Results of the 1991 CQ World-Wide DX SSB Contest

BY LARRY BROCKMAN*, N6AR/4*, AND BOB COX, K3EST/6**

The sun was shining brightly on that fine Friday in late October. "Yep, those are sunspots up there, no doubt about it," remarks Horace as he shades his eyes from the sun. Another good sign for this year's CQ WW! With the propagation numbers all going out of sight, Horace feels this is the year for the all-out effort on 10 meters. No more sleepless nights and all band efforts. Our hero has the right idea—break the all-time record on 28 MHz at the peak of the cycle.

That was the way Horace entered the competition. And what a beginning it was, too—all those JA's and YB's, and even four or five BY's and BZ's. What a start! The band conked out about 06Z, rather late for the East Coast, but just one more sign of the good time to be had in the thick of the European opening in the morning.

After a refreshing 4 hour nap, Horace is up and about at 10Z for the crest of the mind-boggling opening to the east. Indeed, there are already some ZS boys in there and a few Europeans, too. Wow! As the morning unfolds, so does Horace. He melts into that microphone as he racks up 2 or 3 hours of incredible rates. Why, Horace has peaked over 250 an hour, and it's not even 3 hours into the opening.

And then it happened. That slow, sure, low-pitched hiss began to make its way into Horace's senses through his receiver. All of a sudden the guys have stopped calling him. Could it be? Horace peeks at his packet screen. Horace knows how to play that game, too; just turn the packet on, but don't type the connect command! What's this, a talk message from John. "Gotcha, Horace. Listening on packet, eh." Why that dirty rat. But there are more important concerns now—the WWV report. *A solar flare at 1503!* Oh no, not now. But for sure, there's a solar flare. In just a few short minutes the band is DEAD—really DEAD. The band stayed dead, too, right up into Sunday afternoon. What a pity.

In 1991 the above "Nightmare on Elm Street" did not occur. The propagation held up throughout the weekend. Alas, just the day after the contest ended, there was a flare. We have all been fortunate that our contest has been spared such a horrible fate. This year, 1992, has been marked with frequent flares. We'd like to urge you all to plan ahead. Think carefully about your choice of category this year; maybe a bit more low-band activity would be wise.

The All Band Results

While conditions were down from last year, Old Sol nevertheless provided the basis for another outstanding series of all band entries in the World competition. Ville, OH2MM, came out on top with a fantastic 12.9M, not enough to break Martti Laine's 1990 record, but within fighting distance of it. John Crovelli, W2GD, came in second with a fine 10.8M from P40W, followed by HC5R, operated by Jim, W7EJ; Dave, 9L1US, at 9.2M; V29W at 9.2M, operated by Bruce, KD6WW; and P40V at 8.9M, operated by Carl, AI6V. Ville had 200 contacts more than John, but the real secret to his success was the 90 extra multipliers. Jorma, ZB2X, managed another European high effort, good enough to eke out a new Continental record, besting YT90A's 1990 mark by just a few thousand points. GW4BLE finished second at 4.4M, pointing out that the 10 meter conditions were quite a bit down from last year in the Northern Latitudes. Stateside honors went to John Dorr, K1AR. There must be a secret somewhere in all that analysis on the CQ contest that John reports about in his column! KM1H, manned by Bob, KQ2M, was second with 4.5M; followed closely by Bill, K4XS, at 4.4M, and WM5G with 4.2M, operated by Jeff, KR0Y. Finally, some balance across the land with the northeast, south, and Texas represented in the top 10.

In the fledgling Low Power Category, ZC4BS topped the field with 5.2M worldwide, with K7RI taking the top honors in the USA at 1.2M, and LY3BX besting the European entries with 2+M. Note that an asterisk (*) is used in the results to designate Low Power (defined from now on as 100 watts output or less). All of the High Power entries in a country or call area are grouped together, followed by all of the Low Power entries. This new category was very popular considering the notice we were able to give. We noticed an increase in participation in Japan, India, and several other places where licensees are limited to low power or low power privileges predominate. Please be sure to label your logs "LP" if you plan to enter this category next year. It makes it a lot easier for *CQ* to make sure your log gets entered in the right category.

Ville, OH2MM, is shown here at the operating position of this year's all band Single Operator winning station, CR3A, with the cool 12.9 million!

The second-place Multi-Multi crew at KH0AM participated in K1EA CT primer classes all day Friday, just before the contest.

The Single Operator Assisted category likewise grew this year, particularly with all the packet generated pileups. Note that there are no power categories for Single Operator Assisted, nor are there power categories for the two Multi-Op categories. This year's Assisted winner for both the World and the U.S. is Hugh Valentine, N4RJ, with a fine 4.0M. IR8A led the growing Assisted contingent in Europe with 2.7M. A special word of thanks to the Assisted entrants for their honesty.

High-Band Results

Ten meters continued to dominate the Single Band categories this year, with Oms, PY5EG, taking the top spot worldwide from ZV5A with 2.9M, besting ZP0Y's 1990 World and South American record by a few thousand points. Jim Neiger, visiting his ZD8Z location, finished second after beginning as an All Band entrant. Jim's fine 2.3M captured a new African record. The World High Low Power Single Band effort was done by Z21HQ, with an amazing 1.2M points and just 100 watts! USA honors went to NR5M (478K) for the second straight year; European accolades go to CQ4A, operated by Joao, CT1BOP, with 1.2M.

Fifteen meters was also hot this year, with another Brazilian taking the top spot. Peter, PY5CC, used the special ZX9A prefix to advantage, as he edged out arch rival ZP0Y with a fine 2.5M. Gil, FM6A, finished third with a new North American record at 1.8M, wiping out V22A's old 1986 mark. An Asian record was set on 15 by 7L1GVE, whose 1.2M just nudged out 7L1GVV/8's '90 mark. K3RV/4 piled up a comfortable lead on 21 MHz in the States and posted a fine 850K. European honors went to OK1RI with 805K. LU1ICX's 461K bested the low power boys on 15. These great scores on 10 and 15 come at a time when many stations in the midwestern and western portions of the USA, and the north-

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ern and eastern parts of Europe, complained of terrible conditions (see the QRM section for the specifics).

Twenty meters, always the most reliable band for propagation, provided its share of fun this year. Italo, YW1A, snagged the prize with a great 1.3M score, followed closely by another Brazilian, ZY5EG. LZ5W's 169 countries helped him to finish third, tops in Europe. KS1L demolished the competition in the States with 515K. One of the benefits of the addition of the Low Power category was the heightened interest on the subcontinent, as VU2PTT racked up a fine 272K on 20 meters for worldwide top dog. Boy, 100 watts is tough on 20!

Low-Band Results

This was a tough year on the Low Bands, as 160 and 80 meters dramatically illustrate. In fact, no records of any kind were set on those two bands. On 40 meters Jim Rafferty, ZF2JR, fought hard to best his '90 winning performance. Although Jim managed a first place slot worldwide with 632K, he fell shy of his record. KC7EM topped the US field with a fantastic 263K, good enough for 6th place worldwide. His was one of only two USA entrants to make the worldwide top scores in any of the Single Op unassisted categories this year. It was also the only new US record set this year. G3NLY took the European top slot with over 400K. We would be remiss if we didn't mention HA9BVK's fine Low Power 139K winning score on 40 meters. What a signal on 40 SSB here in the States for 100 watts!

By the way, 40 SSB provides a lot more promise than most of you guys give it credit for. Lots of stations were heard here in the States who never "listen up." We heard UM8, UI8, and other deep Asian calls very well at sunset here in the States, but few seemed to listen in the US band. In fact, 40 provides much better propagation to most places than 80. Yet some of the top all band and multi-op entry contact totals seem to be way down on 40. As we start swinging down the sunspot cycle, why not give 40 more attention in 1992?

We couldn't help but be struck by enthusiastic comments from the participants about "firsts" on 80. P29DX, who led All Band Oceania contestants, remarked that he worked his first European ever on 80 during the contest (see the QRM). Indeed, the band provided GW4OFQ 183K worth of propagation, for a fine pacesetting World High. The Europeans took the top four slots on 80, with Y21CW, DL3LAB, and ES5RY rounding out the field. K1UO was fifth in the World and tops in the USA. Low Power afficianados LZ1DM and YO3RU battled it out for tops in the World at 47K and 41K, respectively.

The Top Band conditions were enough to drain anyone's patience. IV3PRK managed an unbelievable 28.8K for worldwide lead; but OZ3SK's 19.2K for the top Low Power entry was a mind-boggling accomplishment. Uncle Sam participants were held under 5K, with AB4RU leading a field of southerners. (Special note to second place finisher, AA4MM: We didn't lose your log this year, Leo!!)

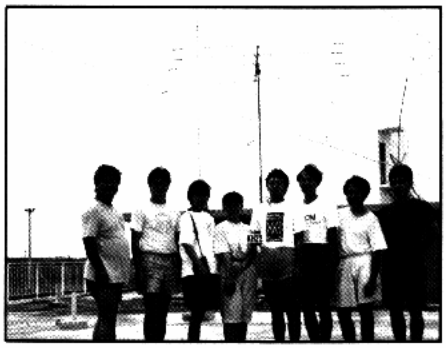
Multi-Op Categories

The only category sporting a World record effort this year was Multi-Single. In a hot competition from the southern Caribbean, the predominantly FRC team at PJ1B took high honors with a fantastic 21.2M, edging the Southeast DX Club team at P4ØT with their 19M. Both teams beat the old World and South American 18.5M standard set by P4ØV in 1989. The 40 meter contact and multiplier edge made the difference! By the way, we saw some slides of the P4ØT setup, which went up at the last minute on the rooftop of the hotel. These guys in the Multi-Op Expedition categories do a tremendous job setting up in short order. We also saw the slides of the beach and pool! Great off-work duty in anybody's book.

Peter Sprengel, PY5CC, took World High 21 MHz honors as ZX9A.

Other Continental records were set by 8P9Z and KH2S. Third place went to the 8P9Z team, who set a new North American mark of 15.9M, besting 8P9X's '89 effort. Sixth place finisher KH2S just murdered the old AHØB '88 record of 8M for Oceania with a fantastic 11.1M. The European top entry was the team at IQ4A, with 12.4M. The interesting thing about the IQ4A entry was the apparent strategy they followed—multipliers at the expense of contacts. The IQ4 boys had 931 multipliers, higher than the highest Multi-Multi, yet they were almost 4000 contacts below the PJ1B contact total! The Stateside top MS entry was Tim Duffy's K3LR crew, with 5.5M.

The Multi-Multi entrants were down quite a bit this year. VP9AD's crew led the pack with a substantial 28.0M, followed by KHØAM (25.0M). The first ever contest winner from Albania, the Hungarian crew at ZAØRS, finished first in Europe with 18.9M, and led all Multi-Multi entrants in the multiplier count with 916. They were also the only station in the contest this year to hit the 40 zone jackpot (on 15 meters). The ZAØRS drew more commentary in the QRM section than any entrant we can ever remember in the history of the contest. Congratulations on a job well done. The FRC guys at N2RM pulled ahead of the USA competition for the second year in a row, with a fine 12.9M, beating the arch-rival PVRC contingent at W3LPL with their 12.4M.



The KH2S "All Stars," shown here, demolished the old Oceania Multi-Single record. Left to right are JA8RUZ, JA8RWU, JG8IGL, JR4DUW, JH4RHF, JHØUSD, JH8PNE, and JRØBQD.

QRP Results

Smarting from last year's loss to Doug, KR2Q, 4M1G stuck it out again in the QRP category, and managed the World High with a fine 1.98M. He was hard pressed by ZX5A's second place 1.87M. These two top scores were almost a million points higher than Doug's winning effort in 1990, but considerably under the PJ2FR record. The rest of the competitors were over one million down from the top in points, with WA2UUK leading the USA contingent with 316K. G4BUE gave a super trial of his new Ten-Tec Argonaut, but finished third in Europe behind UA3DQH and TO1W.

Hurrahs

A giant hurrah to the FRC Team for the great 27M team contest effort. Come on, guys, let's give them some competition next year.

A special thanks to the guys who put some of the toughest zones on the air this year. We were particularly blessed with fine efforts from HSØE and HS1ZEB from zone 26; FR5DX in zone 39; CE3FIP in zone 12; AP2SQ in zone 21; the team at JT1J in zone 23; and the teams at VE2UMS and WD4KXB/VE2 in zone 2. Do it again, guys!

Comments

When you scan the rules for this year, pay particular attention to the following changes:

1. The requirement for a station to sign portable if he is in a different zone from the one indicated by his call has been deleted.

2. The rule that allows an extension in the log submittal date has been tightened (see section XIII, number 2).

3. The committee can require a disk for possible top scores on request, provided that the paper log or dupe checking material as originally submitted was a computer printout.

4. Format requirements for the data supplied on disks are clarified (see section XI, number 5).

5. The special consideration given on penalties for those submitting computer disks has been deleted due to the change in rule XI, number 5.

Although not part of the rules, K1AR has a request. If at all possible, he would like each of you to staple a self-addressed mailing label to your summary sheets when you send in your logs. This would greatly facilitate certificate processing.

A few years ago we received many questions after the contest about whether East Germany was a multiplier or not in the twilight of Unification of the two Germanies. We have anticipated this same kind of question for 1992 on the split up of Yugoslavia and Czechoslavakia. As we write these words, we were apprised of the ARRL DX Advisory Committee scheduled vote on the Yugoslavian issue in August 1992. Thus, be advised that the ARRL will speak on Yugoslavia *et al* before the contest is held! This will occur after these words go to print. However, our rules also state that for European countries, the WAE country list applies. Note that the DARC has already announced the addition of Croatia (old YU2/YT2/4N2 and now 9A1-9AØ), Slovenia (YU3/YT3/4N3 and soon to be S5), and Bosnia/Herzegovenia (YU4/YT4/4N4) to the WAE list.

These three countries are therefore separate from Yugoslavia for the CQ contest. The ARRL may also rule on Macedonia, which will be admitted to the United Nations when a dispute over the name of the country is settled. To my knowledge, other possible splits from Yugoslavia and the split up of Czechoslovakia into Bohemia/Moravia and Slovakia are not scheduled for consideration by either organization before the WW Contest. However, *CQ* will abide by a decision by either of these two organizations made effective before the contest.

You will also note the retention of the term "USSR" in the results of the 1991 contest. As always, the results reflect the political status in the world as it was *at the time of the contest*. The results of the upcoming 1992 contest will reflect the political changes that have occurred in the time since last year's contest.

This year we ran some extensive computer analysis of our Multi-Multi and Single Operator winners. Some of you avail yourselves of services where you submit your log to another source asking for data on how you stack up in terms of accuracy as measured by uniques, etc. To give you an "official" reading from *CQ*, we will cite a couple of examples from our checking. The top USA entrants in the All Band category had an *average* unique rate of just 3.7% on 80 and 40 meters, and an average of 5.4% on 20, 15, and 10 meters. Amazingly, the 40 and 80 meter averages were the same, and so were the 20, 15, and 10 results. If you fall significantly above these unique rates, you may have an accuracy problem.

For the stateside Multi-Multi's, the unique

TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND
World
CR3A (Opr. Vilho Hillesmaa, OH2MM)
Donor: David Rosen, K2GM
WA2RAU Memorial

World—Single Operator Assisted
N4RJ (Opr. Bill Fisher, KM9P)
Donor: Richard Newell, AK1A

World, QRPp
4M1G (Opr. George A. Padron Vera, YV1CLM)
Donor: CQ Magazine

U.S.A.
John Dorr, K1AR
Donor: Potomac Valley Radio Club
KC8C Memorial

Caribbean/Central America
V29W (Opr. Bruce D. Lee, KD6WW)
Donor: Alex M. Kasevich, VP2MM

Europe
Jorma Saloranta, ZB2X
Donor: Potomac Valley Radio Club
W4BVV Memorial

Africa
9L1US (Opr. David E. Heil, K8MN)
Donor: Gordon Marshall, W6RR

Asia
RL2O (Opr. L. D. Welikinov)
Donor: Japan CQ Publishing Co. Ltd.

Japan
Fumishige Takeyama, JE4VVM
Donor: Japan Crazy Contesters

Oceania
Steve Lowe, P29DX
Donor: Northern California DX Club

South America
P4ØW (Opr. John Crovelli, W2GD)
Donor: David Novoa, KP4AM/W4

SINGLE OPERATOR, SINGLE BAND
World—28 MHz
ZV5A (Opr. Atilano De Oms Sobrinho, PY5EG)
Donor: Joel Chalmers, KG6DX

World—21 MHz
ZX9A (Opr. Peter Sprengel, PY5CC)
Donor: CQ Magazine

World—14 MHz
YW1A (Opr. Italo Stradiotto, YV1AVO)
Donor: North Jersey DX Association
K2HLB Memorial

World—7 MHz
ZF2JR (Opr. Jim Rafferty, N6RJ)
Donor: Fred Laun, K3ZO
K7ZZ Memorial

World—3.8 MHz
Roger Hunt, GW4OFQ
Donor: Fred Capossela, K6SSS

World—1.8 MHz
Pierluigi Mansutti, IV3PRK
Donor: CQ Magazine

U.S.A.—28 MHz
George De Montrond III, NR5M
Donor: Donald Thomas, N6DT

U.S.A.—21 MHz
Carl Kratzer, K3RV/4
Donor: Bill Gioia, K2EK

U.S.A.—14 MHz
Lou Maglione, KS1L
Donor: Southern California DX Club

U.S.A.—7 MHz
Steve Kelley, KC7EM
Donor: Stanley Cohen, WD8QDQ

U.S.A.—3.8 MHz
Larry Emery, K1UO
Donor: Arnold Tamchin, W2HCW

Caribbean/Central America (21 MHz)
FM6A (Opr. Gildas Le Cloitre, F6HMQ)
Donor: Pedro Piza, Jr., NP4A
KP4ES Memorial

Europe—28 MHz
CQ4A (Opr. Joao Almeida, CT1BOP)
Donor: Chod Harris, VP2ML

Europe—21 MHz
Jiri Sanda, OK1RI
Donor: Robert Starling, N4GVF

Europe—14 MHz
LZ5W (Opr. Aleko Iglev, LZ3ZZ)
Donor: A. G. Anderson, GM3BCL

Europe—7 MHz
Roger Smethers, G3NLY
Donor: Roger Burt, N4ZC

Japan—28 MHz
Tsutomu Saiki, JA5EXW
Donor: Take Yokoyama, JL1BLW

Japan—21 MHz
Hiro Shiozawa, 7L1GVE
Donor: DX Family Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER
World
PJ1B (Oprs. N3ED, W3UM, KB2XZ, K2SS, N7ZZ, K2SB, PJ9EE, WA3LRO)
Donor: Southern California DX Club
W6AM Memorial

U.S.A.
K3LR (Oprs. K3LR, N3BJ, WR3G, K5ZD)
Donor: Carolina DX Association

Europe
IQ4A (Oprs. I4VEQ, I4LCK, I4TJE, I4EAT, I4LEC, I4IKW, I4IND, I4AVG, I4EWH, I4FGG, I4JEE, I4YRW, IK4EWK, IK4DCT, IK4JSI, IK4DKO, IK4AUY, IK4CZF, IK4NPD, IK4QJH, IW4ANU)
Donor: Bob Cox, K3EST

Caribbean/Central America
8P9Z (Oprs. K3KG, K3ZR, K4FJ)
Donor: K3NA and KN3T

MULTI-OPERATOR, MULTI-TRANSMITTER
World
VP9AD (Oprs. VP9AD, W3MA, G4CNY, N3AD, N3RD, N8ET)
Donor: W6QHS and KK6QM

U.S.A.
N2RM (Oprs. N2RM, WM2H, N2NT, K3UA, KR2J, KZ2S, N4HY, N2AA, K2TW, W2RQ, KA2AEV)
Donor: K4VX and Operators

Europe
ZAØRS (Oprs. HA1TJ, HA5NG, HA5OV, HA5PP, HA7JAO, HA8VK, HAØDU, HAØMK, HAØMM, HAØNAR, HAØNNN)
Donor: Finnish Amateur Radio League

Japan
JE2YRD (Oprs. JHØGHR, JA9SSY, JA9-10148, JK3GAD, JI2KVW, JA2KVD, JF2EOC)
Donor: Nippon Television Network Corp.

CONTEST EXPEDITIONS
World—Single Operator
J82A (Opr. Richard M. Neuman, K3IPK)
Donor: Stuart Meyer, W2GHK

World—Multi-Operator
KHØAM (Oprs. AHØK, JH1EAQ, JK1GXU, JM1CAX, JA2VUP, JE2JCV, JF2NKS, JG2BVO, JI3ERV, JR7OMD, JE8XRF, JA9VDA, JAØQNJ, N2BA)
Donor: The German CDXG and SDXG
(DJ3NG and DJ4EI Memorial)

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band.

