

Results of the 1997 CQ WW DX SSB Contest

BY BOB COX*, K3EST

Whether you are a first-time contestant or a veteran, each entrant in the CQ WW will be caught up in the Fall "contest fever." Contest fever can be defined as a single-minded concentration on improving your station, learning about propagation, and spending endless hours talking to friends about strategy and band openings over the phone or over a beer. The fun of catching a few new ones, testing out a new antenna system, and competing on all levels brings into focus what contesting is all about: fun, improvement, competition, and knowledge.

The 1997 WW SSB Contest yielded about 3500 logs when everything was finally tabulated, a number which reflects an 8% increase over 1996. With the Internet playing a big role in the submission process, about 1750 logs were received electronically. With conditions continuing to improve, the 1998 contest season should prove to be fantastic.

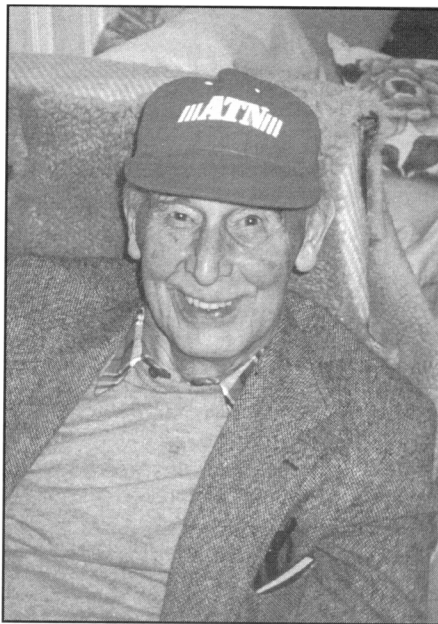
Single Operator High Power

What can be said about the competition for the world top score? It started off as a battle between many stations and ended up a hard-fought duel between two members of the CQ Contest Hall of Fame! ZD8Z operated by Jim, N6TJ, took the long trip back to ZD8, while Martti, OH2BH, put EA8BH into the race. These two multiple winners of the CQ WW SSB (OH2BH three times, N6TJ four times) brought with them their considerable experience and skill. After all the log checking was finished, both ended up with A+ logs. Out of a total of almost 28 million points between their scores, only 80+K made the difference for ZD8Z, who took the world trophy. Martti finished second, while P40W operated by John, W2GD, armed with a new alarm clock, took third. Africa was well represented in the top ten box, taking five spots.

The top USA position went to Tom, W2SC, operating at K5ZD/1. It was Tom first win. Congratulations! Second place went to Dean, N6BV/1, whose stacked tribanders sure did the job. Dean will soon be N6BV/6. A race took place for the top W9 place between Mike, W9RE, and Jerry, WB9Z. Mike took 7th place USA and Jerry 8th. And a far west zone 4 station broke the top ten barrier. Steve, N2IC/0, talked his way to 9th in the US.

4N9BW(YU7BW) was sure in the right spot. Operating in eastern Yugoslavia, he took the top spot in Europe. The real battle was for second place. Five stations were within 200,000 points of one another. Steve, GW4BLE, emerged to take second place in Europe.

*1816 Poplar Lane, Davis, CA 95616
e-mail: <k3est@cqww.com>



Kell, SM0ATN, part of the SM0BGM Multi-Single team, is 86 years young.

The top Oceania score was V8EA (JO1RUR). Hajime's callsign keeps getting smaller. Second place went to Al, NH7A. There are quite a few miles between those two.

The top Asia score was Hamad, 9K2HN, whose booming signal put zone 21 in a lot of logs. He was followed by the Bavarian Contest Club station of JY9QJ, while JH4UYB took time off from his dental clinic to take the top honors in Japan.

Single Operator Low Power

This category of operation continues to be very popular, with big scores distributed worldwide. This year the scoring was dominated by Carlos, TI2CF, piloting his mega-antenna farm at T11C to a new world record. In smashing the old record, the more southerly location, bigger antenna systems, and thirty years of experience paid off, as Carlos amassed a terrific multiplier to go with his big QSO total. Second-high in the world and North America was VP9ID (AJ2U) from beautiful Bermuda, with a more modest station and notably accurate log. OD5NJ in Asia took third place world with a nice effort from a rare country. LU2NI steered LQ0N to fourth place and top South America, followed by EA7WA and TR8IG with winning efforts from Europe and Africa, respectively. Perhaps surprising-

ly, no Caribbean station was in the upper echelons of scoring, as no entry from there broke one million points.

In the Single Op, All Band, Low Power USA category things really got a good shake-up this year. The final order of finish looks substantially different than the claimed scores. For the first time ever in the CQ WW, a YL has earned the first-place slot in a major category (and, I might mention, the category with the largest number of entrants, too!). A hearty congratulations to Ann, WA1S, for winning the category and for being the only score to stay over the 1 million point mark after the log checkers had finished their work. Her score certainly will be noticed in the Yankee Clipper's final tally. And another big congrats to WD5K for taking second place, from zone 4 no less! This is really exciting and should provide lots of encouragement to everyone else in zone 4 to give it their all; it *can* happen, so give it try! The third place finisher was John, K2AZ, from northern New Jersey. He contributed 974k to the FRC's bottom line. And from the West Coast, in 10th position, was WA7BNM who seems to make the top 10 annually. A great job, indeed.

In Europe, EA7WA outdistanced second-place finisher LY3BA by over half a megapoint. TM6A operated by F5UFX took third place. The difference between 5th and 10th place was only 83k! Congratulations to all for a job well done!

QRP

QRP is always a fun category (after the contest is over), but requires lots of stamina, hard work, and perseverance during the contest. The top three spots this time were spread out among Europe, Oceania, and North America. Number one in the world for QRP went to YU1KN with an honest 370k score. The battle for second place was very tight, with KH6/N0KE edging out KD2TT by just six tenths of one percent! Their scores were 301k and 299k, respectively. As the sunspots pick up, those QRP scores will again topple the one meg barrier. Two QRP records did fall this time: NC6M (Op. W6REC) for 75 meters North America and KR2Q for 40 meters North America.

Assisted

The Single-Operator Unlimited class was topped by two European stations this time. TM2V, operated by F6GYT, outdistanced the pack handily with a fantastic QSO total. Roland, DK3GI, at club station DL0WW, was a comfortable second thanks to his excellent multiplier. Third in Europe and fifth overall was Z38G from Macedonia, the first entry in Single-Op Unlimited from that country.

TROPHY WINNERS AND DONORS

SINGLE OPERATOR

World All Band
ZD8Z (Opr. Jim Neiger, N6TJ)
 Donor: Dave Rosen, K2GM
 WA2RAU Memorial

World Low Power

T11C (Opr. Carlos M Fonseca, T12CF)
 Donor: Slovenian Contest Club

World QRP

Sasa Djokic, YU1KN
 Donor: Doc Sayre, W7EW

World Assisted

TM2V (Opr. Andre Ginguene, F6GYT)
 Donor: Snake River Contest Club

U.S.A

K5ZD (Opr. Thomas Georgens, W2SC)
 Donor: Potomac Valley R.C.
 KC8C Memorial

U.S.A Low Power

Ann M. Santos, WA1S
 Donor: North Coast Contesters

U.S.A. Zone 3

W7AT (Opr. Lew Sayre, W7EW)
 Donor: Bill Fisher, KM9P/4

U.S.A. Zone 4

Mike Wetzal, W9RE
 Donor: Dennis O'Connor, K8DO

Canada

VE3EJ (Opr. Jeff Steinman, N5TJ)
 Donor: Niagara Frontier Int'l DX Assn.
 VE3WT Memorial

Caribbean/C.A.

FG5BG (Opr. Ryuichi Nakano, JF2DQJ)
 Donor: Alex M. Kasevich, VP2MM

Europe

4N9BW (Opr. Robert Homolija, YU7BW)
 Donor: Potomac Valley R.C.
 W4BVV Memorial

Europe Low Power

Angel Martinez Claus, EA7WA
 Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Africa

EA8BH (Opr. Martti Laine, OH2BH)
 Donor: Gordon Marshall, W6RR

Asia

Hamad J Al Nusif, 9K2HN
 Donor: 2 AM Dayton Pizza Gang

Japan

Masaki Okano, JH4UYB
 Donor: Japan Crazy Contesters Club

Oceania

V8EA (Opr. Hajime Kato, JO1RUR)
 Donor: Northern California DX Club

South America

P40W (Opr. John Crovelli, W2GD)
 Donor: Yankee Clipper Contest Club

South America—Mainland

HC5C (Opr. Robert Woods, W5AJ)
 Donor: Jose L. Bachmann, ZP6CC
 & Cesar Ivaldi, ZP5K

SINGLE OPERATOR, SINGLE BAND

World—28 MHz

Arturo J Gargarella, LU6ETB)
 Donor: Joel Chalmers, KG6DX

World—21 MHz

ZX5J (Opr. Sergio Lima de Almeida, PP5JR)
 Donor: Robert Naumann, N5NJ

World—14 MHz

George Beasley, 5B4AGC
 Donor: North Jersey DX Assn.
 K2HLB Memorial

World—7 MHz

IG9GSF (Opr. Fabio Grisafi, IT9GSF)
 Donor: Fred Laun, K3ZO
 K7ZZ Memorial

World—3.7 MHz

Jerzy Smoczyk, SP3GEM
 Donor: Fred Capossela, K6SSS

World—1.8 MHz

Yuri Blanarovich, VX3BMV/1
 Donor: Robert Wruble, W7GG

USA—28 MHz

Chuck Dietz, KZ5MM
 Donor: Donald Thomas, N6DT

USA—21 MHz

Russell S. Rinn, N5LT
 Donor: Bill Gioia, K2EK

USA—14 MHz

Scott Detloff, K8DX
 Donor: Southern California DX Club

USA—7 MHz

Larry Pace, N7DD
 Donor: Stanley Cohen, WD8QDQ

USA—3.7 MHz

Robert Ferrero, W6RJ
 Donor: Arnold Tamchin, W2HCW

USA—1.8 MHz

K8MK (Opr. Pat Collins, K8LR)
 Donor: CQ Magazine

Carib./C.A. (21 MHz)

V47NS (Opr. Michael Treister, W9NY)
 Donor: Snake River Contest Club

Europe—28 MHz

9H0A (Opr. G. Morris, 9H1EL)
 Donor: Chod Harris, VP2ML

Europe—21 MHz

406A (Opr. Ranko Boca, YT6A)
 Donor: Tine Brajnik, S50A

Europe—14 MHz

IR4T (Opr. Fabio Ern Schettino, I4UFH)
 Donor: A.G. Anderson, GM3BCL

Europe—7MHz

Jiri Sanda, OK1RI
 Donor: Roger Burt, N4ZC

Europe—3.8 MHz

IR4T (Opr. Maurizio Panicara, I4JMY)
 Donor: Marconi Contest Club
 I3MAU Memorial

Europe—1.8 MHz

Ceho Dusan, YU1EA
 Donor: Robert Kasca, S53R

Japan—21 MHz

Ooshika Tarou, JI2UNR
 Donor: DX Family Foundation

Japan—14 MHz

Tom A. Tatomi, JA5OVU
 Donor: Take Yokoyama, JL1BLW

MULTI-OPERATOR SINGLE TRANSMITTER

World

ZX0F (Oprs: N6KT, N5FA, ZP5JCY)
 Donor: Southern California DX Club
 W6AM Memorial

U.S.A.

W2A (Oprs: W2XX, N2TX, KE2NL, K2UU)
 Donor: Carolina DX Association

Calib./C.A.

8P9Z (Oprs: K3KG, K3ZR, K4FJ)
 Donor: Eric Scace, K3NA

Asia

P3A (Oprs: RA9JX, RA9JR, RA0AM, RV0AR, UN7FZ, UA9MA, UA0ANW, UA0AGI, RZ3TX, UA3TT, UA9YAB)
 Donor: Edward L. Campbell, AH2BE

Europe

IQ4A (Oprs: I4VEQ, I4TJE, I4EAT, I4AVG, I4IKW, I4IND, I4YRW, I4K4DCT, I4K4MGP, I4K4QJH, I4K4EWK, I4K4XQH, I4K4CFZ, I4K2NCJ, I4K2JUB, I4K2MRZ, I4W4ANU)
 Donor: Bob Cox, K3EST

Oceania

NH2C (Oprs: JG3RPL, JR3RVO, JI3ERV, JR7OMD, JK3GAD, JH7QXJ)
 Donor: Junichi Tanaka, JH4RHF

South America

HC8N (Oprs: N5KO, AG9A, HC10T, VE3EJ)
 Donor: Jerry Boyd, K6BZ

South America—Mainland

ZW5B (Oprs: PY5EG, PY5CC, PY5GU, PY1KN, PY2BW)
 Donor: Tomas Zappini, ZP5AZL,
 & Renato Bellucci, ZP5XF

MULTI-OPERATOR MULTI-TRANSMITTER

World

PJ9B (Ops: WA3LRO, N3ED, K1DG, K3EST, KB2XZ, N4RV, N3BB, N7ZZ, K2SB, W3UM)
 Donor: W6NL and K6BL

U.S.A.

N2RM (Ops: N2RM, N2NT, N2AA, N7BG, N2NC, W2RQ, N2NL, KQ2M, K2BM)
 Donor: Paul Hellenberg, W9JA

Europe

TK5NN (Ops: TK5NN, TK5EP, TK5MH, TK1BI, DL4RDJ, DJ10J, DL4GBA, DL4MDO, DK6WL, DK4VW, DK8FD, DL4MCF, DL1MAJ, DL6RAI, DL3MAA)
 Donor: Finnish Amateur Radio League

Japan

JH5ZJS (Ops: JA5BJC, JA5FDJ, JA5JCC, JA5THU, JH5RXS, JR5JQA, JR5PDX, JR5VHU)
 Donor: Ryozyo Goto, JH3JYS

CONTEST EXPEDITIONS

World Single Operator

V8EA (Opr. Hajime Kato, JO1RUR)
 Donor: National Capital DX Assn.
 Stuart Meyer, W2GHK Memorial

World Multi-Single

IH9/OL5Y (Oprs: OK1FUA, OK1MM, OK2ZW, OK1JR, OK2XTE, IT9HBT)
 Donor: The German CDXG & SDXG
 DJ3NG & DJ4EI Memorial

World Multi-Operator

P29AS (Ops: P29AS, AB6BH, N6AA, N6TW, N6ZZ, W6XD)
 Donor: Tachio Yuasa, JA9VDA

SPECIAL SINGLE OPERATOR AWARDS

World—All Band Under 21 Years Old
RK9CWW (Opr. Andy Chepurnoy, RA9CKQ)
 Donor: Gene Zimmerman, W3ZZ

World All Band High YL

Emily Thiel, P43E
 Donor: Yutaka Tanaka, JH3DPB

TOP SCORES IN VERY ACTIVE ZONES

ZONE 3

W7AT	1,965,258
K6NA	1,827,118
K6GX	1,518,066
W7VJ	1,456,618
W6NL	1,335,176
N7TT	1,227,096
N6RV	802,256
*WA7BNM/6	655,308
W7OM	654,720
W7SE	579,576

ZONE 4

VE3EJ	8,240,550
W9RE	2,941,546
WB9Z	2,426,580
N2IC/Ø	2,418,327
K4AB	2,320,886
VX3AT	1,853,816
K8LN	1,216,626
K9GD	1,138,860
NN5ZZ	1,066,965
K9BGL	1,047,489

ZONE 5

K5ZD/1	5,494,655
N6BV/1	4,057,986
W4AN	3,492,160
K3ZO	3,466,918
VO1MP	3,456,300
K4ZW	3,205,420
W3BGN	3,130,400
W1WEF	2,415,943
K2DM	2,138,030
VE1JX	2,137,448

ZONE 14

GW4BLE	3,656,088
DL6FBL	3,630,750
EA3NY	3,503,424
EA4KD	3,255,828
DL2NBU	3,118,432

DJ4PT	3,023,258
*EA7WA	2,118,914
EA7BA	1,606,452
DJ6QT	1,515,220
F5RZJ	1,435,760

ZONE 15

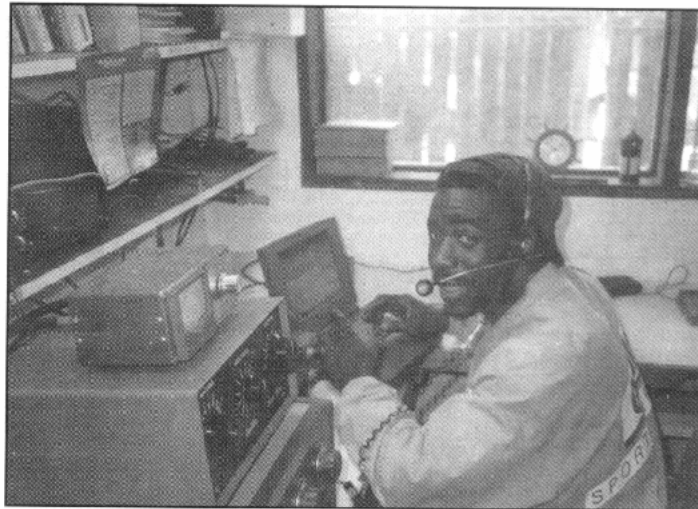
4N9BW	4,985,601
S59ZA	3,529,260
YT1AD	3,466,420
YT1BB	3,402,686
OF1MM	2,221,450
OHØTA	2,142,855
4O6A	1,980,046
HA6NF	1,912,448
IK4ADE	1,560,320
*LY3BA	1,465,440

ZONE 16

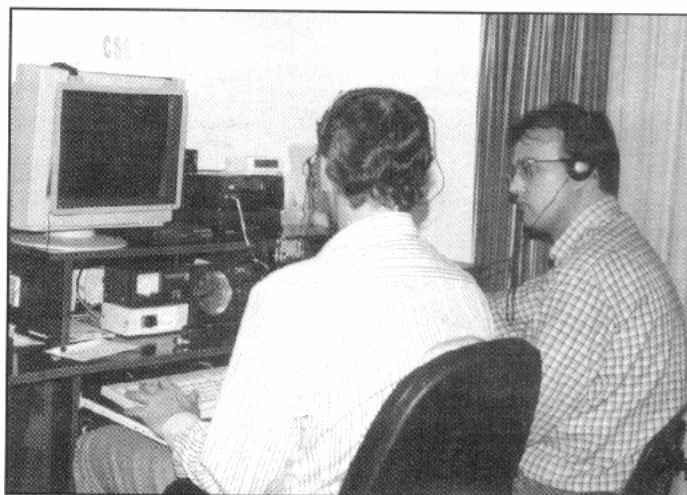
UT4UZ	3,012,455
RN6BY	2,972,270
UTØD	2,472,666
UA6LU	1,448,568
UT3UZ	953,130
*RA3WA	753,543
*ER5DX	733,912
RX3APM	721,544
*UT5UAG	700,344
EO6F	640,003

ZONE 25

JH4UYB	3,146,862
JAØQNJ	3,044,100
JA8RWU	1,735,536
JS3CTQ	1,361,600
JH7XGN	1,173,496
JA7BEW	1,102,635
JA5OVU	816,860
JA2BNN	797,130
JF1OPL	793,557
JH4ADK	706,318



Anthony, NP2Q, was a Low Power leader.



Part of the CS6S Multi-Single team: CT1ERK (left) and CT1ETE.

In the U.S., KS1L piled up the QSOs to compensate for N3AD's higher multiplier and topped the field. N3AD, in turn, outran fellow FRCer and multiplier leader K3WW. We note that VK5GN entered this category from Down Under, the largest ever VK entry.

Our log-checking found several instances where Single-Op Unlimited stations lost points because QSOs were logged on the wrong band. Apparently, some two-radio users lost track of their band changes at times. Others lost QSOs (and often multipliers) by grabbing packet announcements and logging the announced callsign without listening to verify the call. Some of the packet announcements are not accurate, so it is the operator's responsibility to find out who he is really working!

Multi-Single

It was the battle of the equator: ZXØF and HC8N. Both were manned by superb operators. Both had visits from Murphy. Between them they worked 17,100+ stations! Not bad for only two run stations. Multipliers made the difference, with ZXØF taking the crown. The third South American score was ZW5B operating from their new QTH.

Using their special event call for all it was

worth, W2A of the YCCC beat out the experienced crew of the FRC, N2NU. I'd bet they had to say "Only W2A" many times! Farther west two zone 4 crews made the top six box. That is quite an accomplishment. W9JA (ex-KS9K) located near the center of the black hole in WI took the #4 slot, while the fine crew of K4ISV made KY proud.

Europe is a very competitive place when it comes to the MS category. Repeating as the number 1 score in Europe, the Monte Capra team of IQ4A used their fabulous location to best advantage. If you ever get a chance to visit Bologna, make sure you visit this fine crew. Second place went to the fine crew at TM2Y located at F6BEE's QTH.

Cyprus is proving to be a very popular destination for contest DXpeditions. A Russian and Kazakstani crew set up shop at P3A and finished third in the world and first in Asia. Second place in Asia went to the famous RZ9AZA, Chelyabinsk station.

Africa had three big DXpeditions: The winner was EA8ZS, a mostly Spanish crew, followed by CT3BX, a German team operating with CT3BX, and the Czech DXpedition to IH9/OL5Y.

Taking time off from busy work schedules in Japan, a JA team powered NH2C to top hon-

ors in Oceania. Second place went to FO8DX, a SCDXC team who left just before Hurricane Martin destroyed the QTH of FO5IW, where they had operated. We hope that Stan gets going again soon.

Multi-Multi

After the tower crew (two guys) had drunk 200 beers in 10 days, enough energy was developed to power PJ9B to the world top MM position. PJ9B is located on the beautiful island of Bonaire, about 10 miles from the nearest commercial power. Second place went to the FRC effort of V26B. Each year this group of guys gets together for the "big one." Only 158 QSOs behind PJ9B was the joint BCC and Corsican effort of TK5NN. This crew took top honors in Europe. A joint FRC and YCCC trip to Canada put CI9DH into world fifth place. Rounding out the top six was the crew from the SCCC. They decided to go to P29AS this time. They didn't count on dangerous situations. Walking to the antenna after dark was a risky business.

