **DXing the TA's** (2) Richard Eckman. Techniques for hearing Trans-Atlantic stations with what to listen for, organized by country. 8/79 (FL8)
- F005 **The IRCA Mexican List** (7) Bruce Portzer. Compilation of all available data on Mexican stations, including frequencies, slogans, schedules, and powers. 4/81 (FL9)
- F016 **Spanish, French, and Portuguese Report Forms** (6) Larry Godwin/Ron Schatz/Phil Bytheway. Instructions and suggestions for writing reception reports in SS, FF or PP, including definite, tentative and follow-up. (NMP, FL3)
- F021 **Tapes Reports to Foreign Countries** (1) Larry Godwin. Answers questions raised concerning reception reports to other countries, with suggestions on how to mail them. 1/66

- F026 **Time Pips as an Aid to IDing TP's** (2) Nick Hall-Patch/Bruce Portzer. Discussion on identifying the time pips used by Pacific, Asian and European stations. 9/77
- F028 **A New Era of TP DXing** (2) Bruce Portzer. A list by country of easy to hear stations located in Asia and the Pacific with tips on how to hear them. 8/79 (FL8)
- F030 **Spotlight on Soviet Far East** (3) Randy Seaver. Very informative discussion of Soviet Far East BCB stations including schedules and identifying practices. 10/77
- F031 **VOA Thailand/American Forces Radio-Diego Garcia** (1) Mike Hardester. Two short articles about Pacific area stations. 8/78
- F032 **Trust Territory Stations/Radio Tonga/KMTH Midway** (1) Mike Hardester. Three short articles about Pacific area stations. 8/78
- F033 **Southern Command Network/Norfolk Island Broadcasting: VL2NI** (1) Mike Hardester. An article about a Central American US station and another concerning VL2NI. 8/78
- F034 **DXing in Sweden** (2) Sigvard Andersson. A Swedish DXer describes DXing from Sweden where one tries for stations in the US. 4/79
- F035 **How to Pronounce Korean, Chinese and Spanish** (1) Bruce Portzer/Bill Harms. Three short articles to help understand how these languages sound. 10/79 (FL8)
- F036 **Trans-Pacific SW Parallels** (2) Bruce Portzer. List of SW parallels for BCB stations in the Trans-Pacific and Down Under areas. Useful for identifying stations. 10/79 (FL8)
- F037 **Latin American SW Parallels** (1) Bruce Portzer. List of SW parallels for BCB stations in the Latin American and Pan American areas. 10/79 (FL8)
- F038 **Broadcasting in Bermuda** (1) Charles Taylor. Talks about the country, its stations, their locations and formats. 11/79
- F039 **DXing Latin America and the Caribbean: Country by Country** (3) Mark Connelly/Neil Kazaross/ Marc DeLorenzo. Tips on hearing Latin American countries on the BCB from the East Coast of the US. Gives programming details, where and when to listen along with a difficulty rating. 12/79
- F040 **Hearing Latin America and Caribbean Countries in the Pacific NW** (2) Bruce Portzer. As above, except from the Pacific North West. 12/79
- F041 **DXing in Africa** (3) Pete Taylor. A DXer talks about what he heard while in Africa. Includes a list of stations. 1/80
- F042 **DXing in Asia** (4) Pete Taylor. Pete talks about DXing while he was in Asia. A list of stations is included. 2/80
- F043 **A Zonal Analysis Approach to Trans-Atlantic DX** (2) Mark Connelly. Divides TAs into zones according to great circle bearing. Discusses conditions responsible for reception and/or non-reception of each zone. A chart showing divisions for eastern MA also given. 2/80
- F044 **A Trans-Atlantic DXers Guide to Sunrise and Sunset Times** (2) Mark Connelly. A technique is described for estimating times to listen for TAs based on the sunrise at the station and sunset at the listener. Tables for TA sunrise and US sunset times are included. Also Latin American sunrise chart is included. 2/80 (FL9)
- F045 **A Zonal Analysis Approach to Pan-American DXing** (2) Mark Connelly. Groups Pan-American signals by loop bearing and discusses conditions allowing/blocking reception of each "zone". Chart for the zonal breakdown in MA is also included. 6/80
- F046 **A Zonal Analysis Approach to Trans-Pacific DX** (1) Bruce Portzer. TP signals are broken down according to loop bearing and distance. Reception qualities of each zone is discussed, and a chart showing the breakdown for Seattle is included. 9/80
- F047 **The DXers Guide to China** (5) Bruce Portzer. Everything you wanted to know about broadcasting in China including pronunciation guide, map, list of stations, schedules and formats. 10/80 See also F50. (FL9)
- F048 **A Guide to DXing Korea** (3) Bill Harms. A very complete guide to broadcasting in Korea. Networks, IDs and QSL policies are discussed. Includes a list of stations. 2/81 (FL9)
- F049 **A Baja Expedition** (2) Pete Taylor. DXing from the southern tip of Baja California Sur. Complete with list of stations heard and program details. 3/81
- F050 **Random Remarks on Chinese Broadcasting** (3) Pete Taylor. Comments and information on Chinese broadcasting with station list, maps, and program information. 3/81
- F051 **An American DXer in Europe** (2) Bruce Portzer. Vacation in Europe with a radio. DXing from various locations is discussed. Includes a list of stations heard. 11/81
- F052 **AFRN** (1). Description of AFRN in Alaska. Outlines types of stations and programming. 12/81
- F053 **Latin American Holidays** (2). Updated periodically. 4/82

- F054 **IDing Japanese Broadcast Stations** (1) Charles A. Taylor. Concise explanation of how Japanese NHK and commercial stations identify. Describes what to listen for. 1/82
- F055 **China Remonitored** (1) FERC (Far East Radio Club). List of Chinese stations, as monitored by the FERC in Japan. 2/82
- F056 **TA DX from West Coast North America** (4) Nick Hall-Patch/Bruce Portzer. A very complete analysis of TA reception from the West Coast. Receptions are tabulated by zones and discussed in detail. 2/82
- F057 **Japanese Radio Networks** (2) Japan BCL Federation. List of Japanese network affiliates and a map showing locations. NHK stations' local addresses are also included. 3/82
- F058 **DXing Mexico** (3) Bruce Portzer. Tips on hearing and identifying stations in Mexico. Information is broken down by 'estado' with suggestions on how to hear each one. 3/82
- F059 **Live... From Tegucigalpa, Honduras** (1) Don Moore. List of station formats. 4/82
- F060 **DXing from Jan Mayen: 1981-82** (5) Geir Stokkeland. A Swedish DXer describes DXing on the small Arctic island of Jan Mayen (between Scandinavia and Iceland). A list of MW stations which were heard is included. 9/82
- F061 **Your First 40 Trans-Atlantic Countries** (5) Mark Connelly. Reception of TA countries is outlined with frequencies, times and analysis of propagation. The NE US and SE Canadian point of view is stressed; however, details are useful to all DXers. 10/82
- F062 **Your First 30 Countries in English** (3) Mark Connelly. Author gives details on how to hear various English broadcast stations in the world. Each country is listed with pertinent details on hearing English broadcasts. NE US focus, but most would be applicable to all DXers. 11/82
- F063 **The Odds on the Even TA's (Revisited)** (4) Mark Connelly. Discussion of hearing Trans-Atlantic stations located on North American frequencies (i.e., 10 khz). Equipment, technique and listing of frequencies with schedule information is included. 11/82
- F064 **A Cross-Index of China** (4) Art Peterson. Complete listing of the new Pinyin and the older Wade-Giles spelling of Chinese cities with latitude/longitude of each. 12/82
- F065 **Private Medium Wave Stations in Indonesia** (5). Complete with call, frequency and addresses. 3/83
- F066 **Report from the Virgin Islands** (4) Glenn Hauser. DXer tells what it's like to DX from the Virgin Islands. Many loggings included. 1/83
- F067 **MW Stations in Australia** (3). List. 3/83
- F068 **Report from Saudi Arabia** (3) Richard Wood. 4/83
- F069 **Report from Paradise** (1) Don Moore. Author describes his visit to the 'El Paraiso' section of Honduras and the radio stations he found there. 5/83
- F070 **The Kiwi Korner** (2) Pete Taylor. Listing of New Zealand stations and times of local originated broadcast which can be used to aid in verification. 6/83
- F071 **A Jamaican DXing Holiday** (3) Gerry Thomas. A DXer visits Jamaica and reports what he heard during mid-day and mid-evening. 9/83
- F072 **Report from Guatemala** (1) Don Moore. A few impressions of radio in Guatemala. 9/83
- F073 **IRCA Central American List** (6) Bruce Portzer/Don Moore. One of the most complete and accurate lists of C.A. stations. Compiled by Bruce and checked by Don (living in Central America). 1/84
- F074 **DXing in Alaska** (2) Hurley Parkhurst. Summary of station loggings from 9/82 to 10/83 heard in Nenana, Alaska. 12/83
- F075 **Australian Slogan List** (1) David Headland. List of station slogans heard between 8/84 and 9/84. 10/84
- F076 **A Change in the Romanization System for Korean Place Names** (1) Bill Harms. Introduces the new "Modified McCune-Reischauer" system for Korean spellings. 11/84
- F077 **The First Fifty Countries from Hawaii** (2) Richard Wood. Lists Richard's first 50 countries with tips, grouped by location. 12/84
- F078 **Introduction of the Stations in the Range 1600-1700 khz** (1) Yoshinori Kato (via FERC). Lists low powered Japanese weather and coastal stations just above the BCB.
- F079 **Korean Broadcasting Systems Station List** (2) Bill Harms. Lists the power, network, frequency, address, etc. of all KBS stations. 11/85
- F080 **Australian Radio Slogan List** (2) David Headland/Chris Rogers. Lists the on-air slogans used by Australian stations. 2/86
- F081 **Caribbean MW DX Guide** (2) Mark Connelly. Best bets for hearing the Caribbean countries in the Northeastern US.

