

Results of the 1999 CQ WW WPX SSB Contest

BY STEVE BOLIA,* N8BJQ

The last CQ WW WPX SSB Contest of the 20th century also proved to be one of the most exciting. Nearly around-the-clock openings on 15 and 20 meters and excellent 10 meter openings kept both the "big gun" and casual operators hopping. Scores went up and records fell. Four world records were broken, along with five USA and 19 continental records. In addition, almost everyone had fun! The good conditions contributed to the fun, but also skilled, courteous operators played a big part in making the weekend enjoyable for all. Congratulations to the all of the winners.

DX

HC8A was king of the single ops. Rich missed breaking his 1992 record by less than 200K. Second place went to W2GD at P40W. This was John's first SSB attempt from Aruba, and he had this to say: "Congrats to HC8A/N6KT. He is the very best." John's 17.6 meg effort was not too shabby either. Carlos, T11C (T12CF), wasn't far behind John, taking third place. Carlos did break the North American record. Fourth was P40N (KW8N), with VF3EJ fifth and EA8ZS (EA3NY) sixth. Perennial US champ KQ2M was seventh, with 8P2K (8P6SH) eighth, IH9/OL5Y (OK1FUA) ninth, and KF3P (K3MM) tenth.

A world record and all continental records were broken on 10 meters. ZX5J (PP5JR) nearly doubled the score of last year's winner on his way to the world record. K6NA at ZD88A broke the African record on 10 with his second-place effort. WP2Z (W6XK) was in at number three with a new North American record. H22A, KH6ND, and 9H3XY were responsible for the other continental records. ZD8Z (N6TJ) took the 15 meter title and now owns the African record, followed by EA8AH and P43A. 9A3GW was fourth with a new European record, with AH7DX (KH6TO) less than 60K behind in fifth place. DJ7AA's European record entry topped the 20 meter box, followed by PP5JD and RW4WR. US champ KK9A was fourth, and IV3TAN as IQ3A was fifth. Proving that there is still life in the low bands was 9A9A, who just edged out LZ5W for the top spot and a European record. WH7Z (K9QQ) was third with a new Oceania standard, followed by S53M (S55OO) and ED8WPX (EA8PP). OK2RZ took 80 meter honors, with LX6T (LX1KC) second and KE1Y third. YP2A (YO2LIF) was fourth and DL1ZIH was fifth. VA1A operated by K3BU was the Top band champion and is holder of the world record with his fine 535k effort. Second place plus the African record went to EA8/OH1MA. OM0WR was third, OZ3SK fourth, and US champion AA1BU fifth.

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Here is the multi-multi crew at NK7U. Back row (left to right): NK7U, K9JF, K7NT, W7UA, and KC7OPD. Front row: W7ZAC, K7ZO, and K7MK.



JA8RWU's 5.3M points placed him second in Japan and fourth in Asia.

TROPHY WINNERS

SINGLE OPERATOR, ALL BAND

WORLD: Stanley Cohen, WD8QDQ Trophy. Won by **Station HC8A operated by Rich Smith, N6KT.**

WORLD Low Power: Steve Bolia, N8BJQ Trophy. Won by: **Station VP5E operated by Ken Ruddock, K6HNZ.**

USA: Atilano de Oms, PY5EG Trophy. Won by: **Bob Shohet, KQ2M.**

USA Low Power: Oklahoma DX Association Trophy. Won by: **Gordon Muise, WA1LNP.**

AFRICA: Peter Sprengel, PY5CC Trophy. Won by: **Station EA8ZS operated by Eddie Stark, EA3NY.**

EUROPE: Jim Hoffman, N5FA Trophy. Won by: **Jiri Pesta, OK1RF.**

SOUTH AMERICA: Ron Moorefield, W8ILC Trophy. Won by: **Station P40W operated by John Crovelli, W2GD.**

CANADA Low Power: Amateur Radio League of Alberta Award. Won by **Glenn Wyant, VA3DX.**

OCEANIA: Philip Fraizer, K6ZM Memorial. Won by: **JF2QNM.**

***JAPAN:** The DX Family Foundation Trophy. Won by: **Masaki Okano, JH4UYB.**

WORLD QRP/p: Dayton Amateur Radio Assn. Trophy. Won by: **Doug Zwiebel, KR2Q.**

USA QRP/p: Doug Zwiebel, KR2Q Trophy. Won by: **John Desloge, N6MU.**

SINGLE OPERATOR, SINGLE BAND

WORLD: John N. Reichert, N4RV Trophy. Won by: **Station ZD88A operated by Glenn Rattmann, K6NA (28 MHz).**

WORLD 28 MHz: Alan Dorhoffer, K2EEK Memorial Trophy. Won by: **Station ZX5J operated by Sergio Almeida, PP5JR (28 MHz).**

WORLD 7 MHz: William D. Johnson, KV0Q Trophy. Won by: **Zdravko Balen, 9A9A.**

WORLD 3.7 MHz Low Power: Nilay & Berkin Aydogmus, TA3YJ & TA3J Trophy. Won by: **Station YP2A operated by YO2LIF.**

OCEANIA: D. Craig Boyer, AH9B Trophy. Won by: **Michael Gibson, KH6ND (28 MHz).**

USA 3.7 MHz: Lance Johnson Engineering Trophy. Won by: **Rolf Seichter, KE1Y.**

USA 7 MHz: Lewis Sayre, N7AVK Trophy. Won by: **Claude Oakes, NC4NC.**

USA 14 MHz Low Power: Boomer Contest Club Trophy. Won by: **Station AK4L operated by Christopher Penick, K4PC.**

USA 21 MHz: Bernie Welch, W8IMZ Memorial. Won by: **Chad Kurszewski, WE9V.**

USA 28 MHz Novice/Tech: Jon Engelhardt, KA0ZFX. Won by: **Robert Lutz, W2BZR/3/T.**

MULTI-OPERATOR, SINGLE TRANSMITTER

USA: Oklahoma Comm Center Trophy. Won by: **KM3T operated by KM3T & W4AN.**

MULTI-OPERATOR, MULTI-TRANSMITTER

NORTH AMERICA: Burt Curwen, KL7IRT Memorial (James Dixon, NL7HI, sponsor). Won by: **VF6JY operated by VE5MX, VE6TX, VE6BF, VE6JTM, VE6JY, VE6JO, VE6DVB, VE6SLV, VE7AV.**

USA: Glenn Tracey, KC3EK Trophy. Won by: **Station WT6V operated by N6RO, K4KR, K6RC, K3EST, N6IG, K6AW, AE0M.**

CONTEST EXPEDITION

WORLD: Kansas City DX Club Trophy. Won by: **Station T33RD operated by OK1RI, OK1TN, OK1RD.**

K6HNZ at VP5E was a repeat winner of the low power category. Ken nearly broke 7 million points. Second place went to KH0/JF2QNM, with UP5P (UN5PR) third, PW1S (PY1KS) fourth, and VA3DX fifth. LU5FC moved up from second in '98 to win the LP 10 meter title, with VP2VF second, LR6D(LW5DX) third, TI7/N4MO right behind, and L20F fifth. C17A (VE7SV) topped the 15 meter box, with UA4LCQ second, SU9ZZ third, P43DJ fourth, and LU3FZW fifth. RS0F was the 20 meter champion, with AK4L (K4PC) second and UA3BL third. S54A topped the 40 meter box, with UT1T (UR7TZ) second and HA9MDN/5 third. Bobby, YP2A, set a low power EU record on 80 meters with his 866K effort. 4X1IM was second, followed by J4Z (SV2CWY) and TA3J. OK2SNX was the low power Top band champion, with VY2MGY/3 second and EA1DVB third.

The Tribander/Single Element category was won by LA8W operated by LA4DCA. JH0/JF2QNM was second (and the low power T/S champion), LY2BTA third, RA3AUU fourth, and LU0H (LU3HU) fifth.

This year's Rookie category produced some outstanding scores. PW1S (PY1KS) turned in the top score with over 4.3 meg low power. Second was V73UX with 2.6 meg with Emily, P43E just 7K behind in third.

The top-scoring station in the Band Restricted category was S57IIO, with EF3AGC second and OH1LEG third. More coverage of these categories can be found in the March CQ Contest magazine.