WORLD TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
CR3A	48/8/32	412/18/65	720/26/92	1787/33/102	1856/34/110	1748/33/110
P40W	49/7/13	114/11/36	564/19/66	1254/30/104	1572/33/115	2836/31/106
HC5R	53/8/14	171/14/40	527/28/80	1002/32/108	1218/35/122	2285/32/113
9L1US	10/6/9	45/12/28	357/24/50	1090/28/88	2185/32/114	2125/31/114
V29W	6/2/6	261/15/44	555/23/82	1378/29/97	2215/31/111	2289/30/98
P40V	94/7/18	246/14/41	489/22/53	836/27/73	1175/31/81	3302/30/89
DH1RY/EA8	16/4/12	250/15/55	491/23/68	1609/31/93	1519/30/94	1539/32/106
KP2A	88/9/23	425/15/56	696/19/78	1468/28/93	1089/32/77	2146/32/92
ZB2X	92/9/36	329/15/61	621/23/87	1610/33/112	1208/29/108	1196/28/106
J82A	35/8/15	252/13/38	627/19/62	1592/28/103	1165/30/97	2262/28/83

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
K1AR	17/6/13	134/18/59	86/22/60	1011/38/142	950/37/135	542/32/116
KM1H	17/8/14	151/15/56	125/23/64	613/39/126	1081/36/136	509/29/113
K4XS	13/7/12	81/14/46	127/19/68	914/36/121	743/34/121	549/33/125
WM5G	14/7/12	52/14/38	190/26/69	508/37/128	743/36/121	802/35/126
K3CO	33/6/16	136/15/57	103/20/58	797/38/131	700/36/127	365/30/110
K3ZO	18/6/13	188/19/54	129/17/53	588/33/95	837/29/105	474/30/98
N6BV/1	17/6/8	100/14/48	89/21/54	825/35/116	646/30/112	341/30/92
W3BGN	28/10/20	110/18/53	85/17/44	531/32/106	609/34/108	365/28/102
W9RE	21/7/14	61/16/42	94/23/60	534/35/126	489/31/118	448/32/104
W1PH	14/5/11	49/14/38	102/22/58	531/37/123	413/33/116	373/30/109

WORLD TOP MULTI-OPERATOR, SINGLE TRANSMITTER

PJ1B	20/8/18	144/15/50	740/27/92	2020/27/150	2796/37/147	3698/36/139
P40T	17/8/16	150/12/32	485/25/77	2387/35/133	2863/36/141	3570/33/127
8P9Z	15/4/14	144/13/52	675/22/96	2440/37/129	2552/37/147	2886/36/144
PJ7A	15/4/14	232/12/41	143/12/48	3118/37/126	2964/38/148	2239/32/123
IQ4A	57/10/57	271/22/86	825/33/128	1837/38/166	1947/39/166	751/36/150
KH2S	3/2/3	43/9/16	312/25/50	1555/37/108	2632/37/111	2515/35/102

USA TOP MULTI-OPERATOR, SINGLE TRANSMITTER

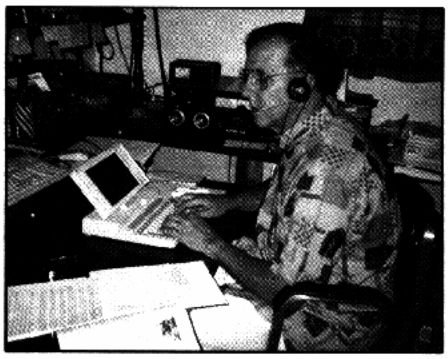
K3LR	18/7/17	106/20/64	131/30/89	1060/39/153	965/37/152	318/33/126
K1YR	14/5/12	64/17/61	105/25/79	981/37/156	871/37/147	371/32/139
NF2L	33/9/20	198/20/77	191/24/82	699/38/147	711/34/135	450/32/138
N3RS	29/10/23	89/21/73	148/25/81	690/39/151	864/35/143	327/32/134
W6QHS	8/7/7	58/15/33	394/30/74	514/38/128	1077/35/121	510/30/84
AA6TT	14/9/11	103/20/38	319/27/59	218/34/108	1325/38/123	614/32/93

WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

VP9AD	559/12/31	972/17/63	1732/28/97	4067/38/154	3734/38/157	3981/33/149
KH0AM	7/4/5	534/24/39	1705/32/77	3203/38/133	2754/36/116	3602/37/126
ZA0RS	157/11/51	1069/26/92	2206/28/125	4110/38/161	3463/40/165	1255/36/133
LU4FM	24/6/9	187/19/34	232/28/75	2303/37/126	2574/36/235	4090/36/137
IZ3A	371/9/55	1226/23/90	1816/32/124	2391/38/158	2253/37/149	1292/36/147
HG73DX	425/11/55	1270/24/96	2290/33/115	3017/39/157	1714/38/139	775/32/127

USA TOP MULTI-OPERATOR, MULTI-TRANSMITTER

N2RM	58/10/21	530/25/86	375/26/93	1489/39/161	1889/39/169	1124/34/162
W3LPL	74/14/29	320/24/81	485/31/107	1415/39/165	1822/39/164	838/34/157
K1ST	52/11/19	343/20/70	354/25/80	1836/39/166	1363/39/149	897/35/147
W7XR	147/12/14	365/28/58	695/34/95	1020/38/146	1618/38/136	1090/33/103
K2TR	103/18/36	406/23/76	260/28/85	1523/39/171	1176/39/161	497/33/142
N5AU	20/7/12	1056/18/51	221/30/80	932/39/141	1754/38/153	1152/34/140



This gentlemen, Bill Nesbitt, provided us all those very welcome zone 37 multipliers from 5Z4BI. Bill says his spirits were undaunted by that blackout on Sunday morning.

rates were somewhat higher, with the averages ranging from 8% to 13% depending on the band, and averaging 9% over all bands. The World High Multi-Multi's had average unique rates from 10% to 15%, averaging 12% over all bands. Again, if unique rates are substantially higher than this, there may be a problem. Our experience with cross-checking shows that about half of the uniques are busted calls. This data is general, and of course, every station's particular situation will affect the results. For example, we had one particular low band single band entrant who worked a great deal of Caribbean uniques by virtue of his diligence in checking into daytime nets. Such tactics will skew the statistics!

The Master Data Base generated for the SSB contest this year was used to do the above analysis and gave us some very interesting insight into other workings of the contest. About 50 logs, most of them top logs in all the categories, were compiled together to form the data base. A total of 230,000 contacts were included, representing over 43,000 unique calls. Since we received under 3000 logs this year, that means that there are over ten participants in the contest for every person who submits a log! Last year we remarked that such a massive simultaneous participation might be some kind of record. That is, the CQ WW DX contest might represent a unique event that gathered more simultaneous participants together worldwide than any other competition of any kind.

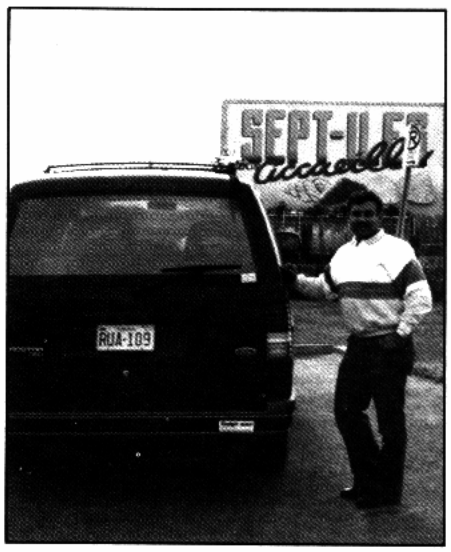
Bill, W9VA, wrote us a nice note spoiling our fun. It seems that there is a Bridge Tournament that boasts 60,000 simultaneous participants from all over the world! We are confident that the amateur radio world will rise to the occasion and challenge the bridge players. Certainly, the collective hundreds of thousands of hams could muster an effort with over 60,000 contributors so we could legitimately submit an application to the *Guiness Book of World Records*!

Credits

Once again we would like to thank KB3MM for revising some of our software as required to read files from version 7 of K1EA's CT program. (One of your Directors had a mild heart attack this year, possibly from the shock of finding out the old software didn't work.) Then, of course, there are the hardworking committee members who poured over many logs, dupe sheets, computer listings, and disk files to police the expanding contest populace. This time the committee included Mike, W9RE; Pat, WA8YVR; Glenn, K6NA; Doug, KR2Q; Randy, K5ZD; Jim, W7EJ; Jeff, KR0Y; Bill, K4XS; Doug, K1DG; Jan, N6AW; Bill, W2RQ; and Ed, N3ED. Again, a round of applause to John Dorr, K1AR, for doing the trophies and certificates.

See you all in this year's test. Remember, work lots of YUs!

73, Larry, N6AR/4, and Bob, K3EST/6



WD4KXB/VE2: that was the zone 2 call that gave so many of us this rare North American zone.

DX QRM

It's nice to be a rare multiplier. . . *5B4BCC*. J3 should count as South America. It's farther south than P4 and PJ, and we can watch YV-land TV with rabbit ears in the hotel room—our score would have been 34% higher . . . *J37H*. No "run station"; we had only one transceiver. That makes it impossible to compete, but we had a great time . . . *C6AFQ*. Kept being told how loud I was in Europe, but they still did not call me . . . *WR6R/KH6*. This is my first QRP experience and I found it quite thrilling . . . *JA1MYW*. I got a zone 40! . . . *JP1RMK*. My rare stations were KH2, KL7, etc. . . . *IK8COG*. It was my first DXpedition and the contest enabled me to enjoy it . . . *JP1AVZ/JD1*. Saturday was fine; Sunday was horrible . . . *DA2UI*. Contesting from Europe is just no fun anymore; just too much QRM . . . *DF2RG*. More QRM every year . . . *DL7MAE*. Rain the whole contest, thunder crashes, 30–40 dB most of the time. Had great fun though . . . *VE3CXK*. I had a niece visiting and she slept all morning in the nearby room; TVI all over; had friends for dinner; went to music hall! . . . *IK2AIT*.

It is a big problem to find the results for our country . . . *YO3AIL*. I've never seen such traffic and competition . . . *CT@BWN*. So many prefixes, just like the WPX contest . . . *YB@TR*. I am new to Amateur Radio and have never operated a contest before; also, I can't speak English very well . . . *JM6DYM*. I flew from Yuma, Arizona to Wrangel Island, Alaska just to work the contest . . . *NL7QT*. First time in the contest; good experience, but not much of a score . . . *NH6ZW*. Extremely poor conditions on the second day blocked a new OE record; just worked 20 stations on 10 meters on Sunday . . . *OE2VEL*. Things are getting bad when you have to get on a list to work a station . . . *VE3EJ*. Thanks, *CQ* magazine, for giving us a chance to compete with ourselves. It's great, great fun working the existing contest . . . *XE2BEU*. Poor propagation up here on 10 meters most of the contest plus local power-line noise . . . *NL7TB*. I worked my first South American on 160 meters—PP@F! . . . *OZ3SK*. Happy to give so many stations zone 29. Look forward to next year . . . *VK6OD*.

Had big problem with the SB200 on 40 meters. It just wouldn't work properly . . . *LA9DFA*. Never thought I would hear a ZA calling CQ contest and getting no answer . . . *VE3ITA*. Without a special callsign, it's impossible to compete . . . *DL8PC*. Murphy was here the last 6 hours on Saturday—rebuilding one prop pitch rotor. Sure isn't any fun working on the tower in 20 degrees F temperature. . . *JL6IPK*. The conditions were bad on 15 . . . *HA8CQ*. Many thanks to my XYL for her understanding . . . *TK5MH*. Contacting Albania is the highlight of the contest for me . . . *ZS6HO*. PJ9W again had the biggest signal on the bands . . . *YU4XA*. It was my best score in the CQ WW so far in spite of very little activity from Africa and Oceania . . . *CE6EZ*. My only duplicate was ZA. My, how times change . . . *G3JKY*. Very tired, but too much fun. Thanks to everybody . . . *UT2L*. Spent so much time with company (relatives) taking them shopping, didn't get too many stations . . . *YB2HTD*. We need more luck next year . . . *GW@JR*. Sunday evening, good signals, no QRM, but all dupes . . . *IN3QBR*.

Too many technical problems in the MM category . . . *4N3IA*. Propagation to Europe on 10 was terrible; still lots of fun . . . *VK2ARJ*. And the aurora—what a thrill . . . *PA3DWD*. I couldn't believe my good luck when ZA@RS called me; thanks to RB5AA for alerting me . . . *VK2KS*. Worked BY1PK on 80! . . . *GW4OFQ*. This is my first entry from Niger; I caught many pileups, very exciting . . . *5U7M/JH4NMT*. Very poor conditions on 28 MHz. I did not have any QSOs from the Western Hemisphere . . . *OH5PA*. Conditions on 28 MHz were very poor; glad I did not go to Shetland Islands this year . . . *GM4CHX*. The WW DX and WPX SSB and CW—these are the nicest weekends of amateur radio . . . *IK2BLA*. Rig blew out second day, but had a great time . . . *VE3WSM*. Conditions could have been much better . . . *ON7UN*. In spite of the Ironman volunteer party, Halloween party, and a bad cold, I still had 19.5 hours to operate the contest . . . *AH6JR*. On Sunday, ZA@RS answered my CQ, but it was a dupe . . . *I1POR*. It was wonderful—my first participation in a contest . . . *CT1EDJ*.

My first serious attempt for #1 QRP Canada. Even worked a few "new ones" . . . *VE6GK*. Compared to last year, this was purgatory. GW4BLE's 1000+ QSOs on 10 meters made my 100 QSOs look sick. What a difference 400 miles will make when solar flares are about . . . *GM@ECO*. Contacted laryngitis 8 hours before the contest. Better luck next year . . . *VE3LRL*. Conditions could only have been worse if I had returned to zone 2 . . . *VE2ZP*. Heard V31DX and TI4CF the last hour of the contest, but was too exhausted to break through the radio wall . . . *BV2AR*. It was difficult to work stations over the Pacific ocean with only 50 watts . . . *JJ7XAY*. Finally worked BV, but in the craziest conditions . . . *AL7EN*. Band conditions not too hot here in the north; very few Europeans heard until Sunday noon . . . *VE3CWE*. Enjoyed contest immensely . . . *3D2DD*. The CQ WW DX Contest is the MECCA of contests . . . *VE7ETY*. Conditions were good, but getting too old to cut the mustard . . . *VE4RP*. I slept more than 10 hours during bad conditions . . . *JA8GYQ*. Climbing the tower to turn the antenna made me tired—no rotor here . . . *PY2NY*.

It's a very good change to add the low power category to the contest, as I have no license for high power . . . *JA@UHI*. Worked the whole contest without a rotator; my beam was fixed on Europe and parts of Asia only . . . *DU1CHD/6*. Special thanks to our group president, PY2NY, who notified everybody . . . *PY2EX*. Worked Albania, and the operator said he had been trying for a half hour! Revenge is sweet . . . *NP2N*. Conditions were down from last year, but still had a good time . . . *ZF2JR/N6RJ*. My first CQ WW was great; will make sure I am in the contest next year . . . *PY1CAS*. Weak propagation, strong U.S. operators . . . *CO4A*. Super conditions helped make me feel like a big gun . . . *VU2PTT*. My best DX was OH6RM on 28 MHz—my first and only European on 3.8 MHz from P29 . . . *P29DX*. Worked USSR long path! . . . *IT9HBT*. Lost time the first day listening to a discussion on the future of packet radio . . . *ZS6BRZ*. The government shut the power off twice with load shedding; the sun shut the band off twice with sunspots . . . *KG6DX*. Solar flares and power failures—we lost 10 M points . . . *KH2S*.

Biggest thrill was working the contest in the middle of Hurricane Grace . . .

VP9AD. I had a great time and got 8 new countries . . . *P29KH*. Bad conditions to the USA on 10 meters both days—what a pity . . . *HE7H*. Absolutely nothing went wrong on this trip to KG4 . . . *KG4QQ*. The conditions to the east coast were very bad . . . *JA1AUD*. Next year I hope to work this excellent contest MM . . . *CT1CLR*. Wonderful! This is the first time I had more than 1000 Qs . . . *EA4CQT*. CQ WW is always very interesting . . . *UA2EC*. We did not work the full 48 hours due to lack of operators . . . *5B4ES*. Thanks for the fine unforgettable test . . . *YL2TW*. If a British Knighthood is good enough for Stormin' Norman, I propose K1EA for king! . . . *G4PKP*. Very strange conditions. First day, a few JAs and no Ws; second day no JAs and a few Ws . . . *OZ5EV*. Many problems with TVI and traffic noise on 10 meters with only 80 watts . . . *F6DZD*. And longing for a 75 meter Yagi at 110 feet to dig out the calls . . . *XE3EB*. I proved that a good location is more important than an antenna . . . *G3XSV/P*.

Fatal aurora killed my effort . . . *SP5DDJ*. Aloha and mahalo to all . . . *KH6FKG*. Great to work DXCC in one weekend, but very frustrating using state of the art receiver with only 100 watts and having to leave 5U7, KC6, HSØ, FR7, etc. . . *G4XKR*. How come everybody gave me 59, but some had to ask me for my call 2 or 3 times . . . *VE2NAM. (So that's your call!—ed)*. Because I'm tired of contesting alone around here, I've been preaching to all the locals about the joys of the contest. I hope some of them beat me . . . *VE3ZD*. Despite the bad conditions, it was a good opportunity to try out my new Ten-Tec Argonaut II which I had purchased just 2 weeks before the contest . . . *G4BUE*. Ole Sol was sure playing up; this part of Europe was in a black hole for most of the contest weekend . . . *GW4BLE*. The first MS organized by Luxembourg amateurs . . . *LX6A*. Power department truck arrived to make pole to house hookup just a few hours before the contest started! . . . *J80D*. Our ham radio life is DX contests. I think the CQ WW is the best . . . *JA1DCO*. Absolutely the best contest . . . *IT9NTT*.

I have lived long enough to be called by ZA! . . . *VK2DXI/9M2*. Very hard to get multipliers with no propagation to Europe . . . *VO1SF*. I got my brand new 3-element 40 meter Yagi ready only a few hours before the test and it was really worth it since the upper bands were really bad . . . *OH3OJ*. This is the last time GU3HFN will be activated from the present shack; new one under construction (look out!) . . . *GU3HFN*. The pileup of JAs to the Caribbean was too heavy . . . *JR5HCU*. Too many crocodiles on the air with jaws bigger tha their ears . . . *YL2DX*. My wife grumbled about me getting to bed at 0100 local hours for 2 days in a row! . . . *ZL1IM*. My fourth contest—I just love contests . . . *TG9AJR*. Heard Dave, 9L1US, working stations that I couldn't hear at all . . . *9L1SL*. Interesting and many rare DX stations, but tough with 100 watts . . . *DJ2HH*. Unfortunately we don't yet have power for all 24 hours in Beirut; that is the reason I couldn't operate my station longer . . . *OD5PL*. Too much QRN . . . *G3XWZ*.

A lot of QRM, QRN, rain, and lightning . . . *EA3ALD*. Worst low band conditions experienced in any WW . . . *KL7Y*. Only got in 10 hours operating time before I came down with terminal TVI . . . *DA1DG/K3WOW*. Wanted! Contest operators . . . *JA3YBF*. Europe is closer, stronger, and worth more points! . . . *AP/WA2WYR*.

USA QRM

Thunderstorms and heavy precipitation static all night both nights and less than stellar propagation caused my 100 watt score to be less than my QRP 1.1 Meg score from last year . . . *K5RX*. Working ZA (Albania) for the first time! . . . *K9YNF*. Big pileups, lots of fun. Had to work Saturday and it cut my score down . . . *K9IKP*. This is the greatest contest; don't change it . . . *K3OO*. Great to see all the activity under so-so conditions . . . *WA8DXB*. Where were all the Europeans? Last year it seemed that all I worked was zones 14 and 15; this year everybody but zones 14 and 15 . . . *WJ3N*. Working HSØE QRP is always a thrill! . . . *AK5E*. We will be better next time . . . *W9HOQ*. I do hope that the U.S. station that spent most of the contest squarely on 14.150 will be disqualified . . . *W9LYN*. I've only been a ham for 3 months and I already have 35 countries! . . . *KC6ZWB*. My first contest and I learned a lot. I will be back next year . . . *NØOST*. Forty meter phone could be a good DX band, but too much QRM from foreign broadcast . . . *W2OAE*. My biggest thrill was working South America again . . . *N2JZK*.

Strange conditions; few runs . . . *K3ND*. Never imagined being called consecutively by two ZAs. Wow! . . . *N2MM*. When W3LPL told a neophyte ZD7 to go by call areas, the ZD7 confused that with zones! Guys in one-land would answer him and he said he wouldn't work them because they were giving zone 5! . . . *NK3U*. Had to work this weekend; 18 hour shift Saturday. . . *N2MR*. Conditions poor; too many people bugging me for less important chores . . . *K7ABV*. The flu! . . . *N7LOX*. Working 9J2BO on the LP with just 5 watts on Sunday AM only seconds before the "Big Boys" found him . . . *WB5ASP*. Getting harder to stay up two nights but still enjoy it . . . *W8UVZ*. It was a pleasure to work BT7JS from Hainan Island, China, on 20 meters without a pileup . . . *KU6T*. Very few European stations heard/worked this year . . . *KC5AC*. G5RV got out lousy. Could hear OK but no one heard me. Spent most of the contest trying to install GAP vertical . . . *K8LA*. Thrill in working KHØAM on 40 SSB; conditions on 40 meters were baaaad! . . . *KI5GF*. Beat my last year score even though conditions were difficult . . . *N9IHW*.

First contest. Tough to compete with a small station . . . *KA8WQL*. This is the first time I ever tried to do any contesting. What fun I had . . . *N8HTT*. A case of laryngitis 7 days before the contest kept my score from being high . . . *WJ8E*. Score improvement—used hunt and pounce method only. Still couldn't get through some pileups . . . *K1JBS*. Worked my 100 stations and was able to have lots of sleep . . . *W6BIP*. Was only having fun this time—hunted and pounced . . . *N7KA*. Three new countries, including XT2, when 10 meters should have been dead to Africa . . . *WA5SOG*. Tried new equipment. Worked great! . . . *W8ILC*. I am 15 years old and this is my first WW. Looking forward to many more in the future . . . *KB9BIB*. Frustrating when DX stations won't listen in our portion of the band . . . *N4HOH*. I only hollered CQ about 10 times during the entire contest and had a ZD9 answer!