- F082 **Trans-Pacific Shortwave Parallels** (3) Nick Hall-Patch/Paul Routenberg. Lists all Trans-Pacific BCB stations with known shortwave parallels, and their frequencies. 10/86
- F083 **Radio Reloj** (1) Jim Hall. Describes this Cuban network and how to hear it. 10/87
- F084 **Cuban Frequency Roster** (1) Jim Hall. Lists Cuban stations and their network affiliation. 1/88
- F085 **Christian Broadcasting System (Korea)** (1) Bill Harms. List of outlets, with frequency, power, schedule, and address for each. 3/85
- F086 **South American Reception in Hawaii** (2) Richard Wood. Discusses reception of South American stations in Hawaii. 3/85
- F087 **Best Bets for Latin America** (2) Mark Connelly. Discusses reception of Latin America in the Northeastern US, with probable targets for each country. 3/85
- F088 **A Look at Radio Rebelde** (2) Jim Hall. Discusses the programming, locations and frequencies of outlets, and QSL policies of this Cuban network. 11/86
- F089 **American Forces Network Europe** (1) Bill Harms. Affiliates and program schedule. 2/87
- F090 **DXing the Latin Splits: The LA Split Frequency Yearbook/History** (2). Discussion of Pan American stations broadcasting on non-10khz frequencies. A very complete list of stations heard is included. 10/88
- F091 **Radio Taino** (2) Jim Hall. All you ever wanted to know about this Cuban Tour Radio station network. 12/88
- F092 **DXing in China** (2) Masaru Duga. By frequency listing of Chinese stations heard from 3 locations. Reprinted from Far East Radio Club. 1/89
- F093 **1985 Cuban Standard Broadcast List** (2). Complete list of Cuban AM stations, including network and power. 1/89
- F094 **Nicaragua: Special Report** (1) Jorma Mantyla. Discussion of radio in Nicaragua and a list of stations/formats. 2/89
- F095 **Latin American DX Trip, February-March 1989** (1) Pete Taylor. Discussion of DX heard on a boat trip from Lima, Peru to Los Angeles (with stops). 4/89
- F096 **Antipodean DX Odyssey** (2) Niel Wolfish. Bandscans and DX as heard during a trip to Australia, New Zealand and Fiji during the summer of 1989. 11/89
- F097 **Foreign DX on the West Coast** (3) Bruce Portzer. Detailed outline of equipment, conditions and information necessary to foreign DX. Discussion of hearing TA, TP and PA stations with country-by-country best bets. 1/91
- F098 **Newfoundland DXpedition: November '91** (9) Mark Connelly. Details of a DXpedition to the east coast of Newfoundland with Neil Kazaross and Jean Burnell in Nov of 91 where much exotic foreign DX was logged. Complete details of all DX heard. 12/91
- F099 **MEX-DX '92** (3) Jef Jaisun. A tabulation of DXing during Jef's vacation to Puerto Vallarta and Melague Mexico in January of 1992. Complete list of stations heard with program/slogan details. 3/92
- F100 **RUSSIAN FAR EAST STATIONS** (1) Bruce Portzer. Partial list of stations in the far east region of Russia. Includes some schedules. From the Leningrad DX Club. 10/92
- F101 **PHONETICS CAUSE PROBLEMS WHEN IDing XE CALLS** (1) Carl Huffacker. Describes possible call letter pronunciation confusion when IDing Mexican stations. 11/92
- F102 **The October 1993 Newfoundland DXpedition** (11) Mark Connelly, Jean Burnell, Bruce Conti and Neil Kazaross. Excellent discussion of the major DXpedition to the Newfoundland coast. Includes complete loggings of TA and PA DX. 12/93
- F103 **Your First 50 Trans-Atlantic Countries (and then some)** (8) Mark Connelly. A complete guide to hearing Trans-Atlantic countries from East Coast North America, including equipment and techniques. Countries are rated by difficulty from easy to difficult with target lists for each country. 10/94
- F104 **The Newfoundland DXpedition of Spring 1995** (6) Jean Burnell. Tabulation of the May 10 through May 14 1995 DXpedition... complete with loggings, etc. 7/95
- F105 **The October 1995 Newfoundland DXpedition** (22) Mark Connelly. Tabulation of the October 12 through 15 1995 DXpedition... complete with loggings, etc. 12/95
- F106 **LIST OF MARINE WEATHER INFORMATION STATIONS IN JAPAN** Following is a list of the 28 stations operating in Japan. All operate every hour for 1-2 1/2 minutes giving weather and ID info. All operate on 1670.5 khz in the H3E mode. After the station location, the time the station is on follows. Note: Many of these locations are not listed on a map (1.0p) (10/98)
- F107 **Bruce Portzer's DX report** from a recent trip to St. Lucia in the Caribbean. (10.0p) (12/00)

- F108 **JAPANESE MW STATION LIST** – (6 p)A comprehensive list of Japanese AM stations. Sorted by frequency, location, and Commercial Broadcasters. An abridged list is available via paper. Full list is included on CD. John Bryant (3/01)
- F109 **Caribbean Cruise Notes**. Some notes on his 3 day Western Caribbean Carnival Cruise. Bob Foxworth - Tampa FL (1. p) (12/01)
- F110 **The Fidel Report** By Harold Frodge Networks and Broadcasting stations in Cuba (6.0p) (3/02)
- F111 **Medium Wave Parallels in Trans Pacific DXing from the West Coast of North America** (1200-1600 UTC) John H. Bryant - Fall 2002 (2.0p) (11/02)
- F112 **Alaska from the lower 48 states** by Craig Healy Grayline DXing Alaska from the West Coast. , www.am-dx.com (1.0p) (5/03)
- F113 **OCT 93 NEWFOUNDLAND DX-PEDITION** (11)

GENERAL

- G001 **DX While You Sleep** (1) Paul Petersky/Tom Sundstrom. Outlines techniques for recording special tests or DXing while asleep. 9/72
- G002 **Noise** (1) Lawrence Foster/John Kalpus. Discussion of eliminating various types of noise, including fluorescent lamp noise. 12/67
- G003 **Sunrise/Sunset Maps** (\$2.00) Ernie Wesolowski/Father Jack Pejza. 24 maps showing sunset and sunrise times for the US and the World. Includes explanation of their use and examples of DX made possible by a knowledge of SR/SS times. (AL4)
- G004 **How Do You Rate Your Best Catch** (1) Larry Godwin. Gives some criteria DXers might use to rate catches. 4/66 (NMP)
- G005 **Computation of Sunrise and Sunset Times** (14) Father Jack Pejza. Tables and instructions for computing the exact time of sunrise and sunset for latitudes up to 60 degrees N and S, throughout the year. 12/73
- G006 **Information Please** (1) Father Jack Pejza. Describes a system used to keep station records, with the ability to retrieve information easily. 5/72
- G008 **FCC Rules: Station Identification** (1) Bill Hardy. The rules and a short explanation. 9/74
- G009 **FCC Rules: Pre-Sunrise Service Authorization** (2) Bill Hardy. The rules and a short explanation. 1/75
- G010 **Territory-Geometrical BCB DXing** (2) Dave Fischer. Several methods of systematically DXing are described. 1/75 (NMP)
- G011 **Veries** (4) Karl Forth. Several reception reports to a fictitious station done by different DXers. 1/75
- G012 **All You Wanted to Know about Running a Radio Club Convention But Didn't Know Who to Ask** (12) Father Jack Pejza. An experienced convention host gives suggestions, ideas and warnings. Includes news release and souvenir examples.
- G013 **Average Coverage in Miles** (1) Dave Fischer. Chart showing the coverage area of BCB stations by frequency and power. 12/68
- G014 **Morse Code Identification** (1) Larry Godwin. Techniques for using Morse Code to ID testing stations. Also includes the code alphabet. 2/70 (FL8)
- G015 **Veries - by Areas of the US** (1) Karl Forth. Discusses percentages of verification returns by state and province. 9/74
- G016 **UTC/GMT Conversion Chart** (1). Includes all time zones of North America. (AL3, FLs)
- G017 **After 50 years at the Game, One DXer Learns a New Trick** (1) Gene Martin. A technique is described for using the BFO to hear stations next to strong domestics. 1/76
- G018 **Sunrise, Sunset, and the Shortest Day of the Year** (1) Bill Hardy. Explains why the length of the day and the time of sunset don't necessarily jibe directly. Also talks about how a DXer can take advantage of it. 12/75
- G020 **World Time Chart** (1). World map showing all time zones and the letter designation of each. 1/77 (NMP)
- G021 **Perceptual Confusions Among Letters of the Alphabet** (2) Gerry Thomas. Analyzes the possible confusions resulting in identifying call letters in a background of static and other noises. 8/77
- G023 **Sunrise DX in Depth** (2) Robert Kramer/Nick Hall-Patch. Three part analysis of sunrise DX with specific examples and techniques outlined. 2/78
- G024 **Writing Reception Reports** (3) Bob Coomler. Hints and techniques for writing good reception reports. Defines which details are verifiable and other information to include. A sample report is also included. (NMP)