Doug, KR2Q, was the QRP champ and US record holder, just edging out Bob, VE3KZ, for the title. HA2SX was third and LY3BA fourth, with N6MU edging out N0KE for the fifth spot. KT3RR was the 10 meter QRP high scorer, followed by LW3DWX. NA4CW topped the world on 15, WJ8C took 40 meter honors, SP4GFG was the 80 meter champ, and US7MQ was the leader on 160.

TM2V (F6GLH) and NV4X (K4MA) were one and two in the Single Op Assisted category, both with over 6M. OH9W was third, NY6DX fourth, and IN3ZNR fifth. In the single band Assisted categories, JG3KIV turned in the top



Petar, 9A6A, was tops in Croatia and fifth in Europe on 14 MHz.

10 meter score, JI3OPA the top 15 meter score, and TM7XX the top 20 meter score. Z39Z nearly broke a million to win on 40 meters, JK1GKG topped the world on 80, and KN2T was the Top band Assisted champion.

USA

I have a function key in my word processor that types in the first line of the USA results every year. It said KQ2M won again! Bob used K1TTT's excellent station to capture the top spot (and a US record). Second place went to KF3P (K3MM). Tyler reported, "15 meters was just awesome!" N5KO used W6NL's great station to finish third, KE3Q at W3LPL's QTH was fourth, and KM5X(K5TR) at W5KFT was fifth. The top five all broke the 1992 record. Rounding out the top ten were WZ4F (K4AB), NB1B, K3ZO, KV0Q (N0NR), and WB9Z. Ten meters was pretty competitive, with KZ5MM edging out NX5M (N5XJ) for the top spot, followed by W5WMU, K5NZ, and K4JYO. WE9V closed out activity at W9JA's superstation with a 15 meter record. KK0T (N2IC) was second, with K6LL/7 (using a tribander) third, N4PN fourth, and KG0ZI (also with a tribander) fifth. KK9A was the 20 meter winner, followed by NA5B (W5AO) and AK4L (K4PC), K1KJT and AK0A. Low band activity in the States was down quite a bit with the higher bands open so much. NC4NC topped the 40 meter leader box, followed by AE5B. Perennial 80 meter powerhouse KE1Y nearly broke 1 million points to lead in that category, and AA1BU edged out NE5D (K5RX) for Top band honors.

If you look at the low power results, you will see a pretty even race. WA1LNP finished on top by less than 70K. AC0W was second, W2TZ third, WD5K fourth, and K1VUT fifth. W2BZR/3/T edged out W3NO for 10 meter honors, followed by WJ7S. NI9C topped the 15 meter box, with AE1B second and W6BSY third. On 20 meters AK4L operated by K4PC turned in the top low power score (and third overall in the US). AK0A was second, and AE6Y was third.

N6ED moved up from fifth in '98 to take the US T/S title. There was quite a challenge from NX9T, W1CU, and KE9A, all making over 3 million points. WD4AHZ was the 10 meter champ, and K6LL/7 and KG0ZI both turned in great 15 meter scores using just a tribander.

USA TOP SCORES

SINGLE OPERATOR ALL BAND

KQ2M.....	10,855,264
KF3P(K3MM).....	9,516,830
N5KO/6.....	8,741,115
KE3Q.....	8,718,082
KM5X(K5TR).....	7,909,344
WZ4F(K4AB).....	7,189,216
NB1B.....	7,128,912
K3ZO.....	6,637,680
KV0Q(N0NR).....	6,235,218
WB9Z.....	6,196,480
K7RI.....	5,661,361
N3OC.....	4,192,200
KR1G.....	4,166,890
N6ED.....	4,000,752
WC1M.....	3,980,830
K8OQL.....	3,858,184
AB5SE.....	3,725,860
NX9T.....	3,609,089
A17B(W7GG).....	3,340,474
K3JT.....	3,332,951

28 MHz

KZ5MM.....	2,455,008
NX5M(N5XJ).....	2,150,988
W5WMU.....	1,814,067
K5NZ.....	1,724,448
K4JYO.....	1,697,704

21 MHz

WE9V.....	6,067,704
KK0T.....	4,435,201
K6LL/7.....	4,401,600
N4PN.....	3,277,968
KG0ZI.....	2,824,935

14 MHz

KK9A.....	3,518,190
NA5B(W5AO).....	2,377,808
*AK4L(K4PC).....	1,147,461
K1KJT.....	1,029,591
*AK0A.....	901,192

7 MHz

NC4NC.....	296,922
AE5B.....	172,931
KE8GG.....	78,262
N9LCR.....	45,472

3.7 MHz

KE1Y.....	998,760
NP2N/AG0.....	37,680

1.8 MHz

AA1BU.....	114,818
NE5D(K5RX).....	88,740
K0CS.....	10,050

LOW POWER ALL BAND

WA1LNP.....	2,568,445
AC0W.....	2,495,460
W2TZ.....	2,360,340
WD5K.....	2,226,248
K1VUT.....	1,987,143
WS1A.....	1,918,800
WN6K.....	1,282,752
WA4IMC.....	1,222,610
WA1S.....	1,092,896
NT5D.....	993,990

28 MHz

W2BZR/3T.....	655,191
W3NO.....	605,244
WJ7S.....	490,674
K6KAY/T.....	434,634
NU6S.....	400,197

21 MHz

NI9C.....	666,169
AE1B.....	555,000
KU6W.....	500,960
W6BSY.....	489,898
KW2O(K2SG).....	457,166

14 MHz

AK4L(K4PC).....	1,147,461
AK0A.....	901,192
AE6Y.....	348,480
NP4IW/NX6.....	216,920
KU6W(K6RO).....	176,754

TRIBANDER/SINGLE ELEMENT

N6ED.....	A.....	4,000,752
NX9T.....	A.....	3,609,089
W1CU.....	A.....	3,298,752
KE9NA.....	A.....	3,118,299
NA1Q(W1NT).....	A.....	2,705,750
*W2TZ.....	A.....	2,360,340
*WD5K.....	A.....	2,226,248
KA1UQ.....	A.....	2,211,462
N2ED.....	A.....	2,158,572
KY3ORR(KC3TL).....	A.....	2,043,743
*WD4AHZ.....	28.....	206,668
K6LL/7.....	21.....	4,401,600
KG0ZI.....	21.....	2,824,935

BAND RESTRICTED

*K6KAY/T.....	28.....	434,634
*KA9UQT.....	28.....	204,314
*W5CTV.....	28.....	75,112
*KA1RLI/T.....	28.....	66,476
*N0OFR.....	28.....	60,580

ROOKIE

NA1DX.....	A.....	1,166,459
K4BEV.....	A.....	580,263

AA1SU.....	A.....	546,820
KC8HWV.....	A.....	108,108
K6KAY/T.....	28.....	434,634
KC8KSX.....	28.....	32,330
KB9QFO.....	28.....	13,440
KD7DQO.....	28.....	8,436
WA4SEX.....	28.....	3,234

ASSISTED

NV4X(K4MA).....	A.....	6,476,886
NY6DX.....	A.....	3,875,012
N3MKZ.....	A.....	3,421,596
N5JR.....	A.....	3,073,048
NA2NA.....	A.....	2,806,060
W6RKC.....	7.....	40,920
KN2T.....	1.8.....	113,088
AA4MM.....	1.8.....	75,192
W2MF.....	1.8.....	54,264

QRP/p

KR2Q.....	A.....	1,765,404
N6MU.....	A.....	1,070,000
N0KE.....	A.....	1,062,831
KB3TS.....	A.....	711,870
N1TM.....	A.....	331,296
WJ8C/P.....	7.....	13,066
KT3RR.....	28.....	506,258
WA6FGV.....	28.....	93,372
NA4CW.....	21.....	462,579
W6YJ.....	21.....	114,800
W5FO.....	14.....	322,077
WB7OCV.....	14.....	24,990

MULTI-OPERATOR SINGLE TRANSMITTER

KM3T.....	14,383,360
K11G.....	9,410,058
WC4E.....	9,151,008
W6XR.....	8,930,573
NM9H.....	6,024,540
NE6N.....	5,713,038
AA5NT.....	5,112,443
NR6R.....	4,833,030
KR9A.....	4,526,754
N7TT.....	4,186,434

MULTI-OPERATOR MULTI-TRANSMITTER

WT6V.....	21,165,040
KU8E.....	18,428,886
NK7U.....	13,755,216
WO8CC.....	13,252,393
W7RM.....	13,111,144

* Low Power

Check out the March issue of *CQ Contest* for some additional WPX analyses. K3EST has taken the TS, BR, and Rookie categories and added more tables and some comments from operators. In addition, you will find some extra WPX goodies which may be of interest. Look for more bonus WPX coverage in *CQ Contest* in the future.