. . . *KB3TS*. Wish conditions could have been better—especially 10 meters . . . *N8FU*. Found out how to get rid of TVI—bribe your neighbors . . . *WA2UZI*. A real pleasure to work HS, ZA, and ZC4 on one weekend . . . *W9LT/4*.

Had a ball; really helped me on the way back to DXCC . . . *WA2LMC*. Worked 10 new countries. Sure hope they QSL . . . *AA5HI*. Thanks for the new 100 watt class . . . *N1XZ*. Worked all continents in less than 10 hours this year . . . *W9CNF*. Almost exclusively an America's contest, so different from 10–12 years ago . . . *KA4EMR/9*. Had to go QRP during the football game due to TVI . . . *WU9D*. I got Kenya—first time . . . *KA8MWL*. Having QSOs with my old friends and lots of new ones . . . *NN2G*. My first DX contest and the biggest thrill of 1991 . . . *N7OYB*. Operators more courteous this year; keep it up, guys . . . *W7KKR*. Did the best we could with 100 watts and inexperienced operators; but most important, everybody had fun . . . *K5QBM*. I was surprised by the apparent lack of European and Japanese stations to be heard on the East Coast . . . *N2LDU*. Some DXers still don't give their call often enough . . . *N4CT*. Twelve hours is a long time, especially when it is spread out over a weekend . . . *WA6NLJ*.

Worked 5 new countries and appreciated the complementary comments I received on signal and quality of sound. . . . *N2DEM/4*. Moved into my new QTH, so worked test with quarter wave and barefoot (100 w)—as bad as my usual 5 w QRP and big beam . . . *W6CN*. I wish that the second half of the contest was as good as the first . . . *KV4P*. Was a "Super Murphy Year"; lost 2 amps and one rig. That should do it for 10 years . . . *N8EXS*. Enjoyed a break working 10 meters while in the neighborhood. My 20 watts actually snagged a few DX stations . . . *W3FTG*. Tremendous pileups drawn by packet/computer . . . *W3OV*. Too much amber beverage, not enough Q's . . . *N4YKD*. Seventy-five band good to JA and UA9/Ø second morning out of the Southwest . . . *K3ZO*. Almost quit the contest Saturday—had to work for every contact . . . *KC7UP*. I lost a lot of time waiting for stations to ID . . . *AA1M*. Ten meter interference was severe at times due to XYL N2DEM/4 working single band at the other end of the house . . . *KA2CDJ/4*. Working Z21BL and then listening to him call CQ for 5 minutes without any calls . . . *KC6SKQ*.

Phone DX contests are a killer for those with a hearing impairment . . . *W3AZ*. Could have doubled my score on 40 meters if DX stations had listened up the band . . . *WW7Q*. Working FO4 long path on QRP—great conditions . . . *WB0IWG*. Logging program went down three times . . . *W6MFC*. Interruptions for work, leaf raking, church, family—still a fun experience . . . *WU1X*. A light bulb blew up in my face, but I'm okay . . . *KA6ING*. Where did the Europeans go? . . . *KK9A*. Too far from anywhere for club competition. Thanks to N1ATO for climbing the tower the day before the contest to hang the dipole . . . *K1UO*. Had to QRT for the Bear game . . . *KB9CRY*. First time effort for the contest . . . *WA6NKO*. Now I know where the black hole is located—the Midwest . . . *WV9Q/Ø*. Heard very little Europe . . . *W6MVW*. Never heard any Europeans here in the Midwest all weekend . . . *NØHBH*. Terrible propagation to Europe . . . *WM5G*. Lot of big guns and QRM in the DX window; tried to get in between . . . *KR9G*. The A index went to 98 the day after the contest; that's too close for comfort . . . *WA2UUK*.

Rough conditions all weekend. Can definitely tell the solar cycle is on the way down . . . *N9AW*. Casualties: Video Board; 386SX; Henry 2K (4-400s); homebrew dual 813 on 160; homebrew 4-1000; Kenwood 940. Other than that it was a great contest . . . *W1BK*. Most frustrating to have UAØ call on CW with no phone capability; never did get zone 19 . . . *N4CC*. Wish all participants contested as well as the JAs . . . *N7AVK*. One old man and some teenagers—lotsafun . . . *K8UCN*. Enjoyed myself; new amp really helped . . . *KK6TX*. Good multiplier count but terrible conditions . . . *WB4FOT*. Had to shut down due to RFI . . . *NB7N*. Could hear the Caribbean stations working Europe, but not a sound from Europe here; conditions very poor on 7 MHz . . . *K5NU*. Band conditions were very noisy and the solar flare made it even worse . . . *AB4RU*. The *pox* upon packet . . . *K2OLG*. QRM from irate neighbors not loud enough to spoil early AM/PM runs to Europe . . . *AA2DV*. Whatever happened to 10 meters? Worst I've ever done . . . *KB9ABI*. W8TN's Alpha 87A let one station instantly QSY to any of five dead bands . . . *KØCS*.

Here are the OK5W antennas. Always a great signal from Czechoslovakia, and good enough for first place Multi-Single in OK-land.

It really gets lonely up here in the Northwest absorption zone during solar flares; called for Europe on 10 and hardly any . . . *KS7T*. Only three contacts with Europe . . . *N6SRT*. Forty meters is tuff!! Called several stations for over an hour—zero, zip . . . *WA6WPG*. Crummy conditions on 10 . . . *WB6MBF*. Biggest thrill was logging Israel, Sierra Leone, and South Africa . . . *KA3PCX*. Glad to work 9L1US on Sunday. Dave left the next day and I needed him for an all-time new country . . . *KA9HDN*. So much easier using a laptop computer for logging . . . *AA4S*. I passed my Extra class at 0Z, but the paperwork wasn't done until 0330Z, then drove two and one half hours to get back to the shack . . . *KA1UTU*. Used CT for the first time; makes me feel like I spent the last 13 years of ham radio in the middle ages . . . *WA1N*. It felt good to work ZA and know it was legit . . . *W3QIR*. Horses may be able to sleep standing up, but I can't. Fell asleep Sunday morning while running Europe; started to fall and caught myself headed down . . . *K4XS*. Where were the JAs? . . . *KC1SJ*.

Thanks to VS6WO for digging me out of the pileup for a new one . . . *KI5GX*. HZ1AB finally heard me and very politely said, "The YL go ahead." I was speechless . . . *AA7KE*. I attribute most of my success to the delta loop antenna and operating techniques . . . *WB4HFL*. Great DX activity, even with very poor propagation . . . *KC7DB*. Another learning experience for KA4RRU; see you next year . . . *KA4RRU*. Biggest thrill was working ZD8Z on the first call . . . *K6OHM*. Hearing some staion say 59924, and then working BY1PK on the first call . . . *KI3AG*. First CQ WW; first contest ever (10 years old); looking forward to next year . . . *KO4LO*. Competing against the KW stations at times tested my patience . . . *KD4RH*. My horses ran away . . . *WT2J*. Was all ready for super JA runs with big antenna; however, propagation stunk and the 3-el antenna on 20 at 60 feet didn't cut it! What happened to last year's conditions? . . . *KM1H (KQ2M)*.

STATION OPERATORS
Multi-Operator Single Transmitter

4A2MX: XE2MX, AA4V, N4SF. **4M3U:** YV1ACQ, YV2AHN, YV3EDO, YV3ZB, YV3DZC, YV3EIZ. **4N4U:** Milan, Elvis, Boris. **4Z7M:** 4X4YM, 4X10M, 4Z4KM, 4X6UU, 4X6UT, 4X6ZI. **5B4BCC:** DK6WL, DL3MFZ, DL4MCF, DL4MDO, DL4MEH. **5B4ES:** 5B4ACY, 5B4YN, Marios, Julio, Chris. **5K6CQ:** Club. **6D2X:** XE2YNS, XE2NU, XE2XDX, XE2XSQ, KD5GY, KI5GO, N5KEV, N5NYK, N5WIX, NA5C, W5VX, KC5FP. **6I2A:** XE2DRM, XE2VY, XE2LV, XE2ABN, XE2AFL, XE2AHN, XE2ARM, XE2LAC, XE2KB. **8P9Z:** K3KG, K3ZR, K4FJ. **AA8A** & NØKFE, KBØKK. **AA4LH** & WA4NAT, N4NDU. **AA5ZX** & WB5EUC. **AG6D:** Club. **AK1L** & KA1X, KA1FBY. **BY1PK:** BZ1AA, BZ1AL, BZ1HAM, BZ1AB, Wang Tao.

BY4AA: BZ4AA, BZ4AYL, BZ4CPU, BZ4DDL, BZ4DFH, BZ4DFJ, BY4AOH. **C6AFQ:** K1TN, KR1S, VP2ML. **CE2AA:** CE2MH, CE2WO, CE2LZN, CE2HKX, CE2NJ. **CK7C:** VE7SZ, VE7ON, VE7CC, VE7IN. **CR3M:** CT3BD, CT3BM, CT3CD, CT3DL, CT3DZ, CT3FF. **CU2BT:** CU2AA, CU2CE, CU2AF, CU2AP, CU2BV, CU2CR, CU2DX, CU2EN. **D73DX:** HL2KAT, HL1KEW, HK1KII, HL1KPS, HL1CG, HL1IE, HL1XP, HL2ZO, HL1AHS, HL1AIW, HL1EIZ, HL2IIJ, HL1IXP. **DA2FDX** & DA2CU. **DFØAT:** DF6QV, DL9NC. **DFØRR:** DL7AEN, DL7SI, DL7ALM, DL7AKC, Y44NO. **DKØPR:** Club. **DLØER:** DL8EAD, DF2EY, DL5EAE, DL8DAV. **DLØJN** & DF3LW. **DLØSSB:** Club. **DLØWH:** DF2IC, DK2GZ, DF4ZK, DL3NS, DF7IT, DL2IAK.

DL8OH & DL2NBU, DK3GI. **DX1DBT:** DU1GCV, Howard, Erwin, Jojo, Melvin M., Nicky, Dennis, Jerome, Mike, Keflin, Melvin C., Bien, Cesar. **DX3H:** 4F3AAL, 4F3BAA, DU3CWF, DU3CWM, DU3FBB, DU3FSK. **EA2RCF:** EA2BSJ, EA2CPZ, EA2CEA, EC2AQR. **EA3GCT** & EA3GCV, EA3GFW. **EA9LZ** & EA9TY, OHØXX. **ED1WWE:** EC1DBJ, EC1DDL, EA1EZV, EC1CFD, EC1DDK, EC1CJJ, EA1EPB. **ED3MM:** EA3CAC, EA3DFW, EA3GBW, EA3GEG, EA3GEJ, EA3GEM, EA3GEP, EA3GFA, EA3GGO, EC3CVD, EC3CZR. **ED4UPM:** EA4DAE, EA4BB, EA4CUF, EA4DYN, LU1BSN, Julio, Pedro, Jesus, Gena, Patricia, Javier, Alfonso, Julian, Luis, Luis S., Luis M., Manolo. **EI7M:** EI8GS, EI7DNB, EI4DQ, EI3DP, EI4BZ, EI6BT.

F1B: FD1NBX, F1HAS, F6COU. **F1MAA** & F1JPA, F1LDL. **F6GYT** & F6GLH, F6GLI, F11LTF. **F6IUI:** Club. **FF1PBT:** FD1PXT, FD1PFT. FD1PGP, FD1PYI, FD1RHT, FC1SAA. **FV7A:** F6ARC, F6BEE, F6CTT, F6EPY, F6HSV. **G0CCH** & G0CDO, G3MXH, GØMLE, G1VIY. **G4FJE/P:** G4LOO, G1JKF, G6RHL, GØBVW, G3TVG, G4VXT, G4OXO, G3EUS, G4YRF, GØLGV, G4MEO. **G4PKP** & G4CVZ. **GM3WOJ** & GM4YXI. **GU/DL8NBE:** DL8NBE, DL3NBL, DL2MDZ. **GW8GT:** GW3NWS, G4VXE, GW4TTU, GWØMAW, GW5NF, GW4LXO, G4BKI, G4IFB, GW3KYA, G3OAY, GW4JBQ, G3SQX, GW6ZUQ. **HA2KMR:** Inczedi, Kiss, Jocim, Adam. **HA3KNA:** HA3NS, HA3NU, HA3OV, HA3OU, HA3FTA, HA3FO.

HA5KTT: HA5AGP, HG5BHV, HA5JAI. **HA8KCK:** HA8FW, HA8FT, HA8FM, HA8DZ, HA8EK, HA8KH. **HB9IA:** HB9CWA, HB9LBX, HB9XV. **HE7H:** HB9CIP, HB9DDO, HB9BLQ. HB9CAT, HB9CXZ, HB9FAP, HB9SFD, HB9ALM, HB9STL. **HG1S:** HA1TJ, HA1AH, HA1DAE, HA1SV, HA1TD, HA1TW, HA1DAC. **HL9HH** & HL9AA, HL9FY, HL9JK, HL9OB. **HZ1AB:** K1VBM, SMØCXU, N4KT, AA6OB, KC5PF, NØAE, N7CXB. **I0LYO** & IKØIXI, IKØJMU. **I3JRF/IL3:** I3JRF, IK3JBP, IK2MZS, IK3NAB. **I4AUM** & I4GAD, I4GAS, I4VOS. **I6DH** & I6LTP, IK6BSN, IK6CLX, IK6FAW, IK6GZM, IK6OFF. **IC8OGS:** IC8EGS, IC8SDL, IC8BWK, IC8WIB, IC8WIC, I5FWT, I5WVR. **IK2ODI** & IK2IKW. **IK2OFR** & IK2IKT, IK2FEO, IK2MMF, IK2OOB, IK2RJK, IK2OHG. IK2SGC, IK2ILH, IK2GAU.

IK3OGK & IK3QAR. **IQ4A:** I4VEQ, I4LCK, I4TJE, I4EAT, I4LEC, I4IKW, I4IND, I4AVG, I4EWH, I4FGG, I4JEE, I4YRW, IK4EWK, IK4DCT, IK4JSI, IK4DKO, IK4AUY, IK4CZF, IK4NPD, IK4QJH, IW4ANU. **IK6NHT** & IK6QON. **IV3VFP** & IV3NZN, IV3OEP. **IW3FGG:** IW3AML, IW3ABW, IW3ADA. **IY8X:** IK8HEO, IK8MVH, IK6JSV, I8VXP, IW8CMY. **J37H:** KJ4VH, KU4J, W4BXI, N4WBS. **JAØYAK:** JRØDVM, JRØHYT, JEØVMT, JRØFOM. JG7JMO, JFØTJU, JFØKDZ, JEØDUA, JK2PVL, JH9PUO, JFØFFR, JH2NIZ, JG7OFK. **JAØZRY:** JN1JVA, JP1QGO, JS3JSB, JH5XDD, JRØBQD. **JA1YBH:** JF7RGM, JR8VTQ, JH9EIT. **JA1YFG:** JQ1BRW, JJ3OLZ, A. Yamaya, N. Yajima. **JA1YKX:** JA1RPK, JO1VVT, JH9JFH, JH7AJD, JA1LAS, JK1QHK, JG1EGG, JQ1DNM, JL1STM. **JA3YKC:** JF3VXV, JG3MRT, JL3HEY, JL3MCM, JM3CMG, JM3FVL, JO3UGI, JP3AIK, JE3PMN, JF5DTS, Ken.

JA3ZKK: JM3ILK, JG3SXR, JH4PUI. **JA7YAA:** JF1CKX, JE7HLZ, JE7JZC, JG7PSJ, JEØAWL. **JE6ZIH:** JR6GKT, JI6BRB, JF6DEA, JG6GNR. **JF6YPU:** JQ3OGG, JO3PHB, JJ4LER. **JH5ZCP:** JA5AQC, JA5AUC, JH5PHC, JR5JAQ. **JH8YCT:** JR8XWU, JE8URM, JE8JZX, JF7LGH, JG8QMN, JM3GZO, JG1UHA, JP3IAT, T. Mohri, K. Itoh, T. Ishizuki. **JT1J:** JT1CO, JT1BU, JT1BY, JE7RJZ, JJ2HVK. **JT1T:** JT1BR, JT1BX, JT1CS, JT1CF. **K0BJ:** Club. **K1VR** & NZ1W, WA1G, N1IR, KA1UTE. **K1YR** & K1RU, KB1WH, WJ1U, KC1XM, N1DVT. **K2OWE** & W2GSN, WK2G. **K2SG** & N2EA. **KH2S:** JA8RUZ, JR4DUW, JG8IGL, JH8PNE, JHØUSD, JRØBQD. **K3ANS** & NU3L, KU3K, N3KAQ, K3YD. **K3DI** & W3ICM. **K3IVO:** WB6VGI, N3CBJ, KD3YU, KA3YYR, WG3R, K3YDX, N3KCJ, N2GAR, W3IP, Q7NTF, K3HOI, N3DCI, WA3KZR, W3TID.

K3LR & N3BJ, WR3G, K5ZD. **K3YL** & KA3PIT, AB2E, KD3UC, N3ADL, WE3E. **K4MF** & WA1TAE, KA8ANQ. **K5QBM:** AA5IB, N5DZS, NU5Z, N5VOC, KI5LM, N5SEU. **K8UCN** & KB8KSU, KB8LFA, Mark. **K9LA** & WB9CWC. **KA1GG** & W1KM, K1KJT. **KA3PLX** & WB3CJU. **KA5W** & K5IG, WT7D, N5OAO. **KC5DX** & WQ5W, AA5UK, AA5WY, KM5L, KB5KTY. **KD3TB** & KC2TA, KA3CVB, KD3RF. **KE2WE** & K2OIY. **KE6WL** & KD6NT. **KE9QT** & N9IXO, N9KEP. **KF4FL** & WA4VLV, WD4NMQ, N4IYQ, N4TG. **KH2S:** JA8RUZ, JR4DUW, JG8IGL, JH8PNE, JHØUSD, JRØBQD. **KH6GMP** & KH6DD, WG4Q. **KH6GMP** & KH6DD, WG4P. **KI5PA:** Club.

KI6X & N4EA/6, KF6VV, KC6POB, KC6SWE. **KN8Z** & WX8T, N8HTT, KC8WR, WU8A. **KRØB** & NØBKL, N9BDM, KØII, KSØT, KJØB, WJØM, KØIJL, AF9T, KAØJZV. **KS9K** & N9AU, NB9C, NK9I, NO9F, WW1M, WE9V, K9CJK. **KZ6X** & KF6BL, N6WLX, KC6VEC, N6UWW. **L4D:** LU1EYW, LU2DPW, LU3DW, LU5EEK, LU7DPR, LU7DW, LU8EWD. **LX6A:** LX1EH, LX1GO, LX1KC, LX1KQ, LX1NO, LX1NW, LX1RQ, LX1SP, LX1RN, SP5SS, Y32OD, Y48GN, DF3IAC, DF6IH. **LY1BZB:** LY2BKF, LY2BDQ, LY2BSD. **LZ1KBB:** LZ1-C-187, LZ2EF, LZ2TZ. **LZ1KNP:** Club. **LZ9A:** LZ2CC, LZ2PO, LZ2DF, LZ2HE, LZ2UU, LZ2BE, LZ2WF, LZ2XA, LZ2TT, LZ2WM, LZ2II, LZ2UA, LZ2-E-41, Krasi. **LZ9A:** Club.