In the heavyweight class, the crew at N2RM showed up at Bob's summer cottage to return to their winning ways. There must be something about their QTH. Being on sandy soil and close to the ocean doesn't hurt. Getting closer

TOP SCORES

WORLD

SINGLE OPERATOR HIGH POWER

All Band

ZD8Z	13,971,308
EA8BH	13,885,330
P40W	12,894,570
3V8BB	8,314,695
VE3EJ	8,240,550
FG5BG	7,195,161
V8EA	6,941,985
P40E	6,673,944
5N0T	6,216,212
FR5DX	5,876,154

28 MHz

LU6ETB	1,340,880
AY7D	1,307,576
9X0A	1,290,753
5X4F	1,164,728
PP5UB	929,183
5B4MF	801,261

21 MHz

ZX5J	3,181,696
4O6A	1,980,046
5X1T	1,780,200
P43A	1,534,995
ZP5XF	1,492,452
II3T	1,375,429

14 MHz

5B4AGC	2,140,790
8R1K	1,844,468
9M8R	1,339,743
IR4T	1,272,200
M7Z	1,225,810
YW1A	1,168,252

7 MHz

IG9GSF	1,249,236
OK1RI	769,602
9Y4VU	583,737
HA3O	580,620
HA9RE	391,926
IR1A	373,293

3.7 MHz

SP3GEM	244,325
IG9EQO	228,047
IR4T	213,576
VX3BY	208,872
OM2TW	156,456
G3WGN	143,840

1.8 MHz

VX3BMV/1	132,890
YU1EA	68,886
SV8CS	63,140
UA2FJ	62,352
SM6DOI	55,420
S50C	52,487

LOW POWER

All Band

TI1C	7,379,253
HC5C	4,401,621
VP9ID	3,201,342
OD5NJ	2,851,836
LQ0N	2,453,047
EA7WA	2,118,914
TR8IG	1,960,452
LY3BA	1,465,440
4M5E	1,354,314
TM6A	1,276,290

28 MHz

LU3HYS	665,611
LU3MDO	621,034
PU2RUX	608,328
LU4DX	602,924
AZ9W	564,696
LU7HTJ	492,026

21 MHz

UA4LCQ	573,363
CN8NK	590,070
9G1BJ	504,575
UA4POL	463,298
LU7FJD	443,065
UN5PR	415,982

14 MHz

IT9STX	659,175
HA5BSW	577,643
ES2RJ	466,830
YO4GAO	465,408
LS9F	449,352
IQ7A	431,346

7 MHz

XM7A	289,556
CT1AOZ	176,001
YY5OHI	154,117
U5WF	79,123
UR7TZ	63,452
S54A	62,318

3.7 MHz

4L5O	79,205
Z39Z	67,451
S51TA	62,926
9A4RU	54,666
S50Q	46,512
IQ5Q	37,268

1.8 MHz

HA8BE	27,128
S54E	28,458
ES6MO	18,288
UU4JMG	17,785
PA2SWL	14,158
YU1RA	8,379

QRP

All Band

YU1KN	370,590
KH6/NOKE	301,266
KD2TT	299,460
YU1LM	178,401
S59D	154,365
N7VY	126,198
W6YJ	102,340
N9SXT	96,425
N8XA	95,025
SM3CCT	91,674

ASSISTED

All Band

TM2V	4,389,455
DL0WW	3,150,340
KS1L	3,024,912
N3AD	2,717,220
Z38G	2,553,040
K3WW	2,530,380
K3NZ	2,351,050
IK0HBN	2,026,296
N2MM	2,005,640
AA3B	1,973,412

MULTI-OPERATOR

SINGLE

TRANSMITTER

ZX0F	19,653,570
HC8N	18,251,755
P3A	16,143,795
EA8ZS	13,864,862
8P9Z	13,695,719
FS5PL	13,359,136

MULTI-OPERATOR

MULTI-TRANSMITTER

PJ9B	36,656,640
V26B	27,797,193
TK5NN	22,787,820
9A1A	18,156,595
CI9DH	16,832,893
P29AS	15,379,068

USA

SINGLE OPERATOR HIGH POWER

All Band

K5ZD/1	5,494,655
N6BV/1	4,057,986
W4AN	3,492,160
K3ZO	3,466,918
K4ZW	3,205,420
W3BGN	3,130,400
W9RE	2,941,546
WB9Z	2,426,580
N2IC/0	2,418,327
W1WEF	2,415,943

28 MHz

KZ5MM	208,102
W6AX	111,161
N4BP	106,288
W6YA	98,900
K4VUD	70,224
KF6JFG	44,616

21 MHz

N5LT	741,597
N4UK	582,552
WC4E	552,670
W5WUU	471,580
KC2X/4	469,560
K3ZJ/8	462,880

14 MHz

K8DX	698,828
K9JF/7	487,722
N3HBX	482,416
K0KX	430,760
W9IW	383,239
W0UN	315,392

7 MHz

N7DD	302,085
N3RS	185,020
KV0Q	136,686
NJ6D/7	129,136
KD9ST	70,180
N8XA	95,025
K2WE	64,698

3.7 MHz

W6RJ	121,068
N2KK/6	96,253
W4DC	32,532
N6AR/4	27,887
W8UVZ	19,544
W2LU	17,181

1.8 MHz

K8MK	20,605
K1VW	7,497
W2VO	6,783
KN2T	3,772
AA4MM	2,905
AD4Z	1,652

LOW POWER

All Band

WA1S	1,017,978
WD5K	986,850
K2AZ	976,740
KC5WCO	957,229
KQ3V	807,500
WO4O	791,895
N4DL	785,997
WS1A	696,850
N9VVV	656,370
WA7BNM/6	655,308

28 MHz

KC3PZ	90,735
A12C/4	73,872
WB2BZ/R/3	49,484
WB4HFL	35,250
K7CK	35,108
W3EP/1	35,062

21 MHz

K4SN	143,112
KB8IRS	108,585
WA1FCN	99,015
KF8K	96,158
K6RO	95,849
K1VSJ	84,700

14 MHz

N4MO	187,172
K1VUT	161,280
K2MFY	150,525
AA7UN	119,125
W7FP	113,152
WD4CNZ	88,068

7 MHz

KW4T	42,016
W0AH	26,640
WA4QDM	10,790

3.7 MHz

W1MK	3,485
KD5BXQ	1,860

QRP

All Band

KD2TT	299,460
N7VY	126,198
W6YJ	102,340
N9SXT	96,425
N8XA	95,025
WA8AGH	45,188
W3ECU	18,252

ASSISTED

All Band

KS1L	3,024,912
N3AD	2,717,220
K3WW	2,530,380
K3NZ	2,351,050
N2MM	2,005,640
AA3B	1,973,412
W2RE	1,915,461
K1MY	1,817,376
W1GD	1,744,284
K3ND	1,730,746

MULTI-OPERATOR

SINGLE

TRANSMITTER

W2A	5,960,728
N2NU	5,715,060
K1NG	4,965,840
W9JA	4,674,914
K2TR	4,332,042
K4ISV	4,179,770

MULTI-OPERATOR

MULTI-TRANSMITTER

N2RM	14,581,824
K3LR	13,866,204
KC1XX	13,311,886
W3LPL	12,525,218
K1KI	11,720,112
W1FJ	6,707,920

EUROPE

SINGLE OPERATOR HIGH POWER

All Band

4N9BW	4,985,601
GW4BLE	3,656,088
DL6FBL	3,630,750
S59ZA	3,529,260
EA3NY	3,503,424
YT1AD	3,466,420
YT1BB	3,402,686
EA4KD	3,255,828
DL2NBU	3,118,432
DJ4PT	3,023,258

14 MHz

IT9STX	659,175
HA5BSW	577,643
ES2RJ	466,830
YO4GAO	465,408
LS9F	449,352
IQ7A	431,346

7 MHz

CT1AOZ	176,001
U5WF	79,123
UR7TZ	63,452
S54A	62,318
UR6EA	54,845
T95A	41,949

3.7 MHz

Z39Z	67,451
S51TA	62,926
9A4RU	54,666
S50Q	46,512
IQ5Q	37,268
OM5KM	36,035

1.8 MHz

HA8BE	27,128
S54E	28,458
ES6MO	18,288
UU4JMG	17,785
PA2SWL	14,158
YU1RA	8,379

QRP

All Band

OK1RI	769,602
HA3O	580,620
HA9RE	391,926
IR1A	373,293
OY3JE	321,198
RW4AA	309,863

3.7 MHz

SP3GEM	244,325
IR4T	213,576
OM2TW	156,456
G3WGN	143,840
S50Y	134,472
ON5LL	118,772

1.8 MHz

YU1EA	68,886
SV8CS	63,140
UA2FJ	62,352
SM6DOI	55,420
S50C	52,487
S54DL	50,832

LOW POWER

All Band

EA7WA	2,118,914
LY3BA	1,465,440
TM6A	1,276,290
S57DX	1,137,600
LX1KC	1,02

BAND-BY BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
ZD8Z	33/9/11	96/19/49	394/30/80	1631/34/133	1956/34/140	2602/31/146
EA6BH	138/14/42	521/22/76	486/23/75	1372/37/133	2462/37/123	1539/32/116
P40W	139/11/27	416/19/73	684/22/79	1065/31/110	2303/33/115	2469/20/96
3V8BB	143/6/45	412/15/60	570/26/87	982/35/112	1563/33/103	1041/29/94
VE3EJ	211/12/20	649/20/75	835/26/106	1260/35/137	1661/34/135	232/20/65
FG5BG	111/1/26	381/16/62	1084/26/94	1467/32/88	1602/30/97	844/23/68
V8EA	3/3/3	216/22/48	909/30/66	999/33/77	196/30/79	1021/23/51
P40E	56/10/22	348/19/59	645/23/74	1472/32/95	1492/28/89	480/18/47
5N0T	1/1/1	25/10/18	617/23/68	1593/33/125	1110/30/106	862/24/85
FR5DX	3/3/3	89/14/15	172/25/39	1153/35/121	1237/30/96	1334/30/111

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	66/10/33	328/18/75	335/21/91	1299/37/1361009/30/113	100/18/53	
N6BV/1	30/8/20	218/16/64	199/21/75	1138/32/126	811/28/107	188/20/56
W4AN	18/8/13	95/14/49	227/24/72	961/33/120	845/31/132	147/18/46
K3ZO	17/5/13	137/12/52	229/22/84	672/33/105	1059/31/123	176/19/60
K4ZW	24/10/17	283/19/71	139/23/72	784/33/112	583/29/115	179/22/63
W3BGN	41/11/24	190/14/60	157/21/73	773/34/104	581/29/104	229/22/64
W9RE	23/9/15	96/15/45	168/24/77	729/37/129	880/32/119	206/20/55
WB9Z	36/12/22	215/22/60	151/24/73	429/29/91	653/29/111	211/18/58
N2IC/0	14/8/12	75/20/45	313/24/55	679/33/105	512/30/95	173/19/55
W1WEF	20/5/14	80/11/34	149/20/72	619/32/112	720/31/110	165/23/65

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

ZX0F	47/14/35	264/21/75	850/31/109	2440/39/151	3013/36/158	1540/30/130
HC8N	19/9/17	287/21/65	1342/28/100	1647/37/145	3334/33/145	1885/29/117
P3A	125/9/55	359/23/79	1260/31/115	2063/38/145	2372/35/138	1195/30/115
EA8ZS	65/11/40	499/17/75	1175/36/124	1130/37/155	2229/32/141	587/27/123
8P0Z	81/11/25	233/16/68	1375/29/107	1695/34/131	3194/33/135	1274/28/126
FS5PL	60/8/22	479/18/69	699/23/100	2114/37/152	2649/36/135	1947/28/108

USA MULTI-OPERATOR SINGLE TRANSMITTER

W2A	17/10/25	325/20/813	269/28/110	1215/39/149	895/34/150	140/23/88
N2NJ	36/10/37	334/23/84	207/20/107	1027/38/147	891/35/149	114/24/97
K1NG	22/11/30	218/20/77	239/28/110	877/37/144	769/34/152	198/23/94
W9JA	52/14/32	133/25/73	244/31/106	834/37/149	789/33/137	245/23/84
K2TR	33/12/32	225/22/82	147/27/102	1079/35/135	503/32/140	153/19/55
K4ISV	19/11/20	98/21/64	317/30/103	1097/38/145	535/31/139	200/24/85

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

PJ9B	360/15/38	1397/24/108	2034/32/124	4265/38/171	4697/37/159	2173/29/113
V26B	47/17/52	890/20/87	2384/30/118	4319/39/165	3843/35/157	1941/26/127
TK5NN	794/10/67	1691/24/104	3268/34/138	3947/39/160	3024/37/165	2044/31/126
9A1A	783/11/64	1235/22/94	2331/37/139	3367/39/166	2494/36/166	1423/32/135
C19DH	516/12/35	903/20/80	1262/27/105	3211/40/163	2889/33/146	895/21/99
P29AS	1/1/1	179/18/27	1358/35/87	2162/33/118	4044/36/118	1342/33/94

USA MULTI-OPERATOR MULTI-TRANSMITTER

N2RM	105/15/42	907/25/96	833/29/124	1996/39/171	2119/36/168	536/25/108
K3LR	199/17/44	1042/27/93	718/33/122	2187/39/177	1556/36/157	596/24/107
KC1XX	215/15/54	770/26/98	732/29/120	2027/39/173	1667/35/167	535/22/111
W3LPL	265/18/47	682/26/96	543/32/120	1892/38/172	1668/33/164	743/26/121
K1KI	148/14/45	638/25/99	482/31/116	2411/38/171	1116/32/154	454/24/103
W1FJ	69/12/39	501/22/89	307/25/107	1430/38/149	802/33/135	345/24/91

and closer was Tim, K3LR's team. The flagship station of the North Coast Contesters turns a lot of heads on Interstate 80. Third place went to the ever-growing station of Matt, KC1XX. They say you can see EI on a clear day from his highest tower (Hi!).

Team Contesting

Each year sees increasing interest in this fun category. This year 22 teams competed for top honors. A long supporter of this category, N6TJ went on the contest reflector and signed up enough members to form five teams! Neiger's Tigers #4 took top honors, averaging 11.1 million points each. This team really took the ball and ran to the goal. Once again the real battle was for second place. When all the scores were tabulated, Neiger's Tigers #2 edged out Team Nippon.

If this category gets much bigger, there could be various categories of teams: All Band, Single Band, Low Power. There are already such teams in this year's listings. All teams are to be congratulated.

New Records, Special Mention

World: 7 MHz IG9GSF (IT9GSF), LA T11C (T12CF), Q14 RW9AB, A7 DL4NAC, A3.7 DL8OH; **Africa:** 7 IG9GSF (IT9GSF); **Asia:** 14 5B4AGC, L3.7 4L5O, Q14 RW9AB, MS P3A; **Europe:** 21 4O6A (YT6A); **N. America:** 1.8 VX3BMV/1, LA T11C (T12CF), Q7 KR2Q, Q3.7 NC6M (W6REC), A1.8 W4DR; **USA:** Q7 KR2Q, Q3.7 NC6M (W6REC), A1.8 W4DR; **Oceania:** 14 9M8R (W7EJ), L7 YC8UYB, QA KH6/N0KE, Q7 KH6/W8QZA; **S. America:** 21 ZX5J (PP5JR), LA HC5C (W5AJ), L28 LU3HYS, A21 LW1ECO.



Sh. Gankhuyag (left) watches JT1BV dig out a weak one.

Take a look at the entries from Aruba. It looks like these enthusiastic contesters are making a name for themselves. One of their group, Emily, P43E, was the world high YL score. The entry of 5A1A is a welcome sign. The CQ WW hopes for his and other 5As entries in the future. When was the last time you worked three 5X stations in a single weekend? The UN crew of SM7PKK (5X1Z) and ON6TT (5X1T) were joined by Paul, 5X4F, to make zone 37 a lot easier to work.

Comments

A. Big Numbers: The 1997 CQ WW Contests were big ones in every sense. Over 6700 total

logs were received! That number is the largest in CQ WW history, setting submission records on both modes. About 3400 entrants submitted logs electronic in nature. Electronic submissions are what we want and they make the post-contest process easier for you. The easiest way for you to submit a log is via e-mail. Please send SSB logs to <ssb@cqww.com>. You will receive a robotic response and a personalized access code. Keep a record of your code so that you can view your log and its analysis. For complete details on how to submit your log electronically, look at the rules in this issue or our WWW site at <cqww.com>.

B. Log Analysis: Besides the number of

TEAM CONTESTING

1. **Neiger's Tigers #4:** 55,665,702. By EA8BH (OH2BH), P40E (CT1BOH), P40W (W2GD), VE3EJ (N5TJ), ZD8Z (N6TJ).
2. **Neiger's Tigers #2:** 19,502,270. By GW4BLE, HC5C (W5AJ), YB1AQS. 5X1Z (SM7PKK), UT4UZ.
3. **Team Nippon:** 19,234,163. By 3DA5A (JM1CAX), 6Y6A (JE3MAS), FG5BG (JF2DQJ), JA0QNJ, V8EA (JO1RUR).
4. **Yugoslavian Team #1:** 15,777,018. By YT1AD, YT1BB, 3V8BB, V29NR (YU1NR).
5. **Team Aruba:** 9,749,256. By P43W, P43A, P43T, P43E, P40E (CT1BOH)
6. **Neiger's Tigers #1:** 8,683,774. By W7WHY, N6BV/1, K6NA, N7NG, W6XR/2.
7. **Neiger's Tigers #5:** 7,501,732. By W6RJ, 8R1K (N5Z0), WB9Z, V47KP (W2OX)
8. **Team Canada #1:** 4,931,978. By VE5MX, VE3FU, VE2QRZ (WB2K).
9. **Contest Club Finland:** 4,757,935. By BY1QH (OH2PM), CP6AA (OH0XX), OF1MM, OH0TA (OH2TA).
10. **Neiger's Tigers #3:** 4,743,222. By W1WEF, CT1ELP, 8P6CV, 5X1T (ON6TT).
11. **Yugoslavian "Single Band" Team:** 2,419,654. By 4N7B, YU1ZZ, YZ1AU, YU1JW.
12. **Great White North DX eh?:** 1,494,336. By VE2ZP, VX5FX, VE6BMX, VD3MG.
13. **Hanging Judge Contest Team:** 1,156,417. By AB5SE, K5OY, K5YRZ, KG5NE, KK5NO.
14. **Team Tennessee LP:** 1,071,686. By AE4ZZ, KE4KMG, KE4YBS, NY4T, WO4O.
15. **West Island DX Group:** 874,037. By VE2OL, VE2AYU, VE2TBH.
16. **Tupy DX Group #1:** 851,376. By PU2MHB, PY2NY, PY2XW.
17. **Team No. 13:** 698,329. By EA1FAK, EA1BLI, EA1OT, EA1JE, EA1MK.
18. **Tupy DX Group #2:** 586,349. By PY2APQ, PY2DUN, PU2VJJ, PY2IQ, PT2AW.
19. **Team Canada Single Banders:** 575,437. By VX6JY, VX3BMV/1, VE1JF, VE4VV
20. **Team Tennessee HP:** 508,454. By K4AMC, N4ZZ, W4PA, WD4K, W9WI.
21. **Yugoslavian "Low Band" Team:** 77,265. By YU1EA, YU1RA.
22. **Catalonian Team:** 59,521. By EA3AML, EA3AVP.

logs received, the 1997 tests brought a long-time CQ WW Committee dream to fruition. The WWW allowed us to archive all the electronic logs and their analyses. Using an access code, each entrant could privately view their log and "UBN" report. Although the report shows more than UBN (acronym for "Unique, Bad, Not in log"), it serves as a simple way for each entrant to locate areas for contesting improvement. The report is especially useful to multi-operator stations. If they keep track of when their operators log on, they can help inexperienced operators improve. Fun and improvement is what it is all about.

The UBNS were devised years ago to help the CQ WW get a handle on the reliability of top-scoring logs. If a top log had a UBN% much higher than the average for its category, it acted as a flag for further research on that log. The research required laborious human intervention. The log-checking process has progressed remarkably since those early days. Now a computer can rescore all electronic logs using the same .CTY file. Following strict rules of what can be removed from a log, the computer provides a conservative analysis that you see in your WWW file.

In 1997 it became feasible for the first time to incorporate all electronic scored logs into the final results. What this means is about 50% of the results that you see on these pages were evaluated, a process considered impossible just a few years ago.

Many of the top scorers in the CQ WW Contests have long known about the UBN report, and their reports have been supplied to them on request since the early 1990s. This process is now very visible to all levels of contesters. So what should you make of the report that you receive? In a rough sense, you can view your score retention as a "grade," just like when you were in school. That 90-100 was an "A," 80-89 was a "B," etc. You can use the data provided to see if there are any patterns. I found that at PJ9B I would make copying errors on SSB with K and KA stations. So now I always say the prefix phonetically to avoid an error.

The strong words we have received from contesters everywhere are "Thanks for this service. I can see how to improve." And that, after all, is the whole idea—to improve your skill.

C. Packet: The use of packet is perfectly okay for those who claim Assisted or Multi-Operator. Any use of packet in any other category is wrong. If you are going to enter the HP, LP, or QRP categories, you cannot receive any packet help. If you want to try to work some new DX countries, packet is an easy way to do it. Just claim Assisted. A serious problem occurs when nine of the top scores in a category play by the rules and one decides to cheat. It is not fair or right that the entrant be entered into the same category as the others.