As many of you know, we at *CQ* lost a good friend when *CQ's* Editor Alan Dorhoffer, K2EEK, passed away last July. Alan was a good friend for nearly 20 years, an avid supporter of contesting, and also an avid prefix chaser. Chuck Coleman, K5LZO, also passed away in 1999. Chuck was a long-time supporter of contesting and the WPX contests and was a joy to talk to on his annual Dayton trips.

There are no major rule changes for the 2000 contest, but there is a rule change that could affect you. The WPX contest will now require a disk or electronic log if you use a computer to score the contest. We don't need to send a paper log if you send us an electronic log. That

will save you the expense of mailing a large paper log. E-mail is the preferred mode. However, a disk (3.5 inch, PC format) will also be gladly accepted. If you send a disk, please send a printed summary sheet showing all scoring information and an address where we may contact you. If you send an e-mail log, please attach a summary sheet also. There are always a few logs that are corrupted, or files don't really get attached, or the wrong contest files are sent. With no summary sheet, it's often difficult, or impossible, to ask for a new log. We will accept the new CABRILLO format (make the extension *.CBR if your program does not do it for you) as well as CT, TRLog, NA, SuperDuper, and most other common programs. Multi-column logs are extremely difficult to process. If in doubt, please ask if we can handle your format. E-mail logs go to <n8bjq@erinet.com> only. All mail logs should be sent to *CQ Magazine* at 25 Newbridge Road, Hicksville, NY 11801 and be plainly marked as *CQ WPX SSB* logs. That will get them put in the right box and sent to the cor-

rect contest director. In Europe you may send your log to the French CQ office or the Spanish CQ office. Ari, OH1EH, collects OH logs.

Speaking of electronic logs, nearly 1200 made it into the database. This represents nearly all of the top logs in every category with a good distribution world wide. While we understand that we will never get 100% electronic log submission, more logs could be submitted that way. More electronic submission accomplishes two things. It puts more logs into the data base, and it speeds up log processing. The first is good for better log checking, and the second may enable the results to get into print sooner. It would be a worthwhile contest club project to collect logs from club members who don't have access to a computer and convert them to computerized logs. It might be a good way to boost club scores and recruit some new members.

As the database gets more sophisticated and more logs get entered, our checking gets better. Overall, the majority of logs submitted are very good. However, for various reasons there are a few who turn in logs that are way at the opposite end of the spectrum. With the software tools that are now available, it is relatively easy to spot these stations. There were a few rather large score reductions and one disqualification resulting from poor logging/operating. These large score reductions cost several stations many positions in the final results. Take a few extra seconds to verify whom you just worked before you hit the enter key. Asking for a fill instead of guessing could save you many points when the checking is done. This is not like a test where guessing is encouraged if you don't know the answer. A good knowledge of callsign structure and what constitutes a valid callsign is a plus.

The use of packet by single operators may be misunderstood by some. If you enter the single operator, non-assisted category, you may not use packet to receive spots or to self-spot yourself. This includes web surfing to clusters in different countries or getting spots from the web clusters. If you must use packet, then by all means enter the Assisted category.

The WPX Contest is a collective effort of many people. Bob, NA2X, and Scott, N9AG, provide much needed log-checking support. Sergio, EA3DU, Ari, OH1EH, and Mark, F6JSZ, are log collection points in Europe and also provide assistance with log problems. N6AA does a tremendous job with the database creation and validation. Dick continues to amaze me with all the different ways he can catch me making mistakes. Also a big thanks to N6TR for the fine software that we use and the support he provides. If you talk to these guys on the air, or at hamfest, thank them for all of the work they do behind the scenes.

As always, a big thank you goes to the participants, from the smallest station to the largest multi-multi. The effort you put into getting a special callsign or operating from a rare QTH plays a large part in making the contest a success. A big part of the fun in the WPX is not knowing what unique call will answer your next CQ. The following statement made by XE2AUB shows why many enjoy the WPX: "I really enjoyed this contest, was my first time in it, liked the nice sportsmanship of all contesters."

The 2000 contest will be held 25 - 26 March. Mark down those dates and give the WPX a shot if you have not already done so. If you need a log or summary sheet, you can get it

from CQ for an SASE. Visit the WPX Contest web site at <<http://ourworld.compuserve.com/homepages/n8bjq>> for a listing of logs received, current rules, and other WPX Contest related items. See you in the 2000 contest!

73, Steve, N8BJQ

Random Comments USA

Used the multi-op manpower to put up a new antenna instead of operating... **K0GQ**. First multi-op between uncle and nephew combo... **KD3TB**. Wow, great condx. Great operating with Bill, W4AN, at his fine station. First time he and I operated together. Looks like a new M/S record... **KM3T**. Much improved from last year. Still wonder if the 1 pointer is a crutch. We were gunning for top 10 in US (14th last year; forget it)... **KO4MM**. Best we ever did from here. Thanks for the great contest... **KR9A**. Worked Papua New Guinea and Hong Kong... **KW3Y**. Sure would be nice to get rid of the 10-minute rule so you could really utilize a multiplier station... **N5YA**. Small effort between tower and antenna projects. Condx seemed better than the numbers indicated... **NT4L**. We wish the big guns would identify themselves more often. This habit of saying QRZ after numerous Q's is arrogant, counterproductive, and in this country, illegal... **NY4T**. Ken, W0ETT, and I have over 80 years of contesting between us. We're both "over the hill," but having as much fun as ever... **W0AH**. This was the last W3USS contest operation from the historic Russell Senate Office building across the street from the US Capitol. The station existed for 30 years. In May 1999 the club disbanded... **W3USS**.

Really liked the 1-point rule. However, as a percentage of three years of submissions, I worked fewer W/K stations. Please make "last two letters" illegal. It slows things down big time!... **W6XR**. Lots of fun this year. This is our favorite contest bar none! The scoring change gave us more incentive to dig the weak stations out of the mud. Thanks to all who worked us... **WV2LI**. In our view, the 1-point rule was a tremendous success. It really helps the multi-multis because other stations are now willing to make QSOs on multiple bands... **KU8E**. This was the smoothest running operation in recent memory. It was great fun to go up against the crew from NK7U in eastern Oregon... **W7RM**. Our score was up almost 75% from last year; a supreme team effort! Nice to have 20 and 15 play well. The restoration of the 20 meter stack in the last month paid off... **WT6V**. Kept waiting for an opening to Europe. Finally got a few Sunday afternoon... **KI0II**. Glad some people could hear me... **N8XA**. With the new scoring, the unusual US prefixes will work the common prefixes, too. Good change... **W6YJ**. The 1-point intra-country rule worked great. I no longer had to beg the US multi's for a Q, and then hope they actually logged me... **W8QZA/6**. Not many Europeans heard here. Sunday was really tough. 5X1Z was country #270 with 3 watts... **WA0VBW**. My 14-year-old nephew got to observe ham radio at its best until Saturday PM. He called me two days

later bitten by the ham bug. Looks like a new amateur soon... **WB7OCV**.