- G025 **Mistake DXing** (1) Bill Hardy. Talks about the kinds of mistakes radio station personnel can make and how a DXer might hear a station because of them. 10/78
- G026 **Allocations** (2) Bill Hardy. Discusses how the BCB frequencies are broken down and the types of stations that can operate in each frequency. 10/78
- G027 **The Traveling DXer** (1) Mark Connelly. Talks about the equipment and techniques for the DXer when DXing away from home. See M21 for some technical details. 2/79
- G028 **Home Computers and DXing** (1) Mark Connelly. Several suggestions on how a home computer may be used to keep DX records, do DX calculations, etc. 2/80
- G029 **DXing the Contests/Graveyard Channels** (1) Robert Kramer. Explains how becoming involved in a DX contest can improve your DX skills. List of tips used to win contests is included. Describes the different techniques needed for hearing stations on graveyard channels. List of times and tips. 9/81 and 10/81
- G030 **Some Random Notes on Sunrise Skip** (1) Robert Kramer. Discussion of sunrise skip and how it can be used to hear new stations. Good list of guidelines provided. 10/81
- G031 **Time Documentation of DX** (2) Charles R. Smiley, Jr. Author describes two techniques for recording time information on a stereo recorder. 8/82
- G032 **DXing the Cordless Phones** (1) Craig Healy. Techniques for listening to local cordless phone conversations. 8/82
- G033 **Sunset Skip in Depth** (3) Robert Kramer. An experienced DXer gives insight and pointers for getting the most out of sunset DX. 10/82
- G034 **DX Edge** (1) Sheldon Remington. Review of a device used for determining worldwide monthly sunset and sunrise times, as well as the terminator. 11/82
- G035 **A Wolfish Approach to Sunset Skip DX** (1) Neil Wolfish. Tips on how to hear daytime only stations in 50 states at sunset from the NE US and Eastern Canada. 2/83
- G036 **When to DX** (2) Bill Hardy. Concise article that touches on times that certain types of DX can be heard. Excellent for the beginner to acquaint him/her with different techniques of the hobby. 3/83 (AL3)
- G037 **Sunset Skip: A Midwestern Perspective** (2) Karl Forth. Complete explanation of sunset DX with a slight focus on DXing from the Midwest. Many hints included. 3/83 (AL3)
- G038 **DXing During Aurora** (2) Robert Kramer. All the facts and details about DXing during an aurora, including what to expect, what to look for, and a list of pointers. 4/83
- G039 **A New Look at Daytime DX** (2) Bill Harms. Discussion of daytime DX from inland locations. Examples of DX from Utah included. 9/83
- G040 **DXing the 1984 Solar Eclipse** (2) Gerry Thomas. Good analysis of BCB conditions before, during and after the May 1984 eclipse from Pensacola, Florida. 7/84
- G041 **A DXer's Guide to Headphones** (1) Dennis Kibbe. Discussion and a list of headphones currently on the market. 11/84
- G042 **(Retail) Electronic Parts Suppliers** (2) Mark Connelly. Addresses of electronic part suppliers and their specialties, in alphabetical order. 1/85
- G043 **Fifty US States in Finland** (4) Richard Wood. Summary of US stations heard in Finland.
- G044 **Several DX Computer Programs** (6) Mark Connelly. Discussion and program listing for BASIC computer programs to calculate sunrise/sunset times, Great Circle bearing/distance, and sort by frequency for loggings. 4/85
- G045 **Formatology Explained** (2) Greg Monti. Describes the various formats used by American radio stations. 2/86
- G046 **How I DX** (1) Phil Bytheway. Five club members describe their DX strategies. 5/87
- G047 **Hearing the Whole State** (1) Bruce Portzer. Strategies and techniques for the DXer that wants to hear all stations in the home and adjacent states. 2/88
- G048 **Getting Your Listening Organized** (1) Shawn Axelrod. Describes forms for station logging, target stations and UNID used to organize DXing. 6/88
- G049 **An Effective Ground System** (1) Shawn Axelrod. Putting in an effective ground system is discussed. 11/88
- G050 **The Right Stuff to be a DXer** (1) Glen Kippel. Discussion of the basic equipment and other paraphernalia necessary to begin and enjoy BCB DXing. 12/88

- G051 **Some Random Thoughts on a Listening Post Set Up** (1) Shawn Axelrod. Several tips on the set up of a DX listening post. 12/88
- G052 **There is Safety in Numbers** (1) Shawn Axelrod. Discussion of home security, as it pertains to DX related equipment. 6/89
- G053 **Book Review: Baseball America 1991 Radio TV Guide** (1) Bill Hardy. Review of this useful reference for baseball fans which contains complete network and team information. 7/91
- G054 **The Future of AM Radio: Some Statistical Studies** (2) Randy Stewart. Randy interviews Dr Arlen Diamond, asking questions about AM radio's future. Results of various audio quality studies are discussed. 9/91
- G055 **DXing with a Winning Game Plan** (3) Leonard Hyde. Several ideas for improving your DX: targeting methods. 5/92
- G056 **Effective Summertime DXing** (1) Leonard Hyde. DXers describe techniques they use to hear AM DX in the summer. 7/92
- G057 **Coastal DXpeditions - The Logical and Absurd Next Step** (3) Nick Hall-Patch. DXing aboard an Ocean Sciences vessel in the Pacific. Includes list of stations heard. 11/92
- G058 **Using the Computer in DXing** (3) Mark Connelly. Some ideas on how a PC can help with DX reports, record keeping and calculations. 12/92
- G059 **Getting Started in MW DXing** (3) Leonard Hyde. Discussion of the types of receivers used for MW DX, including portable, communications, surplus and car receivers. Discussion of all types of antennas, their strengths and weaknesses. Discusses log keeping and supporting DX clubs. 7/93
- G060 **Using the Stereophonic Decoder in Your Brain** (1) Cary Simpson. A brief discussion of what happens when using headphones that have audio from different radios in each ear. 9/93
- G061 **Mini-DXpeditions** (2) Mark Connelly. Discussion of the advantages of short (time and/or distance-wise) DXpeditions utilizing car radio or small portable. Includes a check list of essentials. 9/94
- G62 **Longwave DX** (1) Shawn Axelrod. Introduction and hints for DXing AM broadcasts from 153 to 279 kHz. 3/96
- G064 **Frequency Selective Voltmeters and their Uses in the Radio Hobby** (3 p) Don Moman. A description of how these pieces of surplus test equipment can be used as DX receivers,

what features to look for, and quick reviews of some of the available models. (02/98)

- G065 **Use of Directional Maps to Track Radio Station Reception.**(4 p) Using a computer and the FCC data base, Richard shows how to calculate distance and azimuth for DX stations. By Richard P Boehme
- G066 **Using the A-index to predict good propagation?** (2 p) Nick Hall-Patch. An analysis of receptions of HLAZ-1566 in Western Canada over three DX seasons, with an unsuccessful attempt to correlate the best receptions with low A-indices. (09/00)
- G067 **THE AURORA** Several DX report their loggings from a major Aurora event (2.0p) (4/01)
- G068 **My "much-beloved" Audio Switching Network** (4 p) John Bryant. Describes a system to allow a DXer to monitor two receivers at once, either in stereo or separately. Similar to M11. (05/01)
- G069 **My first 25 states from Northern California** (without using a loop) Rich Toebe (2. p) (10/01)
- G070 **RADIO YOUTH OF A CITY BOY** by Walt Breville (2 p) (12/01)

HISTORY OF RADIO

- H001 **Frequencies Before 1941** (1) Ron Schatz. Describes the broadcast radio spectrum prior to the 1941 NARBA Treaty. See H30.
- H002 **A Silent Night** (1) Gene Martin. January 24, 1926 was the night almost all US stations went off the air to allow DXers to try for European stations. See H13.
- H003 **So You Heard 3XN, or was it Whippany, New Jersey?** (2) Gene Martin. Describes the early days of radio. See H26.
- H004 **Calls and Slogans** (1) Glenn Hauser. The call letters of many stations often reflect the station's origins. See H5 and H18.
- H005 **Radio History Often Preserved in Call Letters** (1) Gene Martin. Similar to H4.
- H006 **Converting khz to Meters** (1) Thomas White. In the early years of radio, stations were located by their wavelength, not frequency. This chart makes the conversion.
- H007 **The Top Becomes the Bottom** (1) Gene Martin. What happened when the US changed from wavelength to frequency.

