

Announcing:

The 39th Annual CQ World-Wide WPX Contest

SSB: March 30–31, 1996

CW: May 25–26, 1996

I. Contest Period: Only 36 hours of the 48 hour contest period permitted for Single Operator stations. **Off periods must be a minimum of 60 minutes in length and clearly marked in the log.** Multi-Operator stations may operate the full 48 hours.

II. Objective: Object of the contest is for amateurs around the world to contact as many amateurs in other parts of the world as possible during the contest period.

III. Bands: The 1.8, 3.5, 7, 14, 21, and 28 MHz bands may be used. No WARC bands.

IV. Types of Competition:

1. Single Operator (Single band and All band)

(a) Single operator stations are those at which one person performs all of the operating, logging, and spotting functions. **Only one transmitted signal is allowed at any time.**

(b) **Low Power:** Same as 1 (a) except that **output power shall not exceed 100 watts.** Stations in this category will compete with other low power stations only.

(c) **QRP/p:** Same as 1(a) except that **output power shall not exceed 5 watts.** Stations in this category will compete with other QRP/p stations only.

(d) **Assisted:** Same as 1(a) except the **passive use (no self-spotting) of DX spotting nets or other forms of DX alerting is permitted.** Stations in this category will compete with other Assisted stations only.

2. Multi Operator (All band operation only)

(a) **Single-Transmitter:** Only one transmitter and one band permitted during the same time period (defined as 10 minutes).

(b) **Multi-Transmitter:** No limit to transmitters, but only one signal and running station allowed per band. *Note:* All transmitters and receivers must be located within a 500 meter diameter area or within property limits of the station licensee, whichever is greater. **All operation must take place from the same operating site.** All antennas must be physically connected by wires to the transmitters and receivers.

V. Exchange: RS(T) report plus a progressive contact three-digit contact number starting with 001 for the first contact. (Continue to four digits if past 999.) Multi-transmitter stations use separate serial numbers for each band.

VI. Points:

(a) Contacts between stations on different continents are worth three (3) points on 28, 21, and 14 MHz and six (6) points on 7, 3.5, and 1.8 MHz.

(b) Contacts between stations on the same continent, but different countries, are worth one (1) point on 28, 21, and 14 MHz and two (2) points on 7, 3.5, and 1.8 MHz. **Exception: For North American stations only—contacts between stations within the North American boundaries are worth two (2) points on 28, 21, and 14 MHz and four (4) points on 7, 3.5, and 1.8 MHz.**

(c) Contacts between stations in the same country are permitted for multiplier credit but are worth zero (0) points.

VII. Multiplier: The multiplier is the number of "valid" prefixes worked. A PREFIX is counted only once regardless of the number of times the same prefix is worked.

(a) A PREFIX is the letter/numeral combination which form the first part of the amateur call (examples: N8, W8, WD8, HG1, HG19, KC2, OE2, OE25, etc.). Any difference in the numbering, lettering, or order of same shall constitute a separate prefix. A station operating from a DXCC country different from that indicated by its callsign is required to sign portable. The portable prefix must be an authorized prefix of the country/call area of operation. In cases of portable operation, the portable designator will then become the prefix. Example: N8BJQ operating from Wake Island would sign N8BJQ/KH9 or N8BJQ/NH9. KH6XXX operating from Ohio must use an authorized prefix for the US 8th district (W8, K8, etc.). Portable designators without numbers will be assigned a zero (0) after the second letter of the portable designator to form the prefix. Example: N8BJQ/PA would become PA0. All calls without numbers will be assigned a zero (0) after the first two letters to form the prefix. Example: XEFTJW would count as XE0. Maritime mobile, mobile, /A, /E, /J, /P or interim license class identifiers do not count as prefixes.

(b) Special event, commemorative, and other unique prefix stations are encouraged to participate.

VII. Scoring:

1. Single Operator: (a) All Band score = total QSO points from all bands multiplied by the

number of different prefixes worked (prefixes are counted only once). (b) Single band score = total QSO points on the band multiplied by the number of different prefixes worked.

2. Multi-Operator: Scoring is the same as Single Operator, All Band.

3. A station may be worked once on each band for QSO point credit. **Prefix credit can be taken only once.**

IX. QRP/p Section: Single Operator only. Output power must not exceed 5 watts. **You must denote QRP/p on the summary sheet and state the actual maximum output power used for all claimed contacts.** Results will be listed in a separate QRP/p section and certificates will be awarded to each top-scoring QRP/p station in the order indicated in Section XI.

X. Low Power Section: Single Operator only. Output power must not exceed 100 watts. **You must indicate low power on the summary sheet and state the actual maximum output power used for all claimed contacts.** Results will be listed in a separate low power section and certificates will be awarded to each top-scoring low power station in the order indicated in Section XI.