The whole contest was a thrill. It was my first attempt at QRP SSB... **WN6HYX**. What a fun contest! Did not have much luck calling CQ with 100 watts as I thought I would... **AA1SU**. Thank you for a fun contest... **AB1BX**. Limited hours this weekend but very much enjoyed my first WPX. I'm looking forward to the CW weekend... **AF7Y**. Good conditions. My best effort ever with a modest station, using FT1000MP, Alpha 76A, and 5-ele monobander at 50 feet... **A13Q**. The 1-point QSO in your own country is great. Not many of them worked, however. Was expecting more of the /n and /t+ guys. Condx were better than the sunspot numbers indicated. Pretty strong JA's Sunday afternoon... **AJ4Y**. Beam stuck to the east. Oh well. Not this year... **AK0A**. The WPX was the first real use of the new club callsign and it certainly paid off. My thanks to all of you whom we worked and was glad to give some a new prefix as well as a new multiplier. See you in the next test!... **AK4L**. Great to finally be back on the air... **K1KJT**. Second year in a row WX too nice to contest!... **K2CS**. Still fun after many years!... **K2FR**. Hunt & pounce works even with my modest setup with help from sunspots... **K2SZ**. Under the vanity program I got my original Panama Canal Zone call back... **K4BAI**.

Decided to do single band 10 meters. Saturday the band was hot; Sunday it was not! Didn't hear a single JA on Sunday, and the opening to Europe was really weak but had major fun anyway... **K4JYO**. The new 1-point rule was long overdue. It made a search & pounce mode looking for domestic prefixes less embarrassing when you have a K prefix... **K4VX**. The new 1-point rule seemed to help activity and made working W's much more fun!... **K5ZD**. I was comfortable calling former 0 pointers who would now at least get point credit for a QSO with a lousy K6. It seemed like there were lots more W/K QSOs being made than last year but they by *no means* turned the contest into an "American QSO party"!... **K6GT**. Contest is much improved with the 1-point USA rule... **K6LL7**. Operated about 34 hours. Seemingly as usual, conditions on Sunday were poor from this QTH. Also 10 meters was huge disappointment with very limited band openings... **K7RI**. Lots of fun. Be back next year with antennas... **KB0MZG**. Conditions very good here except 10 meters only open to south, no EU or JA's. Last day was stormy and very noisy... **KC7UP**. Spent the first few hours Sat. morning to finish installing the new C-3SS. It turned up perfect the first time without any adjustments and worked flawlessly... **KD6DAE**. I had a good time. Wish I'd put in the whole time. I'd like to contact some Africans and more Pacific Islands... **KD7DQO**.

WPX contest and a little overwhelmed by everything at first, but got in the groove as the contest progressed... **KE4MCE/T**. Just dabbled an hour here and there. There was no lack of good signals every time I turned the radio on... **KE4OAR**. Great contest! Had a blast. Can't wait to do it again. My best effort ever... **KE9NA**. Fifteen meters was just HOT!... **KF3P**. This was my first time running them!... **KG2FH**. I am a quadriplegic. 85 QSOs is an achievement for me... **KI7LS**. Great condx. Almost



Here are most of the ops at BV2B who operated multi-single and demonstrated contesting during their convention.

CONTINENTAL LEADERS

AFRICA		OCEANIA	
1.8	EA8/OH1MA.....404,976	1.8	AH6PR.....18,963
3.5	No Entrant	3.5	AH6OZ.....670,970
7	ED8WPX.....3,601,456	7	WH7Z.....4,582,773
14	5N3CPR.....83,200	14	KH7U.....3,150,160
21	ZD8Z.....12,032,740	21	AH7DX.....6,439,698
28	ZD88A.....13,170,159	28	KH6ND.....6,442,856
AB	EA8ZS.....12,941,740	AB	*KH0/JF2QNM.....4,537,056
ASIA		SOUTH AMERICA	
1.8	No Entrant	1.8	No Entrant
3.5	*4X1IM.....528,002	3.5	*LU5FCI.....312
7	No Entrant	7	No Entrant
14	*RS0F.....3,025,609	14	PP5JD.....4,169,683
21	J13OPA.....6,328,407	21	P43A.....9,001,687
28	H22H.....5,789,817	28	ZX5J.....14,405,820
AB	JH4UYB.....6,659,952	AB	HC8A.....24,660,043
EUROPE		MULTI-SINGLE	
1.8	OM0WR.....296,474	AF	CQ9K.....10,775,514
3.5	OK2RZ.....1,636,910	AS	UA7A.....14,441,808
7	9A9A.....4,624,188	EU	TM1C.....14,127,966
14	DJ7AA.....5,744,320	NA	VP5N.....21,618,144
21	9A3GW.....6,504,371	SA	ZX0F.....27,446,570
28	9H3XY.....6,033,012	OC	T33RD.....17,778,372
AB	OK1RF.....8,751,637		
NORTH AMERICA		MULTI-MULTI	
1.8	VA1A.....535,225	AF	CN8WW.....55,151,562
3.5	KE1Y.....998,760	AS	P3A.....47,680,574
7	NC4NC.....296,922	EU	OT9A.....35,425,530
14	KK9A.....3,518,190	NA	KL7RA.....22,808,240
21	XO7X.....6,112,756	SA	4M4X.....19,873,728
28	WP2Z.....7,566,636	OC	TX8DX.....22,641,087
AB	TI1C.....17,078,930		

* Low Power



OT9T finished first in Belgium and fourth in Europe in the single op all band category.

hit 1M pts. Should have stayed up another 6 hours . . . **KM7TM**. Lots of fun. Looking forward to next year. Activity low on top band. Highlight when AH6PR, VK6HD, and VK4SX called us on run freq. Thanks to everyone who worked us. See you next year . . . **KN2T**. Struggled with the strange conditions on Friday and Saturday until 15 really opened on Sunday. Wonderful to be able to hear and work JA and Asia for the first time in years on 15. Dave, K1TTT, put in many hours of work taking apart and rebuilding the station for this SOAB effort. Thanks to Dave for his hard work, hospitality, and allowing me to use his top-notch station. I was pleased we broke 10 Meg in this effort . . . **KQ2M**. CN8 on 40 meters and 5X1 on 10! . . . **KQ6VQ**. Thanks for the 1-point change, guys. It really added to the fun! Just wish I hadn't had my low band antennas down for maintenance . . . **KS4XG**.

Propagation just won't hold up here long enough to crack a million, but this is the closest have come. Guess will have to wait till the next century to do it now! . . . **KS7T**. Murphy brought three computer crashes and one antenna failure, but still a great contest . . . **KU6J**. Working 20 meters with low power and a small beam was hard work. Too many hi-power stations with over-driven linears. . . **KU6W**. Under the Vanity program I got my original Panama Canal Zone call back. Got several comments from some of the old timers . . . **KZ5BCN**. Missed the last 1 1/2 hours of contest. Had to leave to go see the Rolling Stones concert! . . . **N1NQD**. Spent too much time chasing DX on the first evening! . . . **N3HBX**. Murphy strikes again: computer failure on Saturday. Had to commandeer the XYL's to continue logging . . . **N4SEA**. Very impressive openings to Far East Friday and Saturday night . . . **N4UH**. I got a bit more operating time in than last year. Three new countries in the log, so it was a success! A highlight was working ZX0F on five bands. Next year I've got to get that R-7 up and use computer logging during the contest . . . **N6TPT**. What a fun contest! Good propagation on all bands. My personal best contest to date . . . **N8CN**.

Should have put an antenna on the computer. It was the only thing that didn't break . . . **N8XS**. Conditions were definitely disturbed. Not one JA, OH, or UA1, 3, 4 area worked; no G's worked second day. Activity was pretty good from southern EU. I had marginal success running the States (skip was long with only the West Coast available + backscatter) . . . **N8II**. Worked my first VR station ever! . . . **N9GUN**. Second WPX phone contest. It was

only the second full contest from my home station. Had great fun trying to break through the pileups and even tried calling CQ. Search & pounce worked well . . . **NA1DX**. Another great SB WPX. Found the 1-point rule to be of little assistance to score. Game from here is to run Europe . . . **NB1B**. Love the new 1-point rule; added 50,000 points to my score. Also conditions Friday night were totally awesome on 15 meters. Worked BY, HS, JT, 9V, YB with incredibly strong signals. Never heard such things before, let alone work them with 100 watts and a 2-ele quad. My best score ever . . . **NI9C**. Using the club call seemed to generate considerable interest. Nice to see JA's on 10 meters again after their absence at the end of last cycle. One point for domestic QSOs is a real plus . . . **NK6U**.