- H008**KPPC-AM: Not Just Your Average Radio Station** (1) Jay Murley. Description and history of one of the few 100 watt stations left in the US. 12/73
- H009**The WRR and KDKA Stories** (1) Larry Flegle/Pete Kemp. Describes two early stations, plus some odds and ends on old-time radio. 2/75
- H010**The WGL Story** (1). The Indiana station tells its story. 3/74
- H011**The FCC "Honor Roll"** (1) Bill Hardy. Some stations taken off the air by order of the FCC before 6/72.
- H012**A Little Bit of Anarchy** (2) Thomas White. Describes the broadcasting industry in 1926 and 1927 when there was no Federal regulatory agency.
- H013**Half a Century Ago: The International Radio Week Tests** (3) Thomas White. Covers the international tests between North America and Europe from 1923 to 1926. See H2.
- H015**Dial-Number Order for Stations** (2) Jim Critchett. List of North American radio stations in 1934.
- H017**BCB Radio Stations in Canada in 1929** (1) Dan Sys. Listed by province and city.
- H018**Can You Top This?** (1) Father Jack Pejza. Some radio station calls that preserve the initials of the owner or a regional feature. From 1938. See H4.
- H019**WLW, and Superpower** (1) Mike Worst. Report on WLW's operation of a 500 kw transmitter in the 1930's.
- H020**Radio History - 1912 to 1937** (5). Reprinted from the 1938 Radio Annual. Short notes on advances in the state of the art.
- H021**Three Letter Call History: Some Were Names of Ships** (1) Mike Worst. Most three letter calls were used elsewhere before becoming BCB stations. See H32.
- H022**Mexican and Canadian Radio Stations of 1938** (1). Reprinted from 1938 Radio Annual.
- H023**US Radio in World War Two** (2) Gene Martin. Personal reminiscences on what broadcasting was like during WW2.
- H024**"Super-Power" - 1925 Style** (2). Some theories about super power from 1925.
- H025**KDKA** (1). Article about the station, reprinted from the 8/22 issue of Wireless Age.
- H026**Remembering the Old Days of DXing** (3) Gene Martin. More reminiscences of DXing in the 1930's. See H3.
- H027**WHA - "The Oldest Station in the Nation"** (1) Bob Lazar. A station's history. 10/77
- H028**The Legacy of the Attic Antenna** (1) Bruce Portzer. Describes an attic antenna that was built into the author's home in the 1920's. 7/78
- H029**Story of the "KOB" Problem** (7) Bill Hardy. First part is reprinted from the Federal Register. The remainder are articles that have appeared since. KOB takes WABC to court for clear channel rights and losses. 6/78
- H030**November 1978 Frequency Shifts Similar to 1941** (1) Cary Simpson. Describes the change to the present day radio spectrum that occurred in 1941. See H1. 12/78
- H031**Uncrowded Bands** (1) Bob Curtis. A DXer recalls the days when the BCB was uncrowded.
- H032**The Mystique of the Three Letter Call Signs** (2) Thomas White. Nostalgic discussion of three-letter calls with information on the various stations. See H21. 9/79
- H033**Sharing Time** (2) Thomas White. Explains the origins of Sharing Time stations, problems associated with them and other historical notes. 12/79
- H034**Looking Back at Radio in 1930** (5) Gene Martin. Talks about radio back in 1930 including information on programs, personalities and schedules. A complete radio listing from the 12/30 Radex is also included. 2/80
- H035**Extraterrestrial DX Circa 1924** (1) Thomas White. Author recalls one night in 8/24 when all stations went off to allow people to try to hear transmissions from Mars. 8/80
- H036**The Early History of Radio Hauraki** (1). The story behind the birth of New Zealand's "pirate" Radio Hauraki. 1/81
- H037**Two Stations in One** (2) Bill Hardy. Describes the joint operation of KITN-920, Olympia, WA (now KQEU) and KITI-1420, Centralia-Chehalis, WA. 7/82
- H038**Origin of Call Letters in the Early Days** (2) Cary Simpson. Traces the history of call assignments.
- H039**The Mystique of the Three Letter Call Signs: Revisited** (5) Thomas White. Update of H32. 12/87
- H040**Broadcast Pioneers: Policies and Stations** (5) Thomas White. Discusses licensing practices and call letter assignments in the early 1920's.
- H041**Amateur Broadcasting Station 10BQ** (1) Gardner Smith. Describes a low-powered Canadian stations which operated in the 1920's and 30's.

- H042 **KRLA Becomes "A Thing of the Past"** (3) Steve Mittman. Description of 4/1/88 programming on KRLA, when the station became KFWB of 1958, KRLA of 1963 and KHJ of 1968. 6/88
- H043 **WHO Broadcasting Company History** (1). Short history of WHO from 1/10/24 to 1981. 12/88
- H044 **Los Angeles Radio History Repeats Itself (sort of)** (3) Jim Hilliker. A look at the radio activity on 1300, 1330 and 1430 khz in Southern California. 12/88
- H045 **Farewell to KFAC, KWKW Moves 30 kHz, and Greetings to KAZN** (3) Steve Mittman. Discussion of KFAC-1330's history and the final broadcast text, also discussion of KAZN programming. 3/89
- H046 **History of Idaho AM Radio** (2) Frank Aden Jr. Brief discussion of the History of radio in ID, including brief history of each station. 4/89

LISTS

- L002 **1988 FREQ CHECK LIST** A list of frequency tests by month (3) (NMP)
- L004 **IRCA Countries List** (13) Bruce Portzer. Complete list of present and past MW countries for use in record keeping. Major update. 10/94 (NMP)
- L017 **Best Bet 50 States from the Pacific Northwest** (2) Bruce Portzer. States are rated very easy, easy, moderate, difficult and very difficult, and best bets on stations listed for each. See L25, L27, L34 and L36. 1/83
- L019 **Utility Stations** (3) Bruce Portzer. A list and some information about beacons, traveler information and other stations around and within the BCB. 6/83 (ALs)
- L020 **Canadian Family Life: It's Twins** (2) John Oldfield. Describes small networks in Canada. 6/83 (ALs)
- L021 **CBC English and French Network List** (1). List of the two major networks in Canada, including schedule information. 6/83 (ALs)
- L025 **Best Bets for 50 states - from NY-NJ-New England** (2) Roger Morby. List of stations for all 50 states as possible from the NY, NJ and New England area. See L17. 8/78
- L027 **BEST BETS - SOUTH CAROLINA** (2)
- L028 **EAST SPOTLIGHT - MISSISSIPPI** (1)
- L029 **WEST SPOTLIGHT- NEW MEXICO** (1)
- L030 **WEST SPOTLIGHT - COLORADO** (3)
- L031 **EAST SPOTLIGHT - W VA.** (1)
- L032 **WEST SPOTLIGHT - TEXAS** (7)
- L033 **EAST SPOTLIGHT - N.J.** (1)
- L034 **EAST SPOTLIGHT - ILL** (1)
- L035 **WEST SPOTLIGHT - IDAHO** (3)
- L036 **EAST SPOTLIGHT - ONTARIO** (1)
- L037 **WEST SPOTLIGHT - NEVADA**(2)
- L038 **KANSAS INFO NET-** List of stations on the Kansas info Network (1)
- L039 **MUSIC COUNTRY NETWORK - WSM Music Country stations** (2)
- L040 **WEST SPOTLIGHT - UTAH** (2)
- L041 **AM STEREO STATIONS-** List of AM stations in Stereo (Outdated) (2)
- L042 **DX TRIP TO EL PASO - MARK CONNELLY** (5)
- L043 **FOCUS ON THE FAMILY NET LIST.** (2)
- L044 **ALBUQUERQUE BAND SCAN** from JEFF JAISON (1)
- L045 **ALASKA AM SCENE - AM Stations in Alaska** (1)
- L046 **TALKNET LIST-** NBC Talknet stations (1)
- L047 **FAIRBANKS, ALASKA Bandscan - Frank Merrill** (4)
- L048 **The Word for Today** (1). List of stations that carry the "Word for Today" program, in alphabetical order by state. 2/88
- L049 **Hearing 50 States in the Northwest** (2) Bruce Portzer. Discussion of which stations may be heard in from each state and province from Seattle, WA. Each state/province is graded as to its difficulty. 4/88
- L050 **Hearing 50 States & 10 Provinces in Manitoba** (3) Niel Wolfish. Discussion of which stations may be heard in from each state and province from Manitoba. Each state/province is graded as to its difficulty. 9/88
- L051 **More of the World Above 1600** (6) Shawn Axelrod. Complete discussion of what can be heard above 1600 kHz at this time. Beacons, experimental stations and beacons, driftnet buoys, maritime and pirate stations are covered in a complete listing. 7/95

MODIFICATION

- M001 **The Curse of the Superhetrodyne, and How to Hex It** (4) Joe Worcester. Describes some advantages and disadvantages of the superhetrodyne receiver. Then, suggests a modified TRF circuit as a possible solution. 3/71
- M002 **Putting a Recording Outlet on Your Receiver** (1) Grant Manning. Describes how and where to attach a recording jack which bypasses the volume control of a receiver. (T2)
- M003 **The Worcester Long Distance M.W. Receiver** (6) Joe Worcester. Technical description of a BCB receiver designed by Joe Worcester. The problems encountered when designing the receiver are covered in detail. 11/75
- M004 **SPR-4 SSB Filter** (1) Grant Manning. How to modify a Drake SPR-4 to use the 2.4 khz sideband filters without turning on the BFO, and speed up the AGC response time. 5/74
- M005 **Super Selectivity at a Super Price: The Q-5er** (1) Grant Manning. Briefly describes a method to achieve good selectivity by using a longwave receiver that tunes to the IF frequency (455 khz). 3/72
- M006 **Intermediate Frequency Transformer Alignment** (2) Jon Perkins. A step-by-step outline for aligning the IF stages of any receiver. 3/70
- M007 **Selectivity** (1) Phillip Sullivan. An introduction to the various methods of getting selectivity out of a receiver.
- M008 **A Handy Little Gadget** (1) Tim O'Hare. Describes a switching arrangement for receivers and antennas. Includes an antenna tuner as well. 2/76
- M009 **R-390A/URR Optimization and Alignment Check** (2) Charles Taylor. Explains how to align the RF and IF stages of an R-390A. 5/81
- M010 **Modifying the Realistic TRF** (6) Gerry Thomas/Mark Connelly. Very detailed and specific instructions for aligning, improving the readout (to 10 khz), better selectivity, adding antenna connections and installing a S-meter in the TRF. 10/80 (T2)
- M011 **An Audio Switching Unit** (1) Nick Hall-Patch. Explains how to connect two receivers to a tape recorder in order to listen to either one or playback. 10/80 (T2)
- M012 **Tape Interconnection, the Right Way/An Attenuator Patch Cord for Taping DX** (1) Don Davis/Gerry Thomas. Install an input jack in a receiver to make use of its audio stage for playback. Construction of a patch cord for running radio outputs into the microphone input of a tape recorder. 2/78 (T2)
- M013 **Direct Digital Readout** (1) Grant Manning. Discusses digital readouts and some of the problems that are encountered when designing or using one. 2/78 (T2)
- M014 **Mobilizing the SPR-4 Receiver** (1) Charles Taylor. Addresses problems associated with mobile operation of the SPR-4. Formulates solutions to antenna and power supply problems, and describes the construction of an antenna tuner. 8/78 (T2)
- M015 **WWV Converter/100 khz Crystal Calibrator** (1) Brian Sherwood. Circuit enables a TRF to tune into WWV. Crystal calibrator for BCB to 6 Mhz with 100 khz markers. 12/78
- M016 **Upgrading the Realistic DX-150/160 Receivers** (1) Nick Hall-Patch/Ralph Sanserino. Coupling to the internal BCB loop, cures for overload problems and selectivity improvements are discussed. See M28. 10/80 (T2)
- M017 **Synchronous AM Detectors** (2) Nick Hall-Patch. Discussion of AM detection and the use of a phase-locked loop to improve reception of weak BCB signals. Includes schematics for several applications. 2/83 (T2)
- M018 **FRG-7 Mods** (2) Brian Aase/Ralph Sanserino. Describes modifications to the FRG-7 which improve the S-meter, selectivity, AVC and parallax. 10/80 (T2)
- M019 **An Outboard Ferrite Loop for the Superadio** (1) Gerry Thomas. Describes a method for mounting a Radio West "Shotgun" ferrite antenna on a Superadio. 10/80 (T2)
- M020 **R-390A Operating Procedure** (2) Charles Taylor. Complete description with notes and explanations. 10/80
- M021 **More Thoughts on Tape Recording from the TRF and other Portable Radios** (2) Mark Connelly. Updates and expands on thoughts in the Traveling DXer article (G27). Several methods are discussed, with diagrams. 12/80
- M022 **Aligning the Superadio** (1) Gerry Thomas. Diagrams and text on how to take apart and align the RF, IF and oscillator sections of a GE Superadio. 1/81
- M023 **R-390A/URR Vacuum-Tube to Solid State Power Supply Conversion** (3) Charles Taylor. Complete concise description for converting a R-390A power supply to its solid-state equivalent. Many good diagrams. 2/81