XI Awards: Certificates will be awarded to the highest scoring station in each category listed under Section IV—

1. In every participating country;
2. In each call area of the United States, Canada, Australia and Asiatic Russia.

All scores will be published. To be eligible for an award, a single operator station must show a minimum of 12 hours of operation and multi-operator stations must show a minimum of 24 hours of operation.

A single band log will be eligible for a single band award only. If a log contains more than one band, it will be judged as an all-band entry unless specified otherwise.

In countries or sections where entries justify, second- and third-place awards will be made.

XII. Trophies, Plaques, and Donors: SSB

Single Operator, All Band

WORLD—Stanley Cohen, WD8QDQ

USA—Atilano de Oms, PY5EG

EUROPE—Jim Hoffman, N5FA

SOUTH AMERICA—Ron Moorefield, W8ILC

OCEANIA—Phillip Fraizer, K6ZM Memorial
 AFRICA—Peter Sprengel, PY5CC
 *JAPAN—The DX Family Foundation
 CANADA Low Power—Amateur Radio League
 of Alberta
 WORLD QRP/p—Dayton Amateur Radio Assn.
 USA QRP/p—Doug Zwiebel, KR2Q

Single Operator, Single Band

WORLD—John N. Reichert, N4RV
 WORLD Low Power—Verne Fowler, W8BLA
 WORLD 7 MHz—William D. Johnson, KV0Q
 OCEANIA—D. Craig Boyer, AH9B
 USA 28 MHz Novice/Tech—Jon Engelhardt,
 KA0ZFX

USA 21 MHz—Bernie Welch, W8IMZ Memorial
 USA 3.7 MHz—Lance Johnson Digital Graphics

Multi-Operator, Single Transmitter

USA—Oklahoma Comm Center

Multi-Operator, Multi-Transmitter

NORTH AMERICA—Burt Curwen, KL7IRT
 Memorial
 USA—Glenn Tracey, KC3EK

Contest Expedition

WORLD—Kansas City DX Club

CW

Single Operator, All Band

WORLD—Steve Bolia, N8BJQ
 USA—Steve Bolia, N8BJQ
 EUROPE—Ivo Bezer, 5B4ADA
 OCEANIA—Tom Morton, KT6V
 CANADA—Radio Amateurs of Canada (RAC)
 *JAPAN—The DX Family Foundation
 CANADA Low Power—Amateur Radio League
 of Alberta
 USA QRP/p—Richard Arland, K7YHA

Single Operator, Single Band

WORLD—Pedro Piza Sr, KP4ES Memorial
 WORLD 7 MHz—William D. Johnson, KV0Q
 WORLD 3.5 MHz—Lance Johnson Digital
 Graphics
 OCEANIA—D. Craig Boyer, AH9B
 USA—Kansas City DX Club
 USA 28 MHz—Bernie Welch, W8IMZ Memorial
 USA 21 MHz—Wayne Carroll, W4MPY

Multi-Operator, Single Transmitter

WORLD—Ron Blake, N4KE
 USA—Austin Regal, N4WW

Contest Expedition

WORLD—Ed Roller, K4IA

Combined SSB/CW

Single Operator, All Band

WORLD—Al Slater, G3FXB Memorial
 EUROPE—Les Nouvelles DX Group
 USA—Oklahoma Comm Center

Club (SSB & CW)

WORLD—CQ Magazine
 USA—Oklahoma DX Association

*Donor is responsible for this trophy.

A station winning a World trophy will not be considered for a sub-area award. That trophy will be awarded to the runner-up for that area if the returns justify the award.

XIII. Club Competition: A trophy will be awarded each year to the club or group that has the highest aggregate scores from logs submitted by members. The club must be a local group and not a national organization. Participation is limited to members operating within a local geographical area (**Exception: DXpeditions especially organized for operation in the contest and manned by members.**) Indicate your club affiliation on the summary sheet. To be eligible for an award, a minimum of three logs must be received from a club.

XIV. Log Instructions:

(a) All times must be in GMT. All breaks must be clearly marked. Single operator and multi-single logs must be submitted in chronological order. Multi-multi logs must be submitted chronologically by band.

(b) All sent and received exchanges are to be logged.

(c) Prefix multipliers should be entered only the FIRST TIME they are worked.

(d) Logs must be checked for duplicate contacts, correct QSO points, and prefix multipliers. Duplicate contacts must be clearly shown. Computerized logs must be checked for typing accuracy. Original logs may be requested if further cross-checking is required.

(e) **An alpha/numeric check list of claimed**

PREFIX multipliers must be submitted with your log.