D. QTH Rule: It has come to the attention of the CQ WW Committee that several MS and MM stations are violating rule III, which states, "Transmitters and receivers must be located within a 500 meter diameter circle or within the station licensee's address, whichever is greater." This means that you cannot run 20 meters 30 km away from 40 meters. The whole station must be within the limits of rule III. Of course, it is easier to avoid interference by placing 30 km between your stations. You might even be tempted to run two signals on the same band. Interference is a technical problem everyone must try to solve. Many stations have figured out QRM reduction methods within the rules.

Thanks

Thanks to the CQ WW log checkers who validated the winners and provided insight into many contesting topics. The 1998 crew includes: K1DG, K3UA, K3ZO, K6NA, KR2Q, N2AA, N2NC, N3ED, N3RA, N5NJ, N5TJ, N6ZZ, N8BJQ, N9RV, W2RQ, W3ZZ, and W7EJ. Our DX advisors were very helpful in offering advice, providing information, and sorting out potential problems. They are CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, HS0/G4UAV, I2UIY, JE1CKA, OH2KI, OH2MM, OK2FD, ON6TT, PY5EG, S5OA, SM3SGP, UA9BA, and VE3EJ.

A special thanks to Dick, N6AA, who again spent countless hours to make the CQ WW database the best in contesting. The CQ WW uses the software developed by Tree, N6TR, to create the database. John, K2MM, created the entire WWW log entry information. His robot worked smoothly in acknowledging receipt of a log. He also created the search engines utilized by Committee members to aid in log checking. Tack, JE1CKA, has created the appearance and non-log data on <cqww.com>. Translations of the rules into Spanish, Japanese, German, and French were done by EA3DU, JE1CKA, DL6RAI, and F6BEE. Larry, N6TW, was invaluable in retrieving and processing data from e-mail submissions. Thanks to John, VE3EJ, and his wife, Hazel, for proofreading the tables shown in these results. John, W0UN's help has allowed the CQ WW to modernize its certificate program. Thanks to John, K1AR, for his advice and hard work to make the CQ WW so successful.

Congratulations to all the winners! Try to get a fellow contester on for a local, friendly competition. To participate is what contesting is all about! CU in '98!

73, Bob, K3EST

DX QRM

I operated from the top of a mountain which was about 950 meters above the sea!... JH6RFT/1. Zat Zat two Zat QRZat... I really need a DVP... ZZZZ (PY2YP). My first international DX contest. Will be back next year... YC2ERL. I operated from my driving seat 1 mile from house in a disused airfield to avoid QRM and TVI... G3TVU/m. I developed my own contest software and it works great! I'm very happy to enter the contest. It was cool!... XE1NAD. My 49th CQWW and still enjoying it!... GM3BCL. My first CQWW was in 1956. We worked from the club station UA1KBB using AM! Old timers remember the 1958-59 years with SF# up to 200! I was UW1BM for 30 years... U1BA. My first CQ WW! It was fantastic... PY8MD. Great! My second child was born during the contest—a boy!... YB2BRW. I'm glad to listen in the contest. I'm glad to read CQ Contest magazine!... RV3BR.

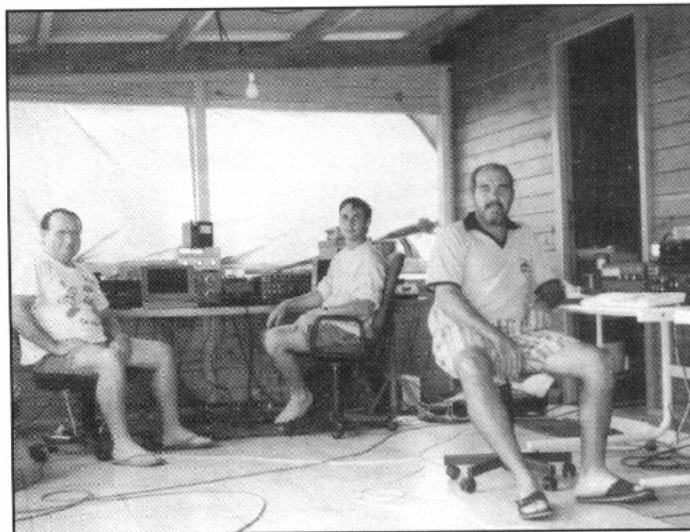
First day 3316 QSOs. The record was in my hands. Second day bad propagation and the record returns to ZD8Z's hands... ZX5J (PP5JR). Was out of country on business. Only 7 hours operating time... S5OA. The CQ WW is still the most exciting operating activity to work the world. After 32 years as a radio amateur, I'm still thrilled by the enthusiasm it brings to me personally and to thousands of others, too... VX3XN. Great fun after many years of QRT... IT9WPO. It was exiting for me that I could contact more than 60 stations with my bare-foot radio system... JA9SCB. First time to operate from two DXCC countries in a contest (3DA5A and ZS6)... ZS6CAX (JM1CAX). Conditions unacceptable! No way to get 12 hrs operating time with no sigs... KH6CC. I am a beginner at WWDX Contest. I specialize in domestic contests only... JF2FIU. This was my first time to be shown "300/hr" on the last 10 min rate of CT... JR4PMX/1. After a short 10m opening into the US and SA nearly all was dead by 9AM Sat... YB1AQS.

Nice to hear bands start to open. Even 28 was boiling from time to time... SM0AJV. Almost as good as a full course meal with high power! Condx much better on the high bands. The EU crowd has gotten mighty unruly and many times the "last two" syndrome was overwhelming... VP9ID (AJ2U). First time in any HF contest. Next will be on top. Hi... S53AJL. We had a lot of fun during the time in the contest. Our plane left about 7 hours before the end. Too bad. But after all, what matters is that we enjoyed our stay in Cozumel Island... XF3/EA3BT. It was my first SSB on 40m. It was very hard work. I had a lot of fun!... SP4EEZ. First time low power. Quite a different job! Great contest... S53ZO. Very good propagation the first night on 160. Very bad the next day—only 9 stations all night... YV2IF. Wow! Great experience, bad antenna, big fun!... IT9ZYT. Last time I did this contest was 1962 as 5B4AB. What a difference!... G3LOJ.

Nevezukha (Russian equivalent of Mr. Murphy) came again. There was an electric power failure the first 4 hours of the contest, then after 1.5 hours my new

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	KL7AC	339,850	21	9K2HN	4,459,463
2	VE2QRZ	3,180,810	22	AT0MB	1,085,352
3	W7AT	1,961,874	23	JT1CO	333,108
4	VE3EJ	8,240,550	24	BD4DW	153,450
5	K5ZD/1	5,944,655	25	JH4UYB	3,146,862
6	XE1NAD	561,484	26	HS0GBI	17,091
7	T11C	7,379,253	27	WH0AAV	906,660
8	FG5BG	7,195,161	28	V8EA	6,941,985
9	PA0W	12,894,570	29	VK6WJH	49,217
10	HC5C	4,401,621	30	VK2ARJ	969,465
11	ZX5J	3,181,696	31	NH7A	4,477,494
12	CE8T	5,653,488	32	ZL4AS	462,000
13	LQ0N	2,453,047	33	EA8BH	13,885,330
14	GW4BLE	3,656,088	34	5A1A	253,162
15	4N9BW	4,985,601	35	5N0T	6,216,212
16	UT4UZ	3,012,455	36	ZD8Z	13,971,308
17	RA0CWW	1,997,504	37	5X1Z	4,900,518
18	UA0WY	936,180	38	ZS6BXN	1,067,566
19	RA0FW	2,237,634	39	FR5DX	5,876,154
20	JY9QJ	3,147,376	40	TF/OZ5IPA	39,786



FK8GM (left to right): Alain, FK8FI, Franck, FK8HC, and Eric, FK8GM.

PA blew up. So I lost about 12 hours... UA1OMS. Our first challenge for the CQ WW using our old call sign. We enjoyed so much and will be back next year with many friendship... JA6ZPR. We lost the best DX band—21 MHz—due to failure of our transceiver... SP9KRT. Due to an important meeting on Monday I had to QRT at 14Z Sunday. But sure enjoyed the new sunspot beginnings... JA8RWU. Not a single JA or North American station worked. Incredible!... 9G1YR. No, my call is not VE2; it's VE2QRZ! And yes, it's snowing... VE2QRZ (WB2K). It was a real big fun! "Serious" contesting is fun. Even though you ain't gonna be the winner (Willy Umanets, UA9BA)... TA2KB. Unbelievable what you can work with only 100w... OE2S (OE2GEN). My ant does work for EU but not for DX... OE9MON. Best contest ever for these new kids on the block... V26B. The worst propagation in Finland in years. It was painful to see other comments about FB condx... OF1AF. When the VK2 told me after 2 hours they had 170 Qs on 10m, I felt really bad. However, when the going gets tough, the tough get going, and I just kept plugging away. I pulled back their lead with good runs on 15m... VK5GN.

Was nice having PJ9B call me for a change!... VR97BG. First time MM in CQ WW. Thanks to our special guest star Dan, LY1DS... OH2HE. First time on 40m SSB single band... OK1RI. Gee, I wish I had checked my amp before the test. If I had known I had one dead tube, I would have officially declared low power... VE2ZP. Very nice to compete again! A perfect contest... P43A. After a few of our antennas were stolen, we had to improvise a bit. The best contest we had for years in terms of contest spirit... PI4COM. The CQ WW provides two days with plenty of emotion where I could work new countries... PY2DJ. This was my 439th contest!... VK2APK. It was very difficult to get zones 8 and 9... JE2LUN. Ban all Europeans... except GM... GM4CUX. Last time I submitted an entry was as ZC4AK in 1960. That was a Royal Air Force Club Station operated by myself, ZC4AB, and Steve, G3MBS. Next time I tried was as ZC4AB in 1962. However, I was also getting ready to return to England and the logs were accidentally stowed in my deep-sea baggage. My next attempt was from Ghana as 9G1FB in 1964. The result was so pitiful I just did not have the heart to submit the logs. All the rigs were "Home Brew" then, and, in Ghana, I was a little restricted! I was crystal controlled and only had two crystals to shift frequency if I thought I was getting popular. Ah! Halcyon Days. This attempt comes after being 20 yrs QRT!... G3LOJ. 10m finally came alive!... VA3SK.

Once again the air was alive with the sound of heavenly music—wall to wall propagation! A Great Contest!... VK2ARJ. Nice to operate from FP during the contest. Would like to thank the local ham radio group from FP with our travels concerning our DXpedition... FP/KG8CO. Condx on 10 and 15 were FB! First time in CQ WW was in 1972—25 years!... OZ6PI. We had big problems with the coax cables. This contest was the first one for most of the operators... TX8KAB. I was working the contest from the mountain, Rogla (1550m ASL) on the lonely TV tower... S51TA.

To work a Hanoi station in the SWedish embassy... KH6BZF. The combination of difficult band conditions, meager antennas, and being in old England instead of New England made this contest a real slog! I still had a great time... G0UHK. This was my first CQWW and I worked some difficult zones and new countries. The conditions were very good to JA... PY3RK. Mni new band countries for me; it is a very long month to the CQWW CW. Hi!... OK1DWC. The CQ WW is the biggest contest in the amateur radio world... PY1ZT. My first contest entry. I hope for better results in the next contest... Z31RB.

We had a lot of fun but were tired at the end. Need more operators next time... VK4DZ. I would like to express my thanks to the 13 North American stations who showed great patience in making a QSO with my low power station on 80 meters. As a show of thanks I have now bought an amplifier and will use it in the next contest... OZ2ZZZ. Sometimes we have to resign ourselves to fate, QRP... Let's have some fun!... JA5GPI. It was my second CQWW. I enjoyed it very much... 7K4XVK. Very good conditions to the south on 10... UA0SR. I had more dupes than multipliers! But I enjoyed the contest; aloha & mahalo to all... KH6FKG. 5A1A called me on 20!... ZF2AH. Was a wonderful contest. I worked 33 zones with my 4-el... RZ6HX. It was a pleasure to take part in this contest for the first time... TA2IJ. JA2RL/2 is the JARL HQ station that was briefly on the air at Mie prefectural local meeting demonstrating the CQ WW Contest to beginners... JA2PL/2. My first participation in the CQ WW with my new 40m 3-el beam. Much fun!... OE3WMM. This was my first contest (my license is brand new) and I enjoyed it very much... XE2AUB. This is my first DX contest. I felt that the world was small, speaking with various countries and operators... 7M1QYH.

High bands is VY FB. Low power and whip makes a good job!... JA1SKY. It was a thrill to have someone answer a CQ on 40m QRP, but that's what can happen with a better prefix... KH6/W8QZA. Great competition as always. Thanks to the new sunspot cycle I beat my personal best score... IK4QJM. My target was to try to win the CQWW on 10 meters by working from the central part of a 7 million inhabitant city. Tks to LU8AQE for the use of his fine station... AY7D (LU7DW). After many years we finally started and finished the contest with the runner station on 20m instead of 40m... IQ4A. Our first DX contest MS class outside of Japan... YN6WW. We are all high school students no more than 17 years old. We are the first time to take part in the CQWW contest... BY5QN. They don't call it the big one for nothing—it is the best contest of all... CT1ELP. While having power shortages we had to switch off all not needed devices to continue operating. We have to thank our host CT3BX, Hern... CT3BX. Quite a difference between 7081/1960 and DL in 1997, so CU in 1998 from OE or... DJ0FX (OE2VEL). I like contests... JH0FWV. Excellent contest. Many new countries for me. Wish HC8, S50 turned their antennas south!... VK4MOJ. This was my first international DX contest ever! Very pleasant... CX9BAG.

It was great to work several YL operators—refresh-

ing to see their increased participation... VE3HX. Due to a QRP alarm clock I gained some extra hours of sleep... DL2NBU. We calling in, all Ws only give their call-sign, nobody calls like "DL6FBL this K1XXX." That technique would be very useful on 40m split... DL6FBL. A lot of fun, many QSOs, low multipliers with my minimal two cp DXpedition... EA8/DL6MHW. This was my first serious attempt and I chose 10 meters. Sat was great condx but Sun was a washout as the wind blew and the QRN reached S5... 3DA0CA. Power supply blown by thunder storm just before the contest. Worked only JH7PKU with a car battery... 3DA5A (JM1CAX). Always a thrill to work DX on 10 meters. Thanks for giving a chance to compete against the best... 4Z5JA. My first CQWW since 3 years surely reminded me how much it brings out the best on the bands... 5X1T (ON6TT). Wow! What an activity on all bands... DL8ZAW. I managed 25 new band countries!... G0KRL. The CQ WW SSB contest is the only time the microphone is taken out its box... G3TXF.

First CQ WW from home QTH for nine years... G4BUO. Our first attempt at an international contest... GM0NTL. We will continue without a break our 3\$\$ year participation... HB9H. This was the third attempt to beat the world 40m record. I needed the 3-el to break it... IG9GSF (IT9GSF). First experience on African Italy. I need abetter antenna for 20. I broke my leg taking down antennas... IG9STG (IT9STG). My first DX contest DXpedition alone! Many thanks to LU8ERR and his family for their support... LW8XF (YL). Condx far better than last year. we set fire to the shack on Sunday morning!... M7P. Used KH6SQ for QRP. Never worked one European!... KH6/N0KE. Never recovered from the main generator and amp going out of service at the beginning of the contest... NH7A. Conditions on 10 and 15 were good. JAs were scarce this go around... KH7R. Big thanks to the Z30M team for the possibility to use their contest station... Z38G (OH3MIG). Never worked so many stations on 10m in one single weekend. Thank you CQ WW!... YO3JF. I enjoyed the best and biggest contest with a tiny antenna... 7N2UTO.

USA QRM

The CQ Contest Gods did it again. Great propagation. What is it going to be like at the solar flux maximum?... KS1L. Ten was open! N. Pole aurora stopped me from working Europeans on 20... KM7TM. First time entry! Indicator stopped, had to look where I was pointed... N4MXT. Ten minutes before the contest my G5RV blew down. It's a tradition!... KM6XX. Ten inches of rain, 5 times I had to completely disconnect everything, and 95% of the weekend was spent on the low antenna of the stacks due to rain static. This was not my weekend... W4AN. I am a quadriplegic. I use a VOX and computer logging with a Macintosh and Headmaster Plus "mouse"... K17LS. First CQ WW. Used this experience as a training ground... N14L.

Would have done much better had it not been for problems with the rig that forced us to run most of the contest with 20W out! We were delighted to have ET3AA and FP5AC call us and answer our 20W signal

... KV4T. Put a 80m 4-square up the month before the test. Elevated radials. It didn't work as well as I had hoped ... KQ3V. What a nice surprise—10m had early openings both mornings, just great, even though every QSO was S&P ... A12C/4. 10 meter mobiling in downstate Illinois with 25 watts I worked into FO and 9X (a new one) ... KB9CRY. Midwest snow storm forced us to use beverages on 20m due to precip noise. Also forced to battery power and still could not operate the last hour due to power outage ... N0MA. Biggest thrill was working ZD8Z 1st call on top band ... K6SE. The blizzard came. The main coax went. Reduced to a single band. But STILL fun! ... K0ZA. Only my second CQ WW SSB. I doubled my QSOs and tripled my points from last year ... N4BTO.

Fastest voice exchange ever heard award goes to HH2PK. Wow! ... N4CW. It's great to still feel the rush generated by the contest weekend ... N4KW. The European opening on 10 was a great surprise. It was the first time I had worked Europeans till 5PM! ... KC3PZ. Best outing ever! Nice to see 10m back ... K2CS. I was operating mobile using an ICOM 706 and Perth Outbacker. I feel pretty good about the results ... AETC/5. First contest by myself since 1983 when I was CN8CO. It sure was alot easier being DX ... W3EMH/4. Nice to see such wonderful condx. It has been a long time! ... WA2ASQ. Are the bands back or what?? QRP works! ... N7VY. This contest broke my 1995 record by 100 QSOs. We ended the contest with 148 QSOs which may not seem like much, but it was a big deal for me. I like to improve in contests and I achieved my goal ... N9YXA at W69L.

Very enjoyable contest. My first serious contest in many years. CQ WW is my favorite ... W8LRL. Played around a few hours. Nice to see the bands getting back in shape ... AE2T. Lots of fun. The first time I made a real effort to get on. Now is the time for improvements ... A4JY. This is my second CQWW and it could not have been greater ... K54YX. The best DX contest there is ... K2FR. Operated from a 40 acre spread 30 miles from my home QTH. I've been licensed 5 years and until this weekend never heard a ZS. Not only worked two but one called me! ... K5OY. Nothing broke. Working IH9/OL5Y on 15m! ... K6GT. First time DX contest effort for most of the crew. It was great fun to have JR1HAA and JJ1BMB visit for the weekend ... K6CC. Interesting that almost all the top scoring stations ID themselves after every QSO ... KA2CDJ. This was my second time working the contest and it was an absolute blast! ... KB4OGM. There was a huge pile-up for 5X1T that I couldn't crack so I went up the band and heard 5X1Z begging and I got him first call ... KC6X. I qualified for the worked all Argentina award ... KJ9C. Congrats to the "Old" Gang at K6IDX. Now we know who was beating us in pileups. We're not exactly spring chickens either except for KX7M ... KO6N (N6RO). My first CQ WW. I loved it! ... WB8STO.

All in all, this was a most excellent journey around the world in a weekend ... W04D. I thought that nobody would hear my little station. Although I didn't make a huge score, I was very pleased at the contacts that I made ... KQ6QW. First time low power in 17 years of contesting! ... N1TM. My first contest as a General after 29 years as a Tech. Heard 52 countries that I could not work. Will be back with bigger ants and higher class ticket ... N3GPU. Multiplier operator fell off the chair when KG4OD refused to work us and then announced "Full calls only" to the pile-up!! Had great fun with the call ... W2A. 15m was astounding! ... W4NC. It was very nice to work 5N0T on 40m without a gain antenna ... W6RCL. The highlight was when I worked a station in the Caribbean and he signed by saying "good luck on wite swap meet today" ... W6TRW. Am I the only one using a Macintosh for contest logging? ... W7BX. First contest! I've done in 35 years of hamming. 95 countries on a dipole! ... W2SSB.

Ignoring TZ6S1. And then realizing I needed him for a new country! ... W4UW. This was the first time I tried single band. It turned out to be as hard as I've ever worked in any contest. Tks! ... KQ6ES. Propagation was good on the first day. 21 MHz was fantastic! ... W6NVO. The bands were much better this year. 15 and 10 were virtual pipelines to South America and the Caribbean from my QTH ... KN7T. A great contest but a vertical and 100 watts makes for lots of calls and few returns ... W4ZYV. I enjoyed the contest from a portable location this year with only a couple hours operating time ... AA8UP. Good 15m opening to JA land the last hour of the contest! 3A/LX2A and 9U5CW called—Trn for the surprise! ... N4CTA. Great contest in spite of the early winter storm that dumped 4 inches of wet snow on leaf laden trees causing numerous power outages. Low bands were quite noisy, but 10m was looking good ... NR0X. It was really great to make so many phone QSOs in a couple of hours. Glad 15m is back

... KE9EX. QRP makes one humble ... NC6M (W6REC). My big thrill was working ZL1AA longpath on 15m and then 40 minutes later working him shortpath on 10m ... KR4CI. First time out in DX test with new call ... K3CV (ex-NX9T). Lost the amp about 2/3 of the way through the contest. I had lots of fun: hope to find time to do it again next year ... KA1EKR. Mother Nature shut down 80 and 160m again this year, but 10 and 15m came to life ... W5CWQ. What a joy to find 15m wide open ... N4UH. In the past, I've made a contest QSO here and there, but after 29 years as a ham, this was the first time I've actually spent the better part of a weekend on a contest. I had a blast. Worked a couple of new ones and look forward to doing it again. How do I get the callsigns to quit playing in my head? ... K5IQ.