- M024 **Crudley-Bathbrush 26... A Homebrew MW DX Receiver** (3) Nick Hall-Patch. Yes... a solid state homebrew receiver that really works. Design, check out and problems are discussed as the author builds his own. Complete schematic included. 3/81
- M025 **A Homebrew Tube BCB Receiver** (1) Mike Bittner. Author designed and built a receiver using 1 to 3 volt tubes and parts from junk radios. Includes a block diagram. 3/81
- M026 **Antenna/Headphone Switching Units** (1) Derek Claridge/Mike Worst/Nick Hall-Patch. Outlines several methods for switching audio and antennas between multiple receivers and headphones. 5/81
- M027 **Using Ni-Cad Batteries with the TRF** (1) Don Moman. Describes how to connect Ni-Cads in a TRF so they will charge when operating from AC. 5/81
- M028 **Another Look at Upgrading the Realistic DX-150/160 Receivers** (2) Karl Zuk. Expands on the modifications discussed in M16 for antenna coupling, RF gain, selectivity improvement (ceramic filter) and front end diode replacement. Drawings present the details of implementation. 11/81
- M029 **Upgrade a Delco Car Radio/Simple SP-600 Modifications** (1) Karl Zuk/Glenn Kippel. Describes a "Tweaking" technique for stock Delco car radios which improves sensitivity. An adjustable noise limiter modification and a technique for broadening the crystal filter on a SP-600. 1/82
- M030 **A Crystal Calibrator** (1) Bruce Portzer. Circuit and description for a 100 khz crystal calibrator, with a modification for 25 khz markers. 1/82 (T2)
- M031 **Digital TRF Readout: The Easy Way** (2) Bill Block/Frank Aden/Nick Hall-Patch. Detailed description of the installation of a PCIM 177 Digital frequency readout in a TRF. 5/82
- M032 **R-390A 3TF7 Ballast Tube Replacement** (1) Steve Bohac and others. Several proven techniques for replacing this hard to find regulator tube. 11/82
- M033 **ICF-6500W Selectivity Modification** (2) Gerry Thomas/Dennis Kibbe. Complete details and step-by-step construction for installing a narrow IF ceramic filter. Steps for improving the audio are also included. 2/83 and 11/84
- M034 **Plessy SL 6700 IF/Detector IC** (2) Nick Hall-Patch. Description of the IC, schematic for a receiver IF amp/detector and an evaluation of the circuit. 4/83
- M035 **R-390A on Longwave - Cheaply** (1) Craig Healy. Author describes an easy way to use the R-390A for Longwave reception. A LW preselector circuit is included. 5/83
- M036 **A LED S-Meter for the TRF 12-656** (1) Derek Claridge. Article describes how a row of LED's can be used to indicate signal strength on a TRF. 8/83
- M037 **ICOM R-70 Modifications** (1) Don Moman. Allows the SSB Pass Band Tuning filter to be used in place of the 6 khz AM filter and allow preamp to operate below 1600 khz. 8/83
- M038 **Torrestronics TK-1 Digital Display Kit** (1) Randy Tomer. Review of kit. Describes how to use the counter on an HQ-180. 8/83
- M039 **Designing and Building Your Own MW Receiver** (2) Nick Hall-Patch. An experienced experimenter discusses the design of a MW receiver. The design of each section is discussed, including pros and cons from the MW DXers point of view. 9/83 (T2)
- M040 **Two Sony Modifications** (1) Dennis Kibbe. Describes a technique for improving the selectivity of the 7600A by adding a crystal filter. 12/83
- M041 **ICOM R-70 Mods** (3) Laurens Engel. Describes a number of improvements to the receiver. 9/85
- M042 **Schottky Diode Detectors** (1) Nick Hall-Patch. Discusses the use of schottky diodes in the detector stage of AM receivers.
- M043 **ESKAB PLAM Option for the ICOM R-71** (1) Don Moman. Discusses a commercially available detector stage for the R-71. 1/87
- M044 **ICOM R-71 Mods, Tricks and Tips** (1) Guy Atkins. Describes some simple modifications and operating techniques for the R-71. 11/87
- M045 **Kenwood R-5000 Modifications** (1) Don Moman. Several simple modifications to the receiver. 12/87
- M046 **Replacing the R-70's PBT Filter** (2) Gerry Thomas. Describes how to replace the ceramic filter in the R-70/71 passband tuner circuit to improve selectivity.
- M047 **'180 + Collins F455FA40 Mechanical Filter = Super '180** (3) Dallas Lankford. Installation of a Collins FA series mechanical filter in a HQ-180A. /82
- M048 **A Simple Static Protection Device for Shortwave Radios** (1) Shawn Axelrod. Protect the front end of your radio with this easy to construct device. 2/88

- M049 **Adjustable Noise Blanker for R70** (1) Guy Atkins. A quick and simple modification that allows adjustment of the threshold of the R-70's noise blanker using the Monitor knob. 2/88
- M050 **The Line-Cord Choke: Another Weapon Against Line Noise** (1) Chuck Bolland. Choke construction on the line cord of a R-71 is described. Includes some discussion on line noise. 3/88
- M051 **Ballast Tubes for the R-390A** (1). Short discussion of direct replacements for the 3TF7 tubes in an R-390A. Includes ratings for each type. 1/89
- M052 **HQ-180 AGC Mod** (1) Dallas Lankford. Description and schematic to modify the AGC timing of the HQ-180 for better MW reception. 6/90
- M053 **51J-4 Product Detector Mod** (3) Dallas Lankford. Converting the BFO circuit into a Product Detector is described. Complete detailed instructions are included. 7/90
- M054 **51J/R-388 Band 1 Mod and AGC Mod** (1) Dallas Lankford. Improvement of Band 1 (BCB) sensitivity is addressed, as well as a simple modification to improve AGC on AM. 7/90
- M055 **Collins F455FD Mechanical Filter Mod for the Hammarlund HQ-180(A)** (1) Dallas Lankford. Installation of a Collins FD series mechanical filter in a HQ-180A. 8/90
- M056 **The Ultimate Homebrew Receiver? Not Quite!** (3) Nick Hall-Patch. Complete description of Nick's homebuilt receiver, including detailed discussion of each stage and trade-offs. 10/90
- M057 **R-390A Audio Output Impedance Matching** (1) Dallas Lankford. Solution for matching the 600 ohm output of a R-390A to an 8 ohm speaker. 11/90
- M058 **DX-440 - Sangean ATS 803A & Others BCB Improvement** (1) Ralph Sanserino. Complete description of the addition of an external ferrite bar antenna to these receivers. 12/90
- M059 **GE Superadio I & II Plug-In Loop Modification** (2) Ralph Sanserino. Complete description of the addition of an external ferrite bar antenna to the Superadio series. 12/90
- M060 **51J-4 Fast Attack - Slow Release AGC Mod** (2) Dallas Lankford. Details on the modification of a Collins 51J-4 AGC circuit to improve performance. /90
- M061 **The "Bargain Basement"** (1) Leonard Hyde. Autek QF-1 modifications to add a pilot light, straight through, RF pre-amplifier and longwave tuner are detailed with schematics and layout information. 12/91
- M062 **Sony ICF-2010 FET Replacement Instructions** (1) Don Moman. Complete instructions for replacing a static damaged AM RF amp Q303 with a 2SK152 FET.
- M063 **Putting Your DX-440 Back on track** (1) Leonard Hyde. Instructions for aligning the frequency readout accuracy of a DX-440 plus a couple of observations. (1/92)
- M064 **The Bargain Basement - Part 2** (2) Leonard Hyde. A few quick ideas: 12 Vdc operation of Autek QF-1 and DX-440, rotating large loops, shielding loops and using twin lead wire for loop construction. 6/92
- M065 **NRD-525 AGC Mod:** (3) Dallas Lankford. AGC mod for the NRD-525 that will correct distorted audio problems and reduce static crash and noise pulse hanging. 10/92
- M066 **Elimination of Display Noise in the DX-440** (1) Leonard Hyde. Installing a shield inside the radio to eliminate display noise. 11/92
- M067 **A Passive Audio Filter For Use With a Speaker** (2) Al Koppel. A low pass filter (below 3000 Hz) for the NRD-525, or any other speaker system. 12/92
- M068 **Drake R8: Encoder Shaft "Static" Elimination** (1) Dallas Lankford. Correction of the encoder static problem by correct grounding of the encoder. 9/93
- M069 **Drake R8: Increased Dynamic Range** (3) Dallas Lankford. Discussion of 3rd order intermodulation distortion in the R8 and its correction. 9/93
- M070 **NRD-525: Filter Leakage** (4) Dallas Lankford. Discussion and correction of leakage around the INTER filter. 9/93
- M071 **Drake R8: Low Headphone Volume and Broken Feet** (1) Dallas Lankford. Modifying the R8 headphone circuit to handle 8 ohm headphones. Adding strength to the feet to prevent cracking. 9/93
- M072 **R-390A Won't Turn Off (again)** (2) Dallas Lankford. Worn microswitch keeps dial lights on with power otherwise off. Detailed instructions for removing and reworking the switch.
- M073 **HP-48 to Control NRD-535** (1) Tom Napolitano. Description of a series of programs written for HP-48 series hand calculators to control an NRD-535. 1/94