TOP SCORES

WORLD

SINGLE OPERATOR HIGH POWER

All Band

CR3A	12,974,910
P40W	10,779,338
HC5R	9,630,000
9L1US	9,263,688
V29W	9,196,488
P40V	8,852,976
OH1RY/EA6	8,726,500
KP2A	7,609,190
ZB2X	7,128,646
J82A	7,037,844

28 MHz

ZV5A	2,984,166
ZD8Z	2,341,866
HC1OT	2,067,629
ZY5EJ	2,050,187
CE6EZ	1,819,048
FR5DX	1,782,066

21 MHz

ZX9A	2,548,650
ZP0Y	2,133,068
FM6A	1,934,659
KG6DX	1,861,358
CT3M	1,855,722
9Y4VU	1,493,220

14 MHz

YW1A	1,326,318
ZY5EG	1,232,769
LZ5W	994,240
SM2EKM	948,117
TF3CW	822,300
YW5N	743,808

7 MHz

ZF2JR	630,498
FG8Y	531,375
LU1IV	399,600
G3NLY	393,908
JA8IXM	264,960
KC7EM	263,048

3.8 MHz

GW4OFQ	183,590
Y21CW	162,450
DL3LAB	122,194
ES5RY	116,958
K1UO	105,609
VE3VN	102,305

1.8 MHz

IV3PRK	28,864
EA3ALD	18,961
RY7D	17,500
OK1JDX	13,230
VE1ZZ	12,948
UC2IEF	10,948

LOW POWER

All Band

ZC4BS	5,244,877
9M6RO	2,924,380
ZK1XC	2,215,343
LY3BX	2,107,140
JF1SEK	1,966,968
NH6T	1,934,998
PX1Z	1,810,710
P29KH	1,345,986
K7RI	1,286,946
EA8BVH	1,230,876

28 MHz

Z21HQ	1,118,611
V47TV	857,934
Z21BL	844,074
J43A	444,288
LU2NI	435,666
ZY5IO	420,243

21 MHz

LU1ICX	461,590
IT9RYJ	448,392
VU2BIX	424,074
KC1SJ	398,025
I5NSR	390,136
JQ1QET/JD1	373,255

14 MHz

VU2PTT	272,251
EA6AAX	267,910
EA3GFT	195,534
JH0OBD	140,239
5N0RJM	127,335
JE2UFF	121,155

7 MHz

HA9BVK	139,664
N1XZ	27,455
JA0UMV	23,680
JA1LZR	21,488
OK1PFJ	13,780
JJ6DGP	7,889

3.8 MHz

LZ1DM	47,872
YO3RU	41,160
OK3YCL	24,300
HJ6RXI	22,608
F6BVB	16,610
OK2HI	11,750

1.8 MHz

OZ3SK	19,198
OK3IQ	15,660
CT1AOZ	10,816
Y21XC	5,600
RV9WG	4,784
PA0ZH	3,626

ASSISTED

N4RJ	4,005,762
K1ZM	3,978,942
IR8A	2,738,757
K3WW	2,610,960
KC1XX	2,555,944
N4WW	2,507,618

MULTI-OPERATOR SINGLE TRANSMITTER

PJ1B	21,214,809
P40T	18,997,200
8P9Z	15,929,221
PJ7A	13,368,655
IQ4A	12,424,195
KH2S	11,095,392

MULTI-OPERATOR MULTI-TRANSMITTER

VP9AD	28,086,030
KH0AM	25,084,536
ZA0RS	18,877,416
LU4FM	18,747,378
IZ3A	17,660,068
HG73DX	15,959,514

USA

SINGLE OPERATOR HIGH POWER

All Band

K1AR	5,345,352
KM1H	4,371,147
K4XS	4,319,712
WM5G	4,136,726
K3OO	3,760,306
K3ZO	3,271,950
N6BV/1	3,091,624
W3BGN	2,785,068
W9RE	2,758,161
W1PH	2,481,744

28 MHz

NR5M	473,796
W0UN	450,282
K1NG	415,472
KT4W	378,840
KE5FI	356,372
K5MR	332,210

21 MHz

K3RV/4	844,482
KW8N	548,973
WB9Z	541,818
WC6H	499,212
NX1P	457,864
KK9A	443,220

14 MHz

KS1L	515,406
KV4P	371,169
KC2X/4	314,560
W8TWA	185,440
W5FO	181,712
K9CAN	175,380

7 MHz

KC7EM	263,048
KV0Q	194,327
N4ZC	108,250
KZ2I	40,326
KD9O/0	36,864
K5NU	34,356

3.8 MHz

K1UO	105,609
K8PO/1	90,944
K7EG	80,800
W0CD/8	37,037
KQ3V	29,200
K4JEX	18,407

1.8 MHz

AB4RU	4,725
AA4MM	2,700
W2FCR	1,600
KC4YM	432
K4TEA	420
KM5R	182

LOW POWER

All Band

K7RI	1,286,946
K5RX	993,806
KX5Z	842,898
KG1D	769,880
W3UJ	603,630
K6XV	591,426
W3KXR	504,839
KD5GD	487,602
KB3TS	432,398
WM2D	422,712

28 MHz

W0LSD	161,868
K2MFY	139,997
WB5CRG	111,875
KC4TIR	88,288
WB6MBF	83,754
W6EUF	81,290

21 MHz

KC1SJ	398,025
NI5M	132,928
N7RO	119,952
KE2JO/4	105,564
WA4APM	104,520
KA1GTR	101,598

14 MHz

N4IJ	71,424
WB8ORV	28,428
N3FTI	7,301

7 MHz

N1XZ	27,455
WA6WPG	5,220
W6YVK	2,392

3.8 MHz

N7RM	1,265
WB0YWO	160

1.8 MHz

KR9G	390

ASSISTED

N4RJ	4,005,762
K1ZM	3,978,942
K3WW	2,610,960
KC1XX	2,555,944
N4WW	2,507,618
W1RR	2,432,073

MULTI-OPERATOR SINGLE TRANSMITTER

K3LR	5,512,429
K1YR	4,792,752
N3RS	4,572,087
W6QHS	4,239,284
AA6TT/0	4,111,440
K5NA/2	4,062,062

MULTI-OPERATOR MULTI-TRANSMITTER

N2RM	12,888,500
W3LPL	12,409,592
K1ST	10,204,000
W7XR	9,818,865
K2TR	8,606,163
N5AU	8,042,232

EUROPE

SINGLE OPERATOR HIGH POWER

All Band

ZB2X	7,128,646
GW4BLE	4,446,585
IR6L	3,167,322
YT1BB	3,436,884
EA7BA	2,419,533
DJ4PT	2,281,644
F6HLC	2,114,820
OH8LQ	1,814,540
GM0ECO	1,775,520
UT4UX	1,760,150

28 MHz

CQ4A	1,203,924
IT9A	801,220
YZ9A	493,812
IT9S	457,424
UB5IJG	426,387
RB5VK	408,946

21 MHz

OK1RI	805,896
OH1AU	746,200
TM1K	663,217
OH5TS	636,976
EA6FO	599,454
YU7AV	586,710

14 MHz

LZ5W	994,240
SM2EKM	948,117
TF3CW	822,300
HA4XX	713,241
YT3E	658,068
UA6LQ	542,325

7 MHz

G3NLY	393,908
OH2AQ	219,312
IN3ZNR	192,076
4N4A	153,640
RB5ISP	131,098
OZ1FTE	125,424

3.8 MHz

GW4OFQ	183,590
Y21CW	162,450
DL3LAB	122,194
ES5RY	116,958
YU3XU	97,020
OH6RM	86,390

1.8 MHz

IV3PRK	28,864
EA3ALD	18,961
RY7D	17,500
OK1JDX	13,230
UC2IEF	10,948
F6AML	10,350

LOW POWER

All Band

LY3BX	2,107,140
EA3BKI	1,121,324
EA3CWK	990,318
EA7FTR	745,032
Y48PJ	712,194
EA3GBU	605,440
EA3GCJ	586,845
HA3RD	574,560
SM3SGP	570,372
G4XKR	516,975

28 MHz

J43A	440,700
EA7ARK	204,074
IT9HBT	196,647
UA3ZIU	137,888
SL5AB	131,313
UA6BPM	120,879

21 MHz

IT9RYJ	448,392
I5NSR	390,136
YT3SW	316,233
EA4DX	205,280
EA1EVQ	90,200
UA3DJY	68,700

14 MHz

EA6AAX	267,910
EA3GFT	195,534
EA3AAY	110,288
EA3GCT	95,920
LX1SG	83,646
RB5EG	83,210

7 MHz

HA9BVK	139,664
OK1PFJ	13,780
Y67RL	3,440
UA3D/UB3LB	2,856

3.8 MHz

LZ1DM	47,872
OK3YCL	24,300
F6BVB	16,610
YO3RU	13,008
OK2HI	11,750
EA3EGB	8,160

1.8 MHz

OZ3SK	19,198
OK3IQ	15,660
CT1AOZ	10,816
UW3AT	2,489
G3BDQ	2,128
SP3GUG	1,392

ASSISTED

IR8A	2,719,656
UT2L	1,768,947
ON4UN	1,512,252
DJ2YA	1,478,556
F6AOJ	1,320,170
DF3CB	1,254,396

MULTI-OPERATOR SINGLE TRANSMITTER

IQ4A	12,424,195
RY1U	9,987,465
LZ9A	8,864,650
FV7A	7,564,217
TO7C	7,076,538
GW8GT	6,564,178

MULTI-OPERATOR MULTI-TRANSMITTER

ZA0RS	18,877,416
IZ3A	17,660,068
HG73DX	15,959,514
UR5M	12,567,996
G0KPW	12,139,792
R6L	10,660,857

N8BNG & AA0AW, KA0CDO, AA0FY, AA0BY, VE3KRP, VE3MOE, KB0DBO, N0JDX, KA0LAH, N0DFP. **N8ZA** & KI0G, W0KEA, KR0U, OZ1JIW, W1XE. **N2NU** & K2WI, N2LMC. **N3RS** & NW3B, NW3Z, N3LR. **N4REE** & K2UFT. **N4UWS:** Club. **N5RZ** & WF5E, N5NA, AA5DW, NI5F. **N6AW:** & W6BA. **NJ9C** & KM4TY, N4OKX, AA9AX. **NK7U:** Club. **NL7UT** & NL7IY, NL7WA, KL7AF. **NN3O:** K3NW, K3ATO. **NO7F** & KF7DO, KE7MI, KA6PDG, N7MAK, N7SBF. **NP2N** & W0ANZ, WI0W. **NQ0I** & N2IC, K0KR, N5OP, WM0G. **OE1XTU:** OE1TKW, OE4BKU, OE1JNB, OE1MCU. **OE2XEL:** OE2GEN, OE2LCM, OE2MON, OE2MRN, OE2SCM, OE2VEL.

OE3XCW: OE1GAS, OE3CHC, OE3MDC, OE3PUW. **OE5XVL:** OE3GEA, OE5MKM, OE5VBL, OE5BCG, OE5TLN, OE5VVL. **OH4JK** & OH4YC, OH4ZS, OH4MI, OH4NZI. **OH7AAC:** OH7MS, OH7MHL, OH7WV, OH7LNI, OH4MJ. **OK1KQJ:** Club. **OK1OFM:** Club. **OK2KDS:** OK2VWB. OK2-32906, OK2-22266. **OK2KET:** Club. **OK2KMR:** Club. **OK2KOD:** Club. **OK3KAG:** Club. **OK3KAP:** Club. **OK3KXR:** Club **OK5W:** W5GN, OK1AEZ, OK1CF, OK1JJB, OK1JKT, OK1TA, OK1TN, OK1WT, OK2FD. **ON6AH** & ON6QR, ON6MH, ON7ZV, ON7PC, ON9CMB, ON1KMZ. **ON6NL** & ON1ANK, ON1AUE, ON1AYW, ON1BJI, ON4AEK, ON4AHF, ON4AKL, ON4AST, ON4FK, ON5ML, ON6JZ, ON6MP, ON7EB, ON7WK, VP8BPZ, Olav, Elke.

ON7UN & ON6SK, ON4AGN. **OR5EEC:** DF3TJ, ON1BVH, ON4KRW, ON5GA, ON8BK, ON8XB. **OZ1ADL** & OZ1XJ, OZ1FRF. **OZ1TRO:** OZ1EYE, OZ1IVL, OZ1IVW. **OZ3KUN:** Club. **OZ4HAM:** OZ2JZ, OZ4FZ, OZ1KWB. **OZ6ARC:** Club. **P48T:** K4PI, WX4G, W3BTX, N4RJ. **PI4COM:** PA3BBP, PA3ERC, PA3EWP, PA3DMH. **PI4TUE:** PA3EZL, PA0SHY, PA3FDW, PE1LYO, PE1MNL, PE1NOT. **PJ1B:** N3EO, W3UM, KB2XZ, K2SS, N7ZZ, K2SB, PJ9EE, WA3LRO. **PJ7A:** K1TO, NJ2L. **PP8F:** PP1CZ, DJ0MCZ. **PS4B:** PY4BA, PY4BHB, PY4MI, PY4OY, PU4WHO. **PT7F:** PT7AZ, PT7BZ, PT7BL, PT7SY, PT7VB, PT7WA, PT7WZ. **PY2UJJ** & PP8WHL. **RL8DWW:** UL7DDP, UL7-029-179. UL7-029-152, UL7-029-128.

RY8Q: RB5QW, RB5QRW, RB5QRQ, RB5QNA, UB4QW, UB5QN, UB0QQ. **RY1U:** UT5UGR, UA0ICT, UR4IX7, UT3UA, UT5ULY, UL7-179-190. **RZ1A:** UV1AA, JA1BX, UW1AE, UA1AKC, UA1ARL, UA1CFL, UA1AIU, RV1AW, UA1-169-432. **RZ6AXQ:** UA6YHF, UA6YN, RA6AX, UV6AOW, UA6AEW. **SK0HB:** SM0CXM, SM0THN, SM0SYP, SM0MLZ. **SK0MK:** SM5CCT, SM0NCS, SM0LPO, SM0COP. **SK0UX:** SM0KCO, SM0MPV, SM0JHF, SM0TQX. **SK3IK:** SM3SER, SM3DMP, SM3RAB. **SK5WB:** SM5BCO, SM5INC, SP5PPS, SM5NUZ. **SL0CB:** SM0DRD, SM3LGO, SM0NZY, SM2RVM, SM1TDE. **SL5ZYB:** SM5CGJ, SM5LNE, SM5EMR. **SP3PLD:** SP3CB, SP3IBM, SP3SBB. **SP9ZHR:** Club. **TA4/K6KH:** K6KH, N6AXO, N6DMV.

TG9/IT9SAZ & IT9ONV, IT9JKY. **UB3IWA:** UB5IOK, RB5IM, UB5IFZ, RB5II, UB5IML, UB3IDX, UB5-073-1151, UB5IPP, UB3IBZ. **UB4WZA:** UB5-068997, UB5-068996, UB5WCX. **UC1CWB:** V. Pravilov, D. Batushev, D. Teljak. **UK4W:** RW4WR, RW4WZ, UA4WW, UA4WAD, UA4WGM, UA4-095-754. **UO8Z:** RB5FF, RB5FT, RB5FA, RB5ZM, RB5ZZ, UB4FA, UB5FBV, UB5FJF, UO5OB, UO5OGV, UO5WU, UO5OCW, UO5OCI, UO5OAL. **UQ4OXU:** UO5OOC, UO5-039-537. **UW2F:** UA2FF, UA2FJ, UA2FZ, RA2FA, UA2FM. **UZ8CXD:** UA0CR, UA0CID, UA0-110-775. **UZ1AWO:** UA1-169-2391, UA1-169-900. **UZ1NWP:** Club. **UZ1TWC:** UA1TAN, UA1TFG, UA1-144-1068. **UZ3AWO:** UL7IDX, UV5HRR, UJ8JIT, UV3DCX.

UZ3AXX: UV3AKW, UA3-170-126, RA3DUU. **UZ3DXW:** A. Boburkov, UA3142-1755, UA3-142-1770, UA3DGD, UA3-142-1751. **UZ4PWW:** RA4PO, UA4-094-976, UA4-094-973, UA4PBZ, UA4-094-1329. **UZ4WWA:** UA4WA, RW4WA, UA4WAZ, UA4WAN. **UZ6LWB:** RA6LW, UV6LRV, UV6LMK, UA6-150-1487. **UZ9CZO:** UV9CAZ, UA9-154-2007. **UZ9XWV:** UA9-090-1058, Club. **UZ9YXI:** Vasil, Kesha. **V31DX:** WA9L, VE3SUN. **V31X:** N6DLU, N6LL, KF6TC, AB6DG, W6IRT. **V31ZR:** W7ZR, AA7CM. **V85HG** & JO1RUR, JH7PKU. **VE2UMS:** VE2BAP, VE2LIT, VE2OFL, VE2IQA. **VE3EJ** & VE3CDX, VE3OZB, VE3XN. **VE5FX** & VE5MX, VE5GHC, VE5MH. **VE5NN:** VE5CPU, VE5RC, VE5MU, VE5VR, VE5RJR. VE5ABL, VE5SI.

VE6AO: Club. **VE6JY** & VE6WQ. **VE6WP** & VE6BBP, VE6BOS, VE6MAA, VE6LLL, VE6ZC, VE5WI. **VK10X:** Club. **VK6OD** & VK6BB. **VP5X:** KA8PTT, WD8RIH, KA8JIL, K8BBQ. **VP9MN** & VP9MP, KB2NNU, Julie. **VS6WO:** NA9D, K9VV. **W0CP** & WY0J, K0EU. W0PSY. **W0MHK/VE2** & K2OQA. **W1BK** & WA1UAR, K1TXH. **W1XN** & N1KCO. **W2HPF** & N2PP. KB2SG, N2WK. **W2UI** & N3KR. **W3XU** & NW3Y, N3FDL, AA1K. **W4AQL:** N9HZQ, K0DI, N7FYT, WA4ABY, WD4DWN. **W4NC:** KI4TB, KB4WJA, N4VHK, WA4IAM, K4QS, KJ4IC, KC4SUA, KC4LWI, KC4TWU, N0KTY. **W4PRO:** WB8HDD, AA4NG, KD4AUS, N4PUV, KC4WYR, KD0R, WA4OHX, KM4GZ, WF7B, NQ1W, KC4URA.

W5WMU & WB5N. **W6EEN** & K6XC. **W6GO** & AA6LB, AA6WJ, NB6G, NV60. **W6QHS** & KK6QM. WZ6Z, K0RF, W0ZZ, N6TV. **W6YX:** KM6IQ, WA2HID, N6UOK, KJ2B, AA9AT, KX6C, WC6I, N9FZX, N6YWI, N5PEE. **W9HOQ:** KB9FNN, WD9L, N9KLK. **W9JZ:** K9IMM, WB9NOV, K9KVA, N9CHN, KE9XN, KF9AF, KE9ET, WV9X. **WA8ROI** & KE0UI. **WA1C** & N1HJI, N1CDF, N1GAX. **WA2C/3** & N2GMA. **WA2MKM** & KL2C. **WA6NKQ** & N7OKV, K7PVT. DL6YEN, KF7OI, N6ZWJ, N6HR. **WA8OSE** & N8JEC. **WB3FIZ** & KA3GIK, WB3HAZ, WB3FIY, WB3LFZ, KB3MM. **WB4OSS** & KB4SRE, KB4YTD. **WB8IFP** & KD8YR, KA8POM, WD8ROD, KD8FO, N8EZM, WF8N, AB0W, WA8PRA, WD8SBD, KB8JK9.

WD4KXB/VE2: VE2XY. WD4KXB, KJ4VG. **WE5I/KH9:** WE5I, AD1S. **WK2N** & N2KLO, N2LSZ. **WM2V** & WA2SYN. **WM8W** & AK8H, KA8ZMY, KB8LKG, N8GVF, WS8T, W8ZD. **WN1G** & NX1T. **WT1L** & KC1WH, WB2JSJ, WW1C, N1HRO. **WT5U:** Club. **WX7P:** Club. **WZ9J** & N6TNG. **XE1/NV1P:** AA6RX, NV1P. **XE1/NV1P:** NV1P, AA6RX, DJ6OV. **XQ3PA:** CE3CB, CE3GDV, CE3HBA, CE3HDI, CE3HFA. CE3JSX, CE3LCF, CE3OYS. CE3PGJ. **Y24YH:** DL1RYC, DL7ATG. **Y34K:** DL3OI, Y24UK, Y33VL, Y42LK, Y42MK. **Y34K:** DL3OI, Y24UK, Y42LK, Y42MK. **YB8ASC** & YB0ARN. **YI1RJ:** SP5AUC, LA5NM. **YV5NCJ** & YV5NCK.

YZ4Z: 4N4CX, 4N4MX, 4N4RX, 4N4TF, YU4AX, YU4CC, YU4EX, YU4JK, YU4NW, YU4RO, YU4RW, YU4TB, YU4UK, Amela, Dave, Hajro, Jasmin, Kameni, Samir, Zijo. **ZA1ZJ:** JF1IST, JH1EDB, JR6GV, JI1DLZ, JK1OPL. **ZF2JI:** KG6AR, NU4Y, K4IIF, ZF1EJ, KT6V. **ZF8AA** & W5ASP, W5VAH, K5GA, N5DU. **ZS4NS/7P8:** ZS4NS, ZS4KK. **ZW8JR:** PP5JR, PP5WG.

STATION OPERATORS
Multi-Operator Multi-Transmitter

4N31A: YU3MM, YU3AI, YU3IX, YU3OJ, YU3EW, YU3AW, YU3KD, YT3ZW, 4N3AM, YU3ZO, YU3IO, YU3ZV, YU3PV, YU3EO, YU3RJ, YU3DB, YT3HM. **4U1VIC:** DF5BM, DK7ZH, DK7ZT, DJ9KH, DK3CF, DL4MFM, DL1ZBE, DL7AOJ, DL8OBC, DL8OBQ, DL8AAM, DL2OBF, DL1DAS, DK1RV. DK4OX. **DF3QG** & DJ1FC. **DX1DBF:** Ronald, Howard, Erwin, Mel, Kef, Nicky, Jojo, Dennis, Jerome, Melvin, Michael. **EA1WA** & EA1WC, EA1CEV, EB1FHL. **G0KPW:** G4BAH, G7ABQ, G3XTT, AA6MC, G4BUO, G0GAG, G4XUM, G0HSS, G4PIQ, G3ZAY, G4VMM, G4BWP, G0CYB, G4UJS, G1PBU, G0AFH, G4FAM, G6GAU, G0OZF, G4HUP, G4WFR. **HB0/HB9AON:** DJ2YE, DK5EZ, DL1EIJ, DL3EBX, DL8EAQ.