Station Operators Multi-Op Single Transmitter

4G2X: 4F2IR, DU2BFG, 4F2MD, DU2BRL, DY2PTO, DU2RK, **6D2X:** K5T5O, W5VX, N5RZ, N5NYK, K5TR, XE2YNE, XE2XDX, XE2YNS, **7J1YAA/T:** 7J1ABD/WA6UFY, J11YJO, JF1NM, JA1FTC, J71AKH, **8P9Z:** K3KG, K3ZR, K4FJ, **9A5D:** 9A2FK, 9A3GA, 9A3YV, 9A3VM, 9A4KS, 9A4NC, 9A4MS, 9A4YN, 9A5AD, 9A5DU, 9A6KB, **9A7A:** 9A7V, 9A8A, 9A2ME, 9A30S, 9A3TR, 9A4FA, 9A4RX, **9A9D:** 9A4KK, 9A4DD, 9A4JL, 9A2QU, 9A5YA, 9A6KOS, 9A7GH, **9K9K:** 9K2RR, 9K2SS, 9K2RO, 9K2SD, 9K2QA, 9K2OK, 9K2HR, **4A7RS:** A41MC, A41LI, A41KW, A45N, G0MRF, G0ONA, **A41ON:** W1RH, **A4SNT:** W00T, K05ENC, AD4PU, KE4RHU, K8LTR, **C6LKL:** W7FF, **BY1BY:** BZ1LL, BZ1DG, BZ1LD, BZ1WY, BZ1YC, **BY4RSA:** BA4RC, B04RX, B04RF, B04RD, B04RE, B04RAD, **BY5ON:** Heng, San, Chen Xiang, Suming, Yanfang, Jipeng.

C6AJT: W4WX, KM4WE, W4USN, K4GZ, W4CJ, **C6BT:** C6ABF, C6BSFG, C6BCDV, C6BFSG, C6BGLQ, **C6S6:** CT1ERK, CT1ETE, **CT2FUR:** CT1DJS, CT1EGF, **CT3BX:** DK1RT, DK7YV, DL20BF, DL30DX, DL7BY, **DF0AT:** Club, **DF0DX:** DK5ON, DL1YAW, DF8AF, DL1YDI, DF8X, **DF0HE:** DF7ATW, DK1SAM, DL3SBI, DK7TL, DL5NAH, **DF3IAG/P:** DF2IAX, DF4IAO, **DKA0M:** DL3WV, DL2FDP, **DK0ER:** DL4NT, DL4NN, **DK4OT:** DK1OH, J07YP, DL1YFF, DL4YAJ, DL8YCF, DF9VJ, **DL0CR:** Club, **DL0GG:** DF8QB, DF6VP, DH3YMR, DL10W, DL8YBW, DL9YAJ, **DL0MBG:** Club, **DL0TD:** DG2FEF, DH5AE, DK1BN, JK5FJ, DK7WJ, DL1FDT, DL1FDV, DL2F6L, DL2FZN, DL2SEK, DL2ZNN, DL3NEK, DL4VBP, DL8AAU, **DL0TUD:** DL6DVJ, DL1DGY, DH5FS, **DL0UM:** DF5BM, DK7ZT, DL1EFD, DL1EFD, DL1FD, DL4FDT, DL4MFM, DL6BFC, **DL1MFL:** DF3CB, DL5JK, DL3NEK, DL4MEH, **DL100:** DL5LKT, DK2CY, **DL5NAM:** DL3NCI.

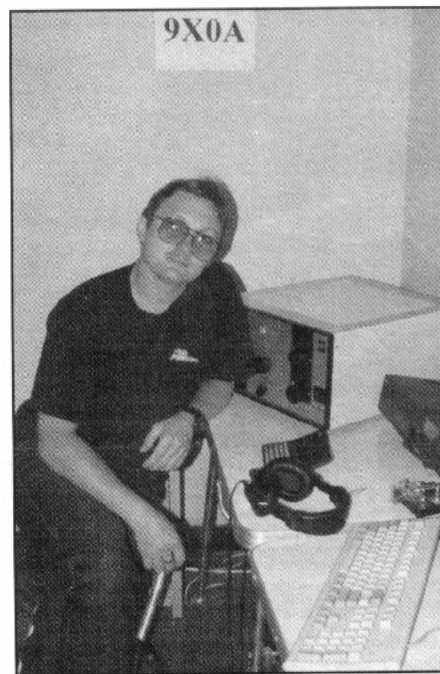
DX1E: 4F1EJD, DU1KOG, DY1FAN, DY1FDD, DY1RSM, DY1FYU, DY1OTJ, DU1MOA, DU1OOP, Richie, Eric, **DX1CW:** Club, **DX1S:** DU1KT, DU1GMO, **EA1BOI:** EA1CBX, EA1BK, **EA1COZ:** EA1EAG, EA1AS, **EA1EEY:** EA1CJB, EA1CS, EA1BXW, EC1/Diplomado n°ba 63514, **EA1FEF:** EA1ACP, EA1BFZ, EA1CMB, EA1FEL, **EA1RCT:** EA4AZU, EC1AOD, EB18AY, **EA3GW:** Others, **EA3KA:** EC3AJU, EC3ALS, EA3SD, **EA3RKG:** EA3BOW, EA3BOV, EA3DGO, EA3EJO, **EA5BY:** EA5BXT, EA5DE, EA5EU, EA5FI, EA5GR, EA5K, EA5KM, **EA5RS:** EA5KB, EA5CY, **EA7BJV:** EA7ESH, EC7AJL, **EA8/DL6MHW:** DL3ABL, **EA8ZS:** EA1AK, EA2DU, EA3KU, EA4DX, EA4KR, EA5GR, EA5AJE, K2SS, Alexis, **ED11:** Others, **ED2WV:** EA1HO, EA3MO, EA2ATJ, EA2CG, **ED3TR:** EA3BW, EA3CT, EA3KG, EA3WC, EA3JW, EA3GP, EA3GG, EA3GD, EC3CTR, FC3CVD, Julio, Santi, **ES5WVC:** EA5KQ, EA5OJ, EA5XN, **ESSQ:** ESSMO, ESSMG, ESSOY, ESSRN, ESSRP, ESSRW, ESSRY.

EW4JA: EU4UE, EU4AE, EU400A, **EX9A:** EX2M, EX0M, EX3W, EX8M, EX8F, EX8MIN, **F5KDC:** FB1NAN, F50KD, F5PAL, F8BVG, **F5SUL:** F50GG, **F6KWP:** F5RKL, F-11734, **F6KZD:** F5-N, F6FYX, F6EPN, F5I1D, F8AOF, F6IHY, F2NH, F5J1T, **F6KFC:** F6FNL, F6BNN, F6BGC, F5IQA, F5D1J, F6IFV, F5AVK, F61CF, F5UAM, FA1ITF, F1ADG, F58M, **F8KDH:** FS2TN, F6-SP, F1-G, **FM/K2PF:** KJ9C, **F80DX:** W6RW, W6KK, N6RT, N6VO, N7GQ, W8AF, **FPA5C/P:** F5P8I, F5P5B, F5P5C, **FR/K2RXY:** F5R5D, **G3TBK:** G0GDU, **G7B:** G4-00, G08VW, G8ATD, B1G5N, G4VXT, M0B1K, M1ACI, G4YRF, G3E0S, G4OXD, G7NB1, G6RH1, G0W1Z, M0AUF, G4LWA, **GM0NTL:** M1M1BG1, GM0C-LN, GM4UYZ, GM4IKU, M1M1BJ0, M1M1AW, **GW6GT:** CW3NWS, GW3KYA, GW4J30, GW5NF, G6MMAW, W0A1H, **H89H:** HB9CIP, HB9BLQ, HB9CAT, HB9CXZ, HB9FBD, HB9FBO, HB9FBG, HB9A5U, HB9YQ, HB9FAF.

H89OK: HB9FAQ, HB9FBM, HB9FBS, HB9B0A, HB9FBL, HB9D0D, HB9D0D, **H89N:** NSK0, AG9A, HC10T, VE3EJ, **HG1S:** HA1TJ, HA1DAE, HA1AH, HA1DAC, HA1BN, HG1DAI, **HG5C:** HA5LZ, HA5LV, HA5MA, HA5WE, dj David, **HL0D:** Kyungpook National University Students, **HS2YM:** HS2PF, HS2JFW, **IC8JAH:** IC8BNN, IC8SDI, IC8FAF, IC8CFM, I801S, S1FWT, IC8WB1, IC8W1C, IC8HW1, **IH9/OL5Y:** IK21FA, IK21MM, IK2ZJW, IK2JR, IK2KTE, I9THBT, **I2Y:** IK2W0Y, IK2FJA, IK2WBN, IK2PH1, I2Z2W, IK2ZDU, I2PHN, I2MWJ, **IK2UCK:** IK2BVF, IK2XYU, IK8PBM/2, I2SGF, **IK4BWC:** IK4MPC, IK4ROE, IK4HFL, IK4GND, **I02A:** IK2RZF, IK2HKT, IK2CIC, IK2ANI, I2IFT, IK2XRW, **I02L:** I2OKW, I2ACQ, I2ZAAJ, IK2PFL, IK2YXP, IK2YIE, IK2HAJ, IK2FS6, IK2HPI, **I02U:** IK2GZU, IK2G5N, IK2WAD, I2CZD, IK2SAU, IK2PUZ, IK2ZPJ, IAW2L.

I04A: I4VE0, I4TJE, I4EAI, I4YV, I4W1K, I4IND, I41RW, I4K4DT, IK4MGP, IK4QJH, IK4EWK, IK4XDH, IK4CFZ, IK2NCJ, IK2JUB, IK2MRZ, I4W4NU, **I92W:** I2EWC, I2VXJ, IK2CZH, IK2PZC, IK2QEI, IK4MTF, **I93PN:** I93J1J, I93XNF, I93SCR, I93NVB, I93NUR, I93ORB, I93VTJ, I93THL, **I97S:** I97YJA, I97JUN, **I9RWK:** I97EVO, **I02M:** I2SGC, I2S2FZ, I28Z: I8BHG, I8XUD, **J41DC:** SV1DKL, SV1COT, **J4BYAK:** J0FESV, J0BETP, JM7SSG, J01TDR, J01QAT, J17UJ, Tanako, **J4LEYE:** J411DY, **J41YK:** J01VNM, J410WG, J01VVT, JH9JFH, J01PCT, JK10KH, Suginome, **J4ZRL/2:** JF2VAX, JG2JCA, JZ2TKX, JK2RKE, JK2TDW, JZ2VOC, J02AXB, JP2XYT, **J4KZL:** JG6PJL, JG6WYS, Toyo, **J47YA:** 7M1JAS, JG7PSJ, JH0JAN, JF1SXL, Nakagawa, **J49YA:** JH9KVF, JG2KJK, JN2QCV, JM2FCJ, JG0AV, JG60LV, JH9KZR, 7L2CEG, J0B1LV.

J49YA: JR9EUZ, JR0BAK, Nada, JH0ELG, JR9QNJ, JH0EGG.



Andy, 9X0A, got into a lot of logs.

JE6ZH: JR6GKT, JH6QFJ, JL6MPR, JI6BRB, JH7AFR & JA7WME, J7ABV, JH7PKU & JA9SSY, JH7QF, JH7DXZ, J01BMV, **J12EY:** JA2BV, JA2BHJ, JA2BL, JQ2BBC, **JN12DF:** JEBXRF/1, JEBKX/1, **JR1ZTT:** JK1JHU, J71XCM, JZ2FGD, JF4JYE, J4M4HH, 7M4AZ3, JR80FE, JI7OHM, JEOU, JZ, JR0UUU, Megumi, Furuta, Furukawa, **JT1T:** JT1BL, JT1BV, **JW5E:** JW5NM, JW7FD, **JY8XY:** JY5SK, **K0RF:** & W0UA, W1XE, N0AH, W0BGAZ, **K1EU:** & W1D0E, **K1NG:** & K11G, K1SD, AA1AA, W1FB, **K2TR:** & K2ONP, N1JF, NA2NA, KE1E0, **K3IE:** & W4EA, K4WG, **K4FC:** AE4SW, K4LQ, W4JAM, W4OX, W0MAN, **K4ISV:** & K4CN, N4AT, K4CM, K4CMS, **K4K:** N8PR, W4SD, N4QV, K4VP, K4ACV, YV5DTA/4, **K4RC:** W3MGL, K44VG, K4U4F, K4AMJ, **K5DM:** W80NSA, K0SKDM, **K5KG/2:** & W8TER, N7UN.

K5RC: Club, **K6A:** K6BEW, K6FH1N, K6UJ, **K6IDX:** & K6F5M, A16V, W7T0, K5RC, K7BV, W60AT, K6KR, **K6KM:** & N6BT, K2KV, **K6MDD:** AC1D, K6BG, K6BQK, K6BFDK, K6CJYJ, K6JYU, K6ZNB, K6D1WA, K6DV1U, K6DVIU, K6I6KN, K6I6KH, K6LBT, N6KBG, K6B6X, N6VVY, N6VZV, N6WVW, W6P6MV, W6L0S, W6J1P, W6W6CP, **K6SG:** & K6V8H, **K6ZM:** K6WG, W6B8MZ, K6DFRM, K2KW, K6FNIA, **K6AZ:** & K6BL, K6NZ, N8TR, N8W7, W1MD, W8K1C, W7BC, **K8CC:** & J11BMB, J11HAA, K8GT, K8CW, W83HB, W8DS, **K9M/K:** & N5H9R, **KA1DWX:** & W10HM, **KB1SO:** & K1ZR, **KB3A:** & K6B3, **KC7V:** & K7SP, N7BM, N7ZE (JR6ZE), **K640D:** & K64VN, K64WB, K64AU, K64WD, K64GP, K64BA, **K6BZ:** & W6AXW, K6C8BF, **KH0A:** JA1W5X, JZ2PCY, J11JFG, J11MIA, **KH8/NS0LS:** & N5JA, **KJ3V/4:** & Others, **KL7/NO7F:** & W7L0CJ, **KP2/K3MD:** & N3PUR, N3NMW.

L20H: L30HP, L9US, L9THM, L93WHE, L95HF, L95HD, **L10H:** L7U7S, L8UV8C, L07VCH, L71EXU, L1UHD, L03HU, L04HMF, L9U80A, L03HNE, L02HAM, L03HAK, L04HTW, L06H8K, L9V4PN, L9U9XQ, L11HBY, W5H8R, W9H9BU, **L50V:** L1UYK, L9U9VF, L9U5V, **L8AW:** L4ADCA, L8E5DA, L9AEEA, L9A9EA, **L1F:** L95FHM, L93FZW, L11FKR, **L75V:** L93VMS, L03VED, L09EJ, **L10HPW:** Club, **L01NF:** L01NDD, L01NFA, L01NAD, Eduardo, Otto, **L06FB:** & L11HF, L02FDF, L06FZL, L06FUQ, **L08DZ:** L06UH, L01BDA, L04DYU, L06DQW, L07E1C, L09E7E, **L33VF:** L1Y1C, L1Y1CQ, L3Y3P, L1Y1DA, **LZ5Z:** L21KQ, L21JY, L21HST, L23ZF, L23DJ, L23SM, L23FN, L24AX, **LZ9A:** L11UJ, L2C0C, L2ZDF, L2ZHE, L2ZJE, L2ZPO, L2ZTJ, L2ZLU, Goshu, **M7C:** G3KKO, G3NTM, **M7B:** G0UCS, G0UZF, G0WTD, G0WTM, G1AHM, G3ZRE, G4TZR, G4WJR, S7SR, G7V0D, M1ADC.

M7P: G3GAF, G3UHU, G4PWA, G4TAN, **N0MA:** N0LNO, K0HWE, W0DYFL, K0VM, K0DX, K0DIES, N6WLY, K0VAR, W0E0F, **N0ZA:** & K0CL, K0JK, K0DU, K461Z, **N1KWF:** & K1ZO, W41ZYX, WK1P, **N1MD:** & K21M, N1TLN, K81VM, K1ZE, K41ZN, **N2AAU:** & W02YLL, **N2LBR:** & W41KKM, **N2NU:** & W2RHE, W2Y2, K2W1, **N2SS:** & N2MT, **N3DL:** & A43JT, **N4SA:** I1KG, U5TCQ, U7C7W, **N5HV:** & K0EJ, **N6ED:** & N0DX, W6UC, K6Y3V, K5REX, **N6KI:** & K6WEO, W6MD, **N6KP:** & K7FD, **N7TX:** & K7K7S, **N8NR:** & N8BJQ, N9AG, **N9LYE:** & A1ZR, **N9QX:** & K9E1, W9D9GY, **N9F:** & K3ATO, K3SF, N3V3, K3PF, **NFAL:** & N04J, K4TE, K4UH, W4AB, K4F4WS, **JG3RPL:** JG3RPL, JG3RVU, JG3ERV, JR70MD, JG3GAD, JH7QXJ, **JN5S:** & K47GLA, N1U0C, **NK7U:** & K770, K7MK, W7ZRC, N7BZ, **NM3K:** & Others.

NQ4I: & A44LR, K4EAI, K4JNY, N4CM, N9HZ0, W4R, N1TL: K1KY, W4KH, K040R, K0GID, **NX0I:** & KM0L, N081B, K08VU, K08U, K08VVT, K0G0S, K08UT, **O5E7:** O5G3EA, O5E5VL, O5E5JL, O5E5KN, O5E5MKM, O5E5MN, O5E5UN, O5E5ER, O5E5HO, **O1FA:** O1HEB, O1H1MD, O1H1QA, O1H1S, O1H1T, O1H1VE, **O5H5M:** & O5HUQ, O4J4LV, O5H5JY, **O5HAW:** O5HEME, O5H6V, O5GMSZ, O6HMW, JH6KSR, **O6H6NO:** & O6CS, O6KZP, O6HRX, **O7HAC:** & O4LYX, O76LNI, O7H7K, O7H7ML, O7K7D, O7H7V, **O1K1FC:** Club, **O1K1UD:** & O1LUG, O1H7L, O1H1U, **O2KJZ:** Club, **O2K2DO:** & O2WAZ, O2K2BX, O2K2J, **O5W:** O1KAE, O1K1F, O1K1V, O1K1T, O1K1JY, O1K1TN, O1K1A, O1K1FD, O1K1DD, **O12A:** & O2PKD, O2KHBT.

(Continued on page 94)

OK2PEM, OK2JPR, OL50: OK1HRA, OK1FLC, DL15T: OK1KT, OK1VD, OK1NR, OK1TC, OK1DNR, OK1FH, OK1HSK, OK1MJJ

OM3A: OM3DX, OM7RU, OM7ZZ, OM8AM, OM8AW, OM8WR, OT7C: ON4ACA, ON4AJZ, ON4ALT, ON4AMI, ON6MR, ON7UN, OT7P: ON4GO, CN4LAM, ON4LCW, ON5PV, ON5DC, ON6AH, ON5OR, ON6MH, ON7PC, OT7T: DJ4AX, DL2CC, ON4WW, ON4AFZ, ON4MA, ON5UK, ON4UN, ON4JO, OZ5EDR: OZ1IVA, OZ5LH, OZ7AAQ, OZ5W: OZ1KRF, OZ1FTE, OZ1FTU, OZ7HAM: OZ1ETA, OZ1BIZ, OZ1JO, OZ9KY: OZ9AAR, OZ1FEZ, P3A: RA9JX, RA9JR, RA0AM, RV0AR, UN7FZ, UA9MA, UA0ANW, UA0AGI, RZ3TX, UA3TT, UA9YAB, PA/DL0PPP: DL8AAE, DL80BF, DL80BH, PA3DWD & PA3AAV, PA3COR, PA0JMH, PE1LAJ, P14CC: PB0AIU, PA3BAG, PA3BSQ, P14TUE: PA3HCW, PA3GFE, PE1PRC, PE1PEB, P14WAL: PA0ABM, PE1RNT, PE1PTQ, PD1AEB, PA-9851, P14ZLD: PA3ECB, PA3GCU, NL8884, P19Q: W9QC, W7DLC, PX2U: PT2QX, PT2UP, PT2BAT, PT2ADM, PT2RY, PU2CAG, PU2ASF

RK10WZ: RA10J, HW10N, RK3EWA: RZ3EM, RZ3EC, RA3EK, RK4HYT: Bakhaev, Tartarinceva, RK4WWA: UA4WA, RW4WA, UA4WAN, RK9SWF: RA9ST, UA9SFR, RN3R: UA3RAR, UA3SAQ, RA3SI, RU3SD, UA3RJ, RA3RFA, RU4WJ & RW4WM, RW4WR, RV6LWZ: UA6LO, UA6LV, IIR8MA, LT2IW, RV6LNA, RV6LOB, RV6LRT, UT6IZ, RZ3Q: RW3QC, RW3QNZ, UA3ODX, UA4WIN/3, UA9XFY/3, RN3QO, RN3OY, RU3OQ, RX3OP, RZ4PZL: Dmitrov, Tischenko, Kulinov, RZ9AZA: UA9BA, RA9AB, RA9AZ, RU0AN, RZ9AR, RZ9AZ, S52FO & S54AA, S53AJL: S57MKE, S57VMA, S97A: S92AT, CT1EAT, SK6NP: SM6BUV, SM6FKF, SM6FUD, SM6VUL, SM6VVF, SH6AD, SH6ADG, SL3ZV: SM3JLA, SM3DJR, SM0BGM & SM0ATN, SM0MC, SM5FQQ & SM3OSM, SM3SGP, SM5ACQ, SM5CSS, SM5FUG, SM5IMO, SM5INC, SM5LNE, SN2B: PA3EYZ, SP2FAX, SP2UKB, SP2WKB, SP3RBI, SP3RBR, SP8NH, US5WDX, SN6D: SP6NVK, SP6OPE