- M074 **Drake R8: Type B Spurs Elimination** (2) Dallas Lankford. Techniques for the negation of hets and noise generated by the AM synchronous detector. 2/94
- M075 **Drake R8: Increased Dynamic Range, Mod 2** (5) Dallas Lankford. Several ideas for increasing the dynamic range and image rejection of the Drake R8. 7/94
- M076 **R-390A Filter Mod 2** (6) Dallas Lankford. Replacement of the R-390A's 16 kHz mechanical filter with a 3 kHz ceramic filter. 1/95
- M077 **Drake R8: More on Improved Image Rejection** (3) Dallas Lankford. Additional suggestions for improved image rejection (see M? 31/33)
- M078 **RA6790GM (R-2174(P)/URR) Noise Blanker** (4) Dallas Lankford. Discussion and schematic for using the Allegro ULN3846A noise blanker IC (the one in a Drake R-8) for other receivers. 3/95
- M079 **Ultralinear 2N5109 and 2N3053 Amplifiers** (10) Dallas Lankford. Utilizing these bi-polar transistors to design amplifiers with extremely low 2nd and 3rd order intermodulation distortion, and thus better strong signal handling. 3/95
- M080 **A home-built double-superhet LW/MW receiver with sync AM-detection** (6 p) Ad Dieleman. Description of a high quality homebrew receiver with block diagrams and design details of each stage of the receiver, particularly of the synchronous AM demodulator. (10/01)
- M081 **CCRadio Tune-UP / Display Fix** (4 p) Gerry Thomas. Detailed description of the RF/IF alignment procedure for this portable radio, as well as a cure for an erratic display. (11/01)
- M082 **Review of Kiwa's 3.7 kHz Filter for the CC Radio** (1p) Harry Helms. Kiwa's switchable IF filter for the CCRadio is evaluated. (11/01)

RECEIVERS

- R001 **Sony TR-1300/Heath GR-78/Panasonic RF-759 AM-FM Portable** (1) Ron Schatz/George Sherman. Three receiver reviews. 12/71 and 7/72
- R003 **Hammarlund HQ-200** (1) Tom Garcia. Review. 9/73
- R004 **National HRO-500** (1) Paul Daplyn. Review. 12/73
- R005 **Drake SPR-4** (2) Robert Fischer. Detailed review. Includes selectivity curves. 11/72
- R006 **Barlow-Wadley XCR-30** (3) Mike Hardester/Charlie Keleher/J.A.Worcester/Grant Manning. Reviews and notes on modification. 7/75
- R008 **National NC-120/Sony CRF-230/Multiband Portables** (1) Bruce Portzer/Grant Manning. Two reviews and some general comments on multiband portables. 3/72
- R009 **Not too Technical Report on some Sony Products/The "ARB" for BCB** (1) Tom Garcia/Grant Manning. Short reviews on Sony-230, TR-1000, IC-200 and TC-110, and notes on using and modifying an "ARB" for use on BCB. 1/71
- R013 **Car Radios for DXing** (2) Tom Garcia/Bill Lipis/Grant Manning. Three short articles about how to use and modify car radios for DXing. 1971
- R015 **Collins R-392** (1) Ralph Sanserino/Phil Bytheway. Review. 10/80 (T2)
- R016 **Drake SSR-1/Autek QF-1** (1) Grant Manning. Reviews. 11/75
- R017 **Yaesu FRG-7** (2) Bruce Portzer. Review. 9/77
- R018 **Collins R-390A/URR** (5) Charles Taylor. Complete and detailed review. 7/79
- R019 **Sony TR-6500 vs Realistic TRF** (2) Gerry Thomas/Charlie Barfield. Hands-on comparison of the DX capabilities of two fairly inexpensive radios. 4/78
- R020 **Panasonic RF-4800** (1) Grant Manning. Review. 4/78
- R021 **GE Superadio** (2) Gerry Thomas/Charlie Barfield/Ed Satterthwaite/Albert Lobel. Reviews. 10/80 thru 1/82 (T2)
- R022 **Panasonic RF-2200/RF-2600/RF-2900** (1) Bruce Portzer. Short reviews. 10/80 (T2)
- R023 **Realistic DX-150/160/Kenwood R-300/Layfayette BCR-101/Sony ICF-6700W** (1) Pete Taylor. Four short reviews. 10/80
- R024 **Yaesu FRG-7000/Kenwood R-1000** (1). FRG-7000 is short, R-1000 is longer. 10/80
- R025 **Modified FRG-7/FRG-7000 and FRG-7700/McKay Dymek DR-33C** (1). Reviews. 2/83 (T2)
- R026 **Hammarlund HQ-180/SP-600** (1) Bruce Portzer/Phil Bytheway. Reviews. 10/80 (T2)
- R027 **Radio West Modified SPR-4** (1) Randy Tomer. Discusses the improvement in SPR-4 performance due to Radio West's

- selectivity and AGC time constant modifications. See M4 for technical details of the modifications. 12/80 (T2)
- R028 **Sony ICF-S5W** (7) Gerry Thomas/Armand DiFilippo/Mark Connelly/Bruce Portzer. Several detailed reviews and comparisons with Realistic TRFs and GE Superadios. 3/81
- R029 **TRF Model 12-656** (1) Gerry Thomas. Side-by-side comparison of the Realistic TRF models 12-655 and 12-656. 1/81
- R030 **Sony ICF-2001** (2) Pete Taylor/Don Moman. Reviews. 3/81 and 10/81
- R031 **Drake R-7** (3) Don Moman/Chuck Hutton/Craig Healy. Reviews. 3/81 and 1/83
- R032 **A Comparison of Tube and Transistorized Receivers** (1) Bruce Portzer. Discusses the differences between tube radios and the newer solid-state sets. 10/80 (T2)
- R033 **Subjective Evaluation of FRG-7 vs FRG-7** (1) Louis Goldstein. A look at how the FRG-7 evolved over the years. 5/81
- R034 **The Realistic 12-173B/Grundig Autosuper Weltkland 3010A/Sony ICF-D11W/Realistic "Timekub" (1) Randy Tomer/Paul Swearingen. Reviews. 1/82 and 3/82**
- R035 **Comparing the DX-160 and the GE Superadio** (1) Karl Zuk. Compares a modified DX-160 (antenna and transfilter mods) to a stock Superadio. 3/82
- R036 **The Panasonic RF-3100** (1) Don Moman. Review. 7/82 (T2)
- R037 **The Yaesu FRG-7700** (1) Don Moman. Review. 7/82 (T2)
- R038 **Kenwood R-600** (1) Tim O'Hare/Bruce Portzer/Randy Tomer. Reviews. 9/82 and 11/82
- R039 **Realistic 12-650/Radio Shack Patrolman SW 60** (1) Nick Hall-Patch/Peter V. Taylor. Reviews. 9/82 and 2/84 (T2)
- R040 **Potomac Instruments SMR-11/Kenwood TS-430 Transceiver** (1) Karl Zuk/Don Moman. Review of a hi-fidelity BCB receiver with features that might interest a DXer and a review of a Ham transceiver with a general coverage receiver. 10/82 and 1/84
- R041 **Panasonic RF-6300/RF-081** (1) Don Moman/Randy Tomer. Reviews. 11/82 (T2)
- R042 **Japan Radio NRD-515 vs Drake R-7 - MW Performance and Modifications** (1) Don Moman. Compares two receivers and discusses several modifications. 12/82 (T2)
- R043 **Sony ICF-6500W - The Perfect Portable** (2) Gerry Thomas. Review. 2/83 (T2)
- R044 **ICOM R-70** (1) Don Moman. Review. 2/83 (T2)
- R045 **Kenwood R-2000** (1) Don Moman. Review. 2/83
- R046 **GE Superadio - Cassette #3-5280B** (1) Michael A. Sapp. Review. 4/83
- R047 **Sony ICF-2002 (7600D)** (1) Dennis Kibbe. Review and first impressions. 12/83
- R048 **Receiver Review, Sony SRF-A100** (2) Greg Monti. Review of this AM stereo receiver. 4/84
- R049 **The Four AM Stereo Systems and the Sony SRF-A100 Receiver** (2) Karl Zuk. The A100 is discussed along with the characteristics of different AM Stereo systems. 5/84
- R050 **Review of the Sansui CX-990 Stereo AM-FM Car Radio** (1) Steve Mittman. Review. 10/84
- R051 **Uniden CR-2021 vs the Sony ICF-6500W** (2) Gerry Thomas. Review of the CR-2021 and comparison with the ICF-7600W. 11/84
- R052 **ICOM R-71A** (2) Don Moman. Review. 11/84
- R053 **Two Easy-to-Build AM Radio Kits** (2) Karl Zuk. Reviews of the Radio Shack 28-4029 and Heathkit GR-1009 AM radio kits. 3/86
- R054 **Kenwood R-5000** (3) Don Moman/Nick Hall-Patch. Review. 2/87
- R055 **Delco ETR AM-FM Stereo Radio/GE Superadio II** (1) Karl Zuk/Doug Pifer. Reviews. 8/86
- R056 **A Comparison of Five Receivers** (1) Glen Kippel. Compares the SP-600, HQ-180, R-388, RAX-1 and GE Superadio. 12/86
- R057 **Sony 2010** (2) Don Moman. Review.
- R058 **ICF-7600D Review** (1) Phil Bytheway. Review. 2/88
- R059 **The NRD-525 Versus the R-5000** (4) Dave Newkirk. In depth discussion of both receivers and a very detailed comparison. 3/88
- R060 **5 Tube AM Superhet Radio Kit** (1) Gary Heisey. Discussion of a 1950's style AM tube radio construction kit. Also includes some tips on performance improvement. 4/88
- R061 **Sony SRF-M40W** (2) Rich Toebe. Review of this digital walkman. 9/88
- R062 **Three New Receivers** (2) Bruce Portzer. Reviews of the GE 7-1900C, Kenwood RZ-1 and Sony SW1S small general coverage receivers. 12/88
- R063 **The RACAL RA-17** (2) Bruce Portzer. Review. 1/89
- R064 **The Drake R8** (3) Richard Eckman/Dallas Lankford. Specifications, two reviews and a comparison to the R-390A. 6/91