IZ3A: I3EVK, I3JSS, I3MAU, I3ON, I3QJZ, I3KVW, I3HIY, I3VHO, I3VRD, IK3HZI, IK3ORD, IK3REU, IK3NXM, IN3DYG, I2VXJ, IK2BHX, IK2GSN, IK2NCJ. IK2QII, IV3TQE, IV3YVK, IW3FGC. I4UFH, I4YSS, I6NOA. **J88D:** W8KKF, WA8LOW, K9FD, KP2A, WX9E, J88BK. **JA1YXP:** JE1BHJ, JF1QOW, JG1TNX, JJ1OJG, JJ1WYS, JL1SXX, JQ1UXN, JS1INN, JS1XEX, 7K1HUK, 7M1DVT, 7N1IAP, JG2QHQ, JI2KRK, JI7QPV, JK7EUC, J. Nakamura, K. Shiomi, K. Enomoto. **JA7YRR:** JA7CEC, JA7CXV, JA7FDY, JA7JUD, JA7LBY, JA7MQM, JA7QZW, JA7WSC, JH7VHZ, JR7LVA, JJ1XGF, JQ1NBV. **JE2YRD:** JH0GHR, JA9SSY, JA9-10148, JK3GAD, JI2KVW, JA2KVD, JF2EOC. **K0CS** & W8TN, WA0TKJ, W0UO, AC0S, KA0YAA, KB0U. **K2TD** & WB2YOF, N2VW, WB2R, K3GYS.

K2TR & WA2SPL, N2DU, WA4VKD, K2WR, K2XA, NQ2D, N1CC. **K8CC** & AA8FE, AC8W, K0DD, K8DD, K8GL, KE8OC, KO9Y, KU8E, N8BTU, N8COA, N8CXX, NE8T. **KH8AM:** AH0K, JH1EAQ, JK1GXU, JM1CAX, JA2VUP, JE2JCV, JF2NKS, JG2BVO, JI3ERV, JR7OMD, JE8XRF, JA9VDA, JA0QNJ, N2BA. **KL7RA:** KL7XD, KL7TC, AL7CQ, AL7HC, AL7MU, AL7AF. AL7KB, NL7KB, NL7TK, NL7V, WL7BZR, AA6DX. **KL7Y** & KL7D, KL7HFA, WL7E, KL7U, NL7K, NL7VJ, NL7WJ, NL7YL. **KY1H** & WB1AUV, N1IBN, N2MG, NS1M, N1FJ, NJ1F, KY1K, KB1W, NU1P, KR1R, WK1O, WA1ZAM, NT2X, AK4L. **LA1W:** LA2HAA, LA6BBA, LA3GF. **LU4FM:** LU1FJH, LU1FOW, LU1JRL, LU2FFD, LU5FGG, LU6FEC, LU7FN, N6AA, N6ZZ, W6KNC, W6MKB, W6NV, W6XD, WB6OKK. **LX9CE:** LX2LA, LX1DH, LX2VA. **LY2ZO:** LY2NK, LY2BFN, LY2BKZ, LY2BMX, LY2BOA, LY2BSS, LY2BUG, LY3BAB, LYR-346, LYR-728, LYR-1751, LYR-1853.

N2RM & WM2H, N2NT, K3UA, KR2J, KZ2S, N4HY, N2AA, K2TW. W2RQ, KA2AEV. **N6ND** & N6CW, K6XT, K6STI, K6JYO, KM6K, W6YA, W6UQF. **NF2L** & K2BU, KY2T, K2TCK. WY2X, W2GMA. **NQ4I** & WI4R, KB4GID, KS4Q, AA4CA, KM4SO, N4UQ, K4BAI, W4MGX, KA1WR. **UN7LR:** UN7SF, UN7PG, UN1BCB, UN1AVZ, UN1ARZ, UN1-6945, UN1-8888, CN1BHI, UN6VK, UN6MR, UN6BY, UN6EV, UN6IQ, UN6SG, UN6PU, UN6GV, UN6JF, UN2IT, UN2AAC, UN2AIM, UN2AHR, UN5FF, UN5DH, UN5DO, UN5UM, UN5SH, UN4AFZ, UN4AZL, UN4ANV, UN4AMI, UN4ALT. UN4AJZ, UN4AJW, UN4ASB, UN4AWU, UN4AAQ. UN4WW, UN4NM, UN4AML, UN4ABW, UN4ADA. **PJ9W:** OH1MA, WW2Y, OH1XX, K4UEE, OH6XY, OH6JW, K3EST, N4RV, OH6YF, K1DC, OH6NU, OH6NW, N7BG, NL7GP, OH6RM, OH6RI, KI6EZ, JP1DMX. **R6L:** UA6LO, UA6LV, UB5ITW, UA6-150-1240, UA6-150-1103, UV6LPL, UA6-150-1070. UA6-150-1403.

RH2E: JA9TF, UA9TZ, UA3QLC, UA3QJM, UA3TT, RA3QK, UA3QKQ, UH8EA, UA0KBZ, DF9LJ, DL4GBA, DK4VW, DK2OY, DL1GWS, DF7RX, DL6RAI. **SN6F:** SP6ECA, SP6CL, SP6DNS, SP5DLO, SP6GVU, SP6IXF. **TA3KC:** TA3B, TA3D, TA3F, TA3W, TA3AK, TA3PB. DL1EBT, DL9EFW, TA3ZA. **UR5M:** RB4MF, RB4MB, RB4MV, RB5MA, RB5MF, RB5MP, UB1MM, UB5MAF, UB5MDA, UB5MZ, UB5-0059-33. **VC1DX:** VE1DX, K2NJ, NR2H, KF2BH, KE2PF, KD2RE, VE1IW, VE1GJ, VE7ARS, VE1JCI, VE1PBM, VE1ZJ, VE1NH. **VE7ZZZ:** VE7AV, VE7BKO, VE7BUX, VE7CV, VE7DRS. VE7DSU, VE7EME, VE7EON, VE7OLE, VE7EQN, VE7JMN, VE7NNN, VE7RBL, VE7RK, VE7SK, VE7SSS, VE7WGT, VE6EZ. **VP9AD** & W3MA, G4CNY, N3AD, N3RD, N8ET.

W0AIH & K0FVF, N0BSH, KA9FOX, N9KAU. **W3LPL** & K1DQV, KA1GD, WI2T, ND3A, KC3EK, N3GB, W3IDT, KF3P, K3RA, KA3UBJ, KA3VYN. WR3E, WR3Z, W3ZZ, N8II, WA8MAZ, KD9J. **WA3NAN:** N2BSS, N2US, K3CLG, KA3PVS, N3DRL, N3KGY, W3FUO, N4OSD, WD8LAQ. **WM1K** & WC1D, N1AU, WA1TTV. **XE2MOO:** KD5RO, N5PYD, KA5YED, WB5NDN, KB5PPZ. **YU3C:** Karmen, Zoran. **ZA0RS:** HA1TJ, HA5NG, HA5OV, HA5PP, HA7JAO, HA8VK, HA0DU, HA0MK, HA0MM, HA0NAR, HA0NNN. **ZM2K:** ZL2BKM, ZL4OY, ZL2IR, ZL2IO, ZL2BI, ZL3IX, ZL2BPL, ZL2ASD, ZL2BSJ, ZL2JLG, ZL2ULG, ZL2UDF.

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	NL7KJ	96,184	21	AP2SQ	1,379,220
2	VO2AA	298,056	22	VU2BIX	424,074
3	N6KT	2,421,900	23	JT7AA	197,052
4	WM5G	4,167,878	24	K1RX/BV	3,437,385
5	K1AR	5,396,202	25	JE4VVM	2,495,983
6	XE2BEU	1,368,828	26	HS0E	2,328,726
7	TI2MEN	2,656,455	27	KG6DX	1,861,358
8	V29W	9,196,488	28	P29DX	5,314,946
9	P40W	10,779,338	29	VK6JIP	184,870
10	HC5R	9,630,000	30	VK2BEX	2,146,658
11	ZV5A	2,984,166	31	WR6R/KH6	5,037,033
12	CE3FIP	5,682,040	32	ZK1XC	2,215,343
13	L33F	2,297,394	33	CR3A	12,974,910
14	ZB2X	7,128,646	34	No entry	
15	YT1BB	3,436,884	35	9L1US	9,263,688
16	UT4UX	1,760,150	36	TT0A	2,604,393
17	RL2O	5,521,560	37	5Z4BI	4,640,388
18	UW0ST	219,570	38	ZS6WPX	1,464,460
19	UA0FZ	154,812	39	FR5DX	1,782,066
20	ZC4BS	5,244,877	40	TF3CW	822,300

WORLD TOP 10 QRPp
All Band

1. 4M1G	1,887,968	6. WA2UUK	316,608
2. ZX5A	1,870,748	7. WM4Z/5	270,663
3. UA3DQH	450,822	8. JA6VZB	267,729
4. TO1W	439,872	9. N4VYZ	248,005
5. G4BUE	341,130	10. IK1GKE	236,062

TEAM CONTESTING

1. **Frankford Radio Club, 27,428,170.** By J82A (K3IPK), V47KP, P40W (W2GD), K3OO, and N2LT.

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. (Also note that the use of the term "USSR" in these results reflects the DXCC list at the time of the 1991 contest. The 1992 contest and results will reflect the political changes since that time.)

SSB RESULTS
SINGLE OPERATOR
NORTH AMERICA

UNITED STATES

K1AR	**A**	**5,345,352**	**2740**	**153**	**525**
KM1H	"	**4,371,147**	**2560**	**150**	**509**
				(Opr. KQ2M)	
N6BV/1	"	**3,091,624**	**2018**	**136**	**432**
W1PH	"	2,481,744	1482	141	455
K5MA/1	"	1,376,646	1057	120	359
W1NG	"	1,145,564	856	124	378
W1BR	"	1,054,235	853	115	340
W1OO	"	1,034,520	832	113	311
WS1Y	"	841,960	853	96	292
W1KRS	"	647,021	544	97	270
N1HDQ	"	547,150	558	78	232
K1JB	"	546,174	503	87	255
W1WEF	"	508,248	542	96	255
AA2Z/1	"	501,552	558	88	236
WB1AEL	"	490,224	555	90	246
NR1R	"	479,899	495	105	278
W1OP	"	455,213	548	101	218
			(Opr. K1PLX)		
K2TE	"	448,245	527	83	232
KA1DWX	"	419,442	511	86	232
W1MK	"	243,648	336	76	206
AB1U	"	209,620	355	64	159
WO1F	"	199,920	325	75	165
K1KI	"	174,324	322	71	148
N4XR	"	87,989	167	68	141
K1JBS	"	75,752	176	50	106
KQ1F	"	73,392	163	55	113
N1HRA	"	55,168	232	40	88
NF1J	"	45,217	148	34	79
NY1V	"	45,024	138	44	90
W1FV	"	14,904	78	20	49
K1NG	**28**	**415,472**	**824**	**33**	**151**
			(Opr. K1IG)		
K1KNQ	"	159,286	407	31	115
NY1L	"	158,286	424	30	108
WS1M	"	124,388	416	29	92
KS1J	"	107,973	307	30	99
KA1CB	"	97,696	252	34	108
K1VWL	"	82,940	274	29	87
N1FJS	"	28,008	154	20	54
KA1SZP	"	7,599	71	16	35
W1XS	**21**	**186,956**	**459**	**34**	**120**
AA1M	"	13,199	77	19	48
K1VSJ	"	7,840	63	16	33
KS1L	**14**	**515,406**	**998**	**38**	**148**
K1UO	**3.8**	**105,609**	**406**	**26**	**81**
K8PO/1	"	**90,944**	**387**	**21**	**77**
***KG1D**	**A**	**769,880**	**746**	**104**	**276**
*NG1J	"	275,528	418	68	180
*W1FM	"	256,522	394	66	185
*K1CLN					
/1	"	197,169	323	60	169
*KA1WIF	"	115,244	240	52	136
*W1TSJ	"	43,125	136	41	84
*K1DE	"	41,760	138	30	86
*WU1T	"	40,825	140	34	81
*W01N	"	32,832	113	42	72
*KA5GIS					
/1	"	27,246	93	36	78
*KA1UKR	"	22,356	83	33	75
*AI8Z	"	12,551	61	22	55
*K2MA	"	7,257	46	23	36
***KA1SPO**	**28**	**54,366**	**226**	**27**	**75**
*KA1RLI	"	48,888	191	24	73
*WU1X	"	25,842	141	20	53
*N1HKV	"	25,478	144	22	56
*KA1RRX	"	17,688	104	17	50
*N1IBQ	"	16,256	97	19	45
*N1JFO	"	10,382	70	16	42
*KA1SVV	"	9,900	64	17	36
*KA1PRD	"	6,885	55	15	36
*KJ4K3	"	800	15	12	13
***KC1SJ**	**21**	**398,025**	**795**	**37**	**146**
*KA1GTR	"	101,598	311	24	94
*KC1SS	"	67,218	248	22	80
*WA4RNN	"	26,064	137	18	54
***N1XZ**	**7**	**27,455**	**108**	**27**	**68**
N2LT	**A**	**2,424,495**	**1577**	**135**	**408**
K2DM	"	**2,333,145**	**1600**	**129**	**416**
W1GD/2	"	1,390,830	950	126	411
K2PS	"	1,328,297	1076	113	348
AA2GQ	"	1,229,436	974	108	360
KE2NL	"	1,060,142	838	118	328
KB2BF	"	731,562	797	89	250
WA2UDT	"	560,628	603	94	254
W2REH	"	438,354	462	90	253
N2BJX	"	405,108	553	83	214
KA2HMJ	"	327,420	463	64	191
KB2MFQ	"	321,161	331	80	257
KB2DE	"	302,116	419	80	204
WA2VCW	"	301,392	389	88	211
WA1KKM	"	293,372	399	81	203
K2OMF	"	261,376	345	81	205
KD2BW	"	187,450	312	70	160
WM2Y	"	150,306	279	58	147
K2PF	"	133,107	248	61	146
WY2Z	"	56,196	176	42	84
W2SDO	"	41,052	122	46	80
N2BSA	"	37,855	149	31	82
WA2WYR	"	31,753	118	39	74
N2MR	"	29,348	104	49	67
W2GW	"	10,275	54	31	44
W2KZE	**28**	**52,605**	**181**	**30**	**75**
NN2G	**21**	**135,960**	**384**	**27**	**105**
W2WD	"	69,615	216	27	90
KB2KUR	"	14,760	67	18	64
WA2UZI	**14**	**141,665**	**354**	**34**	**111**
K2MGA	"	133,280	379	32	104
KZ2I	**7**	**40,325**	**168**	**23**	**71**
W2XL	"	2,356	31	9	22
W2FCR	**1.8**	**1,600**	**86**	**7**	**13**
***WM2D**	**A**	**422,712**	**537**	**83**	**226**
*WB2WPM	"	186,730	276	80	183
*W2KHQ	"	182,967	317	58	155
*AA2GS	"	178,824	313	67	161
*N2JOH	"	75,240	185	51	114
*KM2L	"	66,030	179	45	97
*K2SWZ	"	65,260	202	40	90
*NM2L	"	60,344	142	51	101
*K2JF	"	57,538	143	54	107
*NN2C	"	23,362	100	35	61
*W2HCA	"	19,897	89	33	62
*KB2NCF	"	18,300	89	40	50
*W2OAE	"	14,337	71	29	52
*WB2JFP	"	14,300	71	31	49
*N2INV	"	7,424	57	21	37
*N2NMT	"	6,600	52	17	33
***K2MFY**	**28**	**139,997**	**360**	**30**	**113**
*KC6FTY					
/2	"	52,630	186	22	73
*KE2ZU	"	48,480	206	25	71
*K2OLG	"	43,860	125	29	100
*N2LCU	"	43,148	166	25	67
*W2YY	"	13,616	76	22	52
*WS2L	"	12,040	93	19	37
*N2JZK	"	4,859	42	16	27
*KF2AH	"	4,264	51	16	36
***WA2LMC**	**21**	**37,488**	**184**	**19**	**59**
*KD2IX	"	13,376	75	21	43
K3OO	**A**	**3,760,306**	**2134**	**145**	**504**
K3ZO	"	**3,271,950**	**2234**	**134**	**416**
W3BGN	"	**2,785,068**	**1728**	**139**	**433**
K3TEJ	"	782,261	820	92	267
K3II	"	749,547	713	101	290
K3ZNV	"	636,341	626	102	277
W3OV	"	558,963	578	98	261
K4JLD	"	528,865	545	107	254
K3NZ	"	452,640	490	94	251
W3GRF	"	310,168	419	81	202
WF3M	"	309,948	424	79	197
AD3Z	"	290,532	290	102	239
N3RW	"	288,312	377	84	209
WB3EKO	"	266,700	386	65	189
WA3MKB	"	259,156	379	77	191
K3CP	"	219,750	340	58	182
W3GNQ	"	210,150	348	51	164
WK3W	"	204,363	328	74	169
W3NTD	"	158,046	301	52	151
WB3CIW	"	134,316	289	53	129
WK3V	"	101,520	178	50	120
N3IXR	"	79,218	201	50	113
AI3E	"	50,400	130	45	99
KA3AVB	"	44,496	164	51	93
NM3K	"	15,054	78	29	49
W3					
/VK1GN	"	13,125	77	27	48
WE3C	**28**	**222,159**	**619**	**31**	**118**
KA3UIH	"	29,440	142	24	56
W3GN	"	448	10	7	9
N3AOE	**21**	**144,170**	**403**	**29**	**101**
W9XR/3	"	88,330	271	27	94
W3EAN	**14**	**13,130**	**83**	**16**	**49**
KQ3V	**3.8**	**29,200**	**187**	**18**	**55**
K0TV	"	7,650	62	13	38
***W3UJ**	**A**	**603,630**	**633**	**93**	**260**
*W3KXR	"	504,839	635	71	222
*KB3TS	"	432,398	529	83	215
*W3GK	"	229,500	349	71	179
*KD3CN	"	117,540	235	47	133
*KU3X	"	112,763	245	60	121
*W3GM	"	111,936	237	56	120
*W3QIR	"	89,640	210	47	119
*W3EE	"	62,752	167	46	102
*WJ3N	"	40,320	120	47	79
*KA3YRG	"	20,274	91	33	60
*N3KCJ	"	19,665	89	34	61
*KC3AG	"	19,594	165	52	94
***N3GPU**	**28**	**56,661**	**218**	**27**	**74**
*W3CPB	"	12,935	86	18	47
*WB3ILM	"	10,974	85	19	40
*KA3B	"	3,854	39	14	27
*W3KWH	"	3,484	56	13	25
			(Opr. K3RYA)		
*KA3CXG	"	594	15	8	10
***NV3V**	**21**	**52,332**	**200**	**22**	**76**
***N3FTI**	**14**	**7,301**	**57**	**17**	**32**
K4XS	**A**	**4,319,712**	**2414**	**143**	**493**
N6AR/4	"	**2,056,775**	**1318**	**138**	**437**
NX9T/4	"	865,283	835	103	288
W3LT/4	"	821,142	796	103	296
W5HVV/4	"	797,090	749	106	280
K4GKD	"	790,804	687	123	304
AA4S	"	787,545	734	112	295
KI4XO	"	755,220	808	117	293
KA4RRU	"	672,600	669	104	276
AA4EL	"	632,944	667	93	255
N4UH	"	611,810	605	107	279
AA4NU	"	611,810	615	114	272
KB3MP/4	"	590,724	592	92	274
KE4BM	"	542,820	623	92	240
WB4FO	"	431,098	482	99	237
WB4FTI	"	407,345	510	86	231
NO4J	"	338,922	373	104	238
KK4QN	"	282,755	392	79	186
AA4XU	"	252,816	364	80	196
AB4OH	"	241,920	366	73	183
W4WTO	"	172,843	328	65	144
K34NJ	"	154,889	307	61	142
KE4GY	"	146,949	260	67	152
KM4WE	"	142,788	277	71	148
W8CNL/4	"	131,738	256	60	139
KC4NKR	"	113,400	258	54	135
N4UH	"	111,150	205	61	134
AB4OQ	"	95,316	210	62	126
W4EEU	"	88,528	189	60	116
KC2KU	"	85,158	199	55	111
W4FDA	"	60,287	132	40	127
W4VC	"	59,136	153	47	107
AD4Y	"	59,079	160	50	91
K4AMC	"	41,409	148	34	73
W3FTG	"	37,962	135	38	76
WA4FIN	"	30,923	133	34	73
W4KYW	"	30,709	115	35	72
N4MM	"	10,140	58	28	37
KT4W	**28**	**378,840**	**836**	**34**	**134**
K3RV/4	**21**	**844,482**	**1507**	**37**	**157**
N4CT	"	314,916	686	35	128
WA4QQV	"	293,058	645	34	128
WA4ZBC	"	269,712	766	32	112
N4MO	"	247,902	574	31	127
KV4P	**14**	**371,169**	**803**	**38**	**139**
KC2X	"	314,560	801	36	124
W4ZTW	"	90,496	265	35	93
KS9U	"	69,432	189	38	94
N4ZC	**7**	**108,250**	**323**	**29**	**96**
W4TMN	"	14,365	86	16	49
K4JEX	**3.8**	**18,407**	**104**	**17**	**62**
AB4RU	**1.8**	**4,725**	**221**	**11**	**24**
AA4MM	"	2,700	103	10	20
KC4YM	"	432	15	5	11
K4TEA	"	420	13	5	9
***N4YKD**	**A**	**298,826**	**395**	**80**	**209**
*AA4LR	"	289,344	424	77	178
*AB4IQ	"	275,000	404	82	193
*WB4UBD	"	272,195	399	71	174
*KB4FME	"	245,618	374	72	182
*K4XG	"	240,240	326	86	194
*W9BLA	"	215,025	359	71	164
*KK4RV	"	180,831	297	69	168
*KC4WFD	"	169,947	353	62	145
*W3GU	"	139,936	268	61	130
*KA2CDJ					
/4	"	119,064	186	89	157
*KC4LH	"	87,101	218	49	112
*W4WJJ	"	72,270	175	57	108
*AC4HF	"	65,052	168	39	117
*KØLUX/4	"	55,744	154	50	84
			(Opr. KBØFIR)		
*W4GTS	"	47,730	110	46	83
*W4LMJ	"	37,416	113	44	79
*NV4O	"	36,733	127	39	70
*NK5I/4	"	32,058	120	42	75
*KC4TEO	"	17,424	91	34	54
*KC4QFR	"	14,839	96	30	41
*K04IO	"	11,189	65	28	39
*KQ4G	"	10,309	62	24	37
*W4UYC	"	7,083	52	29	30
*K4KUZ	"	2,665	23	20	23
*WA3DTI					
/4	"	1,870	24	15	19
***KC4TIR**	**28**	**88,288**	**251**	**30**	**94**
*WB4HFL	"	45,504	210	25	71
*KB4YJG	"	42,532	168	28	70
*KC4DBY	"	27,839	110	28	69
*N2DEM/4	"	26,040	130	27	66
*WD4CNZ	"	19,327	120	23	54
*W9CNF					
/M4	"	11,773	76	22	39
*KC4URW	"	9,384	77	18	33
***KE2JO/4**	**21**	**105,564**	**339**	**24**	**90**
*K4FPF	"	35,328	139	23	73
*AA4NP	"	31,570	140	23	59
***N4IJ**	**14**	**71,424**	**232**	**37**	**91**
WM5G	**A**	**4,136,726**	**2309**	**155**	**494**
				(Opr. KRØY)	
N5CG	"	**844,076**	**1015**	**99**	**257**
K5FUV	"	841,448	758	116	312
AA5WO	"	495,066	676	79	207
K9MK	"	460,018	515	106	232
WB5ASP	"	342,866	908	79	172
KG5SV	"	340,860	455	82	178
NJ1V/5	"	316,680	520	75	157
K5UA	"	306,391	418	80	189
AA5BC	"	183,992	325	69	149
WA5DTK	"	138,180	272	70	126
KI5GX	"	113,928	237	62	126
N5TCQ	"	24,752	120	38	53
K5NV	"	20,175	74	41	63
KC5WA	"	17,495	101	21	51
AA5HI	"	4,148	65	27	44
NR5M	**28**	**473,796**	**1105**	**35**	**129**
KE5FI	"	356,372	835	35	129
K5MR	"	332,210	877	33	106
KC5AC	"	25,060	138	23	47
W5ZPA	"	18,104	95	23	50
WB5UOX	**21**	**226,083**	**565**	**34**	**109**
W5FO	**14**	**181,712**	**446**	**38**	**126**
KF5QR	"	143,226	412	36	110
K5OC	"	58,782	212	32	87
K5NU	**7**	**34,356**	**158**	**22**	**62**
KI5GF	"	14,365	90	21	44
N5IMO	"	3,003	38	11	22
KM5R	**1.8**	**182**	**9**	**6**	**7**
***K5RX**	**A**	**993,806**	**824**	**120**	**334**
*KD5GD	"	487,602	609	68	221
*AB5C	"	277,288	413	80	177
*NN5T	"	272,976	400	82	182
*NZ5O	"	235,097	418	70	163
*WA5SOG	"	145,136	305	66	127
*WK5K	"	126,360	260	69	126
*N5QIL	"	96,170	250	50	113
*AA5B	"	95,150	214	62	111
*W5EIJ	"	9,052	57	26	36
***WB5CRG**	**28**	**111,875**	**347**	**31**	**94**
*WV5S	"	80,230	266	31	82
*KB5IYB	"	3,515	42	16	21
*N5QWQ	"	10	15	3	2
***NI5M**	**21**	**132,928**	**363**	**33**	**101**
*AA5SU	"	54,194	204	26	72
*KB5JJB	"	50,850	211	23	67
N6KT	**A**	**2,421,900**	**2041**	**133**	**327**
AA6PG	"	**1,492,092**	**1421**	**122**	**260**
W6UE	"	**1,468,764**	**1323**	**124**	**272**
				(Opr. KA6SAR)	
KI6CG	"	1,000,944	1102	108	228
W6BSY	"	741,888	816	97	239
N6EK	"	740,454	984	102	184
WB6JMS	"	538,537	627	115	216
WI6N	"	326,417	554	82	139
K6EXO	"	326,012	405	92	206
W6DBV	"	317,642	484	85	162
AA6KX	"	316,608	445	97	194
W6FSJ	"	305,988	444	85	173
KK6TX	"	300,846	471	88	159
KE6ZE	"	276,464	471	87	142
N6JM	"	110,085	234	59	110
WA6UFY	"	104,442	233	54	105
KK6XN	"	87,316	200	51	105
WA5VGI	"	64,920	199	44	76
W5MFC	"	63,269	175	59	92
KD6CK	"	55,380	313	54	76
K6SG	"	36,194	124	47	66
W50UL	"	37,076	116	52	72
K6HH	"	22,560	94	37	57
WX6M	**28**	**181,684**	**658**	**29**	**77**
K6OY	"	**170,316**	**538**	**28**	**86**
WA6FGV	"	90,582	369	27	66
W5MVW	"	51,575	223	26	61
K6PU	"	44,393	166	29	74
KA6ING	"	24,727	121	27	52
W6BIP	"	21,600	104	25	55
W6OVO	"	16,559	107	23	44
N6IC	"	16,640	100	21	43
K6LLQ	"	13,845	140	23	42
WC6H	**21**	**499,212**	**1236**	**34**	**113**
				(Opr. NU6S)	
N6RZ	"	**364,350**	**870**	**36**	**114**
N6YKL	"	247,000	783	32	93
W6TKF	"	47,227	202	23	60
W6OK	**14**	**43,602**	**182**	**28**	**58**
KU6T	"	22,116	107	28	48
K6YRA	**7**	**9,522**	**56**	**25**	**44**
***K6XV**	**A**	**591,426**	**702**	**101**	**208**
*N6ADK	"	273,304	413	88	166
*N6IP	"	208,331	405	67	114
*AA6YY	"	178,437	325	75	128
*K4UVT/6	"	121,422	262	66	111
*KS6H	"	120,560	271	58	118
*WB6JPY	"	114,390	216	69	136
*N6WHV	"	102,371	232	65	102
*WA7BNM	"	100,775	273	50	89
*K6OHM	"	58,100	132	62	113
*WD6DXH	"	52,680	162	51	69
*KJ6UD	"	45,764	161	42	66
*AA6EE	"	42,069	163	43	68
*AB6FI	"	20,368	122	33	34
*<K6EU	"	20,066	100	35	44
*WA6NLJ	"	18,800	93	34	46
*N6NF	"	12,045	68	30	43
*KI6VY	"	3,864	37	22	34
*N6BFN	"	1,600	31	11	9
***WB6MBF**	**28**	**83,754**	**311**	**27**	**72**
***W6EUF**	"	**81,290**	**272**	**29**	**81**
*W6CN	"	35,002	180	24	50
*KC6WMH	"	26,013	148	24	45
*KC6SKQ	"	23,433	129	25	48
*N6IFW	"	16,470	109	24	37
*KD6ADE	"	10,800	113	19	26
*NØHBC	"	3,968	89	14	17
*N6TPT	"	1,242	23	11	12
*N6YOV	"	16	5	2	2
***KC6VZO**	**21**	**78,177**	**284**	**27**	**76**
*N6MSQ	"	41,503	196	25	52
***WA6WPG**	**7**	**5,220**	**58**	**13**	**23**
W7TSQ	**A**	**499,800**	**629**	**100**	**200**
K6XO/7	"	**325,045**	**500**	**88**	**163**
NY7T	"	304,057	452	74	173
NN7F	"	291,840	445	92	164
K7P3	"	276,768	418	86	162
W7KKR	"	173,745	337	73	122
W7TWL	"	165,807	313	74	133
W7CN	"	150,348	278	72	129
N7MHQ	"	147,114	283	68	130
KS7T	"	139,825	304	60	115
KC7JP	"	126,574	267	64	115
K7A3V	"	102,312	228	57	111
KQ7	"	85,650	209	54	96
WC7S	"	49,675	140	52	81
WA6RNF	"	46,930	159	41	89
W7ZRC	"	46,200	147	38	72
N7PYC	"	43,401	147	42	69
K7SE	"	1,334	16	13	13