SP3PLD: SP3HBF, SP3IBM, SP6HTQ & SP6CT, SP6KFA: SP6MLG, SP6-101QR, SP6-101WR, SP9KJU: SP9MODY, Michal, Damian, Kamil, Kukasz, SP9KRT: SP9ADU, SP9ZV, SP9OIW, SP9UXX, SP9PRO: SP9LJD, SP9PT, DJ0MCC, SV1AFA: SV1CIB, SV1CIF, SV1DPJ, SV1COG, SV1SN, SV3YY, SV1DPF, SV1DPP, SX2T: SV2AEL, SV2CWW, SV2BFN, SV7CLI, T70A: DF6QC, DL2MEH, DL40CL, DL80BC, IK4TVP, T77WI, TA2KB: TA2BB, TA2YA, TA2BW, TA2NC, TA2FC, TF/AE4FY & KE4HTS, TM1C: F6PZY, F8AKS, F5ITK, F6GVV, F6HMO, F6CTT, TM2T: F5NOD, F5SIH, F5PFP, F5ROP, F5JX, F5RHT, F5JUU, F1AEY, TM2Y: F6BEE, F6AHC, F6FGZ, F5SNJ, F5NLY, G4BAH, F5MUX, TM5V: F5ROX, F5MLJ, F5AEB, F5MFL, TM8A: F5HXL, F2VX, F5OZF, F5SSG, UA2AA & UA2FB, UA2FC, UA2FF, UA2FX, UA2FZ, RA2FA, RA2FA, UN8LW: UN9LW, UN7LAN, UN9LFW, UP0F: Others

UR4MWU: UR5MB, UR5MT, UR5MFE, UR-8-56, UR4PWC: US-P-272, US-P-273, UT4PZ, UR4QWV: UR4QFE, UR50N, US3I: US2IE, US2IMA, UR5IFB, UR5IBM, UT5IM, UR3IUS, UT4UWC: US-U-036, US-U-021, US-U-007, UT4UWT: UT5UPN, UT5UDG, US-U-093, US-U-094, US-U-095, UT7L: UR4LSB, UR4TLX, UR4LUG, US4LWG, U05U: UT5UGR, U01JA, U02JU, U02JZ, U03JG, U04JDX, U00JX, UX0Z: UR5ZOS, UR7ZZ, UT1ZZ, V31DX: W2NA, K1GIM, K1M6K, VA3CRC: VE3XL, VA3KA, VA3SK & VA3MW, VA3PC, VA3JAK, VA3WTO, VA3RTW, VA3BCDR, VE3KKB, VE2UMS: VE2FAB, VA2FRU, VE3HG: Others, VE3RM & VE3WB, VE5SF & VE5CPU, VE5TP, VE6SV & VE6WQ, VE6VW, VE6NAP, VE7GAS, V01CV, VE7UBC: VE7MJI, VE7TD, VE7ZE, VE7TTO, VE7NVA, VE7MDL, VE7CGL, VK4DZ & VK4CEJ, VK4KTS, VP5DX: RA4UF, NAKE, NU4Y, W1LR, W3KT, VK4EM & VK4EMM, VK4EXA, VK4UW, VK4XY, V77GFC & V77GFS

W2A: W2XX, N2TX, KE2NL, K2UJ, W2AY/4 & W4YD, W2XT & W2PD, KE2HG, KB5U, N2UYV, W4ZF, NU2W, N2OP, KB2VRD, W2YC & K62MY, W3GNO & WR3Z, K3LP, W2T, K3SKE, W3MF & K3PH, W4NC & N4VHK, N0KTY, W84KCN, K5PK, KE4TES, W4AIAM, W84MSG, K4DRGB, K4FILN, K4FPLQ, K4JBF, W4SNG & AE4CL, K4DXR, KE4ART, K04JN, N4XFT, W44FOT, N6W6, W4ZR: W4FDA, WR4C, AB4XA, W84KSP, N4JBK, W4USA, W5R0K: K1GD, K3NT, W8ZBT, N5TIP, KC5MVE, K65PK, V67RW: K54IS, AB6DU, W6BK, K66WZ, K6SWMY, K6SZD, K6DI, W7IG & K7CQ, N7TL, W7SIR, W7UB & K7C7MNO, W8ZA & N8II, W8RM, W93W, VE9V, WA1RR: K1JN, N1RJ, N1HRA, K9P9, KA9FX, W9QA, W9RN, W9E9, WA1RR: K1JN, N1RJ, N1HRA, K81LN, K19L, K41VMG, K1G0X, W8ZKH & N2LDV, W84PHV & K04LIF, W4R0 & K9DAL, W0IN & K1WV, WY3T & N3JRX, XE2DV & K7LXC, K7AR, K7CRN, K06PS, XF3/EA3BT & XF3/EA3AQ, YM3SV: TA3YJ, TA3J, YN6WV: JAGWFM, JM6BEU, JM6UAA

YTDX: Ivan, Goran, YU1AAX, Club, YZ1V: YU1AAV Club Operators, ZL1AA: ZL1ANJ, ZL1YU1UN, ZP0R: ZP5AZL, ZP5CGL, CX6VM, ZP5XHM, ZP5WBM, ZP5RPO, ZW5B: PY5EG, PY5CC, PY5GU, PY1KN, PY2BV, ZXF: N6KT, N5FA, ZP5JCY, ZY2HT: PY2KC, PY2KJ, Tankian

Station Operators Multi-Op Multi-Transmitter

9A1A: S56A, S5500, S51R, S51D, S57NW, 9A5W, 9A2DQ, 9A2B, 9A2UE, 9A2HW, 9A2R, 9A2TS, 9A3GW, 9A3NR, 9A3SC, 9A3ZA, 9A40M, 9A6W, 9A7DLA, 9A7R, 9A9A, BP0A: BV2AD, BV2CI, BV2KI, BVJ/HJG3CN, BVJ/P1RIW, C19DF: K2NJ, NR2H, VE1ASJ, VE9BM, VE9DH, VE9DC, VE9GJ, VE9JF, VE9JU, VE9MY, VE9WH, W1VE, W2CG, W2EN, W2VYU, CS0RCL: CT1ASU, CT2GFK, CT5GFJ, CW5R: CX5BW, CX5CP, DK5EZ & DG1E3L, DG3EX, DH4EAQ, DK1WJ, DK4TP, DK8EY, DL1EHH, DL1EJ, DL3EBX, DL4EA, DL4EBW, DL6EAQ, DL8FBW, DL9J, E22AAE: HS1CHB, HS1CKC, E20HHK, E20ACU, HS0ZQ, HS0JR/3XMB, E21E1C, HS0HR/1, EA3AAJ & EA3CCN, EA3CXK, EA3EJ, EA3E5J, EA3EZD, EA4AAW & EA4ABW, EB4HAQ, EA4ART: Julian, Eduardo, Marcelo, Luis, Esther, Jacobo, Paco, Isidro, Pilar, Jose, Angel

EA4JRE: EA410DF, EA4AEB, EA4AJB, EA4BT, EA4RPJ, FA4CT, EA4EFC, EA4KA, EA5DY, EA5GR, EA7JB, EA4EKR, EA4AWF, EB4EJ, EB4AKI, EA5EZM & EA5BM, EA5ANL, ED07VG: EA7HY, EA7ATX, EC7AD5, EC7AHN, FK0GM & FK8KH, FK8FI, FP/GK8CO: K8AEM, K8BCO, N8CC, W8MC, GM7V: GM3WQJ, GM4FDM, GM4XYI, VE7NS, JA6IDJ, GW0GEJ, GM4ABP, GM4CXM, G4FAM, GM4TXX, GM2CAI, GM4AFF, GW7K: GW0ANA, GW0PUP, GW4BYJ, GW4GSH, GW4MAD, GW4MDG, GW4LJV, HB8/HB9AON: DF1JC, DL8DAW, DL8EAQ, HB9CRV, DJ2YE, HR3/DL7DF: DJ6TF, DL2RUM, DL7BO,



The oceanside QTH of CW5R.

DL7DF, DL8FH, J3A: N6LL, W6SR, N0AT, W8KKF, K5CAK, K5DJI, NH7C, JA3ZOH: JH3PRR, JG3KIV, JI3OPA, JM3XXG, JH4FF, JH4NM, J4ISF, J4FUF, J4CLV, JA6ZPR: JH6JSJ, JH65CI, JH6XJ, JH6BSC, JH6LHM, JH6ETS, JA7YRR: JA7FDY, JA7JUG, JA7, BY, JA7MOM, JA7M5O, JA7OW, JH7VJ, JH7LVA, JY1XG, JQ1NBV, J8KKM, JH5ZIS: JA5RJC, JA5FDJ, JA5JCC, JA5THU, JH5RX, JR5JAU, JR5PDX, JR5VHU

JN1YXU: Keiko Yamada, Moe Iwakura, Tomoko Ouchi, Keiko Oogawara, Seeko Kawase, Saki Yokoyama, Minako Tabuse, Yumi Onaka, Saon Shizu, J01YA0: JA1ATK, JA1PEJ, JA1QJK, JM1NKT, JF1FKX, K0UE & KE0MF, K80NUY, K1GW & K1ART, K1KI & K1CC, K1PI, K1RM, K1MP, K2SU, WA2GO, K1KP & N1RD, K1OA, K1EP, K1NU & K1TTT, KB1W, NT2X, AB2EC, KE1FO, N02T, WA1ZAM, WR2I, K1RO & K1ZZ, KB1GW, K1RX & K1V1, K1EJP, K1OZ, WA1T, AA1LN, K2KV & WM2V, N2GA, K2DO, N2JX, K2NG & K2WK, N2BIM, KU2M, K2WB & K2ZS, K2WS & K2BU, K3ANS & W3FH, N3TU, N2KJM, K3YD, W3I R W0RSJ3, N3VJA, N3IYX, K3BSA: K3JLK, K3LEK, N3NMP, K3LR & N3RA, K3UA, K3GI, K8C, N0RV, K8AFT, K3VJ, KA3JWJ, ND8L, W3JW, K3JT, K7FR & Others, K8WT & N8VCF, N8BS, N8UBH, N8YYS, K7CI, K8AJH, K8BFHW, N8FMD, N8DKV, K8BHR,

K80WY & N8NSV, KC1XX & KC1F, AD1C, N1RR, K1EA, K1LZ, KB1AWE, K1ZM, T93M, KM3T, K5ZD, KB1H & AA1CE, K1EBY, N1BU, NB1U, KH7R & WH6R, AH7R, KH6G, KH7U, WH6H, WH6T, KL7Y, KL2A, KH6ND, KH6TO, NH6XO, AH6LV, AH6VO, AH6OZ, KH6K, WH6XR, KH7BM, K06N: N5RO, K6AW, KX7M, NU6S, W6RGG, AE0M, KV1V & N6RFM, W1CSM, K1M8O, L70FM (LU4FM): LU1FA, LU1FAC, LU1FAK, LU1FCW, LU1FZR, LU2BRG, LU2FV, LU4FIP, LU4FGV, LU4FPZ, LU5FVY, LU6FFC, LU6FUQ, LU8FTT, LU9AU, LU9FFC, LU9FDG, LU9FOT, LY7A: LY3NIT, LY2OC, LY4AA, LY2UF, LY2KZ, LYR-728, N2RM & N2NT, N2AA, N7BG, N2NC, W2RQ, N2NL, KQ2M, K2BM, N3NA & W3EE, W83CTD, N3NS & K3PK, N3RU & N3IS, KA3JDI, N4ZC & AA4ZZ, K4HA, K4MA, K4ZA, KU4V, W4WV, W4WNT, W4AUNZ, N5ZC, W4BAT, 5B4AFM

N6AW & W6BA, W6KP, W6UL, AD6DO, K6HMS, KF6HI, N6ER, OH2JE & OH1JT, OH2BTI, OH2BVI, OH2BZY, OH2IV, OH2A, OH2JTE, OH2XX, OH6CT, OH6DD, OH7BX, OH7J, OH8KX, LY1DS, OK10KE: OK1DUT, OK1FUT, OK1YBA, OK1UTS, OK1FHL, OT7A: DL3EBM, DL3KQV, DL4XS, ON1AEI, ON1AFF, ON1AWB, ON1CIM, ON1DAL, ON1DEK, ON1DEL, ON1DJU, ON1DLA, ON1DLH, ON1GL, ON2BDD, ON4AD, ON4AIL, ON4AJW, OM4AJZ, ON4ALV, ON4AML, ON4ASB, ON4AIC, ON4AVO, ON4AWH, ON4AWU, ON4AWV, ON4ABG, ON4BAW, ON4BI, ON4CAS, ON4CAT, ON4CBP, ON4CCL, ON4CDD, ON4CDE, ON4CFQ, ON4DB, ON4FG, ON4FI, ON4VT, ON5CD, ON5DH, ON5G0, ON5OT, ON5R, ON5UM, ON6AA, CN6DN, ON6HZ, ON6PU, ON6RW, ON7AW, ON7DR, ON7GB, ON7H, ON7NB, ON7NO, ON7YU, ON8L681, PA3EBT, PA3ECL, P29AS & AB6BH, N6AA, N6TW, N6ZZ, W6LD

P14COM: PA3B3P, PA3BWD, PA3CAL, PA3ERC, PA3EWP, PA3BGO, DF8MQ/PA, DL5NEJ, DL2LSO, ON4BDS, PA3DMM, P19B: K1DG, K2SB, K82XZ, N3BB, N3ED, K3EST, WA3LFO, W3UM, N4RV, N7ZZ, RK9AZ: Club, RW6AW: R6BEN, UA6LP, RU6MM, RA6AX, RV6YZ, RA6YV, UA6AAY, RV6YJ, RX6BA, RW6YV, RU6AB, R26AU, UA6AD, RW6ADA, SP5ZCC: SP5UAF, SP5TAT, SP5MBO, SQ5BPT, SQ5BPC, SQ5EBL, SQ5EBJ, SQ5HAB, SZ5AAN, SWL-Arthur, SWL-Bob, SP5ZIM: SP5IUC, SP5SSN, SP5YVY, TK5NN & TK5FP, TK5MH, TK1BI, DL4RDJ, DJ1OJ, DL4GBA, DL4MDO, DK6WL, DK4VW, DK8FD, DL4MCF, DL1MAJ, DL6RAI, DL3MAA, TM5S: F5ABL, F5OKL, F5CWU, F6CVM, F1RQJ, F1SXM, F-16675 Sylvain, Christophe, TX8KAB:



KP2/K3MD (left to right): Becky, N3NWM, N3PUR, and K3MD.

FK8HG, FK8AH, FK8FS, FK8FK, FK8GY, FK8VHM, FK8FU, FK1TV, FK1UL, FK1US, FK1UT, FK1UZ, V26B: AB2E, KA2AEV, N2TK, W2UDT, N2SR, W3FV, N5UJ, W73Q, K3MM, N3OC, WX0B

VE5RI: VE5FD, VE5FN, VE5WV, VE6BP, VE6E, VE6FW, VE6FI, VE6LB, VE6AQ, VE6PY, VE6BIC, VE6NA, VE6AQ, VP5T: N2YV, W2OF, WA2VYA, W0AII/9 & NE9U, N0KK, AA9D, AA0ZZ, K0HB, K80VRV, K0TG, N0TR, K70R, W0GJ & W800, K0ZV, K0ZC, N8YPC, K80NL & W1FJ & N1BB, K1XM, K1CB, W1KM, N81B, W1T1O, WA1GQC, W10K & Others, W2AX & K2LE, VE1XT, VE1AL, K2SX, N2UN, N2ZF, W2UD, W2UB & A2LF, N2HXK, W3EA & W3F3Z, K2MW, WU3M, N3IDP, K2UT, W3LPL, K1HTV, K1RA, K1RZ, WM2H, ND3A, ND3F, N3GB, A13M, K3NA, K3RA, K74W, K5G0, N5OKR, G4PQ, OH2MM, ON7ZV, W3PP & NX3A, N9WY, KW3Z, KE3ZR, N3WDL, W4MYA & AD4TS, WA4DAI, DK4JYX, N4HEJ, LU4LW, W4LG, KC4AF, K54RX, AC40B, N4ZJ, KF4QOY, KF4SPT, Louise, W6EEN & K6XC, W6AQ, W60RD, K7FX, W7MMO & W7EU, K17Y

WP2Z: W3CF, K3M0H, Murphy!, WS2U & N2KH, N2HR, AA2E0, AA2MU, N2BC, N3YKF, N2FU, WE2K, WS4F & AE6E, K3TD, YB3ZP: D3K_YK, YD3LW, YD3LOF, YD3LJN, YD3WHM, YB3LEU, Y09KP: Y09BY, Y09JN, ZM2Z: ZL2RF, ZL2AF, ZL2AM, ZL2AMI, ZL1AZZ, ZL1AXG, ZL2MF, ZL2IC, ZL2IR, ZL2BPL, ZL2BSJ, ZM7A: ZL2AL, ZL2ST, ZL2HU, ZL2TT, ZL2RR, ZL2GI, ZL2LF

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, Zones, and Countries. An asterisk (*) before a call indicates low power. Certificate winners are listed in boldface. (All country terminology reflects the DXCC list at the time of the contest.)

SSB RESULTS SINGLE OPERATOR NORTH AMERICA

UNITED STATES	
K5ZD/1	A 5,494,655 3137 134 501 (Opr. W2SC)
N6BV/1	4,057,986 2584 125 448
W5MAF*	2,415,943 1753 122 407
K5MA/1	1,492,164 1238 107 351
W1TE	1,012,239 917 94 329
KD1YN	985,214 865 109 337
K2TE/1	840,867 872 91 290
K1DWQ	815,022 797 91 296
W1KRS	810,661 775 90 289
AK1N	649,971 651 98 301
W1RY	643,264 642 89 279
K1CN	567,084 639 72 242
K1YX	544,806 571 96 258
W1OP	465,443 525 90 233 (Opr. K1PLK)
K1LD	463,143 623 67 196
K1BV	343,125 544 53 172
N1API	338,599 510 55 196
K1TM	319,176 494 67 181
N1HOQ	289,278 399 79 218
K1KNQ	247,020 458 57 173
KK1DX	182,608 340 59 143
KA1EKR	134,532 256 60 162
N1DD	110,982 254 49 110
K1LU	92,795 282 42 106
W1VF	25,009 109 28 61
K1DX	7,072 64 25 43
WR1P	375 10 7 8
WA1MKS	39,168 186 26 7 8
K1VW	7,497 120 13 36
*WA1S	A 1,017,978 889 101 320
*WS1A	696,850 739 86 276
*K1HT	526,400 594 81 239
*N1TM	445,424 595 72 215
*AA1EY	329,896 440 80 221
*W1EQ	299,200 436 67 205
*W1FL	262,422 417 66 173
*W1ZZ	205,920 308 76 184
*W1XF	195,264 371 50 142
*K1TW	125,479 260 50 129
*N1SNB	94,484 242 43 115
*AA1QD	67,639 194 39 104
*N3KC/1	59,292 178 34 88
*KQ1F	52,038 146 38 83
*N1XF	28,809 150 30 67
*K1D1	14,193 99 15 42
*K1MV	1,886 30 17 24
*W3EP/1	35,062 181 22 72
*WA1FCN	99,015 330 28 95
*K1VJS	84,700 270 29 92
*K1VUT	161,280 458 26 92
WB2QVA/1	85,470 306 23 89
*K1VR	60,282 211 23 79
*AB1U	16,744 107 13 43
*W1MK	3,485 45 13 28
K2DM	A 2,138,030 1677 105 365
W6XR/2	1,756,664 1440 128 380
KE2VB	1,056,780 1008 99 313
N2MR	977,976 886 94 314
N2LT	901,250 945 89 261
N2ED	889,326 846 88 295
WA2NHA	766,363 876 84 269
KG2DN	554,166 666 83 223
WB2YOH	545,580 627 75 240
K2FR	439,992 584 78 213
W2BE	379,472 565 73 223
W2HCA	377,300 531 68 207
K2CS	364,620 520 81 214
W2YK	270,072 419 69 195
N2PKN	245,765 466 55 192
K2MP	222,548 353 66 170
W2GDJ	221,216 395 62 161
WR2V	149,292 312 51 147
K2JLA	120,744 262 46 126
W2TZ	109,641 248 50 111
W2OMV	106,110 248 41 121
K2JF	74,430 229 55 135
N2CK	31,428 134 32 76
K2MGA	28,080 122 19 61
K2FF	26,728 99 32 72
KB2LNV	19,110 90 26 52
WA2GNV	17,370 74 32 58
K2PZ	15,840 102 34 62
KE2DX	12,782 79 29 48
W2OP	10,608 61 26 52
W2EZ	9,576 60 28 44
N2LEB	5,572 42 24 33
W2VU	1,215 19 12 15
NA2X	21 128,271 322 31 112