- R065 **Realistic DX-440 vs Sony ICF-2010 (A Medium-Wave DX Evaluation)** (2) Mark Connelly. Sensitivity, selectivity, dynamic range, features, price and value are discussed. 1/92
- R066 **True Confessions of a "Bargain Basement" DXer** (2) Leonard Hyde. Leonard describes his experiences with using car radios for AM DX. 1/92
- R067 **Drake R8: A Second and Third Look** (8) Dallas Lankford. Additional details about R8 performance not covered in R64. 10/92, 12/92
- R68 **ICOM R-72** (2) Don Moman. Review. 11/92
- R69 **Realistic DX-390 - A "Quickie" Evaluation** (1) Leonard Hyde. Review. 11/92
- R070 **The ICOM R-9000** (2) Don Moman. Review. 12/92
- R071 **The Superadio III** (2) Gerry Thomas. Review. 1/93
- R072 **Use of Auto Radios for DXing** (1) Leonard Hyde. Brief history of car radios and the author's favorite sets for DXing. 1/93
- R073 **NRD-525: A Technical Review** (5) Dallas Lankford. Very detailed technically oriented review. 2/93
- R074 **The Collins R392/URR: Another Look** (1) Leonard Hyde. Review. 2/93
- R075 **The Chrysler Digital Auto Radio for DXing** (1) Leonard Hyde. Low noise car radio and its use is described. 12/93
- R076 **Receiver Showdown - A Comparison of Five Top RXs from a MW DXer's Perspective** (3) Gerry Thomas. Head to head comparison of the ICOM R-9000, ICOM R-71A, JRC NRD-535D, Drake R-8 and Collins R-390A receivers. Sensitivity, selectivity, dynamic range, ergonomics, audio quality and ECSS are covered. 12/93
- R077 **The Lowe HF-225 Receiver** (1) Don Moman. Review. 2/94
- R078 **RA6790/GM: A Brief Review** (6) Dallas Lankford. Review. 7/94
- R079 **Sony SRF-42 AM Stereo Walkman** (1) Frank Aden. Review of this portable AM Stereo radio. 9/94
- R080 **Some Thoughts on the Yaesu FRG-100** (2) Randy Stewart/Don Moman. Detailed reviews. 9/94
- R081 **The Zenith Trans-Oceanic: The Royalty of Radios** (1) Nick Hall-Patch. Review of the book by John H Bryant and Harold N Cones which covers the complete history of the Zenith Trans-Oceanic radio series. 6/95
- R083 **A Custom MW DX Receiver** (5) Ray Moore. Description of Ray's "ultimate receiver" design and its use. Includes a block diagram. 5/96
- R084 **AOR AR7030** A top notch review by Guy Atkins (2.0p)
- R085 **Battle of the "Super" Radios** (6 p) Gerry Thomas. A detailed evaluation of the GE Superradios I, II and III, as well as the Radio Shack Optimus 12-603 (9/98))
- R086 **The SONY ICF-SW7600G, ICF-SW1000T, and ICF2010 as Medium Wave Receivers** (4 p) Nick Hall-Patch. Comparison of these three SONY portables, all of which offer AM synchronous detection. (6/97)
- R087 **The JRC NRD-535D as a Medium Wave Receiver** 4 p) Nick Hall-Patch. Compares various parameters of this radio with a homebrew receiver, as well as with a SONY ICF-2010. (6/97)
- R088 **An Informal Review of the Harris 590 Solid State Receiver** (5 p) John Bryant. A comparison of this surplus receiver with a JRC NRD-525 and a Watkins-Johnson WJ-1000. (7/98)
- R089 **CCRadio Reviews** (7 p) Steve Hawkins, Gerry Thomas, Kevin Redding. Three reviews of the AM DX portable from C. Crane. Thomas' review compares it with the GE Superradios II and III, as well as with more expensive portables. (11/99; 05/01)
- R090 **The Palstar General Coverage Receiver** (4 p) Gerry Thomas. Detailed review of the R30 receiver, comparing it with the Drake R8 and JRC NRD-535D. (6/00)
- R091 **The Grundig Yacht Boy YB 400PE as a Medium Wave Receiver** (3 p) Nick Hall-Patch. An evaluation of this portable side by side with a SONY ICF-2010. (3/01)
- R092 **Radio Shack's Current DX Portables: Performance from a BCB DX Perspective** (5 p). Gerry Thomas. The Radio Shack DX-398, DX-402 and DX-396 are compared with the CCRadio, ICF-2010 and ICF-7600G. (11/01)
- R093 **Best DX Radios** (2 p) Gerry Thomas. A collection of mini-reviews of thirteen desktop and twelve portable radios from a medium wave DXer's standpoint, along with relative ranking of DX capability. (12/01)
- R094 **The Ten-Tec RX-320 as a MW receiver** (2 p) Nick Hall-Patch. A review of this computer- controlled receiver, from a MW DXer's standpoint. (3/02)
- R095 **Impressions of the Drake R-8B** By Rick Kenneally, Wilton, CT (2.0p) (3/02)

R096 **Sagean AT-909** Review By Article and Photos by Rich Toebe (2.0p) (6/02)

R097 **The ICOM IC-R75 receiver for MW DXing** (2 p) Nick Hall-Patch. An overview of opinions about this latest receiver from ICOM, including comparisons with the Drake R8 and AOR AR-7030. (12/03)

TECHNICAL

T002 **A Beginners Guide to the Ionosphere** (4) Father Jack Pejza.

A simple explanation, with drawings and graphs, of how the ionosphere reradiates radio waves. 1/73

T003 **Skyline Blockage** (4) Father Jack Pejza. Discusses several propagation modes and their expected arrival angles. A technique is outlined for computing the effects of local geography on station reception. See T14. 12/72

T004 **Power Distribution in an Amplitude Modulated Signal** (1) Angel Garcia. Method for calculating the distribution of power in a modulated signal. 5/69

T005 **Precision Frequency Measurement** (1) Ron Schatz. Describes a scheme for determining the exact frequency of a station using a Heathkit IB-1101 frequency counter. 4/72

T007 **Yes, SAH** (1) Glenn Hauser. A description of sub-audible heterodynes, how to detect them, and how they can be used for determining frequencies. 12/71

T008 **DX Mathematics** (6) Dave Fischer. Details for using trig tables to calculate Great Circle distance and bearing. A brief description of radio direction finding is included. See T12.

T010 **Spurious Responses and How to Recognize Them** (1) Michael Northam. Talks about how signals mix inside a superheterodyne receiver causing stations to be heard on frequencies different from their carriers. (T2)

T011 **The Use of a Tape Recorder in DXing** (1) Arthur Peterson. Tips for the DXer detailing the purchase, use and maintenance of a tape recorder. (T2)

T012 **Easy DX Calculations** (1) Dave Fischer. A simplified version of some of the calculations found in T8. 5/74

T014 **Comment on FJP Equations for Arrival/Takeoff Angles** (1) Dave Fischer. Corrects an oversight in the computations outlined in T3. 8/74

T016 **Variations in the Ionospheric Gyromagnetic Frequency and Effects on MW Propagation** (1) Gordon Nelson. Explains why there is little variation in the gyromagnetic frequency for a given area. 6/74

T017 **TV Oscillator Harmonic Frequencies** (1) Bruce Portzer. Brief discussion of the causes and cures for TV interference (TVI), and a list of TVI frequencies. 10/80 (T2)

T019 **Directional Antenna Patterns** (1) Jim Korn. A short explanation of techniques used by BCB stations to radiate a directional pattern. See T20. 12/68

T020 **How to Read Directional Patterns** (2) Jim Korn. Conversion from mv/mile to Effective Radiated Power in watts. Includes table and sample antenna pattern. See T19. 12/68

T021 **A Simple Method of Finding the Great Circle Path and Distance** (2) Father Jack Pejza. Description of a quick method using map overlays. Includes map and overlays. 3/75

T022 **Summer Static, a Skywave Proposition** (1) Gene Martin. Discusses thunderstorm generated static and why the background noise level often goes down as dawn approaches. 7/70

T025 **Radio Direction Finding** (1) Dave Fischer. Technique for pinpointing the location of a station using bearing information from DXers. 10/71

T026 **Relation Between Geomagnetic Measurements and MW DX Conditions** (2) Grey Scrimgeour. Talks about a potential correlation between Afr readings and BCB DX conditions. 1/68