KF7VB	**28**	**185,820**	**598**	**30**	**84**
K7ZM	"	140,800	568	30	70
W7AYY	"	55,022	247	24	58
W7LGE	"	52,822	200	26	72
N7LTM	"	1,380	40	11	12
WJ7S	**21**	**214,054**	**579**	**31**	**100**
W7FP	"	159,951	451	31	98
NB7N	"	147,537	543	32	65
K7LZJ	"	127,490	426	28	82
WG7A	"	124,092	411	30	78
W7UPF	"	80,031	276	26	85
W7KJJ	"	57,588	200	30	76
W7TVF	**14**	**65,754**	**204**	**32**	**85**
KC7EM	**7**	**263,048**	**688**	**33**	**98**
W7WHY	"	5,148	55	14	28
WB7EWC	**3.8**	**8,036**	**63**	**18**	**31**
***K7RI**	**A**	**1,286,946**	**1364**	**111**	**231**
***WA8RJY /7**	"	**257,625**	**419**	**83**	**142**
*KC7UO	"	208,012	330	81	157
*WW7Q	"	205,741	269	90	193
*WS7O	"	167,000	316	75	125
*KG7RZ	"	150,528	311	62	106
*WJ7R	"	126,616	444	52	46
*KC7DB	"	117,312	234	72	120
*K7JXC	"	104,610	235	68	97
*N7CSH	"	93,375	277	43	82
*N7LYP	"	84,056	194	64	94
*KF7RU	"	81,925	213	57	88
*WS7V	"	75,656	284	28	70
*AA5CV	"	37,878	321	45	73
*AA7DO	"	32,775	109	45	70
*KB7M	"	30,303	106	46	65
*W7IIT	"	30,171	113	37	52
*N5MCC /7	"	24,605	112	40	55
*W7VIH	"	11,328	76	23	36
***KC7V**	**28**	**31,968**	**127**	**29**	**67**
*N7LOX	"	23,664	142	24	44
*K7WA	"	2,080	36	8	12
*N7NIJ	"	1,377	20	10	17
***N7RO**	**21**	**119,952**	**386**	**32**	**80**
*K6HNZ	"	52,154	225	24	65
***W6YVK**	**7**	**2,392**	**40**	**10**	**16**
***N7RM**	**3.8**	**1,265**	**27**	**11**	**12**
K3ZJ/8	**A**	**1,617,984**	**1284**	**122**	**355**
AA8AV	"	**552,330**	**616**	**103**	**258**
K8OQL	"	440,572	508	96	245
WD8EOL	"	407,160	496	86	224
KC8KE	"	262,505	395	77	178
K8CV	"	235,187	358	74	177
N8HIT	"	229,024	316	79	193
K8TMK	"	214,396	322	76	169
WA8SAE	"	168,705	305	63	144
WG8B	"	161,280	264	74	166
KU8U	"	155,456	257	65	159
K8BCK	"	121,086	558	68	149
WB8GXB	"	94,500	202	59	116
WA8RSA	"	88,872	210	55	113
WJ8E	"	63,081	149	51	112
WD8AHK	"	52,796	164	45	89
K8NI	"	26,730	107	32	67
KI8I	"	21,473	75	42	67
KB8MWL /AG	"	9,135	113	27	36
WB8YTQ	"	9,128	75	28	28
K4ZLE	"	1,196	22	9	17
N8MSF	**28**	**194,461**	**584**	**32**	**107**
KB8JM	"	120,555	348	30	111
KA8VPL	"	3,166	97	16	52
KW8N	**21**	**548,973**	**1093**	**37**	**144**
WA8DXB	"	275,652	569	34	137
N8EXS	"	74,836	258	23	83
W8TWA	**14**	**185,440**	**444**	**37**	**123**
W8ILC	"	103,512	256	34	110
K7EG	**3.8**	**80,497**	**467**	**25**	**76**
				(Opr. NZ4K)	
WØCD/8	"	**37,037**	**171**	**24**	**67**
				(Opr. W8UVZ)	
***KF8HR**	**A**	**254,518**	**391**	**73**	**180**
*N8FEH	"	249,061	372	76	187
*KA8ZNZ	"	223,776	378	65	159
*W8UPH	"	207,792	367	62	154
*AA8FF	"	189,810	350	66	156
*WG8M	"	183,556	322	65	153
*KF8K	"	181,641	344	55	136
*N8FU	"	167,835	400	55	146
*KA8WAS	"	167,480	307	65	147
*AF8C	"	120,625	250	59	134
*KF8IF	"	118,932	235	68	136
*W8YGR	"	81,915	174	68	147
*W8MKO	"	65,416	169	47	101
*W8IDM	"	40,260	130	42	80
*WA8MEM	"	23,346	104	34	60
***KV8S**	**28**	**40,643**	**156**	**25**	**72**
*KE8NH	"	35,346	167	25	61
*KB2MVF /8	"	14,528	93	21	43
*KB8GLB	"	10,200	73	20	40
*KA8WQL	"	7,802	76	20	27
*K8LA	"	5,371	56	14	27
*N8NYZ	"	5,085	43	16	29
***WD8NFX**	**21**	**22,190**	**124**	**20**	**50**
***W8SQRV**	**14**	**28,428**	**106**	**28**	**64**
W9RE	**A**	**2,758,161**	**1647**	**144**	**465**
WO9Z	"	**755,436**	**736**	**106**	**282**
<K9L	"	715,827	738	104	279
<D9ST	"	598,577	647	104	263
WA9TPQ	"	468,981	579	90	231
<B0C	"	468,484	572	105	241
<E9I	"	387,481	372	116	275
WI9C	"	350,385	429	103	226
<D9HT	"	312,754	400	86	213
W9BCV	"	249,340	357	84	176
WD9CIR	"	241,408	360	32	174
AJ9C	"	228,921	411	79	152
KW9E	"	141,966	247	85	154
W9NA	"	124,800	244	61	131
KA9JOL	"	121,746	219	77	129
W9IL	"	119,786	250	66	136
WE3A	"	116,352	245	64	128
KB9GCE	"	81,726	224	48	111
W9CA	"	61,712	160	49	103
WR9R	"	55,806	152	50	92
WU9D	"	44,516	141	43	81
WB9CXY	"	43,200	188	22	68
N9RO	"	31,816	137	35	62
WD9BJN	"	25,856	103	41	60
N9GTL	"	23,625	96	40	65
W9LYN	"	13,348	76	28	43
WA9CCQ	"	10,138	80	30	44
NØLYK	"	9,443	108	30	41
W9RN	"	8,791	66	25	34
WX9U	**28**	**252,570**	**633**	**32**	**123**
K9UWA	"	230,330	560	34	121
K9HMB	"	84,645	229	34	101
WB9Z	**21**	**541,818**	**1105**	**37**	**149**
KK9A	"	443,220	880	36	142
K9BGI	"	244,745	567	33	122
W9GIL	"	151,263	363	31	116
KA6A/9	"	102,676	293	30	103
K9CAN	**14**	**175,380**	**401**	**36**	**122**
K9YNF	"	46,512	166	26	76
W9TA	"	16,644	82	25	51
WD9FEN	"	13,332	78	24	42
K9MDO	**7**	**12,348**	**78**	**20**	**43**
***W9IQI**	**A**	**367,983**	**469**	**88**	**209**
*K9QVB	"	317,376	420	85	203
*NG9L	"	277,794	421	70	183
*AA9AK	"	237,968	340	90	188
*KB9BUM	"	172,438	304	62	156
*W9WI/4	"	78,793	223	44	99
*K9IKP	"	66,680	355	65	141
*W9TNZ	"	31,710	122	35	70
*WA9DYR	"	30,690	114	37	73
*NO9M	"	21,056	84	36	58
*KA9HDN	"	18,216	84	32	56
*W39LRK	"	13,300	76	28	42
*K9EMG	"	5,460	36	27	33
***W9HLY**	**28**	**77,990**	**276**	**33**	**77**
*KB9BIB	"	75,221	374	29	78
*KB9ABI	"	69,215	300	29	80
*AC4HI/9	"	67,100	259	27	73
*KA9MRU	"	24,104	100	30	62
*N9IHW	"	11,607	97	18	35
*KB9CJJ	"	2,484	32	15	21
*WA9NJB	"	1,104	20	9	14
***KR9G**	**1.8**	**390**	**17**	**5**	**10**
WØEJ	**A**	**942,704**	**837**	**118**	**325**
WCØY	"	**730,476**	**701**	**121**	**273**
WAØPUJ	"	643,163	657	114	265
KØØZFX	"	472,140	736	93	212
KMØL	"	417,360	554	88	208
NKØN	"	295,792	426	77	189
WJØI	"	295,390	431	83	188
AAØFB	"	272,529	425	83	200
KØBQL	"	248,196	372	84	174
KKØL	"	225,840	398	78	162
KEØRO	"	220,533	395	71	148
KØGT	"	215,622	294	105	192
WBØISW	"	176,640	290	81	159
WØYA	"	104,286	228	55	127
NØGUS	"	95,528	238	59	97
NNØM	"	89,265	215	56	109
AAØCY	"	87,720	215	64	106
WØPPF	"	83,316	210	55	109
WA2HFI/Ø	"	77,280	195	61	107
WDØBWM	"	75,205	177	58	111
WAØOCB	"	40,536	148	47	82
NØKZO	"	46,398	160	50	76
KMØR	"	46,374	177	44	74
KØHB	"	40,548	129	47	77
NØUGE	"	38,016	129	45	82
AJØE	"	22,077	91	33	66
WDØHVA	"	12,804	83	24	42
NWØF	"	10,500	63	23	42
AAØAI	"	10,290	57	15	25
WWØQ	"	5,972	49	23	32
WYØZ	"	1,305	26	14	15
WØUN	**28**	**450,282**	**1100**	**33**	**118**
				(Opr. KØGU)	
AAØCR	"	181,536	644	33	91
KCØUH	"	124,968	372	30	92
KØJN	"	30,090	132	25	60
KCØD	**21**	**423,598**	**1068**	**34**	**124**
KCØAL	"	330,480	797	34	128
WV9Q/Ø	**14**	**153,349**	**462**	**36**	**97**
KØOD	"	**135,736**	**327**	**36**	**116**
KVØQ	**7**	**194,327**	**568**	**31**	**88**
KD9Q/Ø	"	36,864	145	23	68
KCØLX	"	4,816	50	14	29
KMØJ	**3.8**	**17,920**	**128**	**20**	**50**
				(Opr. K6UKX)	
***KX5Z/Ø**	**A**	**642,898**	**868**	**114**	**252**
*ACØW	"	236,750	374	77	173
*NSØW	"	186,042	345	68	134
*W3GRW /Ø	"	182,744	334	75	137
*WBØIEL	"	126,524	255	69	119
*WØIZV	"	17,575	76	38	57
*NØHBH	"	14,960	115	32	48
*WBØB	"	4,455	31	18	27
***WØLSD**	**28**	**161,868**	**474**	**30**	**93**
*WBØGFV	"	27,720	143	24	53
*KAØYZH	"	17,950	165	19	31
*NØOST	"	10,340	102	20	35
*KG73Ø/Ø	"	3,570	40	16	19
*WBØYWO	3.8	160	10	5	5

ALASKA

NL7T3	28	9,728	111	19	19
NL7KJ	**14**	**96,184**	**379**	**27**	**61**
***KL7FAF**	**28**	**42,226**	**440**	**19**	**24**
*AL7MK	21	9,744	150	11	17
*AL7EN	"	7,056	127	12	12
*NL7HT	14	17,215	116	19	36

ANGUILLA

***VP2EE**	**21**	**189,288**	**833**	**28**	**71**

ANTIGUA

V29W	**A**	**9,196,488**	**6704**	**130**	**438**
			(Opr. KD6WW)		

BAHAMAS ISLANDS

C6AFT	**21**	**249,075**	**1498**	**22**	**59**
			(Opr. AA5NT)		