KB2QM	121,920 461 25 95
W2CQ	56,358 206 24 77
N2PT	16,445 114 16 49
KB2FWP	5,175 42 13 32
K2WE	7 64,698 200 28 95
N2PP	62,928 249 25 89
K2WJ	45,100 178 22 78
WQ2M	27,090 330 27 102
W2LU	3.7 17,181 143 19 50
W2VO	1.8 6,783 85 14 30
KN2T	3,772 95 11 37
*K2AZ	A 976,740 855 99 347
*KA2CDJ	446,462 499 100 279
*WB2ZTH	394,368 467 83 229
*NA2Q	348,132 525 74 194
*K2UF	361,620 467 74 213
*KG2AU	234,112 389 63 185
*N2RMZ	181,068 312 50 179
*K2TZ	169,926 293 66 157
*K2SZ	166,057 288 53 158
*K1PY/2	114,589 278 44 119
*KB2NOW	109,620 223 53 136
*W2SSB	54,460 142 45 95
*W2MKW	41,268 137 39 75
*K2DE	39,984 130 40 96
*N2LQO	36,960 135 36 74
*W3FH/2	30,690 109 33 77
*AE2T	29,400 115 31 69
*K2TA	23,067 88 32 67
*K2YX	22,816 93 27 65
*K2DL	10,877 64 29 44
*NT2Z	6,270 42 19 38
*W2UL	5,559 45 20 31
*K2ZVVU	1,320 22 8 14
*WB2BWO	117 5 5 4
*KA2JEM	21 46,835 223 23 102
*K2MFY	14 150,525 432 27 78
*K2AW	78,546 291 24 82
*WA2ASQ	25,670 110 22 63
K3ZO	A 3,466,918 2290 122 437
W3BGN	3,130,400 2071 131 429
K3JL/D3	621,712 632 93 271
K3ZA	565,380 644 89 260
K3KFD	536,988 724 75 217
KB3TS	496,128 625 73 250
K3XEJ	456,660 644 58 236
K3K1E	455,952 493 102 266
W3KN	455,022 565 34 252
N3JCL	444,290 631 81 253
W3AZ	223,250 445 62 188
AD3Z	221,650 205 78 197
AD8J/3	181,728 343 52 151
W3EKT	178,080 300 63 161
WB3FJ/3	154,560 264 70 160
W3GG	132,675 264 44 139
KM3J	128,700 236 55 143
W3YD	128,576 258 57 139
W3IZ	125,600 254 60 149
K7SZ/3	83,390 200 40 115
W3BEN	76,194 215 43 123
KG6G/3	34,432 138 42 86
N3HT/7	30,478 116 30 68
N3YE	10,320 59 21 39
W3COH	1,800 46 18 32
WB3ICL	21 142,308 408 28 106
N3HXB	14 482,416 1140 35 141
A1Q3	134,316 379 26 100
NG3Q	40,320 160 23 67
WB4CVH/3	5,439 54 11 26
WA3YSW	640 14 5 11
N3RS	7 185,020 469 30 115
W3KHQ	35,904 139 23 73
K3SV	814 33 7 15
*K3V	A 807,500 804 96 284
*WW3S	654,984 637 87 219
*WA2C/3	438,572 603 78 298
*N1S1	277,380 377 53 150
*W33HA	158,991 307 58 143
*W33RH	107,743 251 45 118
*K3RPP	107,450 232 48 127
*KB3B	26,980 124 27 68
*W3DF	16,650 93 25 50
*K3LD	12,567 84 23 48
*NM3O	4,320 42 21 24
*K3CPZ	28 90,735 300 23 92
*WB2ZR/3	49,484 220 23 66
*N3ZAQ	17,952 109 18 43
*W3CP	20,590 108 19 52
*NY3C	14 48,594 197 20 71
*KB3A	26,574 119 22 64
W4AN	A 3,492,160 2293 128 432
K4ZW	3,205,420 1997 135 450
K4AB	2,320,896 1808 130 382
K3CV/4	1,266,320 1038 105 334
N4JK	1,112,929 1121 110 282
AA4S	1,034,930 944 100 319
N4UH	957,638 941 101 317
KA4RRU	820,821 745 105 314
WA4TH	800,520 750 105 315
K4PI	803,288 583 105 294
N4NT	580,636 610 92 264
NX4W	457,320 612 77 219
WA4JUK	449,306 588 71 215
KM4E	377,104 529 71 188
K4LM	357,903 454 87 212

319,308 495 58 188	*K4FAXT	11,070 86 19 35
293,229 405 80 199	*KE4HXU	10,716 94 10 38
262,508 356 84 208	*KB4NPI	7,476 85 13 29
254,774 419 63 176	*K4SN	21 143,112 403 29 105
241,664 351 68 188	*K4VWV	73,736 271 23 81
217,621 298 80 189	*K4PC	61,040 231 25 87
189,316 316 64 172	*WB4UBD	57,267 200 25 76
183,407 339 52 145	*K9ES/4	13,482 84 20 43
181,968 584 26 110	*W4JK	2,336 30 13 19
157,586 344 60 149	*N4MO	14 187,172 482 31 115
154,479 328 64 113	*WD4CNZ	88,068 311 25 98
141,226 238 75 166	*N3TG/4	10,790 81 17 44
132,132 325 43 113	*KW4T	7 42,016 164 23 78
112,674 232 53 125	*WA4QDM	10,790 80 17 48
94,514 240 51 106	NN5ZZ	A 1,066,965 1111 108 307 (Opr. N5LZ)
84,177 225 44 97	AE5T	894,456 923 103 266
82,472 182 53 116	K5DX	833,382 824 110 304
79,332 175 54 124	WA5IGD	663,732 682 103 265
76,369 166 63 156	N5AW	538,076 688 82 226
71,000 181 44 98	N5KB	419,572 568 85 199
48,396 162 25 70	N5DF	388,696 471 81 227
44,460 138 37 81	AB5C	338,720 449 86 206
44,290 138 30 83	K5YP	328,799 475 85 192
42,408 117 40 84	K5YA	302,512 482 75 184
41,724 127 38 94	W5PLN	158,620 282 78 142
35,814 381 35 59	K5NO	112,541 378 42 101
31,753 110 39 74	W5AAH	103,448 236 67 126
31,552 112 41 75	WB5TGL	101,352 234 64 100
29,952 122 29 67	N5OK	88,452 232 57 105
27,949 100 42 80	N5RP	77,872 251 38 86
23,210 105 40 70	WA5SOG	68,376 195 39 83
21,504 85 35 61	K5IQ	65,783 174 37 120
20,774 79 35 56	K5RA	38,448 138 40 58
15,438 75 27 56	K5TT	33,912 140 39 59
14,946 120 30 64	K2BA/5	20,254 100 29 54
12,666 75 29 50	KZ5MM	28 208,102 638 29 105
10,692 66 20 46	N5LT	21 741,597 1833 35 144
106,288 335 25 79	K4VUD	7,024 438 26 62
7,024 438 26 62	KG2CS/4	1,071 63 9 8
582,552 1240 34 140	N4UK	582,552 1240 34 140
552,670 1282 34 136	WC4E	552,670 1282 34 136
469,560 1027 35 137	KC2X/4	469,560 1027 35 137
424,710 993 32 133	K4JYO	424,710 993 32 133
270,351 644 30 123	N4CT	270,351 644 30 123
253,727 559 31 130	N4MXT	253,727 559 31 130
170,544 544 30 102	W9W/4	170,544 544 30 102
121,472 334 28 100	K3K0/4	121,472 334 28 100
89,110 268 27 102	N4GU	89,110 268 27 102
14,640 85 18 42	K4AMC	14,640 85 18 42
203,892 559 36 120	K4NO	203,892 559 36 120
70,959 262 22 87	K4VW	70,959 262 22 87
54,264 187 23 79	W3V7/4	54,264 187 23 79
9,222 64 15 38	K1TC/4	9,222 64 15 38
8,120 55 17 39	N4MM	8,120 55 17 39
6,627 51 12 35	W4VC	6,627 51 12 35
61,820 216 26 90	KZ2J/4	61,820 216 26 90
47,197 187 26 83	K4UA	47,197 187 26 83
37,278 182 24 85	NC4NC	37,278 182 24 85
22,825 104 22 61	N2FV/4	22,825 104 22 61
22,099 114 20 57	AG4W	22,099 114 20 57
17,710 90 20 57	W3Q0/4	17,710 90 20 57
32,532 217 16 58	W4DC	32,532 217 16 58
27,887 170 18 21	N6AR/4	27,887 170 18 21
2,905 45 11 24	AA4MM	2,905 45 11 24
1,652 36 7 21	AD4Z	1,652 36 7 21
791,895 814 97 296	*W4O	A 791,895 814 97 296
785,997 785 99 288	*N4DL	785,997 785 99 288
617,660 665 88 256	*KR4QI	617,660 665 88 256
377,556 500 76 216	*K4PHF	377,556 500 76 216
291,564 466 66 186	*W4LC	291,564 466 66 186
227,408 392 66 178	*N4RT/4	

*K7ED	"	43,582	220	23	54	*WJ900	"	31,025	139	22	63	VE30TL	"	131,112	566	23	85	V44NK	3.7	26,352	353	11	25	5X4F	28	1,164,728	2455	33	131
					(Opr. WA8RJY)	*WD9FEN	"	3,360	117	21	59	VE30YB	3.7	208,872	1121	26	82							5X1T	21	1,780,200	3389	35	145
*KJ7WY	"	16,443	105	23	40	*W91XX	"	4,816	44	14	29	*VE3FA	A	966,826	1093	94	277	U.S. VIRGIN ISLANDS											
*AA7UN	14	119,125	361	28	97							*VA3NR	"	222,687	462	64	163	*NP2Q	A	913,344	2387	69	132	ZAMBIA					
*W7FP	"	113,152	331	28	99	N21C/O	A	2,418,327	1766	134	367	*VE3BUC	"	153,220	417	49	139	ZIMBABWE											
*K67R7	"	36,100	186	28	43	K00ZI	"	641,067	1068	80	187	*VE3STI	"	134,334	339	48	105	ZZ/DF3XZ A 436,254 634 70 168											
*KC5AC7	"	3,198	59	13	18	W01TM	"	526,854	662	96	221	*VE3UZ	"	58,550	183	45	105	ASIA											
						K0MXX	"	458,337	562	91	232	*VE3TDG	"	27,500	388	23	27	ARMENIA											
K81LN	A	1,216,626	1098	100	322	W0GG	"	446,072	622	92	204							EK0WW A 169,000 448 40 90											
W9LT/8	"	1,189,850	1033	108	341	W0JD	"	346,804	461	86	191	*VA3IX	"	24,072	151	16	52	EK8WF A 392,964 631 57 172											
W8KX	"	509,400	508	90	270	K0MP	"	219,123	362	86	162	*VD3JFF	"	15,200	93	29	51	EK4JJ 14 32,736 125 24 59											
KE8GG	"	469,456	605	70	226	K9WIC/O	"	200,385	356	62	157							ASIATIC RUSSIA											
K2UOP/8	"	467,025	542	84	241	W0TT	"	191,490	375	77	138	*VE3OIL	"	4,588	85	14	17	RK9CWW A 1,997,504 1638 1103624											
W8UJ	"	334,554	518	74	203	W0MWW	"	103,878	212	69	130	*VE3ST	"	2,960	28	15	25	UA9QCLB " 1,090,369 1202 94 277											
N8CUN	"	256,360	439	55	166	W0UHFV	"	90,610	202	49	121	*VE3XN	28	24,698	187	15	38	UA9OS " 25,984 104 44 68											
N8CN	"	215,550	389	61	164	W0PPP	"	67,048	188	39	97	*VE3HX	"	17,289	131	13	38	RW9SQ 28 4,600 52 16 30											
AABRK	"	144,695	278	64	151	W0BXL	"	62,100	198	44	91	*VE3ZZ	14	84,376	321	21	85	RA9JP 21 157,584 814 30 82											
W8RD	"	142,584	281	66	158	W0MIEI	"	58,520	161	43	97							RA9FF 14 78,648 269 28 88											
N8NX	"	123,832	250	58	126	W0BOE	"	30,488	114	42	61							RX9FG " 47,547 221 17 64											
W8BSTO	"	85,800	243	39	111	K0BSS	28	43,055	244	20	59							UA9OC 3.7 41,662 215 19 55											
K0BKE	"	84,373	220	41	98	N7DR/B	"	21,708	151	16	38							UA9CAW A 625,290 808 86 234											
W8DSLD	"	75,317	95	50	117	N0NR	21	287,573	765	31	112							RW9QA " 280,940 469 55 165											
W78P	"	69,920	230	31	101	K0KE	"	250,756	670	33	106							RA9AE " 183,540 357 57 153											
W8ILC/M	"	51,051	136	48	95	W0OSK	"	27,920	135	23	57							RA9JW 21 157,584 814 30 82											
N8TC	"	7,564	55	19	43	K0KX	14	430,760	916	38	140							RA9FF 14 78,648 269 28 88											
WABRSA	"	4,187	78	25	54	W0UN	"	315,392	905	35	119							UA9OC 3.7 41,662 215 19 55											
W8CO	28	14,322	101	19	43	KV0Q	7	136,686	450	30	84							UA9OC 3.7 41,662 215 19 55											
K3ZJ/8	21	462,880	1053	33	127	K0ZA	1.8	780	16	8	12							UA9OC 3.7 41,662 215 19 55											
W8JGU	"	146,228	374	29	110	W0RXL	"	240	12	6	6							UA9OC 3.7 41,662 215 19 55											
N8EXS	"	41,968	191	21	65	*AC0W	A	560,058	677	93	254							UA9OC 3.7 41,662 215 19 55											
K8UC	"	18,800	141	22	58	*KA0WWT	"	186,065	388	60	127							UA9OC 3.7 41,662 215 19 55											
K8DX	14	698,828	1546	37	141	*KE0UJ	"	150,981	317	50	127							UA9OC 3.7 41,662 215 19 55											
W8TWA	"	218,080	548	33	112	*KZ0C	"	113,240	259	62	128							UA9OC 3.7 41,662 215 19 55											
W8UD	"	170,553	465	31	108	*W4RDV/O	"	102,850	239	53	134							UA9OC 3.7 41,662 215 19 55											
W8SUJ	"	74,865	253	26	79	*WB4RDCB	"	75,047	193	55	96							UA9OC 3.7 41,662 215 19 55											
W8UWZ	3.7	19,544	182	13	43	(Opr. K8LR)	"	55,554	159	45	96							UA9OC 3.7 41,662 215 19 55											
K8MK	1.8	20,605	378	17	48	*K2HT/O	"	41,004	128	46	88							UA9OC 3.7 41,662 215 19 55											
						*K8FC	"	53,392	353	44	98							UA9OC 3.7 41,662 215 19 55											
						*AFBC	"	58,817	175	39	84							UA9OC 3.7 41,662 215 19 55											
						*N8AA	"	48,514	148	48	79							UA9OC 3.7 41,662 215 19 55											
						*K8YUS	"	21,600	96	33	57							UA9OC 3.7 41,662 215 19 55											
						*W8IDM	"	5,100	40	18	32							UA9OC 3.7 41,662 215 19 55											
						*N8FWA	28	21,762	164	14	40							UA9OC 3.7 41,662 215 19 55											
						*KE8NH	"	17,864	114	19	39							UA9OC 3.7 41,662 215 19 55											
						*K8ENM	"	3,955	51	12	23							UA9OC 3.7 41,662 215 19 55											
						*K8BIBS	21	108,585	320	27	99							UA9OC 3.7 41,662 215 19 55											
						*K8FK	"	96,158	282	30	103							UA9OC 3.7 41,662 215 19 55											
						*K8KM	"	58,479	220	23	78							UA9OC 3.7 41,662 215 19 55											
						*N8LIQ	"	35,574	213	22	55							UA9OC 3.7 41,662 215 19 55											
						*K8ME	"	4,536	51	10	26							UA9OC 3.7 41,662 215 19 55											
						*AA8UP	14	3,478	37	2	25							UA9OC 3.7 41,662 215 19 55											
						W9RE	A	2,941,546	1902	137	440							UA9OC 3.7 41,662 215 19 55											
						W9SZ	"	2,426,580	1695	134	415							UA9OC 3.7 41,662 215 19 55											
						K9GD	"	1,138,860	862	128	412							UA9OC 3.7 41,662 215 19 55											
						K9BGL	"	1,047,489	854	111	326							UA9OC 3.7 41,662 215 19 55											
						W8STPQ	"	526,467	652	91	248							UA9OC 3.7 41,662 215 19 55											
						K8OC/9	"	448,514	519	59	260							UA9OC 3.7 41,662 215 19 55											
						K9MWM	"	248,703	508	89	184							UA9OC 3.7 41,662 215 19 55											
						K9JC	"	216,900	369	68	173							UA9OC 3.7 41,662 215 19 55											
						W9ECV	"	214,361	371	80	191							UA9OC 3.7 41,662 215 19 55											
						N9CD	"	182,156	326	64	162							UA9OC 3.7 41,662 215 19 55											
						K9HJH	"	153,024	292	59	133							UA9OC 3.7 41,662 215 19 55											
						K9GSD	"	146,030	317	43	127							UA9OC 3.7 41,662 215 19 55											
						W9AKVE	"	137,313	258	61	148							UA9OC 3.7 41,662 215 19 55											
						N3LCR	"	100,562	239	45	109							UA9OC 3.7 41,662 215 19 55											
						W9IL	"	97,173	200	53	124							UA9OC 3.7 41,662 215 19 55											
						K9LU	"	95,142	225	46	111							UA9OC 3.7 41,662 215 19 55											
						K9NR	"	47,854	138	47	95							UA9OC 3.7 41,662 215 19 55											
						KF9YR	"	45,444	141	52	100							UA9OC 3.7 41,662 215 19 55											
						N9YXA	"	27,060	134	50	73							UA9OC 3.7 41,662 215 19 55											
						N9DT	"	7,859	51	28	41							UA9OC 3.7 41,662 215 19 55											
						K8OBFM	"	4,500	40	16	29							UA9OC 3.7 41,662 215 19 55											
						K9IG	21	347,760	808	33	135							UA9OC 3.7 41,662 215 19 55											
						K9SU	"	253,708	574	32	132							UA9OC 3.7 41,662 215 19 55											
						W9IGL	"	118,555	321	28	103							UA9OC 3.7 41,662 215 19 55											
						K9UQN	"	38,454	159	23	64							UA9OC 3.7 41,662 215 19 55											
						KF9VJ	"	8,140	70	13	31							UA9OC 3.7 41,662 215 19 55											
						W9IW	14	383,239	913	37	142							UA9OC 3.7 41,662 215 19 55											
																		UA9OC 3.7 41,662 215 19 55											
						W9OF	"	167,874	408	32	115							UA9OC 3.7 41,662 215 19 55											
						K9CAN	"	131,193	360	28	100							UA9OC 3.7 41,662 215 19 55											
						K9YNF	"	71,280	236	25	83							UA9OC 3.7 41,662 215 19 55											
						W9GG																							

Table with columns for country codes and names, followed by numerical data points. Includes sections for Uzbekistan, Western Malaysia, Europe, Aland Islands, Andorra, Austria, Azores, Balearic Islands, Belarus, Jordan, Khirghizstan, Korea, Kuwait, Kazakhstan, Lebanon, Macao, Mongolia, Bosnia-Herzegovina, Bulgaria, Croatia, Tajikistan, Thailand, Turkmenistan, Denmark, Belgium, England, and Estonia.

*ES4RG	3.7	11,350	214	7	43
*ES6MO	1.8	18,288	352	46	400

F5BBD	607,257	1080	74	283	
F5RAB	368,244	739	71	247	
F2NH	207,378	352	68	178	
F2AR	157,586	465	55	192	
F2RO	134,054	359	55	139	
F5HWH	41,474	135	43	135	
F5HID	408	15	6	11	
F5TDK	28	129,408	516	25	103
F5EZX	21	787,033	2021	33	136
F5NBX		689,885	1926	34	127
F5FLN		520,536	1721	36	128
F2EE		200,361	715	31	116
F2SI		97,970	492	27	74
F5BOY		18,942	114	25	52
F5PGP	14	717,162	2048	39	139
F8AMV		14,476	84	23	54
*TM6A	A	1,276,290	1414	111	378

A EUROPEAN RUSSIA

RN6BY	A	2,972,270	3280	139	527
UA5LU	"	1,448,568	1546	122	436
RX3APU	"	721,544	1567	91	313
RZ6ACF		465,451	759	93	250
UA10MS		439,824	813	82	254
UA10MX		284,817	473	85	242
UA6JY		269,690	400	86	212
UA4LY		180,194	457	58	153
RU3FF		180,063	495	57	190
RA1AA		164,256	415	66	170
RU6LC		144,716	437	64	189
UA1DJ		91,584	430	37	122
RV6LOB		7,920	55	29	43
RK6EZ		7,200	181	13	62
RV6MM	28	20,520	131	20	70
UA3LPP		368	26	5	11
UA3AB	21	124,410	409	33	110
RA3QUA		91,200	391	27	93
UA6LQ	14	394,065	1435	38	151
RU3AG		4,601	62	13	30
UA3XBR		1,170	23	7	19
RU4AA	7	309,863	1252	37	126
RU4AA	"	248,301	963	30	111
UA6EE		81,918	393	20	91
UA10MZ		33,128	303	18	64
UA10Z	3.7	25,842	260	14	59
RA3VV		14,649	235	8	49
RZ3OU	1.8	33,666	480	10	62
RA4CC		9,384	168	6	40
*RA3WA	A	753,543	1144	99	344
*RV3BR	"	475,167	1121	94	269
*UA3BL	"	377,325	771	78	247
*RA3AF	"	316,344	701	71	223
*UA4LU	"	145,642	316	68	138
*RX3ARI	"	139,258	471	51	152
*RU4WE	"	124,017	440	50	151
*RV3AH	"	118,524	396	53	151
*RV1CC	"	63,954	285	43	128
*RA3COC	"	50,688	260	30	102
*UA1GCP/1	"	49,141	238	36	121
*RW1QF	"	46,990	142	54	131
*UA6LHM	"	40,548	233	24	69
*UJ1BA	"	34,625	217	28	97
*RA4AF	"	3,700	228	53	130
*UA3BP	28	630	41	5	13
*UA4LCQ	21	573,363	1610	40	146
*UA4POL	"	463,298	1498	35	123
*RZ6HX	"	362,165	1234	33	120
*RA6LV	"	251,688	999	33	114
*RU3DX	"	163,082	510	35	111
*RA3RCL	"	124,744	533	30	94
*RA3DNC	"	95,520	460	28	92
*RV6BV	"	71,368	398	28	60
*UA3PP	"	17,485	197	14	51
*RV3ACA	14	65,953	419	25	76
*RK3RT	"	64,470	423	28	77
*UA3XIK	"	54,435	365	20	75
*RZ3FR	"	45,493	301	23	74
*UA3ACV	"	36,480	345	19	61
*UA4LBE	"	34,290	264	22	58
*RA3ATE	"	21,760	249	13	51
*UA3QNL	"	10,920	86	20	58
*RA1QX	"	6,579	108	10	41
*RA6LVT	"	5,310	70	11	34