Bands were too hot. I couldn't keep up with all the new multipliers. It was exciting to have TZ6DX return to my CQ . . . **NN6NN**. I would love to dedicate my first ever one million point score in memory of my mentor, K5LZO, who passed away Monday 3/29/99. I will miss you, ole friend . . . **NT5D**. Got a new country (5X1Z) . . . **NX9B**. What a lot of fun. Bands seemed great and my little station seemed to play. Thanks for all the Q's, and especially to those who had great patience with me when I couldn't pull them through the QRM. It's hard for a little fella to steal any spectrum, much less clean it up around him! . . . **NX9T**. Very few decent runs, lots of fun search and pounce . . . **W0ZP**. First CQ WPX, second contest ever. Great fun! . . . **W1NXB**. This was my first single operator contest. I



Krzysztof, SP6DVP, provided a multiplier to many on 21 MHz with his special 3Z6V call.

had lots of fun and I'm looking forward to the next one . . .
. **W2MF**. First serious attempt in WPX SSB contest. Lots of action . . . **W2TZ**. TS-830 with tired tubes and 2-element quad . . . **W3CP**. It's amazing who calls in on a QRZed when you are beaming Asia or the Pacific! . . . **W3NO**. Worked Mongolia on a 20 meter loop (ends on him) . . . **W4NTI**. Finally worked more JA's than LU's. Band was really open. Really improved my score from last year . . . **W5RNF**. It was pretty stupid to try SB-LP assisted on 40 SSB! (But fun anyway!) . . . **W6RKC**.

Found the new 1-point rule for intra-country contacts much more enjoyable and got more operating hours out of me. Many more DX contacts, too! . . . **W6TKV**. Sure was great to work E41/OK1DTP for a new country! Also nice to have P2ØX call me with 12 minutes left in the contest! . . . **W7FP**. Since I got a late start and had weekend work commitments, I decided to go multiplier hunting . . . **W7YAQ**. Great contest. My best effort in years! . . . **W8CK**. Three VK's and a KH6 while I was mobile made the contest very enjoyable on 10 meters with only 25 watts . . . **W9CNF/4M**. Was sick and didn't operate as much as last year but had fun . . . **W9YS**. Looking forward to the CQ WW! . . . **WA4SEX**. Nailed the JA's on 45 watts and a dipole during a pileup . . . **WB4SQQ**. Best conditions in years. Great to have 10 meters open. My best score ever . . . **WB8TLI**. Great way to close down the KS9K/W9JA superstation. Break the USA record! Paul is moving to Virginia. Look for K4JA in 2000 . . . **WE9V**. Great contest! I am a regular, but casual part-time S&P only contesteer. This is the first time I have ever made 400 QSOs in any contest . . . **WK5K**. First time in contest. Lots of fun . . . **WN6CTY**. Holding 14.158 as a run frequency with only 100 watts and rates up to 120/hr was a thrill I'll not soon forget . . . **WS1A**. First time entrant to this contest. Great time! I'll be back next year. Hope to break 500K points. Tried all weekend to get CN8WW. Finally got 'em on Sunday . . . **WWØDX**.

Random Comments DX

9H3XY was a single-op DXpedition by Steve Telenius-Lowe, G4JVG, from the station of Jeff Morris, 9H1EL. I am claiming a new WPX EU 10 meter record to add to my Oceania 10 meter record (P2ØA) and Oceania M/S record as P2ØX. Thanks to 9H1EL for his hospitality and good luck to Jeff in claiming the record back again next year . . . **9H3XY**. For me still the best contest . . . **CT1BWW**. It was fun to operate with my new 2x2 callsign . . . **DJ2MX**. License holder is Helmet, DL7MAE. Op was Robert, 10 years old, our trainee station . . . **DN1MA**. First international contest for me. Was not able to reach 1000 QSOs or 1,000,000 points, but not bad for a first timer, I guess . . . **DU7MHA**. Good condition on high bands. I enjoyed much pileup from EU and USA . . . **JR4QZH**. This was not supposed to be a serious effort. I hurt my back just three days before the contest, so I was not sure if I could spend 36 hours in the chair. Hearing LA9HW also entering SOAB changed my mind. Back hurt, but took a break every now and then to stretch out . . . **LA8W**. I need more power to win! . . . **LU9AWM**. Bad luck—the PC was silent key the Tuesday previous to the CQ WPX (is very hard to come back to paper logs after four years); and bad luck during first 16 hours—problems with amplifier relay. But lovely and funny contest. Many stns from EU, JA, and NA. A little problem with OMs from USA called me as W7DX or KW7DX or NW7DX (the last was also contesting)! . . . **LW7DX**.

Good condx in direction of Asia . . . **LX1EP**. My first single op contest. Thanks for the rookie category . . . **LX2LX**. Nice contest and good activity. One point per own country good idea (but only for Japan, Russia, and USA). Too many bad signals and splatters on bands especially from Russian 200 watters . . . **LY2BTA**. Europeans were biggest DX in this contest. Only two DL and G QSOs. Even backscatter sigs were too weak for working . . . **LY2OX**. Learned a lot in the contest about my new beam ant . . . **MØBRK**. Thanks for a nice contest. Great condx and a lot of activity. Nice to be called by D44BC, T2ØDX, and others. Thanks to Karel, OK1CF, for the tcvr, and special thanks to OK5W for letting use their beautiful QTH . . . **OK5W**. Great contest, great QRM. Broke my personal top score . . . **OL6X**. Finally broke the 1M points and 1000 QSO barrier. Highlight was when T33RD was worked on first call on 20 . . . **ON4APU**. I decided to connect to the DXCluster to catch some new prefixes for my WPX award. Although I made lots more QSOs last year, I had a ball—lots of new prefixes and even a new DXCC entity: T33RD. Some even think ham radio is only a hobby. They should ask my XYL . . . **ON4CAS**. My first WPX SSB from Aruba. Hope to do it again. Congrats to HC8A/N6KT; he is the very best . . . **P4ØW**.

Thrilled to have XV, HSØ, VR2, and other rare Asian stations break the pileups to work me . . . **P43A**. A nice contest weekend with old-fashioned conditions direction

JA and to the rest of the world, but I forgot to work on 160 and the 40 meter bands. I hope to come back next year with 2500 QSOs . . . **PA0IJM**. Worse than last year, but I'm sure that will be nice next year . . . **PU2VYT**. Enjoyed a lot the funny time in the contest. The big award was T33RD coming till my frequency. Unbelievable! Tnx folk for the nice time I had passed in front of the rig calling CQ contest . . . **PY3RK**. My first contest, my skills improved . . . **PY8AZT**. 15 meters was great open! . . . **RW4AA**. Thanks to guys at S53M/S59DBD for their hospitality . . . **S53M**. On early Sunday afternoon the main tuning knob blocked and was very hard to move up and down with knobs on microphone. Lost at least 100 QSOs, as with low power you cannot remain on one frequency calling CQ . . . **S54A**. I very much enjoyed the few hours I could participate . . . **SM4BTF**. Good SSB contest. This is my first SSB contest . . . **SP2QVS**. It's tough in the fast lane with all the high-power guys wanting your frequency . . . **T17/N4MO**. Tnks to my friend Gerard, F6FGZ, for lending me his super station . . . **TM7XX**.

RU1A refused to work me. He thought I was a joke! So much for trying to have a rare pefix. Much be getting better with age; managed to beat last year's score and record, thanks to VE1ZZ QTH and all who shared noisy band. Thanks for 1-point domestic QSO, welcome change . . . **VA1A**. They never quit calling on 15 meters. Unbelievable! . . . **VA3DX**. Great contest. Had to have hard helmet on for 20 meters—tough bunch, hi! . . . **VE1RX**. Biggest thrill: not realizing whom I was contacting and where they lived until I edited their name and location. The fact that at one moment I spoke to a person and the next to someone else thousands of miles away without leaving my home . . . **VE2TPR**. My first single op contest attempt with my new home station. I had a great time! Conditions were good!! Thanks to all who worked me . . . **VE3SS**. My best showing ever in this contest! But as you can see by the score, the crowds and my antennas fought me on the low bands. I'm working on it this spring . . . **VE3STT**. A great contest with great conditions, despite having to be in the QRL for several hours over the weekend . . . **VE3ZZ**. First try at contesting. Great time was had! . . . **VE4HAZ**.