T027 **Precision Frequency Analysis for the Medium Wave DXer** (2) Ron Schatz. Describes a technique for station identification by measuring exact frequencies. 11/75

T028 **WWV and You** (2) Bruce Portzer. Complete information on the services of WWV, with three charts and time table. 4/76 (NMP)

T029 **Inferential Frequency Measurement by Hetrodyne Analysis** (1) Glenn Hauser. An easy method to estimate station frequency by analyzing co-channel heterodynes. 11/75

T031 **Precision Frequency Measurement in the Mediumwave and the Shortwave Broadcast Bands** (8) Charles Taylor. Complete rundown on PFM and how it is accomplished. 2/76

T032 **Auroral/Geomagnetic Activity and its Effect on MW Reception** (1) Gordon Nelson. Concise set of guidelines examining the effects of geomagnetic activity on BCB reception. 8/76

- T033 **Silencing QRN from a Fish-Tank Heater** (1) Nick Hall-Patch. Describes a method for reducing line noise buzzes with a capacitor. 8/77
- T036 **Some Thoughts on TP Reception on the East Coast due to the New 9 khz Waveplan** (2) Bob Foxworth. Comments on the possibility of East Coast reception of some of the more easily heard TPs. 1/78
- T040 **Some Non-Technical Thoughts About Long Distance Radio Reception in the Medium Waves** (4) Gene Martin. A hypothesis is put forth that may explain some effects noted by DXers trying for long distance stations. 2/78
- T041 **Unusual Antenna Systems** (2) Cary Simpson. Unusual antenna locations and layouts used by BCB stations are discussed. 2/78
- T042 **Long Distance Receiving Measurements of Broadcast Waves Across the Pacific** (2). Field intensity measurements of KNX-1050, Los Angeles, CA made in Japan over the course of a year. 12/31
- T043 **Radio Propagation at Frequencies in the Standard Broadcast Band** (2) Philip Sullivan. Basic discussion covering radio wave propagation. (NMP)
- T044 **Palomar Engineers VLF Converter** (1) Grant Manning. Review of a converter that translates 0-500 khz to 3.5-4.0 Mhz. 11/77
- T045 **Nighttime Medium Wave Propagation by Ionospheric Refraction** (4) Randy Seaver. Article detailing radio wave propagation theory and ionospheric conditions. 9/78
- T046 **On Reflection and Refraction** (2) Randy Seaver. Do radio waves reflect or refract from the ionosphere? Both philosophies are discussed and conclusions are drawn. 1/79
- T047 **A Method of Finding the Distance Between Two Places on Earth** (2) Father Jack Pejza. With these two charts, distance can be determined to within 50 miles. 2/79
- T048 **Terrain Charts for Propagation Predictions** (1) Mark Connelly. Discusses how variations in the conductivity of local terrain can effect reception in certain directions. Includes chart for Billerica, MA. 8/80
- T049 **What to Look for when Buying a Receiver** (2) Nick Hall-Patch. Talks about points to be considered before selecting a receiver. Sensitivity, selectivity, strong signal handling, readout, etc. are covered. 10/80 (T2)
- T050 **Strong Signal Handling** (2) Chuck Hutton. Discussion about strong signal handling in a receiver, and what can be done to improve it. 10/80 (T2)
- T051 **Audio Filters** (4) Bruce Portzer/Sheldon Remington/Nick Hall-Patch. Includes introduction, reviews of Autek QF-1, MFJ SBF-2BX, SL-55, MFJ-752, Mizuho AP-M1, Laboelectron SF-0330, Datong FL-2 and Hildreth Engineering "CommAudio Processor" filters, and some schematics for "build-your-own" audio filters. 2/83 (T2)
- T052 **Gilfer GAR-7, KRS DD-2, KRS DD-1-4D** (1) Gerry Thomas/Nick Hall-Patch. Reviews of these commercial digital readouts for radios with Wadley Loops and 455 khz IF. 2/83 (T2)
- T053 **More Great Circle Calculations** (1) Richard Corry. Simple equations and a Basic program for a HP-25. 11/80
- T054 **Seasonal Variation in Medium Wave Reception** (2) Bruce Portzer. Author has organized information from several IRCA Foreign Logs and graphed the number of loggings vs. month of the year for TP, TA, LA and DU originating signal paths. 1/81
- T055 **Diurnal Field Strength Calculations** (1) FCC. FCC method for calculating interference during sunrise and sunset skip. 2 charts and outline for use. 10/82
- T056 **Great Circle DX Program** (3) Mark Connelly. HP BASIC program to calculate Great Circle bearing and distance. The location of many US and world cities is included. 3/83
- T057 **Medium Wave Oblique Propagation - Another View** (4) Randy Seaver. Presentation of the author's theory on propagation, and comparison to other theories. See T58. 6/84
- T058 **On Theories, Extraordinary Waves and Elevation Angles in Medium Wave Propagation** (3) Randy Seaver. Further discussion of the basis of the theory outlined in T57. 11/84
- T059 **Noise and Signal Levels on the BCB** (5) Marc Bergman. Actual measurements of radio signals and noise levels in southern California, and comparisons with published performance of several receivers. 10/85
- T060 **Ceramic Filters** (5) Marc Bergman. Discusses the performance of several commercially available filters. Includes actual lab measurements of their performance. 11/85
- T061 **A Survey of Available Medium Wave Field Strength Prediction Methods** (5) Randy Seaver. Describes several methods of calculating signal strength of medium wave skywave

- signals, and compares the results with actual measured values. 12/85
- T062 **Sea Gain** (5) Randy Seaver. Explains why transoceanic signals are heard exceptionally well near the coast. 1/87
- T063 **Medium Wave - A Practical Approach** (11) Graham Maynard. Describes the author's receiving setup, including antenna and grounding system, receiver modification and equipment interconnections (originally from Medium Wave News).
- T064 **Relationships Between Solar Activity, the Earth's Magnetic Field, and Medium Wave DXing** (8) Randy Seaver. Discusses the factors affecting medium wave propagation and presents a statistical analysis of solar and ionospheric data from 1956 to 1986. 11/87
- T065 **Computer-aided Tuner Design** (4) Mark Connelly. Describes a computer program for designing antenna tuners. 2/85
- T066 **Q Demystified** (4) Mark Connelly. Explains what "Q" is and presents a computer program for simulating tuned circuits. 2/85
- T067 **Suppliers of Radio Tubes** (1) Nick Hall-Patch. List of mail order sources of tubes for older radios. 3/85
- T068 **Surplus Mechanical Filters** (2) Marc Bergman. Describes the performance of several commercially available mechanical filters for IF stages in receivers. 3/85
- T074 **Atmospheric Effects on Medium Wave Radio Reception** (1) Leonard Hyde. Brief discussion of four atmospheric conditions which seem to affect medium wave reception. 12/93
- T076 **The Timewave DSP-59 Audio Filter** (5) Nick Hall-Patch. Review of this digital audio filter and comparison with standard analog audio filters. 9/94
- T077 **Radio Shack Digital Signal Processor** (1) Don Moman. Review of the DSP-40. 11/94
- T078 **Digital Receivers Bring DSP to Radio Frequencies** (2) Roger H Hosking. Description and comparison of traditional Analog receivers and a receiver using Digital Signal Processing. 12/95
- T079 **A Precision Frequency Measurement System** (4 p) Albert Lehr. A description, with block diagram, of an Allied A-2515 receiver modified to enable the DXer to measure the frequency of a received signal with a precision of down to 0.001 Hertz.
- T080 **Signal Strength Recording as an Aid to Propagation Studies** (8 p) Nick Hall-Patch. Using a computer controlled receiver to automatically monitor and record signal strengths allowed the author to hypothesize about the causes of sunrise enhancement of trans-Pacific radio stations. (10/99)
- T081 **MW Carrier Monitoring** (2 p) Mark Hattam. Describes the use of the free Spectrum Lab audio analysis software to differentiate between different radio station carriers on a given frequency. By recording those carriers over time, possible reception of stations is indicated that otherwise could not be identified by audio monitoring. (10/02)
- T082 **dxRadar: using a PC for TA DX** (3 p) Christoph Mayer. The author created a Linux computer program to control his AR7030, scan TA channels for DX while tuning a loop antenna, record evidence of a number of signals on the same channel with 1 Hertz resolution, and record the audio from the strongest TA automatically. (11/02)
- T083 **Emerging Techniques of High-Tech Dxpeditiioning** (12 p) Guy Atkins, John H. Bryant, Nick Hall-Patch, Don Nelson. Describes the use of the portable computer to not only provide software aids to DXing such as sunrise/sunset, station databases and logging programs, but also to control receivers, record the audio from them, and indicate propagation openings via automatically tuned receivers. (01/03)
- T084 **Using the ICOM IC-PCR1000** PC controlled receiver for medium wave reception (3p) Nick Hall-Patch. A medium-wave DXer's review of ICOM's entry in the "black box" computer controlled receiver stakes. (04/03)
- T085 **Using a PC sound card for SSB/CW/AM demodulation** (1 p) Nick Hall-Patch and Vittorio De Tomasi. Describes how to tap the IF signal from a receiver, convert it to audio range, and demodulate it using a PC sound card and "IFDSP" freeware. (04/03)
- T086 **Phase Noise in Communications Receivers** (1 p) Steve Ratzlaff. A description of receiver phase noise, why it is a problem, how it can be measured, and some examples of measurements made by the author.
- T087 **Using a PC and a Communications Receiver for Advanced Dxing** (3 p) Nick Hall-Patch. Describes the use of the Dymek DR-333 "black box" communications receiver as a propagation monitor, using the author's software to record ongoing signal strengths of selected overseas stations. (OLD G-63)

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