EUROPEAN TURKEY

*TA1FA	A	83,400	850	16	59
--------	---	--------	-----	----	----

FAROE ISLANDS

OY3JE	7	321,198	2113	31	110
*OY1A	7	380	20	3	16

FINLAND

OF1MM	A	2,221,450	2322	128	449
OH2BR	"	911,478	1459	102	336
OF1BV	"	429,520	1004	60	235
OF3WS	"	290,970	547	69	249
OH2VZ	"	31,812	241	42	90
OH5VT	"	21,780	97	49	83
OF8BQT	"	21,423	104	38	73
OH3WD	"	5,760	40	19	29
OH1PY	"	475	11	8	11
OH2KQ	28	2,278	23	12	22
OH6OS	21	272,706	1021	33	118
OH2BCD	"	26,809	165	24	59
OF5FL	14	915,056	2507	38	138
OH6RE	"	151,420	635	32	102
OH3JR	7	40,248	298	24	80
OH3XA	"	27,492	164	22	65
OH3UJ	1.8	8,476	150	6	46
OH2BO	"	5,060	103	40	110
*OH3NM	"	8,250	93	16	53
*OF2L NH	"	2,064	43	13	48
*OH6CK	"	860	37	8	12
*OH2UBF	21	23,525	130	32	103
*OH4YT	"	10,840	82	14	42
*OH6RC	14	14,007	114	19	50
*OH5PA	"	12,089	80	21	77

FRANCE

F5RZJ	A	1,435,760	1568	115	409
F6EMA	"	1,084,520	1491	85	295

DF0EE	263,264	884	34	118
DL3BYE	68,256	98	12	36
DL3BWF	65,780	324	28	82
DK0NK	754	28	5	12

DL3MHS	3.7	78,528	668	20	76
DL8BWD	"	52,129	589	17	60
DL7WAL	"	38,000	468	14	66
DL7VMM	"	19,026	275	10	53
*DF7RX	A	583,311	980	78	303
*DJ4JF	"	434,313	590	83	286
*DL2HX	"	398,670	665	88	323
*DK7ZH	"	398,670	741	62	249
*DF3OG	"	392,424	609	32	250
*DL7ANR	"	371,954	750	88	251
*DL2DBH	"	246,960	520	58	226
*DL8NBJ	"	193,440	567	61	187
*DK5DS	"	177,656	468	51	161
*DL1TS	"	168,872	459	47	162
*DL6MOT	"	163,944	495	53	163
*DK5MV	"	136,750	290	50	200
*DJ4QD	"	119,988	360	46	152
*DL9JUS	"	115,987	405	45	161
*DF5AN	"	97,998	290	40	174
*DL8SDC	"	94,336	352	39	137
*DL8ULO	"	86,275	410	38	137
*DL3APK	"	85,975	309	39	142
*DL1LSZ	"	84,456	396	38	146
*DF2WF	"	83,790	418	41	169
*DL1DCJ	"	82,668	276	43	123
*DL2YAK	"	78,581	317	41	138
*DL2YK	"	78,581	317	38	128
*DL3HWW	"	64,320	245	50	142
*DF5ZV	"	64,116	266	37	100
*DL6JCB	"	63,705	290	35	120
*DL8UGV	"	63,674	281	48	110
*DL8NFW	"	61,902	305	43	128
*DL0MFL	"	61,533	270	38	121
*DL3YEI	"	56,550	297	31	143
*DJ3GE	"	52,245	53	35	100
*DK2HD	"	46,632	247	28	96
*DL7UXG/P	"	44,088	267	31	101
*DL5ST	"	40,098	184	38	125
*DJ9RP	"	39,368	182	37	96
*DL5DSA	"	38,376	158	37	119
*DL5ANS	"	27,750	178	29	96
*DL3KDC	"	25,573	238	37	70
*DL2KWA	"	23,400	165	25	95
*DJ2OR	"	19,200	150	19	56
*DL5WS	"	19,065	105	29	64
*DL7FEA	"	14,700	144	20	78
*DL8AG	"	14,700	63	24	48
*DL2MIH	"	11,481	82	29	60
*DL9XW	"	7,140	57	21	47
*DL9JW	"	6,696	13	10	44
*DL9LBI	"	5,963	68	24	43
*DL8NTC	"	5,580	62	16	46
*DL2KG	"	5,141	69	17	36
*DL1ET	"	2,808	43	6	38
*DL7MAT	"	2,331	31	13	24
*DL7VPO	"	2,178	96	10	12
*DL3WB	"	1,888	55	7	25
*DL9CC	"	1,768	26	13	21
*DH1LAD	28	67,830	384	18	77
*DH2BR	"	57,528	343	18	76
*DL3ZAI	"	6,160	89	10	34
*DL9NEI/P	"	3,922	40	10	27
*DH4JU	"	2,059	45	8	21
*DH0CM	"	1,640	52	10	20
*DJ9ZB	21	187,416	481	36	135
*DL1IAN	"	77,013	378	28	101
*DL6AKK	"	8,700	75	16	44
*DJ0BX	"	8,350	109	13	37
*DK3DM	14	95,711	436	26	87
*DJ9DZ	"	32,376	315	14	57
*DF5PP	"	12,690	180	11	36
*DL3BRA	7	10,615	190	8	47
*DL4VBS	"	8,970	186	12	57

GERMANY

DL6FBL	A	3,630,750	3118	124	494
DL2NBU	"	3,118,432	2685	126	482
DJ4PT	"	3,023,258	2455	128	446
DJ6QT	"	1,515,220	1546	115	433
DF8WS	"	1,365,548	1328	107	380
DL2DX	"	1,043,905	1100	114	375
DF2RG	"	774,978	1031	97	357
DL8UCC	"	619,648	615	105	307
DK2XX	"	535,790	675	99	310
DJ8CR	"	401,310	907	73	273
DL1JPL	"	349,770	754	59	200
DJ0MMW	"	329,640	687	63	205
DK5WQ	"	267,121	423	72	251
DL8QS	"	256,128	523	85	263
DL9NCR	"	240,384	532	64	192
DL7MAE	"	232,256	466	71	233
DJ3HJ	"	222,831	532	56	187
DL0ER	"	219,045	640	55	200
DJ8UV/P	"	211,149	812	60	211
DL1LIA	"	170,560	572	47	117
DADHES	"	166,242	589	54	152
DL4SKF	"	112,041	383	52	159
DL3SR	"	96,320	325	39	121
DL7GW	"	74,582	360	35	143
DJ2UB	"	53,424	268	40	119
DL8DZL	"	46,718	197	39	102
DL9GFB	"	46,475	209	43	100
DK5JK	"	42,256	232	33	106
DL3DRY	"	38,352	249	26	110
DL4OCM	"	32,928	151	38	109
DL3DCY	"	13,068	125	23	76
DL5AJU	"	12,376	79	30	74
DL3SKF	"	12,193	98	24	65
DL5DSL	"	12,525	90	21	54
DL9DBZ	"	5,551	68	21	40
DL5SZ	"	564	34		

*ES43G 3.7	11,350	214	7	43	F5BBD	607,257	1080	74	283	DF0EE	263,264	884	34	118	*HA8XW	331,230	741	73	232	*IK5WGK	26,427	194	16	53
*ES6MO 1.8	18,288	352	46	400	F5RAB	368,244	739	71	247	F5RAB	68,256	98	12	36	*IK4YNR	237,510	554	62	211	*IK4YNR	5,428	84	10	36

EUROPEAN RUSSIA

RN6BY	A	2,972,270	3280	139	527	F5IHD	41,474	135	43	135	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*IK5WVJ	577,643	1860	39	132
UA6LU	A	1,448,568	1566	122	436	F5IHD	408	15	6	11	DL8DBW	52,129	589	17	60	DL7ALM	38,000	468	14	66	*IK5WVJ	577,643	1860	39	132
UA3APM	A	721,544	1567	91	313	F5IHD	408	15	6	11	DL7VMM	19,026	275	10	53	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RZ6ACF	A	465,451	759	93	250	F5IHD	408	15	6	11	*DL4JF	434,313	590	83	286	*DL2HX	398,670	741	62	249	*IK5WVJ	577,643	1860	39	132
UA10CMS	A	439,824	813	82	254	F5IHD	408	15	6	11	*DL2HX	398,670	741	62	249	*DL2HX	398,670	741	62	249	*IK5WVJ	577,643	1860	39	132

ICELAND

UA10MX	A	284,817	473	85	242	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA6JY	A	269,690	400	86	212	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA4LY	A	180,194	457	58	153	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

IRELAND

RA1AA	A	164,256	415	66	170	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RU6LC	A	144,716	437	64	189	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA1DJ	A	91,584	430	37	122	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

ITALY

RV6LOB	A	7,920	55	29	43	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RK6EZ	A	7,200	181	13	62	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RU6MM	28	20,520	131	20	70	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

KALININGRAD

UA3LPF	A	368	26	5	11	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA3AB	21	124,410	409	33	110	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RA3QUA	A	91,200	391	27	93	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

LATVIA

UA6LQ	14	394,065	1435	38	151	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA3AG	A	4,601	62	13	30	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA3XBB	A	1,170	23	7	19	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

LITHUANIA

RA4AA	A	709,863	1252	37	126	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RU4AA	A	248,301	963	30	111	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA6EE	A	81,918	393	20	64	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

GERMANY

UA10MZ	A	33,128	303	18	91	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
UA10Z	3.7	25,842	260	14	59	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RA3VV	A	14,649	235	8	49	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

RZ3OU	1.8	33,666	488	10	62	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
RA4CC	A	3,384	168	6	40	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RA3WA	A	753,543	1144	99	344	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

*RV3BR	A	475,167	1121	94	269	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*UA3BL	A	377,325	771	78	247	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RA3AF	A	316,344	701	71	223	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

*UA4LU	A	154,642	316	67	123	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RX3ARI	A	139,258	471	51	152	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RU4WE	A	124,017	440	50	151	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

*RV3AH	A	118,524	396	53	151	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RV1CC	A	63,954	285	43	128	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RA3QOC	A	50,888	260	30	102	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

*UA10CP/1	A	49,141	238	36	121	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RW10F	A	46,990	142	54	131	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*UA6LHM	A	40,548	233	24	69	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132

NETHERLANDS

*U1BA	A	34,625	217	28	97	F5IHD	408	15	6	11	DL3MHS 3.7	78,528	668	20	76	*DF7RX A	583,311	980	78	303	*IK5WVJ	577,643	1860	39	132
*RA4AFP	A	3,700	228	53	130	F5IHD	408	15	6																

*PAGMIR 3.7	18,300	289	9	51
*PA2SWL 1.8	14,158	252	7	53

NORTHERN IRELAND

*G10CUM A	32,482	202	25	84
*G14MWA	8,250	80	20	35

NORWAY

LA4BN A	40,300	200	35	95
LA4EU	17,028	151	24	75
LA6VDA	10,191	103	20	59
LA2QJA	8,065	123	17	57
LA2MJA	18,013	115	19	58
LA2 R	62,370	301	20	79
LA7AK 1.8	7,380	182	5	36
LA5JX	240	17	2	14
*LA7CL A	68,892	260	39	128
LA2EIA	67,080	340	31	125
LA2HFA	19,030	146	31	79
LA1KQ	12,834	136	23	70
LA9IHA	10,624	104	23	60
LA8ZJA	9,380	70	27	40
LA8LA	5,162	57	20	38
LA9CJA	3,120	54	13	33
LA2XIA	195	13	4	9
LA8WG	25,056	231	21	51
LA7SI 1.8	528	25	3	19

POLAND

SP8FHK A	601,783	1150	85	304
SP2JMR	323,016	600	83	261
SP6FBD	267,810	600	53	184
SP2AQJ	170,352	479	59	193
SP3JHY	140,377	350	54	175
SP5HAR	97,595	410	34	115
SP3BNC	90,090	335	37	117
SP3CCT	75,582	224	51	120
SP6CXH	39,809	255	27	94
SP9KJM	35,941	244	28	99
SP9LDI	32,630	228	32	98
SP5CEQ	25,312	151	30	82
SP9PHQ	24,684	173	28	74
SP9VRY	12,788	115	23	69
SP3FZN	9,125	71	15	59
SP5FNA	378	17	6	12
SP9W 28	231,132	1091	26	106
(Opr. SP9HWN)				
SP2QVI	53,802	374	21	77
SP5DDJ	39,676	327	21	70
SP5GRM 21	322,414	1237	34	129
SP4HKX	221,852	858	30	118
SP9NCJ	104,919	490	28	95
SP5BB	46,305	254	24	82
SP3CMA	3,690	59	11	30
SP4EEZ 7	212,214	988	31	120
SP9MQH	8,319	58	20	39
SP3GEM 3.7	244,325	148	33	112
SP9MAV	33,964	473	12	52
SP5XYX	14,632	394	10	52
*SP6CYE A	502,970	903	82	283
*SP6MLX	333,840	703	73	238
*SP7KYE	279,595	701	60	221
*SP280Q	245,280	683	52	240
*SP9HFZ	167,960	531	51	196
*SP1MHV	151,524	290	69	207
*SP1EIO	135,552	350	47	148
*SP7LZD	117,867	343	52	157
*SP9NLK	116,064	359	52	156
*SP9LKS	102,114	384	43	140
*SP5NHI	99,530	456	36	149
*SQ2BNM	60,725	220	38	134
*SP6CNP	56,947	275	38	129
*SP9PRW	50,320	150	48	100
*SQ6ADP/9	48,077	280	34	97
*SQ5AAS	46,171	320	59	99
*SP1AFU	36,116	250	34	100
*SQ2HEB	35,244	214	32	100
*SQ1EIX	30,100	163	35	105
*SP5DRE	29,900	197	24	63
*SQ5EXM	25,296	185	26	93
*SP9LDP	24,308	120	36	82
*SP1RWK	22,781	177	24	85
*SP7LHX	16,340	169	28	50
*SP9PKM	14,886	306	10	21
*SP4MPH	12,768	105	27	69
*SP6JF	11,544	60	30	48
*SP9IKN	10,263	199	37	121
*SP3VAU	9,728	54	30	46
*SQ3BYH	8,496	84	19	53
*SP5OXJ	6,752	54	27	51
*SP9XUE	5,670	100	14	40
*SP9EH	5,382	106	16	40
*SP6POE	5,100	44	20	40
*SP4KWO	5,077	98	24	53

*SP2XDR	3,159	150	10	27
*SQ9DXN	1,978	40	12	31
*SP2FWC/P	1,150	30	18	28
*SP9W 28	169,164	1022	26	101
(Opr. SP9HWN)				
*SP5LCC	12,180	140	15	43
*SP9KGG	8,944	159	10	33
(Opr. SQ9DDH)				
*SQ8GBN	1,710	41	8	22
*SQ8DFR	1,568	22	11	17
*SP6EJY	420	15	5	7
*SP7DZA	396	18	6	12

*SP3SLA 21	252,844	807	32	136
*SP30JJ	194,388	517	35	132
*SP5LKM	118,990	485	33	113
*SP9JCN	23,250	178	17	58
*SP9HOC	20,944	117	21	67
*SP9CAY	18,870	85	25	77
*SP6PCB	375	15	9	12

*SQ5FWS 14	93,708	484	26	88
*SP9DYK	37,392	303	18	64
*SP26NB	33,453	256	20	61
*SP6PRT/P	15,176	194	10	46
*SP6IXU	12,006	72	19	50
*SP1EOM	10,070	144	11	42
*SP3GHK/P	7,175	140	9	32
*SP3BHI	5,628	74	8	34
*SQ8AMI	4,992	87	9	39
*SQ4CTM	4,032	82	10	26
*SP6AU	2,210	44	8	18
*SP9ABU 7	17,710	188	13	57
*SP7MUZ	8,850	159	15	35
*SP3GTS	6,480	101	7	47
*SP2EXN 1.8	7,250	50	5	29
*SP2QCH	5,904	143	6	35

PORTUGAL

CT1AUG A	533,596	868	67	199
CS1A	383,084	855	69	209
CT1BXX	271,320	513	67	218
CT1AHU	181,260	757	23	83
CT4NH 28	363,987	1176	26	127
CT1D1Z 21	803,938	2363	33	134
CT1BNW 14	118,950	466	29	101
CS1SL	80,352	412	23	85
*CS7BWW A	698,175	1024	86	235
*CQBIEF	304,704	707	56	136
*CT1EGH	203,581	449	59	170
*CS5EWA	65,565	222	48	107
*CT1ESQ	41,307	258	35	112
*CT1FLD	34,860	249	48	92
*CT1FTM 28	21,899	157	13	48
*CT1EJZ	18,150	141	17	49
*CT1CLR	7,748	100	12	40
*CT1ELF	5,772	52	13	25
*CT1ELP 21	280,872	1139	29	112
*CT1AZS	9,730	65	17	48
CT4NC	256	16	3	13
*CT1A0Z 7	176,001	756	23	96
CT2GLT	4,264	73	7	45
*CT2FZJ	1,850	70	4	21
*CT2GPT	984	40	6	18

ROMANIA

Y03APJ A	1,230,528	1900	100	364
Y03FF 14	60,208	353	25	81
Y04AYE	12,400	141	15	47
Y02LI	4,116	137	12	20
Y2PC 3.7	50,176	768	10	54
(Opr. Y02LIF)				
Y09GJY	11,592	248	3	43
Y09KVV	2,900	24	5	15
(Opr. Y09GJY)				
Y02LHD	864	37	5	19
*Y03FRI A	739,440	1242	93	297
*Y03GJC	652,176	1412	82	254
*Y04CIS	515,775	1012	82	263
*Y05CYG	343,608	946	78	200
*Y08FR	289,044	630	52	207
*Y04GDP	187,460	654	46	150
*Y07ARY	163,374	502	59	190
*Y03GCK	86,304	295	49	137
*Y03NL	51,300	321	25	125
*Y02BS	16,576	108	20	26
*Y08ROO	11,628	126	25	51
*Y08GF	4,380	123	30	30
*Y03JF 28	75,388	653	21	73
*YR7C	14,809	203	16	43
*Y03AIL 21	53,707	185	31	88
*Y04GAO 14	465,408	2062	34	114
*YC5TP	57,000	400	23	72
*YC8BPK	33,858	283	20	61
*Y04ATW	24,180	200	18	60
*Y2PR 3.7	31,265	510	10	55
*Y05PAP	22,684	422	7	46
*Y09AB	9,648	181	8	40
*Y02EH 1.8	2,550	74	9	25
*Y02BB	1,815	55	5	28

T7TV 14	673,679	2841	35	128
(Opr. IV3TMV)				

SARDINIA

IS0HHA 21	34,977	288	20	69
*IS0BWT A	198,250	597	60	190
IS0IGT	10,563	437	24	75
*IS0NHT 28	122,200	1047	22	82
*IS0GYW	120,539	800	19	84

SCOTLAND

GM0FET A	582,612	1043	61	221
GM3BCL	421,452	733	61	215
GM0EGI	378,000	760	57	213
*GM4CUX A	39,646	195	28	58

SICILY	894,704	1446	96	302
IT9WPO	104,834	764	20	86
IT9BJF	228,921	365	72	159
IT9ORA	13,144	100	32	74
*IT92YT 21	69,324	404	26	80
*IT9STX 14	159,175	2232	38	127
IT9ICS				

Table with columns for country codes (e.g., UT20T, U77LA, UX0HA) and numerical values. Includes sub-sections for BRUNEI, EASTERN MALAYSIA, GUAM, HAWAII, INDONESIA, and WALES.

Table with columns for country codes (e.g., *VK4EJ, *VK3NDS, *VK4MOJ) and numerical values. Includes sub-sections for BRUNEI, EASTERN MALAYSIA, GUAM, HAWAII, INDONESIA, and WALES.

Table with columns for country codes (e.g., *LU1AEE, *LU5EVK, *LU5ER) and numerical values. Includes sub-sections for ARUBA, BOLIVIA, BRAZIL, and GUYANA.

Table with columns for country codes (e.g., *PY3RS, *PY2SR, *PY2WKG) and numerical values. Includes sub-sections for ECUADOR, GUYANA, NETHERLAND ANTILLES, PARAGUAY, PERU, TRINIDAD & TOBAGO, and URUGUAY.

Table with columns for country codes (e.g., YU1KN, KH6/NOKE, KD2TT) and numerical values. Includes sub-sections for VENEZUELA, ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., GW4BLE, GW7J, 4N9BW) and numerical values. Includes sub-sections for YUGOSLAVIA, NEW CALEDONIA, NEW ZEALAND, NORTHERN MARIANAS, PHILIPPINES, SOUTH AMERICA, ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., *FK8VHN, ZL4AS, WH0AAV) and numerical values. Includes sub-sections for YUGOSLAVIA, NEW CALEDONIA, NEW ZEALAND, NORTHERN MARIANAS, PHILIPPINES, SOUTH AMERICA, ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., ZW2WAL, PT2TF, PT2HF) and numerical values. Includes sub-sections for BRAZIL, GUYANA, NETHERLAND ANTILLES, PARAGUAY, PERU, TRINIDAD & TOBAGO, and URUGUAY.

Table with columns for country codes (e.g., 8R1K, ZP2/, DH1PAL) and numerical values. Includes sub-sections for GUYANA, NETHERLAND ANTILLES, PARAGUAY, PERU, TRINIDAD & TOBAGO, and URUGUAY.

Table with columns for country codes (e.g., YU1RE, *YU1RA) and numerical values. Includes sub-sections for ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., VK2ARJ, VK3TZ, VK1MJ) and numerical values. Includes sub-sections for AUSTRALIA and ANTARCTICA.

Table with columns for country codes (e.g., *LUBAD, *LUBHL) and numerical values. Includes sub-sections for ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., *PY1AEE, *PY1AEE) and numerical values. Includes sub-sections for ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., YV6DBW, YW1A, YV4FZM) and numerical values. Includes sub-sections for VENEZUELA, ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table with columns for country codes (e.g., KS1L, K1MY, W1GD) and numerical values. Includes sub-sections for ARGENTINA, SOUTH AMERICA, AUSTRALIA, and ANTARCTICA.

Table of radio frequencies for various countries including Europe, Belgium, Croatia, Czech Republic, Denmark, England, European Russia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Lithuania, Luxembourg, Macedonia, Northern Ireland, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, Ukraine, USA, and others. Each entry includes call letters, frequency, and power.