CANADA

VO1MP	**A**	**1,867,533**	**1642**	**104**	**363**
VO1SA	**28**	**1,381,913**	**3801**	**34**	**135**
VO1QF	**21**	**1,207,024**	**2794**	**35**	**147**
***VO1TX**	**A**	**368,350**	**1359**	**37**	**102**
***VO1SF**	**21**	**123,039**	**720**	**19**	**62**
***VO2AA**	**28**	**298,056**	**1641**	**19**	**69**
VE1ZZ	**1.8**	**12,948**	**110**	**14**	**38**
VE2MRP	**A**	**398,268**	**560**	**59**	**153**
VE2WAT	"	17,712	100	27	55
VE2ZP	**28**	**351,016**	**1154**	**30**	**106**
VE2BMC	"	33,939	174	22	59
VE2AYU	**21**	**269,340**	**834**	**29**	**105**
VE2DVI	"	140,301	421	29	102
***VE2NAM**	**A**	**67,155**	**254**	**38**	**83**
*VE2IUW	"	66,410	174	53	92
*VE2XL	"	48,614	205	29	80
***VE2EW**	**21**	**22,890**	**124**	**14**	**56**
VE3AT	**A**	**1,168,090**	**1235**	**89**	**261**
VE3ZO	"	481,656	764	84	198
VE3DUS	"	238,210	333	85	202
VE3CWF	"	207,144	394	61	155
VE3WSM	"	89,776	362	47	77
VE3DDM	"	63,308	250	41	78
VE3OMU	"	12,075	74	27	42
VE3FWQ	**28**	**248,724**	**886**	**31**	**95**
VE3PN	"	201,072	725	28	90
VE3OTL	"	120,540	703	23	59
VE3HK	"	27,040	138	23	57
VE3EFP	"	17,450	166	23	43
VE3VN	**3.8**	**102,305**	**653**	**21**	**58**
			(Opr. VO2AC)		
VE3DD	**1.8**	**6,456**	**139**	**8**	**16**
***VE3RM**	**A**	**905,000**	**1037**	**95**	**267**
*VE3EZU	"	119,228	317	55	109
*VE3TA	"	95,940	228	61	119
*VE3AIG	"	59,660	201	35	92
*VE3YBH	"	56,742	214	43	104
*VE3ECH	"	47,792	200	39	64
*VE3TPB	"	43,660	147	40	72
*VE3MKJ	"	34,170	155	37	65
*VE3EKP	"	19,764	119	34	47
*VE3TJL	"	12,802	87	27	47
***VE3WDJ**	**28**	**23,115**	**149**	**21**	**48**
*VE3WOR	21	3,075	57	8	17
***VE3CXK**	**3.8**	**3,444**	**61**	**12**	**16**
*VE3JRL	"	611	30	5	8
XN4VV	**A**	**1,679,954**	**2956**	**84**	**194**
VE4RP	"	109,242	397	43	76
VE5ACP	**A**	**488,829**	**1337**	**55**	**129**
VE5AAD	28	7,560	555	4	3
***VE5SF**	**A**	**427,518**	**1172**	**64**	**110**
VE6BMX	**A**	**652,310**	**1419**	**74**	**141**
VE6LB	"	12,200	390	49	83
VE6DZ	"	47,488	189	43	63
VE6NAO	**14**	**20,634**	**166**	**20**	**37**
VE7KD	**A**	**690,277**	**1758**	**73**	**117**
VE7BEH	"	217,556	658	58	79
VE7XO	"	50,573	334	59	100
VE7NKI	**28**	**196,370**	**1291**	**23**	**50**
VE7SV	**21**	**744,906**	**2278**	**35**	**99**
VE7E K	"	507,000	1678	33	92
VE7FIE	**7**	**69,552**	**556**	**22**	**41**
***VE7ZAC**	**A**	**95,658**	**445**	**49**	**58**
*VE7CFA	"	35,405	144	42	55

CAYMAN ISLANDS

ZF2ND	**28**	**47,850**	**374**	**20**	**38**
ZF2JR	**7**	**630,496**	**1977**	**31**	**105**

COSTA RICA

TI2MEN	**A**	**2,656,455**	**2873**	**115**	**294**
TI4CF	**28**	**1,769,232**	**4532**	**35**	**139**
***TI4SU**	**21**	**52,256**	**235**	**26**	**66**

CUBA

*CM8DC	A	13,703	154	27	44

DOMINICAN REPUBLIC

HI8A	**A**	**4,136,349**	**4443**	**120**	**307**
			(Opr. JA5DQH)		
HI3AMF	"	317,086	1057	52	92
***HI3LFE**	**14**	**60,787**	**305**	**24**	**65**

GREENLAND

OX3ZM	7	6,760	64	11	29

GUADELOUPE

FG8Y	**7**	**531,375**	**1683**	**24**	**101**
			(Opr. F2YT)		

GUANTANAMO BAY

KG4QQ	**A**	**5,168,543**	**5942**	**96**	**301**

GUATEMALA

***TG9AJR**	**28**	**241,700**	**1126**	**28**	**72**

JAMAICA

6Y5X	**A**	**1,795,640**	**3097**	**86**	**194**
			(Opr. KN5X)		

MARTINIQUE

FM6A	**21**	**1,934,659**	**4535**	**36**	**137**
			(Opr. F6HMQ)		

MEXICO

XE2BEU	**A**	**1,368,828**	**2123**	**103**	**179**
6D2DX	"	273,000	1248	48	56
XE2EJ	"	167,808	559	53	85
XE3EB	**3.8**	**92,750**	**646**	**16**	**54**
***XE1AVM**	**21**	**30,756**	**202**	**21**	**45**

PANAMA

***HP8ADU**	**A**	**127,512**	**405**	**62**	**99**
***AC4IG /HP1**	**28**	**295,715**	**1979**	**24**	**47**

PUERTO RICO

***W8HNI /KP4**	**A**	**712,368**	**1652**	**70**	**134**

SALVADOR

YS1GMV	**A**	**575,872**	**1532**	**61**	**115**
YS1OD	**28**	**44,933**	**430**	**18**	**31**

ST. KITTS AND NEVIS

V47KP	**A**	**3,659,955**	**8775**	**107**	**312**
V47NS	"	**2,997,290**	**3245**	**96**	**290**
***V47TV**	**28**	**857,934**	**3284**	**31**	**95**
			(Opr. OH3VV)		

SINT MAARTEN

PJ8CW	**A**	**274,430**	**989**	**41**	**89**

ST. VINCENT

J82A	**A**	**7,037,844**	**5933**	**126**	**398**
			(Opr. K3IPK)		

U.S. VIRGIN ISLANDS

KP2A	**A**	**7,609,190**	**5912**	**135**	**419**
			(Opr. CT1BDH)		
NP2A	"	110,850	720	34	47
***NP2Q**	**A**	**78,492**	**332**	**51**	**73**

AFRICA

ASCENSION ISLAND

ZD8Z	**28**	**2,341,866**	**4521**	**33**	**141**
			(Opr. N6TJ)		

BENIN

*TY1DX	28	432	16	3	6

BURKINO FASO

***XT2BW**	**A**	**625,456**	**1090**	**62**	**132**

CANARY ISLANDS

OH1RY /EA8	**A**	**8,726,500**	**5424**	**135**	**428**
EA8DM	"	1,539,054	1734	75	222
EA8AD	"	799,240	1262	73	134
EA8LS	**21**	**601,678**	**1350**	**38**	**116**
***EA8BVH**	**A**	**1,230,876**	**1580**	**74**	**188**
*EA8BGY	"	204,388	464	53	95
*EA8BGX	"	4,743	33	19	33
*EA8BYL	"	989	15	8	15
***EA8BDW**	**28**	**381,990**	**1271**	**29**	**73**
*EA8IN	"	307,440	1058	27	69
*EA8AKN	"	202,752	1026	22	44
***EA8BVR**	**21**	**87,290**	**351**	**21**	**65**

CENTRAL AFRICAN REPUBLIC

***TL8JL**	**A**	**130,011**	**301**	**49**	**102**

DIEGO GARCIA

***VQ9RB**	**A**	**56,016**	**130**	**56**	**88**

CHAD

TT8A	**A**	**2,604,393**	**2971**	**73**	**224**
			(Opr. TT8SA)		

CUETA AND MELILLA

EA9RY	**28**	**99,654**	**654**	**17**	**34**
***EA9TL**	**A**	**52,300**	**177**	**33**	**67**
*EA9IB	"	16,450	77	23	47

KENYA

5Z4BI	**A**	**4,640,388**	**4010**	**100**	**291**
5Z4BJ	"	262,080	543	54	114
5Z4DU	**21**	**1,111,175**	**2198**	**39**	**176**

MADIERAS ISLANDS

CR3A	**A**	**12,974,910**	**6571**	**152**	**511**
			(Opr. OH2MM)		
CT3M	**21**	**1,855,722**	**3351**	**37**	**125**
			(Opr. CT3BX)		

MOROCCO

***CN8NS**	**A**	**907,616**	**1218**	**68**	**183**

NIGERIA

***5N0RJM**	**14**	**127,335**	**652**	**17**	**48**

NIGER

5U7M	**A**	**2,046,928**	**2046**	**84**	**254**

REUNION ISLAND

FR5DX	**28**	**1,782,066**	**3237**	**38**	**148**

REPUBLIC OF SOUTH AFRICA

ZS5NK	**A**	**564,960**	**1079**	**61**	**115**
ZS6AXF	"	397,488	690	56	140
ZS6HO	"	165,584	429	35	96
ZS6WPX	**28**	**1,464,460**	**2672**	**38**	**147**
ZS6BRZ	**28**	**1,020,048**	**2152**	**33**	**125**

SENEGAL

6W7S	**A**	**6,444,436**	**4307**	**122**	**381**
			(Opr. YU5AD)		
YU5AU /6W7	**21**	**79,283**	**545**	**15**	**39**

SIERRA LEONE

9L1US	**A**	**9,263,688**	**5812**	**133**	**403**
9L1S	"	5,717,601	3646	125	378
			(Opr. DJ6QT)		

TOGO

5V7JG	**A**	**1,365,236**	**1595**	**80**	**209**

ZIMBABWE

Z21HS	**A**	**1,017,120**	**1111**	**90**	**222**
***Z21HQ**	**28**	**1,118,611**	**2228**	**35**	**134**
				(Opr. DF2RQ)	
***Z21BL**	"	**844,074**	**1934**	**37**	**110**

ASIA

BRITISH CYPRUS

***ZC4BS**	**A**	**5,244,877**	**3895**	**111**	**356**
***ZC4CZ**	**28**	**127,270**	**358**	**31**	**99**

CYPRUS

5B4YX	**21**	**440,310**	**1209**	**29**	**101**

INDIA

***VU2BIX**	**21**	**424,074**	**1161**	**36**	**102**
***VU2PTT**	**14**	**272,251**	**921**	**34**	**99**

ISRAEL

***4X4VF**	**28**	**14,454**	**125**	**24**	**42**

JAPAN

JJ1NNJ	**A**	**1,134,580**	**1158**	**117**	**238**
JR1GSE	"	745,937	1023	99	170
JR1JCB	"	90,374	241	58	88
JA1BNW	"	49,126	120	52	92
JA1RKI	"	20,060	104	38	47
JL1DRX	"	19,272	127	17	49
JR1GGB	"	8,897	75	20	21
JL1UMX	"	7,592	60	21	31
JL1BLW	**28**	**606,240**	**1469**	**37**	**107**
JR1IJV	"	403,512	1100	34	95

JA1VVH	"	63,632	251	29	68
7L1GVE	**21**	**1,210,140**	**2365**	**39**	**141**
JA1KVT	"	212,979	605	33	94
JA1BFN	"	288	18	8	8
JA1DXR	**14**	**512,139**	**1144**	**37**	**122**
JE1GZE	"	14,465	99	21	34
JK1AFI	7	10,196	83	19	33
***JF1SEK**	**A**	**1,966,968**	**1707**	**124**	**284**
***7K1BWM /1**	"	**673,680**	**1020**	**77**	**158**
*JQ1TAR	"	295,728	548	74	128
*JK1VCY	"	245,686	460	89	129
*JL1MWI	"	235,500	550	53	104
*JA0BMS /1	"	186,470	453	54	91
*JA1WYQ	"	185,861	317	87	134
*JA1BLI	"	172,956	379	63	111
*JP1SRG	"	157,569	3650	57	102
*JS1OYN	"	138,400	342	65	95
*JK1LSE	"	102,512	244	64	108
*JI1VJC	"	87,348	198	73	101
*JP1AEG	"	64,134	197	54	72
*JR1MHG	"	64,042	199	60	82
*JA1PJL	"	63,662	206	53	86
*JQ1NCT	"	57,946	395	60	81
*JA1WYQ /1	"	53,190	131	57	86
*JA2FNY /1	"	45,313	164	44	69
*JA0NQD /1	"	32,032	113	48	64
*JA1MZP	"	13,512	80	28	46
*JA0XQO /1	"	11,448	65	35	37
*JA1POS	"	9,840	56	32	50
*JH1RMH	"	9,240	64	22	33
*JG1RDV	"	6,688	80	34	46
*JJ1NLI	"	3,045	33	17	18
***JG1KBI**	**28**	**95,200**	**353**	**30**	**70**
*7L1JHN	"	82,344	313	29	65
*JA1EMQ	"	51,350	239	27	52
*JA1AUD	"	39,818	169	30	56
*JA1AAT	"	19,440	93	26	55
*JA1FC	"	15,240	98	19	41
*JH1CML	"	11,700	267	32	60
*JA1FJD	"	9,900	73	20	30
*JG1TVK	"	9,576	63	23	33
*JH1BDS	"	5,699	52	16	23
*JH1NXU	"	1,554	28	10	11
*JA1IVW	"	1,196	18	11	15
*7L1ICV	"	350	11	7	7
*JG1SVO	"	242	8	5	6
***JN1VOC**	**21**	**174,342**	**641**	**30**	**68**
*JA1DCO	"	114,684	353	34	80
*JE1BCC	"	76,712	319	29	57
*JI1TWZ	"	76,277	350	27	56
*JA1JCD	"	39,887	198	25	52
*JK1OXJ	"	25,194	119	29	49
*JS1MRM	"	14,688	113	21	33
*JR1ULW	"	6,396	68	12	29
*7J1RLL	"	2,805	43	12	23
*7L1RLL	"	2,805	43	13	20
*JA1CZO	"	1,474	27	7	15
*7L1ILE	"	1,472	32	10	13
*JQ1FSA	"	1,440	24	9	11
*JR1GWE	"	135	11	4	5
***7M1MCT**	**14**	**24,928**	**121**	**30**	**52**
*JP1RMK	"	7,540	59	19	33
*JA1IT	"	5,586	50	13	28
*7N1DTN	"	966	24	10	11
***JA1LZR**	**7**	**21,488**	**148**	**27**	**55**
JA2NOO	**A**	**59,898**	**153**	**60**	**89**
JG2REJ	"	5,593	51	20	27
JI2CYK	"	4,992	51	16	30
JA2AYC	"	940	19	10	10
JH2MYN	**28**	**185,334**	**632**	**32**	**70**
JA2BNN	**21**	**266,340**	**833**	**35**	**80**
JA2BIV	**14**	**104,832**	**329**	**32**	**80**
JH2BCN	"	68,670	248	31	74
JK2HDC	"	6,050	52	21	29
JA2BAY	**7**	**210,276**	**628**	**32**	**86**
JE2URF	"	2,604	28	17	25
JA2IVK	**3.8**	**10,176**	**100**	**18**	**30**
JH2HFD	"	7,636	76	17	29
***JA2AXB**	**A**	**551,232**	**748**	**91**	**173**
*JA2OJ	"	123,084	291	51	105
*JA2ESR	"	102,277	274	50	83
*JH2WHS	"	84,709	261	48	79
*JA2DN	"	68,600	190	47	93
*JA2BEY	"	45,719	143	55	76
*JI2MWH	"	12,320	80	37	39
*JN2AMD	"	3,360	36	15	25
*JF2LTH	"	368	12	9	7
*JA7GHP	"	351	9	6	7
***JE2IFM**	**28**	**123,200**	**408**	**33**	**79**
*JH2JNU	"	11,408	95	17	30
*7N1HFK /2	"	10,366	56	26	47
*JF2KUU	"	6,765	85	16	17
*JH2XTV	"	2,211	25	16	17
***JA2QQC**	**21**	**83,712**	**313**	**30**	**66**
*JR2IGV	"	30,464	184	24	44
*JA2ONH	"	14,064	102	21	27
*JF2PXB	"	8,820	79	21	28
*JE2DWR	"	2,790	38	14	17
*JA2I7A	"	2,160	30	14	16
*JM2BHI	"	1,127	21	10	13
*JG2QWG	"	768	32	4	4
***JE2UFF**	**14**	**121,155**	**364**	**34**	**89**
*JA2NNF	"	89,948	303	32	81
JG3KIV	**A**	**85,100**	**208**	**56**	**100**
JA3FTD	28	17,420	98	23	42
JR3RIY	**21**	**90,783**	**327**	**32**	**67**
JA3UWB	"	67,050	282	28	62
JA3FZI	"	11,880	100	19	25
JE3BMU	"	6,862	71	14	33
JA3SSW	**7**	**25,949**	**142**	**25**	**52**
***JA3HPD**	**A**	**80,784**	**212**	**59**	**85**
*JA3JOT	"	48,412	190	38	60
*JH3AKC	"	14,475	93	26	42
*JA3CLI	"	8,840	62	22	30
*JA3IVU	"	8,190	46	28	35
***JA3XOG**	**28**	**230,822**	**633**	**34**	**97**
*JA3LDH	"	79,249	298	26	71
*JA3CE	"	20,458	71	35	71
*JK3UTH	"	984	31	11	13
***JN3WYD**	**21**	**78,764**	**310**	**28**	**69**
*JS3CYA	"	16,492	110	22	36
*JA3TBT	"	5,421	97	24	45
*JR3KAH	"	1,740	28	11	18
*JA3MXP	"	1,073	21	10	12
JE4VVM	**A**	**2,495,983**	**2181**	**124**	**295**
JA4AQR	**28**	**38,612**	**146**	**38**	**60**
JA4JJI	21	1,760	30	9	13
JG4AKL	**14**	**497,670**	**1084**	**38**	**121**
JA4PA	"	153,860	77	24	36
***JA4BAA**	**A**	**44,340**	**149**	**47**	**83**
*JA4AQA	"	19,872	80	36	56
*JA4DHN	"	10,089	68	24	35
***JH4XKW**	**28**	**162,206**	**582**	**30**	**71**
JA4ETH	"	44,334	202	26	56
***JA4OPW**	**21**	**63,954**	**236**	**30**	**72**
*JR4ISK	"	228	7	6	6
*JA4CUU	14	2,736	32	16	22
JH5FXP	**A**	**1,830,630**	**1454**	**135**	**304**
JE5MCV	"	1,186,380	1268	105	233
JA5IP	"	171,292	354	72	115
JA5EXW	**28**	**641,235**	**1466**	**36**	**119**
JF5OVU	21	3,910	47	15	19
JA5APU	**14**	**64,860**	**260**	**29**	**63**
JA5AF	"	1,248	21	11	15
***JH5CZY**	**A**	**45,760**	**182**	**45**	**65**
*JA5EC	"	43,710	186	38	55
*JH5FAH	28	1,254	26	9	10
***JR5HCU**	**21**	**118,320**	**383**	**35**	**81**
*JH4OQF /5	"	2,700	32	13	17
JA6WW	A	9,570	53	22	36
JI6JTH	21	16,874	114	21	38
JM5EBU	"	2,937	37	12	21
***JA6CM**	**A**	**123,975**	**278**	**56**	**115**
*JA6AKV	"	40,112	140	41	68
*JA6UVY	"	36,771	136	51	52
*JJ6CQW	"	17,290	97	26	44
***JA6ODU**	**28**	**22,685**	**127**	**23**	**42**
*JI6NFX	21	1,104	21	7	17
*JM6DYM	"	656	15	7	9
*JG6VBG	"	6	1	1	1
***JJ6DGP**	**7**	**7,889**	**65**	**20**	**29**
*JL6IPK	"	160	8	4	5
JH7DNO	**28**	**348,601**	**1007**	**34**	**87**
JA7BEW	**21**	**312,064**	**883**	**34**	**94**
JH7KTI	"	45,135	196	28	57
JH7XGN	**14**	**325,431**	**745**	**38**	**115**
JH7QXJ	"	168,363	520	31	86
***JH7ZAO**	**A**	**578,200**	**770**	**99**	**196**
			(Opr. JH4OWG)		
*JR7LOL	"	133,041	285	71	112
*JA7ASO	"	25,608	99	35	53
*JA7AMK	"	17,940	109	30	30
***JA7MSQ**	**28**	**87,168**	**330**	**32**	**64**
*JA7CPW	"	27,918	165	23	43
*JR7LVK	"	17,342	117	23	55
*JA7FNV	"	9,504	87	18	26
*JA7AXP	"	3,570	38	15	20
*JA7ARW	"	2,613	26	14	19
***JH7LGJ**	**21**	**245,369**	**719**	**32**	**91**
*JA7ZWD	"	175,835	580	33	82
*JA7CQT	"	99,085	368	30	71
***JA7JH**	**14**	**67,536**	**183**	**37**	**97**
*JI7OED	"	12,160	73	24	40
*JJ7XAY	3.8	234	11	6	7
JA8HBO	**A**	**40,341**	**149**	**50**	**69**
JA8GYQ	**21**	**909,880**	**1829**	**38**	**134**
JA8IXM	**7**	**264,960**	**747**	**37**	**101**
JA8NFV	**3.8**	**17,187**	**142**	**20**	**31**
***JH8CLU**	**28**	**298,186**	**839**	**35**	**98**
*JO1DFG /8	"	142,974	456	32	85
*JA8RJE	"	99,322	355	32	74
*JH8UIO	"	33,200	154	25	55
***JH8DHV**	**21**	**73,372**	**337**	**27**	**56**
***JH8JBX**	**14**	**38,984**	**156**	**30**	**58**
JA9KKD	**A**	**216,256**	**383**	**77**	**141**
JA9CCG	**21**	**106,536**	**402**	**29**	**63**
***JA9YAV**	**A**	**551,244**	**630**	**101**	**183**
			(Opr. JA9-3817)		
*JA9GHC	"	30,797	113	42	61
*JA9XAT	28	560	15	8	8
***JH9KVF**	**21**	**114,450**	**387**	**31**	**78**
*JA9IKL	"	2,496	40	14	18
*JH9CAV	7	1,428	41	11	13
JA9DMV	**A**	**94,430**	**196**	**75**	**115**
JA9GZ	"	135	7	3	6
JA9JHA	**21**	**1,109,867**	**2348**	**38**	**125**
JH9ZHQ	"	230,265	785	32	73
			(Opr. JH1SBE)		
JA9HYU	"	15,562	105	24	38
JA9AD	**14**	**24,308**	**165**	**17**	**42**
***JH9DNX**	**A**	**297,450**	**494**	**86**	**139**
*JA9OVG	"	226,820	405	83	137
*JA9VHI	"	195,162	419	64	113
*JA9YEV	"	70,500	206	59	81
*JE9EHE	"	15,048	82	29	37
*JH9OFQ	"	1,846	27	13	13
*JE9VSW	"	1,624	22	13	15
***JH9ZHQ**	**28**	**287,640**	**848**	**34**	**86**
*JE9UXR	"	162,936	488	33	91
*JR9BQT	"	70,035	300	28	59
*JE9BTL	"	16,677	124	21	30
*JH9BLI	"	9,333	71	19	32
***JI7DUD /8**	**21**	**153,510**	**449**	**34**	**95**
*JF9RAK	"	27,403	158	24	43
*JA9CJK	"	4,556	62	15	19
***JH9OBD**	**14**	**140,239**	**427**	**35**	**86**