My first CQ WPX contest. Operated from summer cabin at Timothy Lake, B.C. Powered station from battery and Honda generator . . . **VE7UQ**. Biggest thrill was making over ten times the score from last year (and not having to work as hard to do it) . . . **VE7YJ**. Working BY1DX first contact and then Taiwan later in the test . . . **VE9WH**. Why don't we have propagation like this weekend's to the Caribbean for CQ WW? . . . **VR2BG**. Working from WP2Z was "ham heaven" . . . **WP2Z**. I really enjoyed this contest; was my first time in it; liked the nice sportsmanship of all contesters . . . **XE2AUB**. Unfortunately, many other things interfered with working this contest. However, band was great and I had fun in spite of it all. First experience of single band only. This is still my favorite contest! . . . **XJ1JS**. I was new multiplier to all stations I worked . . . **Z37FCA**. First time ever: more EU than USA! . . . **Z8BZ**. Log turned into a single band effort halfway through. Ten was spectacular, but couldn't get anything running on the low bands . . . **ZS6EZ**.

Congratulations to WPX gang for the new 1-point rule. I worked a lot of PY stations. It's wonderful to see the contest "virus" increase his action in my country. See you next year . . . **ZX5J**. Tnx for the wonderful WPX contest. In BV-land the China Radio Association and Amateur Radio of Taipei, we combined a contest team running BV2B club station and enjoy the world's largest festival on air . . . **BV2B**. A very good score with the newcomers . . . **FM5BH**. First try at an HF contest by seasoned VHF contesters and enthusiastic "never before." We loved every minute (except for the technical problems!). Will try harder next time . . . **GD6IA**. Hey! This is the second year as a "fun-multi"; maybe we'll get serious next time. . . . **GW4BLE**. Big fun on new cycle propagation. Sixty stations less to our target over 3000 (hi) . . . **JA6ZPR**. Marico Radio Club (J12ZJS) is first entry of WPX Contest. This QTH is very beautiful location at 150 km southwest of Tokyo and near Mt. Fuji. Club house is 10 square meters wide and two towers . . . **J12ZJS**. Great propagation on 15 meters! Well, propagation on 10 meters will wait for the next year . . . **OH1F**. Great competition between OH M/S teams again! The ops at OH2U were still a bit rusty after the long winter, but under pressure, the "old diesel" fortunately got started . . . **OH2U**.

We were running WPX for first time and it was a great experience . . . **SW8L**. The propagation drop on Sunday was horrible. There were periods longer than 10 minutes when we could not make a single contact. Low bands were very bad. T33 is simply too far! . . . **T33RD**. Great conditions on 15 meters into Europe during the day and into Japan in the early evenings. Was a privilege to operate with a world-class operator like Yuri, VA3UZ (ex-UT4UZ)

. . . **XL3D**. WPX contesting is our dream . . . **YB0ZCE**. Thanks to Oms, PY5EG, for opportunity and Marcia, PU5MCO, for your help. They are very special friends . . . **ZW5B**. Big fun on new cycle propagation . . . **JA6ZPR**. Ten was great a few days before the contest, but never really opened for us . . . **KL7RA**. We tried some fun in M/M category with a couple of wires and only three TX . . . **S57M**. Extremely difficult to work in this contest with just a little bit more power than nothing . . . **HB9AYZ**. Ten meters QRP, this is one chance in a million! . . . **JA5GPF**. Amazed at 40 meter and 80 meter QSOs! . . . **KH6J/WB6FZH**. A novel QRP experience—98% S&P, 50% Europeans, 97 countries . . . **VE3KZ**.

Station Operators Multi-Op, Multi-Transmitter

4M4X: OH0XX, YV4GME, YV5AMH, YV5FAA, YV5EED, YV5IOJ, YV5JCB, YV5LMMW, YV5LMMX, YV5MHX, YV5OBU, YV5NSV, Freddy Rivero. **AD4TR**: AD4TR, WB2WIH, KE4RGH, KE4JZT, WB2QLP. **AJ11**: Club Group. **BV9A**: BV2KI, BV4KR, BV4ME, JG3TRB, JH3GNC, JP1RIW, JR7TEQ, 7M1STT. **CN8WW**: CN8LI, CN8NK, CN8OO, DJ9MH, DL1MFL, DL6FBL. **DX1DBT**: John, Marvin, Marlon, Joey, Arlan, Danilo, Pocholo, Christopher, Dervin, Menardo, Andrew, Joel, Arem, Norman, Joey, Glazer, Sean, Biboy, Lennart, Maui. **EA4ML**: EA1JE, EA2TV, EA4BT, EA4CT, EA4ET, EA4KD, EA4TX, EA5GRC, EA7DBO, EA7JB, EC4AGN, EA4KA, EB4KI, EB4EPJ. **ED4RAX**: EA4AHW, EA4ABW, EC4ANZ, Javi, Nacho, Montse. **ED4RCT**: Julian, Esther, Alberto, Badolo, Jesulin, Gema, Oscar, Jacobo, Pilar, Eduardo, Juan-Carlos. **ED7VG**: EA7HY, EA7ATX, EA7CCA, EA7EZO, EA7GNC, EA7CCN. **ES5Q**: ES5MC, ES5MG, ES5QX, ES5RAH, ES6RN, ES5RW, ES5RY. **HG6Y**: HA2RX, HA3OV, HA6DX, HA6ND, HA6NY, HA6PX, HA6OB, HA6OI.

JA1YPA: JA1ATK, JA1PEJ, JA1QJK, JH1AZO, JI3ERV. **JA6ZPR**: JH6JSR, JH6SOI, JR6CKX, JI6MYW, JA6PBO, JG6WIO. **JK3KDH**: JK3KDH, JN3GVM, JS3CTQ, Ako, Kawabata. **JN1YUU**: Shuzuka (age 11), Saori (age 11), Chisa (age 11), Ayumi (age 11), Yumeho (age 11), Mami (age 12). **KL7RA**: KL7RA, K5ZO, AL7IF, AL7MU, AL7RF, KL7TC, KL7XD. **KU8E**: K8CC, K8DD, K8GL, K8GT, K9TM, KU8E, N8BTU, N8VW, W8MJ, W8BS. **LO1F**: LU1's FAM, FOW, FZR: LU2's FYU, JCW; LU3's FCK, FP, FR; LU4's FA, FPZ: LU6's FA, FEC, FFO, FUQ, FWN; LU7's FW: LU8's FPT, FQ; LU9's FIO. **LY7A**: LY2BMX, LY2BUE, LY2BUU, LY2DQ, LY2KX, LY2NK, LY2NLL, LY2UF, LY2WJ, LY3DA, LY3HD, LY3IT, LY3RJ, LY4AA. **N0NI**: K0KD, N0NI, W0FLS, W0ETC, N0AMI, W0OV. **N6J**: K6EP & N6DE. **NK7U**: NK7U, K7ZO, W7ZRC, K7MK, K7NT, K9JF, W7UA, K7DPP. **NP3X**: WP3A, WP4NHM, WP3C, W4JNS, W4OV, KP2BH. **OT9A**: Ops.

P3A: RA9JX, UA9MA, RZ9UA, RZ3TX, UA3DPX, RA0AM, RV0AR, UA9YAB, UN20, RU9MA, Alex, Vadik. **S51S**: S51TA, S51XO, S56A, S57MW, S57PW, S57RW, S59W, S56VXO. **S57M**: S57M, S51DI, S51RE, S590. **SK6NP**: SM6FUD, SM6WQB, SM6WQA, SM6KFK, SM6BUV, SM6VUL, SM6WET, SM6WWW, SH6ADN, SH6AEP, SH6AEO. **SV1DKR**: SV1DKR, SV1DET, SV1DZB, SV1DKL, SV1DNW, OK1YM. **T42R**: CO2KG, CO2JA, CO2NT, CO2II, CO2WF, CO2GQ, CO2GK, CM2VA, CM2KL, CM2KC, CL20T. **TX8DX**: FK8GM, FK8FI, FK8HC, FK8VHN, FK8VHT, FK8HW. **VE7ZZZ**: VE7AGJ, VE7CV, VE7EME, VE7LRS, VE7PTT, VE7SK, VE7TLL, VE7WJA. **VF6JY**: VE5MX, VE6TX, VE6BF, VE6JTM, VE6JY, VE6JO, VE6DYB, VE6SLV, VE7AV. **W7RM**: K1TA, K5ZM, K7ZUM, K7TZW, K7BBSW, K17Y, KK7GW, N7ATM, N7TO, W7BX, W7RM. **W08CC**: N8NR, N8BJQ, N9AG, K9NW, W8KKF, K8BPVO. **WT6V**: N6RO, K4KR, K6RC, K3EST, N6IG, K6AW, AE0M. **Y03APJ**: Club Group.