Table of radio frequencies for various countries including Europe, Belgium, Croatia, Czech Republic, Denmark, England, European Russia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Lithuania, Luxembourg, Macedonia, Northern Ireland, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, Ukraine, USA, and others. Each entry includes call letters, frequency, and power.

CANARY ISLANDS			
EA8ZS	13,864,862	6124	161 653
EAB7			
DL6MHW	3,937,682	3362	88 334
MADEIRA ISLANDS			
CT3BX	11,414,125	5733	144 575
REUNION			
FR/IK2RXV	636,620	1061	61 168
SAO TOME & PRINCIPE			
S97A	1,027,065	1542	57 172

ASIA			
ASIATIC RUSSIA			
RZ9AZA	6,335,166	3776	154 513
RK9SWF	760,095	1000	81 234
ASIATIC TURKEY			
YM3SV	931,270	1476	43 187
TA2KB	525,192	872	51 186

CHINA			
BY4RSA	1,339,056	2208	106 200
BY1BY	61,478	362	42 76
BY5ON	44,166	331	36 66

CYPRUS			
P3A	16,143,795	8315	164 635

JAPAN			
JH7PKU	3,734,740	2718	157 372
JA1ELY	3,068,432	2267	156 337
JA1YKX	2,264,068	1969	135 317
JE6ZIH	2,242,209	2086	137 306
JR1ZTT	2,022,543	1894	136 297
JA7YAA	1,980,341	2045	144 307
JA9YAA	1,417,665	1253	135 300
JH7AFR	946,475	1271	104 185
JABYAK	912,152	1035	104 219
JA9YBA	706,515	916	107 228
JA6ZLI	608,832	799	96 192
JJ2ZEY	577,225	940	94 181
JN1ZDF	298,556	553	76 126
7J1YAA1	102,527	231	86 97
JA2RL/2	5,280	64	21 27

JORDAN			
JY8XY	481,839	981	47 136

KAZAKHSTAN			
UN8LW	4,620,231	3410	130 401
UP0F	27,375	164	24 51
KHIRGIZIA			
EX9A	4,576,302	3722	125 423
KOREA			
HL00	234,832	738	74 134

KUWAIT			
9K9K	2,356,992	2503	95 301
MONGOLIA			
JT1T	1,306,010	2877	101 204
OMAN			
A47RS	2,216,907	2241	112 329

THAILAND			
HS2YM	254,800	952	76 132

EUROPE			
AUSTRIA			
OE5T	912,448	1552	90 334
BELARUS			
EW4XA	413,952	1287	65 229

BELGIUM			
OT7T	7,695,592	4007	160 684
OT7P	2,757,483	2582	119 458
OT7C	1,965,136	2252	114 353

BULGARIA			
LZ9A	6,346,650	5201	152 573
LZ5Z	6,148,850	5409	163 612

CROATIA			
9A7A	4,012,358	3878	137 482
9A5D	2,610,438	3388	78 101
9A9D	1,781,940	2373	91 363

CZECH REPUBLIC			
OK5W	5,109,184	3408	151 625
OL5T	1,584,609	2203	111 422
OL2A	720,244	1400	88 318
OK2KOD	524,564	944	79 268
OK2KJU	502,435	1324	84 307

OK1KUA	122,220	404	48 162
OK1KUJ	55,874	403	22 69
OK1KCF	37,638	177	37 116
OL5Q	33,573	633	8 49

DENMARK			
OZ5W	4,256,845	3449	136 519
OZ9KY	2,180,136	2525	115 417
OZ7HAM	394,940	969	65 245
OZ5EDR	146,118	507	44 169

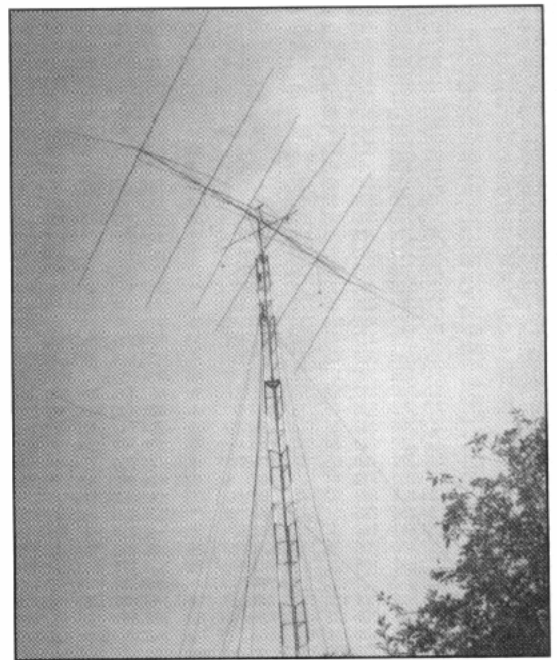
ENGLAND			
M7P	3,986,820	3162	133 557
G4UJS	3,415,707	3092	110 459
G3TRK	978,892	1304	92 312
G7B	654,480	1055	86 319
M7G	579,282	1205	60 202
M7C	10,385	96	20 47

ESTONIA			
ES5Q	1,726,050	2288	116 439

EUROPEAN RUSSIA			
RU6LWZ	5,323,787	4080	161 608
RZ3Q	4,553,556	4558	150 568
RN3R	3,437,280	3388	125 403
RUJAWJ	2,236,509	2251	131 420
RK4WWA	1,336,632	1434	126 362
RK4HYT	333,925	798	92 269
RK3EWA	101,200	381	51 149
RZ4PZL	30,772	165	34 64
RK10WZ	768	20	8 16

FINLAND			
OH7AAC	3,373,458	2983	139 508
OF1AF	3,300,347	3220	128 519
OH6AW	1,738,516	2350	110 389
OH5BM	1,697,952	1873	127 425
OHENIO	1,500,954	1577	119 427

FRANCE			
TM2Y	9,469,847	5163	159 658
TM1C	6,796,752	4679	140 548
TM2T	4,542,390	3844	143 595
F8KCF	2,688,196	2740	116 473
TM8A	2,584,296	3179	108 394
F8KZD	1,340,775	2003	109 396
F5KDC	260,576	1219	61 211
F8KOH	85,932	420	39 147
TM5V	81,087	395	43 136
FSKWP	78,900	400	50 100
F5SUL	58,824	275	35 117



Always a FB signal, 4N7B (YU7BJ), with 5-el quad on 20, 6 on 15 and 10.

GERMANY			
DL1MFL	4,197,028	2903	143 581
DF0DX	3,403,740	2715	134 571
DL0UM	2,591,865	2192	127 530
DL10Q	2,255,442	2246	119 462
DL0TD	2,018,250	2060	119 466
DF0AT	1,939,546	2078	112 462
DL5NAM	1,575,840	1530	121 467
DL0MBG	1,522,409	2073	119 434
DK40T	1,294,848	1550	112 450
DL0GK	1,171,836	1395	105 411
DF0DTE	743,070	1139	97 373
DK0ER	457,040	729	89 305
DF3AG/P	331,674	1006	59 239
DK6CO	305,905	691	61 256
DL0TUD	189,720	605	58 190
DL0CA	45,360	777	14 58
DK0ANO	12,672	121	20 52

POLAND			
SN2B	6,576,956	4423	162 650
SP9PFO	944,118	1457	87 326
SP3PLD	415,412	975	62 236
SP6HTO	264,270	439	86 259
SP9KRT	263,680	754	50 206
SNGL	228,430	641	100 165
SP6KFA	46,056	283	32 120
SP9KJU	4,399	70	11 42
PORTUGAL			
CS6S	888,939	1269	80 307
CT2FUR	150,790	587	43 127

SAN MARINO			
T70A	3,728,151	4511	103 428
SCOTLAND			
GM0NTL	348,243	698	66 243
SICILY			
IT9KWF	380,337	760	64 227
SLOVAK REPUBLIC			
OM3A	3,101,324	3451	117 425
SLOVENIA			
S50G	1,860,988	2486	109 417
S52FO	252,317	805	36 133
S53AJL	17,841	330	10 47

SPAIN			
EA5BY	2,939,744	2904	120 492
ED3TR	2,384,760	3145	109 392
ED1II	2,291,490	2655	90 320
EA3RKG	1,263,000	2012	98 323
EA1EEY	1,120,752	1588	81 306
ED2WW	953,040	1500	76 228
EA3GW	734,033	1599	61 202
ED5WWC	566,392	1056	75 257
EA1FEF	565,948	1020	70 232
EA1C0Z	554,229	929	71 280
EA1BDI	547,128	913	66 240
EA3KA	360,774	819	70 236
EA1RCT	164,832	587	48 154
EA7BJV	138,537	449	44 145
EA5KB	112,310	441	22 105

SVALBARD			
JW5E	613,319	842	89 198

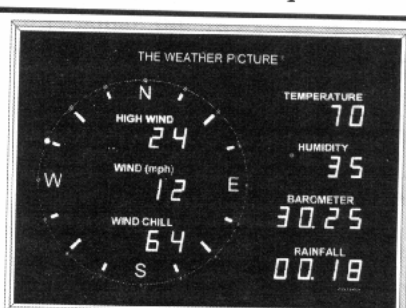
SWEDEN			
SM5FQQ	2,202,872	2656	117 449
SL3ZV	455,430	1309	47 123
SM0RGM	58,000	243	38 107

SWITZERLAND			
H89H	4,335,155	3339	148 597
HB9CK	591,976	1655	64 244

UKRAINE			
UA2AA	4,014,828	4153	139 548

KENDOO™
BATTERIES
 The perfect match
 For
 YAESU • KENWOOD • ICOM
 ALINCO • MAXON • STANDARD
 or MOTOROLA radios
 NiCd or NiMH
 Large Inventory
 Best quality, unbelievable price
 1950 NW 94th Ave., Miami, FL 33172
 Tels.: (305) 592-9688 / 592-9898
 Fax: (305) 592-4562
 E-Mail: sales@kendoo.com
 www.kendoo.com

CIRCLE 56 ON READER SERVICE CARD



Size shown: 15 1/4" x 11 1/4"

Put the weather on your wall

The Weather Picture™ is an eye-popping new wall unit that continuously displays all the vital weather data you have selected, without having to press a single button. Big red numerals are easy to read from across the room, day or night. Available in two sizes, in brushed aluminum or elegant solid teak frame. The separate control unit provides detailed data—more than enough to satisfy even the most dedicated weather buff.

Purchase the Weather Picture together with the incomparable ULTIMETER® Weather Station, starting at under \$400. Or add it to your existing ULTIMETER System for less than \$170. It's easy to add programmable display modules to The Weather Picture now or later as needed.

For complete details, call toll-free, fax, or write us. Or visit our Web Site to see and try our ULTIMETER Systems. "The best!" says *WeatherWatch* magazine (5/96).

1-800-USA-PEET

or 732-531-4615 FAX: 732-517-0669

www.peetbros.com

©PEET BROS COMPANY

1308-809C Doris Ave., Ocean, NJ 07712

Shortwave Receivers Past & Present

Communications Receivers 1942-1997



- New 3rd Ed.
- 108 Chapters
- 472 Pages
- 840 Photos
- Printed 03/98
- Covers 1942 to 1997.
- 770 Receivers
- 660 Variants
- Includes 98 U.S. and Intl. manufacturers
- \$24.95 (+\$2 ship)

This huge 472 page Third Edition includes over 770 shortwave and amateur communications receivers made from 1942 to 1997. Here is everything you need to know as a radio collector or informed receiver buyer. Entry information includes: receiver type, date sold, photograph, size & weight, features, reviews, specifications, new & used values, variants, value rating and availability. Ninety eight worldwide manufacturers are represented. 840 Photos. Become an instant receiver expert!

Universal Radio

6830 Americana Pkwy.
Reynoldsburg, OH 43068
♦ Orders: 800 431-3939
♦ Info: 614 866-4267
♦ FAX: 614 866-2339



UT7L	1,491,600	1684	118	410
US3I	1,316,529	1718	105	348
UT4UWC	312,998	767	58	225
UX0Z	170,177	580	34	170
UR4PWC	159,752	505	46	156
UT4UWT	129,042	547	45	169
UR4MWU	99,648	381	46	146
UR4QWV	11,400	80	20	55

WALES
GW8GT 3,680,568 3635 119 463

YUGOSLAVIA
YT0X 1,164,168 1639 98 358
YZ1V 227,962 637 59 205
YU1AAX 22,148 178 31 82

AMERICAN SAMOA
KH8/N5OLS 4,355,298 4048 138 249

AUSTRALIA
VK4MZ 3,211,468 2858 118 291
VK4DZ 2,749,124 2874 100 229

FRENCH OCEANIA
F08DX 5,667,884 4998 141 271

GUAM
NH2C 8,567,056 5475 158 396

NEW ZEALAND
ZL1AA 3,975,195 3660 122 271

NORTHERN MARIANAS
KH8A 5,365,019 4414 142 297

PHILIPPINES
DX1S 798,966 1798 76 150
4G2X 631,680 1342 65 103
DX1CW 393,828 1076 58 90
DX1E 57,768 314 33 54

SOUTH AMERICA

ARGENTINA
LT1F 5,126,648 4721 136 373
L40H 5,116,137 4219 125 382
LU6FBI 4,522,722 3425 144 438
L20H 3,509,405 2940 126 360
L50V 1,964,100 2442 83 217
LU1NF 1,653,913 1912 94 265
LU8DZE 909,250 1392 83 167
LTSV 453,765 1325 34 105
LU1HPW 218,450 855 55 115

BRAZIL
ZW5B 12,204,017 6486 148 561
ZY2HT 2,145,780 3104 97 267
PX2U 411,551 677 71 156

CHILE
CE8T A 5,653,488 4679 115 341

FERNANDO DE NORONHA
ZX0F 19,653,570 8563 169 661

GALAPAGOS ISLANDS
HC8N 18,251,755 8670 156 589

NETHERLAND ANTILLES
PJ9Q 2,315,685 2851 95 222

PARAGUAY
ZP0R 4,327,245 3652 127 380

MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA

UNITED STATES
N2RM 14,581,824 6496 169 709
K3LR 13,866,204 6298 176 700
KC1XX 13,311,886 5946 166 723
W3LPL 12,525,218 5793 173 720
K1KI 11,720,112 5250 164 688
W1FJ 6,707,920 3454 154 610
N4ZC 6,045,800 3332 159 581
K1RO 6,239,734 3127 149 585
K1NU 5,801,152 3499 151 585
N04I 5,363,280 3202 154 566
W2AX 4,974,312 3011 149 547
K1RX 4,644,721 2811 144 559
W4MYA 4,470,200 2691 153 568
W3EA 4,404,667 2866 148 535
N6AW 4,183,420 2940 141 404
K2NG 3,864,240 2126 151 569
W3PP 3,590,625 2395 137 488
KV1W 3,460,716 2144 140 511
K2WS 3,255,174 1875 147 555
K06N 3,120,078 2762 136 371

K3ANS 3,104,824 1992 140 512
K3II 3,103,659 1872 138 500
W6AIH/9 2,995,650 1983 148 486
W6EEN 2,444,946 1985 133 350
K8WT 2,229,624 1846 122 397
K1KP 2,222,880 1686 109 419
K2KV 1,880,463 1505 113 394
N38NA 1,747,372 1137 132 472
N3NS 1,739,352 1192 117 431
W0GJ 1,666,614 1471 132 402
KB1H 1,483,802 1152 108 383
K80WY 1,046,112 999 107 301
K1CW 988,754 858 100 342
WS4F 922,296 804 111 352
WS2U 895,050 877 108 334
K7FR 849,376 1003 104 248
W7MMQ 645,840 853 107 244
K2WB 586,920 667 90 275
W1UK 456,599 565 84 257
N3RU 366,450 495 86 263
K0U 312,312 518 81 183
K3BSA 236,096 375 55 183
W2UB 234,090 335 76 194

ANTIGUA
V26B 27,797,193 13848 167 706

CANADA
C19D 16,832,893 9676 153 628
VE6FI 2,318,400 3185 108 260
VE5RI 733,380 1447 82 173

GRENADA
J3A 12,533,220 10283 140 469

HONDURAS
HR3/DL7DF 5,672,766 6503 115 292

ST. PIERRE & MIQUELON
FP/KG8CO 4,263,754 4486 107 344

TURKS & CAICOS
VP5T 9,551,900 7534 129 446

U.S. VIRGIN ISLANDS
WP2Z 4,392,293 5221 111 310

ASIA

ASIATIC RUSSIA
RK9AZZ 193,053 405 56 147

JAPAN
JH5ZJS 9,065,943 5318 172 485
JA3ZOH 7,843,845 4395 165 480
JA7YRR 3,752,452 2791 154 330
JA6ZPR 2,981,328 2095 148 384
J01YAU 2,028,136 1982 135 283
JN1YUU 1,400 28 9 11

TAIWAN
BP0A 2,309,760 3089 99 221

THAILAND
E22AAA 837,870 1587 101 229

EUROPE

BELGIUM
OT7A 12,724,446 8880 170 729

CORSICA
TK5NN 22,787,820 14769 175 760

CROATIA
9A1A 18,156,595 11633 177 764

CZECH REPUBLIC
OK10KE 431,360 985 68 252

EUROPEAN RUSSIA
RW6AWT 7,461,180 6131 161 659

FINLAND
OH2HE 9,537,615 6964 167 670

FRANCE
TM5S 254,024 900 47 179

GERMANY
DK5EZ 2,441,215 2418 128 537

GREECE
J41DKL 604,604 1668 75 233

LIECHTENSTEIN
HB0/
HB9AON 4,585,732 5599 106 460

LITHUANIA
LY7A 3,801,189 4665 135 516

NETHERLANDS
PI4COM 7,537,196 6025 153 649

POLAND
SP5ZCC 690,690 1334 79 306
SP5ZIM 270,830 766 61 204

PORTUGAL
CS0RCL 140,244 605 47 139

ROMANIA
YC9KPD 110,664 467 43 131

SCOTLAND
GM7V 8,372,049 6927 142 620

SPAIN
EA4URE 6,399,100 5679 148 571
EA3AAY 3,981,474 3514 119 448
EA5EZM 859,320 1459 94 340
ED7VG 449,904 1265 68 241
EA4RCT 190,284 562 56 146
EA4AHW 92,225 457 44 173

SWEDEN
SK6NP 300,200 940 63 253

WALES
GW7K 1,056,178 1744 74 285

OCEANIA

CHATHAM ISLAND
ZM7A 3,593,216 3947 113 239

HAWAII
KH7R 14,392,608 9656 171 373

INDONESIA
YB3ZBZ 41,837 157 41 66

NEW CALEDONIA
FK8GM 6,180,384 5735 135 273
TX8KAB 711,540 1052 83 153

NEW ZEALAND
ZM2K 5,800,542 4923 125 318

PAPUA NEW GUINEA
P29AS 15,379,068 9087 161 445

SOUTH AMERICA

ARGENTINA
L70FM 12,063,184 8233 148 444

NETHERLAND ANTILLES
PJ9B 36,656,640 14927 175 713

URUGUAY
CW5R 6,268,372 4972 110 326

CHECK LOGS

Our thanks to the following stations who sent in check logs:
4N4TM, 4Z5DW, 4Z5GV, 4Z5JZ, 9A1CEV, A45XR, C31LJ, CU3AD, CU3CO, CU3EJ, D2BB, DFOBA (Opr. DF3AAA), DJ0SH, DL2RTL, DL3NEO, DL5JMN, DL5SVB, DL5ZB, DI8FCU, EA1ATL, EA1CI, EA1CX, EA1CZF, EA1EBJ, EA1F, EA1KW, EA2COP, EA3CZM, EA3DUJ, EA3FYD, EA4AFI, EA4AQT, EA4BHK, EA4CEN, EA4FW, EA5AJX, EA5AL, EA5ANQ, EA5AOM, EA5BZS, EA5FVK, EA5VV, EA7FLT, EA8AHB, EA8ASN, EC1ALT, EC1DAV, EC4AIV, EC4DHA, EC5AFN, EC5AIH, ES5RW, EW8CM, EW8DA, FSYJ, G0WAZ, H22A (Opr. UA9AR), HA0BR, HJ3PXA, HS0JA1Z, IT9ESW, JA1BUJ, JR0MVH/3, K6FM, K7AA, K7FEF, LA2TD, LA4OGA, LA5LT, LA5YV, LA9LO, LA9VA, LU7MEC, LU8EE, LZ1KWT, LZ3RN, LZ5DB, NA5B (Opr. W5AO), N0CXF, OH2LYP, O-6HSU, OK2KRT, ON6CQ, OZ2LO, PA0JED, PA3EXI, PPSAM, PT2NP, PU3GU, PY2PLC, PY3ADY, RA3QOB, RM3JHK, RX3MX, RX4CD, SK4UW (Opr. SM4JHM), SM0CSX, SM0LZT, SM3MHD, SM7BJW, SP1UPA, SP2DWA, SP2IU, SP3BLT, SP4AS, SP4DZT, SP4CGJ, SP4SAF, SP5BNB, SP5ENA, SP5FLB, SP6NVC, SP6DJE, SP7EJS, SP7GAO, SP7ICE, SP8FHM, SP8HKT, SP8JMA, SP8KBZ, SP9AVZ, TZ6SI (Opr. DJ6SI), UA00CW, UA0FZ, UA0JDD, UA0ZY, UA3DSS, UA3XBB, UA6BS, UA9MAZ, UN7RBD, UN7TO, UR5FJ, UO4JMJ, VE3BR, VE3DNR, W1PCD, W4ZCT, W4ZYV, W7LQO, WA0BDF, Y02BP, Y03AS, Y04BUS, Y05CUU, Y08AI, Y08AX, Y08CRU, Y08KOS, Y09BVF, Y4D, YU1B0, YU4WU, YV5BPG, YZ4IZ, Z2ZJ.

Disqualified: For unverifiable contacts G4KIV; for Rule XII violation KC6EYI/Z.