(f) Each entry must be accompanied by a Summary Sheet listing all scoring information, the category of competition, and the entrant's name and mailing address in BLOCK LETTERS. Also submit a signed declaration that all contest rules and regulations for amateur radio in the country of operation have been observed.

(g) Official log and summary sheets are available from CQ for an SASE with sufficient postage. If official forms are not available, you may make your own.

(h) Disk submission of logs is encouraged. CT's *.BIN file or *.ALL file, N6TR's *.DAT file, NA's *.QDF file, or *.DBF files are preferred. An ASCII file containing all required information is also acceptable. Disk files must be in chronological order for single operator and multi-single stations and chronological by band for multi-multi stations. Label your disks and name your files with the call used (for example: N8BJQ.BIN or N8BJQ.DAT). Disks will be **required** from top-scoring stations if requested.

(i) Logs may be submitted via E-mail to:

SDB@AG9V.AMPR.ORG or
 N8BJQ@ERINET.COM

Binary files may be sent, providing they are in MIME or UUENCODE format. Internet submissions will also require a summary sheet and prefix multiplier sheet. Logs received via E-mail will be confirmed via E-mail upon receipt.

XV. Disqualification: Violation of amateur radio regulations in the country of the contestant, or the rules of the contest, unsportsmanlike conduct, taking credit for excessive duplicate contacts, unverifiable QSOs or multipliers will be deemed sufficient cause for disqualification. An entrant whose log is deemed by the WPX Contest Committee to contain a large number of discrepancies may be disqualified as a participant operator or station for a period of one year. If within a five-year period the operator is disqualified a second time, he will be ineligible for any CQ contest awards for three years.

The use of non-amateur means such as telephones, telegrams, etc., to elicit contacts or multipliers **during** a contest is unsportsmanlike and the entry is subject to disqualification. Actions and decisions of the WPX Contest Committee are official and final.

XIII. Deadline:

(a) All entries must be postmarked NO LATER than May 10, 1996 for the SSB section and July 10, 1996 for the CW section. E-mail logs are also subject to these deadlines. **Indicate SSB or CW on your envelope.** One extension of up to 30 days, for legitimate reasons, may be granted if requested from the contest director. Logs postmarked after the deadline, or extension deadline, if granted, may be listed in the results, but will be ineligible for any awards.

All logs go to: CQ Magazine, WPX Contest, 76 N. Broadway, Hicksville, NY 11801 USA. Questions pertaining to the WPX Contest can be sent to WPX Contest Director, Steve Bolia, N8BJQ, 4121 Gardenvue Dr., Beavercreek, OH 45431 USA, or via e-mail to the following: N8BJQ@ERINET.COM.

Please remember to send in to CQ magazine early for WPX Contest log and summary sheets.

ANTENNA OPTIMIZERS

AO 6.5 automatically optimizes antenna designs for best gain, pattern, impedance, SWR, and resonance. AO optimizes any arrangement of wire or tubing. AO uses an enhanced, corrected MININEC for improved accuracy and assembly language for high speed. AO features 3-D radiation patterns, 3-D geometry and wire-current displays, 2-D polar and rectangular plots with overlays, automatic wire segmentation, automatic frequency sweep, skin-effect modeling, symbolic dimensions, symbolic expressions, current sources, polarization analysis, near-field analysis, and pop-up menus.

NEC/Wires 2.0 accurately models true earth losses, surface waves, and huge arrays with the Numerical Electromagnetics Code. Model elevated radials, Beverages, wire beams, giant quads, delta loops, LPDAs, local noise, or entire antenna farms.

YO 6.5 automatically optimizes monoband Yagi designs for maximum forward gain, best pattern, minimum SWR, and adequate impedance. YO models stacked Yagis, dual driven elements, tapered elements, mounting brackets, matching networks, skin effect, ground reflection, and construction tolerances. YO optimizes Yagis with up to 50 elements from HF to microwave. YO uses assembly language and runs hundreds of times faster than NEC or MININEC. YO is calibrated to NEC for high accuracy and has been extensively validated against real antennas.

NEC/Yagis 2.5 provides reference-accuracy Yagi analysis and easy modeling of arrays of Yagis. Use NEC/Yagis to model large EME arrays.

TA 1.0 plots elevation patterns for HF antennas over irregular terrain. TA accounts for hills, valleys, slopes, diffraction, shadowing, focussing, compound ground reflection, and finite ground constants. Use TA to optimize antenna height and siting for your particular QTH.

Any one program, \$60; three, \$120; five, \$200. 386 + 387 and VGA required. Visa, MasterCard, Discover, check, cash, or MO. Add \$5 overseas.

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