Station Operators Multi-Op, Single Transmitter

4G1A: DU1WHO, 4F1Z, 4F1DMD, 4F1GYE, 4F1QJW, 4F1QJV, DY1PDO, DU3AZ, 4F1BYN, 4F1EAA, DU1MGG, DY1GYU. **4N0X**: 4N7RGH & YZ7DM. **6Y5MM**: 6Y5MM & 6Y5KW. **9A1CMS**: 9A5TR, 9A5RJ, 9A4RJ, 9A5AVW, 9A5ATW, 9A5AHD, 9A6KZH, Damjan. **9V1YC**: 9V1YC & 9V1BH. **AA2AD**: AA2AD & KC2AKT. **AA5NT**: N5NJ, W5WW, N5QQ, N5EE, AA5NT. **AB2DE**: N2KPB, KC2AVE, KC2DZY, KB2ZB. **BV2B**: BV2WA, N2IT, BV2KS, BV2CE, BV2NT, BV2PU, BV2UJ, BM2AAL, BM2AOT, BM2AAV. **BY4CSZ**: Yu, Xu, Wangweijun, Cao Lei, Gu. **CE3AA**: Club Group. **C09K**: CT3BD, CT3CD, CT3LD, CT3HF, CT3HK, CT3IA, CT3KN. **CS9Z**: CT3CK, CT3EX, CT3FJ, CT3FO, CT3HT, CT3HV. **DA0GF**: DL30CH & DL2JRM. **DF0HTE**: DH1TW, DL1SFK, DL3SBI. **DH2RAL**: Club Group. **DK0SU**: DL9SEV, DL2SFI, DF7SA, DJ3TZ, DL3SFB, DK9TN. **DK1NO**: DK1NO, DL1IAO, DL2MEH, DL2CC. **DL0SLZ**: Club Group. **DL2ARD**: DL2ARD & DH1NAX. **DL3KZA**: DL1KZA & DL3KZA. **DL6RAI**: DL1MGB, DL4RDJ, DL6RAI. **DN1NA**: Manuela, Bettina, Anita, Bernd, Wolfgang, Gerd, Thomas, Andrew, DO1NR, DO1NRL. **DX1DX**: DU1SAN, DU1MHX, DU1JXP, DU1HDG.

E41/OK1DTP: OK1TD, OK1DTP, OK1CW. **E41EEY**: E41EEY, EA1CS, EA1DZW, EA1CUB, EA1BVP, EA1BXW. **E45FFC**: EA5AFH, EA5DF, EA5FFC, EA5ZI. **ED1BD**: Club Group. **ED2RCA**:

EA2CBY, EC2AFA, EA2ARW, EA2ABM. **ED2WPX:** EA2MO, EA2ATU, EA2CCG, EA2CNB. **ED3TR:** EA3CT, EA3KG, EA3BIP, EA3GGO, EA3GEP, EA3BJO, EC3CVD. **ED4RKU:** EA4EKH, EA4AD, EA4CWH, Santi, Chus, Suso, Jose Luis, Juan Carlos. **ED4ST:** EA4ATI, EA4TD, EA4ST. **ED8GCC:** EA8AKN, EA8AZM, EA8BIK, EA8BVH, EA8BVX, EA8CAJ, EA8DP, EA8NL, EA8RA, EC8ABT, EC8APU. **EM4E:** UR5EAW, UR5ECW, UR5EDX, UR5EFJ. **EM50UWC:** US-U-073, US-U-076, US-U-075, US-U-091, Denis. **EM7Q:** UR5ON & UY5Z. **EN5J:** UU1JA, UU2JQ, UU2JZ, UU3JD, UU4JDX, UU5JR, UU8JY, UU0JX. **ES2X:** ES21RJ, ES2QH, ES2FM, ES1MW, ES1NJ, ES1TBR, ES1TFT, ES2NA. **EU5F:** EU6AR, EV6M, EW6AF, EU6DX, EV6Z, EW6AW, EU6PW, EU6TV, Vitaly, Sany, EW6MM, EW6OO, EW6EW.

FM5BH: FM5FJ, FM5DS, FM5NA, FM5DN, FM5BH. **G1Y:** G0UDT, M0AYQ, G4KCT, G0LPX, G7LXK. **G5N:** G0HVQ, G0TYA, G3LVP, G7BPX, G7ETZ, G7HTS, G7KCG. **G8A:** G0KXL, G0DBE, G0IEQ, G0STU, G1AOF, G3RTU, G4WSE, G4NXG. **G61A:** GD3UMW, G0TOU, GD0TEP, MD0BXX. **GJ3DVC:** GJ0NYG, GJ4TXB, MJ0BJU. **GW4BLE:** GW4BLE, GW0ARK, GW0LKA, GW0RYT. **HG1S:** HA1TJ, HA1DAE, HA1DAC, HA1EAI. **HI3CR:** HI3HCE, HI3LFE, HI3LRR, HI3JMQ. **HS0AC:** HS1CKC, HS1BZY, HS6NKD, HS0GBI, E21ENF, E21CJN, E21EIC. **IK1SLE:** Club Group. **IO2A:** IK2HKT, I2IFT, IK2CIO, IK2ANI, IK2YCN. **IO2L:** I20KW, IK2YYE, I22ACZ, I22CEF. **IO5A:** I5JHW, I5NSR, I5NXH, I5OYY, I5UKS, IK5EKB, IK5GOK, IK5JAN, IK5NAW, IK5ZTW, IZ5BAM. **IO7R:** Club Group. **IO9K:** IT9KWF, IT9EWG, IT9CYH. **IR4T:** I4UFH, I4JMY, IK4IEE, IK4MHB, IK4UPB, IK4MTF, IK2QEI, IK2SGC. **JA5BJC:** JA5BJC, JA5FDJ, JH5FXP, JH5RXS, JR5JAO. **JA6ZPR:** JH6JSR, JH6SQI, JR6CKX, JI6MYW, JA6PBO, JG6WIO. **JE6ZIH:** JR6GKT & JF6DEA. **JJ2ZEY:** JA2BY, JA2BIV, JA2BIL, JM2CCL, JQ2BBC. **JJ2ZS:** JA2AXB, JA2JSF, JE2HCJ, JG2TSL, JH2MYN, JH2UVL. **JR1ZTI:** JA1QXY, JF1DHS, JP1OGL. **K0COP:** K0CL & K0COP. **K0GQ:** K00U, KB0RTH, KG0US. **K2TW:** K2TW, W3BGN, W9NGA. **K3TG:** K3TG. **K6ZM:** K6WVG, KD6RMN, RW0FO. **K7PAR:** Club Group. **KD3TB:** KD3TB & N2WKS. **KD9ST:** KD9ST, K9SD, KA9SQR, KA9SQS, KB9EXE. **K11G:** K11G, K1SD, WF1B, W1WFZ. **KM3T:** KM3T & W4AN. **KO4MM:** KO4MM, N4VHK, WB4MSG, KD4RGB. **KR9A:** KR9A, K9XD, N9VVV, K9YO. **KW3Y:** KW3Y & W4UEA.

LR50D: LU8DY & LU9DC. **LU1NF:** LU1NAF, LU1NDC, LU8NA, LU9AY, Otto. **LV2V:** Club Group. **LZ6A:** LZ4BC, LZ2EG, LZ1CNN. **LZ9A:** LZ2CJ, LZ2DF, LZ2PO, LZ2UU. **M4U:** G0DVJ, G00ZS, G4FTP, G7HOW. **M5W:** G0MTN, M1CFI, G0EYO, G7UGC. **M6T:** G4PIO & G4BAH. **M8S:** G4AGQ & M0AGQ. **N1JJ:** W0GJ, N0MLJ, W0PRJ, KL7YL. **N5YA:** N5YA, KM5UB, N5KB, AD5PU, KD5ETC, WB2LMA, N5KR. **N7TT:** N7TT & Delores. **NC7J:** NG7M, NC7W, K8EI, AC7H, W7CT, NY4I, K07X. **NE6N:** K6XC, K17WX, W6AQ, W6ORD, W6EEN. **NK4U:** K4EA, K4RF, K4SZ. **NM6Q:** ND6A, KF6PCW, W6UC, K6DAW. **NM7I:** K7ON & NU7I. **NM9H:** NM9H, N09Z, KX9X, N1HRW. **NR6R:** N6KI, K6AM, N6NC, KB2T. **NT4L:** K1KY, W4NI, N4GHU. **NY4T:** NY4T, KF4GNV, W1ADE, KD4BAM, N4SSD, KE4KMG, KF4GKN, KE4GKE. **OE2M:** Club Group. **OH1F:** OH1EH, OH1MDR, OH1NOA, OH3WW. **OH2U:** OH2HE, OH2IW, OH2XX, OH7BX, OH7JR. **OH7M:** OH4XX, OH6LNI, OH7KD, OH7MHL. **OH8LO:** OH8LO & OH8MCT.

OL1C: OK1AN, OK1UZW, OK1IPS, OK8AAM, OK1TIC, OK1IEC. **OL5Q:** OK1HRA, OK1FLC, OK1FFU, OK1INC. **OL5T:** OK1TC, OK1DXF, OK1HSK, OK1FLM. **OM3KWZ:** OM7AB, OM7AG, OM7AA, OM7ALH, OM7AC, OM7ARC. **OM5M:** OM1KM, OM2KW, OM2RA, OM3BH, OM6NM. **ON4LCE:** ON5WA, ON4KVI, ON4LCE. **OT9C:** ON4QJZ, ON4ALT, ON4AMI, ON4CEQ, ON6MR, ON6SK, ON7UN. **OT9K:** Club Group. **OT9P:** ON4LAM, ON5OO, ON6AH, ON6MH, ON6QR, ON6VL, ON7PC, ON5AV. **OT9R:** ON4BAL, ON4UW, ON4AKH, ON4AVJ, ON4BBF, ON7EF. **OZ/K8HT:** K8HT, DL8AAE, DH5ABH, DH4AAH. **OZ7HAM:** OZ1ETA, OZ1BIZ, OZ1MAT. **OZ7RJ:** OZ1IVA, OZ5ABD, OZ1/5LH. **OZ9KY:** OZ9AAR, OZ1GWD, OZ1DL, OZ1EEZ. **P20X:** P29KJP, P29KPH, P29ZMC, P29ZJM. **P39P:** Club Group. **PY1NEZ:** PY1NEZ & PY1NEW. **RF9C:** RZ9CO, RA9CMO, RA9CKO, UA9CIR, UA9FQY. **RK1OWZ:** UA1OZ, RA1OJ, UA1OMX, UA1OMZ. **RK3AWE:** RK3FM, RU3DGD, RA3DKE. **RK3AWV:** RX3ARI, RX3ANX, RW3ARA, Tania. **RK3QWM:** RA3QH & RA3OU. **RK4WWA:** UA4WA, RW4WA, UA4WAN. **RK6XWA:** UA6XDX, RA6XR, UA6XHT, UA6BS, RA6XMF. **RK9CZO:** RX9CAZ, RV9CFY, RA9CDF, RV9CDW. **RK9JWJ:** UA9JLZ, UA9JMA, UA9JMP, RA9JAC, UA9WO/9. **RK9KWI:** UA9KJ, UA9KE, UA9KEK.

RM6A: RN6BN, RA6CO, RA6CM, RA6AX, RA6YY, RA6YDX, RU6AB, Slava. **RW2F:** RA2FA, RN2FA, UA2FF, UA2FM, UA2FZ, UA2FJ. **RW4LYL:** RA4LW, RA4LZ, RW4HTT, RW4LE, UA4HTT, UA4LU. **RW9UWK:** Alex, Victor, Denis, Yakov. **RX3RXX:** UA3RAR, UA3RV, UA3RJ, UA3RA, RA3RFA, UA3-157-611. **RZ9AZN:** UA9ALE, UA9ATQ, RA9A-004, RA9AQT. **S50E:** S50R & S50U. **S50G:** S50Q, S56M, S57AW. **S50S:** S50S & S58A. **S53APR:** S53DX, S59DZ, S57W. **S54DL:** S54DL, S54E, S57NMO. **S56MM:** S50A & S57J. **S59ABC:** S51C, S51DU, S57MFC, S53W. **SK3LH:** SM3PZG, SM3JLA, SM3BIZ, SM3WMM. **SK6DG:** SM6TKT, SM6RXZ, SM6TZD, SM6SIF, SM6SMY, SM6WKH, SM6WKB, SM6WKC, SH6ACE. **SM2KW:** SM2HWG, SM2NOG, SM2ODB, SM2SYV. **SM4VPZ:** SM4VPZ & SM4AIO. **SP3KPN/P:** SP3SFN & SQ3EPX. **SP9KJU:** SQ9HHV & SP9MDY. **SW8L:**

SV8CRI & SV8DCY. **T33RD:** OK1RI, OK1TN, OK1RD. **T77V:** T77V, IV3TMV, IV3ARJ, IV3NVN, IV3FSG, I8NHJ, I1JQJ. **TF3IRA:** TF3AO, TF3GB, TF3HP, TF3YH. **TM1C:** F6CTT, F5ITK, F6FVY, F5TRO, F5PSG, F8AKS. **UA7A:** RU9AN, RU9AZ, RW9MG, RZ9AZ, UA9AJ, UA9BA, UN4L.

UF3CWR: RA3CW, RV3BR, RZ3AZ, RZ3BW. **UK8BWO:** UK8BN & UK8BDA. **US8U:** UT5UUF, UT5UDG, UT5UPN, US-U-093. **UT4UWL:** Club Group. **VA3SK:** VA3SK & VA3MW. **VE3RM:** VE3RM & VE3WIB. **VE5RI:** VE5FA, VE5FF, VE5FN, VE5WI, VE6BBP, VE6EZ, VE6HMG, VE6KDD. **VE6AO:** VE6BIR, VE6NJK, VE6TC, VE6WSI, VE6KC, VE6RSX, VE6UUG, VE6WTD. **VE6FI:** VE6FI, VE6AQ, VE6NA, VE8WD. **VE6SV:** Ops. **VE8QL:**

VE8XYL & VE8QL. **VF4VV:** VE4XT & VE4VV. **VK4UI:** VK4UI, VK4XY, VK4MZ, VK4CEJ, DL2GAC. **VP5N:** IK2SGC & IK2SFZ. **VR2SS:** JK2PNY, 7K10UO, JO3TND, UA3OJC. **W0SAH:** & W0ETT. **W1AF:** K3UOC & K9HI. **W3USS:** K3ZJ & W9JG. **W6XR:** N2AU & W6XR. **WA1RR:** N1HRA, KB1LN, KA1VMG. **WB2WPM:** Club Group. **WC4E:** WC4E, K4XS, K1KNO, ON4AUC, K4OJ. **WV2LI:** N2GA & K2DO. **WX3B:** WX3B & N3SB. **XL3D:** VE3RSE & VA3UZ. **YB0ZCE:** YB0AZ, YC0LBK, YC0LFC, YC0LDA. **YL4U:** YL2KL, YL3CW, YL3DW. **YP4A:** Y04NF & Y04FRF. **YV4AA:** YV4YC, YV4GLD, YV5CVE. **YV5NIQ/EA1:** YV5NIQ & EA1EB. **ZK2GEO:** DL1EMH & DL2YAK. **ZW5B:** PY2KC, PY5GU, PY5MCO, PP5UB, PP5WG. **ZX0F:** PY5EG, PY5CC, N5FA, PY0FF.