KOREA

***HL5AP**	**A**	**54,625**	**169**	**63**	**62**

LEBANON

***OD5PL**	**28**	**30,144**	**304**	**23**	**41**

MALAYSIA

***VK2DXI /9M2**	**A**	**88,060**	**224**	**52**	**96**

MONGOLIA

JT7AA	**A**	**197,052**	**684**	**33**	**80**
*JT1BT	28	4,885	146	7	20

PAKISTAN

AP2SQ	**21**	**1,379,220**	**2829**	**40**	**141**
			(Opr. K2XR)		

TAIWAN

K1RX/BV	**A**	**3,437,385**	**4103**	**117**	**282**
***BV2AR**	**28**	**68,406**	**576**	**27**	**51**
***JP1RIW /BV**	**21**	**54,656**	**744**	**20**	**41**

THAILAND

HS0E	**A**	**2,328,726**	**2200**	**112**	**299**
*HS1ZEB	21	194,633	773	30	77

USSR

ARMENIA

UG6LQ	**28**	**473,200**	**1348**	**31**	**99**
***4J4GK**	**A**	**126,720**	**540**	**23**	**65**
***4J4JJ**	**28**	**116,100**	**535**	**21**	**54**
*UI6GGAM	"	39,248	307	9	35

ASIATIC RUSSIA

UA9MA	**A**	**1,891,892**	**1835**	**104**	**188**
RA9STK	**28**	**104,751**	**392**	**28**	**75**
UA9TT	**21**	**288,420**	**933**	**33**	**99**
UW9CD	"	278,664	917	35	101
UA9LAC	**14**	**220,500**	**588**	**35**	**90**
RA9FF	**7**	**8,772**	**81**	**10**	**33**
***UA9CUA**	**A**	**87,814**	**209**	**46**	**120**
***UW9CL**	**28**	**38,796**	**153**	**28**	**78**
***UA9SCX**	**21**	**65,321**	**313**	**19**	**64**
***RV9WG**	**1.8**	**4,784**	**90**	**6**	**17**
UA0FZ	**28**	**154,812**	**542**	**32**	**82**
RA0FA	"	132,715	588	27	68
RA0FU	**7**	**74,820**	**760**	**25**	**35**
UA0WY	"	43,120	369	13	43
UA0SR	"	3,762	51	12	26
***UW0ST**	**A**	**219,570**	**607**	**66**	**129**
*JA0JHX	"	19,398	238	24	37
***UA0IBX**	**21**	**75,240**	**801**	**26**	**40**

GEORGIA

UF6VX	**A**	**280,034**	**611**	**35**	**128**
UF6VM	**28**	**614,625**	**1503**	**33**	**116**
***UF6FHI**	**21**	**12,674**	**229**	**19**	**46**

KAZAKHISTAN

RL2O	**A**	**5,521,560**	**3959**	**131**	**403**
RL7AC	**3.8**	**27,816**	**186**	**11**	**46**
*UL7RDZ	28	7,880	90	15	25
***UL7OAG**	**21**	**150,080**	**513**	**28**	**84**
*UL7GS	"	68,159	316	26	65
***UL7RE**	**14**	**64,792**	**272**	**34**	**55**

KIRGHIZ

UM8DX	**14**	**305,250**	**1042**	**29**	**82**

TADZIK

UJ8XA	**21**	**25,322**	**129**	**25**	**57**
***UJ8SCH**	**28**	**197,796**	**780**	**26**	**80**

UZBEK

RI3B	**28**	**451,982**	**1401**	**33**	**101**
UI8ZAA	**3.8**	**40,000**	**250**	**15**	**49**
***UI8BDU**	**21**	**51,324**	**217**	**26**	**68**

EUROPE

AALAND ISLANDS

OH1MTT /OH0	**28**	**17,794**	**144**	**19**	**43**
OH0NJ	**21**	**175,700**	**505**	**36**	**104**

AUSTRIA

OE9AMJ	**A**	**524,808**	**821**	**69**	**227**
OE6WPD	"	57,348	184	49	114
OE3DSA	**28**	**120,332**	**405**	**30**	**104**
OE6WIG	"	71,928	287	28	83
***OE1BKA**	**A**	**41,114**	**176**	**37**	**85**
*OE6CLD	"	39,621	115	54	87
*OE4VQS	"	8,906	62	25	48
*OE4SSW	"	8,307	41	34	49
***OE6GND**	**14**	**22,420**	**155**	**20**	**56**

AZORES ISLANDS

CU1AF	**A**	**1,453,872**	**1749**	**88**	**248**
CU3LF	"	1,131,760	1398	80	264

BALEARIC ISLANDS

EA6FO	**21**	**599,454**	**1709**	**34**	**119**
***EA6ZZ**	**A**	**516,360**	**790**	**75**	**236**
***EA6AAX**	**14**	**267,910**	**1319**	**33**	**113**
*EA6JN	"	20,025	133	17	58
*EA6LB	"	19,008	264	14	52
*EA6EA	"	3,906	59	11	31

BELGIUM

***ON5EU**	**A**	**28,050**	**191**	**28**	**74**
*ON5CZ	"	12,654	122	27	47
***ON4AGA**	**28**	**77,085**	**260**	**23**	**82**
*ON4ZT	"	6,392	56	17	30
***ON4APU**	**21**	**67,200**	**285**	**24**	**81**
*ON4XG	"	54,897	282	22	65
*ON6CR	"	27,738	192	17	52
*ON6LQ	14	9,016	125	13	36

BULGARIA

LZ2VP	**A**	**280,397**	**540**	**63**	**138**
LZ1CW	"	44,722	167	41	77
LZ2KRU	**21**	**402,683**	**1473**	**39**	**100**
		(Opr. Hristo M. Iliev)			
LZ1BJ	"	132,840	459	27	93
LZ5W	**14**	**994,240**	**2299**	**39**	**169**
			(Opr. LZ3ZZ)		
LZ5G	"	453,131	1797	35	128
LZ6C	"	436,350	1675	33	117
LZ1OF	"	33,108	260	21	72
LZ3UP	"	17,264	204	16	36
LZ1SN	"	10,404	155	15	36
LZ5P	**7**	**79,385**	**516**	**24**	**77**
			(Opr. LZ3UP)		
***LZ2KBS**	**A**	**89,080**	**212**	**58**	**112**
*LZ1IA	"	10,842	58	28	50
***LZ1DM**	**3.8**	**47,872**	**608**	**9**	**59**

CORSICA

TK/I5VXG /P	**14**	**95,016**	**536**	**30**	**81**
***TK5MH**	**A**	**288,648**	**622**	**59**	**169**

CZECHOSLOVAKIA

OK1RI	**21**	**805,896**	**1761**	**38**	**144**
OK1AYP	"	274,334	813	33	113
OK1AYE	3.8	3,612	59	7	36
OK1JDX	**1.8**	**13,230**	**265**	**6**	**43**
***OK1KZ**	**A**	**244,755**	**675**	**52**	**183**
*OK1KT	"	40,612	127	52	90
*OK1AXB	"	34,560	179	38	97
*OK1DWU	"	33,579	130	39	78
*OK1DSZ	"	2,460	58	10	31
***OK1AES**	**28**	**84,102**	**306**	**30**	**77**
*OK1AXY	"	32,760	171	22	62
*OK1ARI	"	14,628	98	24	45
*OK1FSM	"	7,296	70	14	34
***OK1FHI**	**21**	**30,212**	**164**	**23**	**60**
***OK1KUZ**	**14**	**9,515**	**103**	**12**	**43**
			(Opr. OK1FLT)		
***OK1PFJ**	**7**	**13,780**	**108**	**20**	**65**
OK2ABU	**A**	**33,280**	**158**	**38**	**90**
***OK2TBC**	**A**	**343,095**	**615**	**70**	**187**
*OK2PDE	"	214,797	263	98	185
*OK2PSZ	"	123,018	418	44	159
*OK2SWD	"	38,885	194	32	69
*OK2PVC	"	33,579	159	38	85
*OK2BGR	"	31,369	129	41	86
*OK2KVI	"	12,992	97	24	40
*OK2PGT	14	2,808	40	10	29
***OK2HI**	**3.8**	**11,750**	**235**	**6**	**41**
OK3YCA	**A**	**160,505**	**410**	**60**	**175**
OK3CFA	**28**	**214,326**	**647**	**32**	**115**
***OK3IA**	**A**	**59,520**	**208**	**40**	**115**
*OK3CPA	"	9,170	77	22	48
***OK3CAP**	**28**	**43,747**	**184**	**24**	**73**
*OK3CRH	"	24,642	139	21	53
*OK3TEG	"	24,070	125	24	59
*OK3YEE	"	23,862	119	26	56
***OK3YK**	**14**	**81,852**	**427**	**29**	**85**
*OK3CNS	"	16,632	155	13	50
***OK3YCL**	**3.8**	**24,300**	**366**	**9**	**51**
***OK3IQ**	**1.8**	**15,660**	**250**	**8**	**50**

DENMARK

OZ5MJ	**A**	**80,136**	**261**	**47**	**142**
OZ2TH	"	36,675	127	52	111
OZ5EV	**28**	**51,030**	**205**	**27**	**78**
OZ1FTE	**7**	**125,424**	**556**	**28**	**106**
***OZ1LTB**	**A**	**96,237**	**276**	**48**	**105**
*OZ6PI	"	36,750	189	28	77
*OZ1ACB	"	29,593	137	37	64
*OZ7AX	"	19,470	136	28	82
*OZ5ABD	"	18,924	134	19	57
***OZ1INN**	**28**	**11,232**	**108**	**15**	**37**
***OZ3PE**	**14**	**40,392**	**275**	**21**	**67**
*OZ6ABL	"	29,488	182	26	71
*OZ1DYI	"	7,968	106	13	35
*OZ1EMO	"	1,250	40	7	18
***OZ2ACL**	**3.8**	**5,977**	**135**	**6**	**37**
***OZ3SK**	**1.8**	**19,198**	**318**	**8**	**50**

ENGLAND

G3LZQ	**A**	**1,111,205**	**1057**	**104**	**334**
G0HSD	"	979,011	1242	83	280
G0PWW	"	215,760	608	53	79
G0NKL	"	117,912	436	48	88
G0AEV	**28**	**143,606**	**529**	**26**	**92**
G3XSV/P	**21**	**172,270**	**636**	**26**	**81**
G3NLY	**7**	**393,908**	**1512**	**31**	**111**
G3XWZ	**1.8**	**1,272**	**35**	**2**	**22**
***G4XKR**	**A**	**516,975**	**713**	**83**	**256**
*G0KTN	"	108,750	298	49	125
*G5LP	"	89,775	292	49	140
*G6QQ	"	77,040	299	37	107
*G4NXG /M	"	65,940	255	41	116
*G3JKY	"	24,272	145	17	65
*G4PTE	"	6,978	50	22	38
***G3BDQ**	**1.8**	**2,128**	**54**	**5**	**33**

ESTONIA

ES1OX	**A**	**354,892**	**609**	**87**	**220**
ES6EA	28	10,335	95	16	37
ES5RY	**3.8**	**116,958**	**921**	**22**	**79**
***ES3RST**	**28**	**17,728**	**136**	**15**	**49**

FAROE ISLANDS

OY9JD	**A**	**1,245,136**	**1457**	**113**	**359**

FINLAND

OH8LQ	**A**	**1,814,540**	**2262**	**101**	**263**
OH3OJ	"	963,016	1427	96	292
OH1BV	"	583,947	705	79	220
OH5MMG	"	313,617	977	88	233
OH3JR	"	9,250	49	35	39
OH2VZ	"	3,738	57	17	25
OH1AA	**28**	**157,014**	**579**	**33**	**89**
OH5PA	"	18,360	115	20	48
OH1AU	**21**	**746,200**	**1672**	**39**	**125**
OH5TS	"	636,976	1443	39	125
OH6NIO	"	543,303	1320	37	116
OH7MQF	"	41,475	246	22	53
OH2BCD	"	33,984	217	20	39
OH5RZ	"	15,600	126	15	37
OG7AB	**14**	**518,154**	**1691**	**38**	**131**
			(Opr. OH7MA)		
OH2AQ	**7**	**219,312**	**1074**	**31**	**113**
			(Opr. OH1XM)		
OH6RM	**3.8**	**86,390**	**605**	**23**	**83**
			(Opr. OH2JA)		
OH7UE	"	28,712	301	15	59
***OH4TY**	**A**	**190,344**	**431**	**64**	**142**
*OH2LP	"	147,560	414	54	163
*OH7TO	"	130,139	404	55	126
*OH7NW	"	80,029	250	51	140
*OH6SU	"	73,920	220	51	103
*OH8NYC	"	57,125	125	34	91
*OH6UP	"	10,872	113	25	47
*OH3HZ	"	1,224	28	12	22
***OH3NXW**	**28**	**79,928**	**337**	**30**	**73**
*OH7NVU	"	57,408	232	29	67
*OH3MMH	"	50,048	225	26	66
*OH2LRE	"	25,128	157	23	49
*OH2MDC	"	17,940	104	23	46
*OH6RC	"	14,560	99	22	48
*OH6MXS	"	9,750	116	13	37
*OH7MFO	"	6,232	75	12	26
*OH5OD	"	4,522	58	12	26
*OH7LFV	"	748	19	8	9
***OH2MO**	**21**	**35,964**	**217**	**23**	**51**
*OH6CP	"	29,766	174	20	46
*OH6YLS	14	5,240	103	8	32

FRANCE

F6HLC	**A**	**2,114,820**	**1957**	**114**	**351**
TM1L	"	627,070	846	90	275
TM5L	"	545,398	1069	75	251
F6GKC	"	524,790	860	76	218
F6DZD	"	240,380	520	66	172
FD1OBK	"	227,930	565	67	191
FL3B	**28**	**140,928**	**518**	**29**	**99**
TM1K	**21**	**663,217**	**1873**	**29**	**108**
F5JY	"	200,384	628	27	97
F6AML	**1.8**	**10,350**	**224**	**6**	**40**
***F8WE**	**A**	**359,805**	**774**	**71**	**218**
*F6EXQ	"	305,325	485	75	220
*F3VX	"	153,648	449	48	150
*FD1OQL	"	152,684	366	52	144

*FE6FNA	"	119,040	341	53	139
*FD1PXQ	"	112,560	320	57	153
*F2AR	"	100,572	330	50	154
*F1JDG	"	80,782	298	49	120
*FE6DRP	"	50,358	229	34	75
*FD1CIE	"	42,300	187	42	99
*FD1RDS	"	32,128	153	34	94
*F1NYK	"	21,141	135	31	50
*FD1RAB	"	13,248	98	29	63
*FD1FRH	"	10,032	106	17	40
*FE1JND	"	3,696	54	15	29
*FD1RUE	"	2,706	38	13	28
*F6BOA	"	2,310	54	9	16
*F1LFT	28	56,547	244	27	76
*FD1OQJ	"	51,156	224	25	73
*F6FLN	"	15,447	99	22	35
*FD1SDA	"	4,750	69	10	28
*F1MMF	21	56,475	307	20	55
*F6AXD	"	1,416	26	11	13
*F6BVB	3.8	16,610	243	7	48

GERMANY

DJ4PT	A	2,281,644	1844	128	421
DJ4AX	"	1,663,885	1643	128	417
DL8PC	"	1,613,520	1395	126	414
DK2XX	"	1,312,965	1271	119	370
DJ3HL	"	1,013,855	1244	100	258
DK1FW	"	857,217	859	113	376
DF1IK/P	"	677,880	824	104	316
Y32WF	"	561,678	653	97	261
DL4YBP	"	410,209	624	82	229
DF2UQ	"	318,696	613	73	198
DK5WQ	"	314,545	558	71	230
DK1IT	"	301,476	558	74	217
DF7QJ	"	274,200	502	75	225
DL9DBR	"	274,060	491	74	210
DF2UU	"	268,589	425	79	258
DL3NBJ	"	260,004	478	73	209
DJ3WE	"	257,278	369	65	244
DJ4ZR	"	253,176	353	64	224
DJ8UV/P	"	216,460	495	67	207
DL9SN	"	210,888	395	68	164
DL3RDR/P	"	201,058	445	63	184
DLØMET	"	158,696	420	65	174
				(Opr. DL8UU)	
DL2JO	"	157,832	386	57	161
DL2BAY	"	150,822	268	60	179
DL3OBL	"	119,955	350	55	110
Y25FG	"	115,993	287	51	142
Y26WL	"	106,496	275	60	148
DF2KD	"	99,110	583	49	121
DJ2UU	"	98,455	279	51	152
DL2DN	"	97,020	245	52	113
DK4RM	"	43,239	120	49	94
DK5KJ	"	41,184	286	42	102
Y55TJ	"	38,480	108	56	92
DL8UTC	"	35,520	122	43	77
DL3IV	"	25,536	127	28	84
DL6KVB	"	23,870	107	41	69
JF2PTA	"	23,388	161	49	73
DL7MAE	"	23,124	82	48	75
DL4DCC	"	9,333	100	20	41
Y31WF	"	6,666	68	20	46
DL3YDY	"	4,235	59	15	40
DFØX	28	126,907	413	31	108
				(Opr. DF8AE)	
Y22EK	"	43,857	197	25	74
DJ9ZB	"	17,325	100	21	56
DJØBX/P	"	8,944	86	16	36
Y25GH	"	4,690	69	9	26
DF5WN	"	1,173	31	8	15
Y37ZE	21	63,600	260	28	78
DL1NCT	14	118,668	493	33	99
DL1YAW	"	118,237	390	32	95
DL3KZA	"	39,160	274	23	66
DL1KZA	"	32,477	227	23	54
Y42VN	"	3,034	52	12	29
Y21CW	3.8	162,450	1011	23	91
DL3LAB	"	122,194	823	23	84
DLØWPX	"	34,176	527	8	56
*Y48PJ	A	712,194	891	102	332
*DJ2HH	"	394,356	486	85	269
*DJ1OJ	"	254,505	453	85	200
*DL1IAO	"	239,948	511	65	204
*DF4TD	"	227,532	567	56	227
*DK8FS	"	207,612	379	74	218
*DL8SDC	"	183,340	439	60	146
*CJØMW	"	180,804	349	64	164
*DL4RU	"	149,375	323	64	175
*DK7LI	"	130,625	405	51	158
*DK5DS	"	128,024	367	52	112
*DL4FJ	"	111,723	315	49	118
*DJ5AV/A	"	99,858	247	55	132
*DL3ZBJ	"	74,261	197	47	110
*DL6EH	"	72,027	265	41	110
*Y31NB	"	61,272	221	41	107
*Y21HB	"	52,114	205	42	100
*DL1RNE	"	44,950	193	40	105
*Y38YE	"	34,560	194	36	108
*DAØHPS	"	34,160	146	43	97
*DL6RDE	"	27,075	139	31	64
*DL2SBY	"	25,620	135	25	80
*Y23CW	"	19,890	109	28	74
*DL9SDD	"	18,297	105	34	73
*DL3DBY	"	11,175	109	23	52
*DL9GMA	"	10,132	116	18	50
*Y24SH	"	6,248	65	19	34
*DJ6SH	"	3,348	81	10	26
*Y24ON	"	1,677	39	12	27
*DKØMH	"	209,737	538	64	189
				(Opr. DJ7IK)	
*DJ9MT	28	43,800	185	26	74
*DL7YS	"	11,456	78	19	45
*DH2RAL	"	11,375	78	19	46
*DL3ME	"	5,590	52	20	23
*DH3DAI	"	2,625	41	11	24
*Y67RL	7	3,440	79	6	34
*Y21XC	1.8	5,600	137	6	34

GIBRALTAR

ZB2X	A	7,128,646	5056	137	510

GREECE

SVØA8	28	69,960	209	32	100
*J43A	28	440,700	1411	31	125
				(Opr. SV3AQR)	

GUERNSEY ISLAND

GU3HFN	A	212,764	573	45	127
				(Opr. GUØJCI)	

HUNGARY

HAØHW	A	996,839	1250	110	353
HA8XX	"	657,372	1094	92	256
HA5AGS	"	488,040	832	90	242
HA5AGS	"	484,456	832	89	239
HA8CO	"	50,050	180	45	109
HAØPP	28	227,520	658	32	112
HA7TM	"	114,835	405	32	87
HA4XX	14	713,241	2085	38	133
*HA3RD	A	574,560	934	86	256
*HA3RD	"	571,554	934	86	253
*HAØIR	"	30,956	115	47	62
*HGØFH	28	80,769	306	29	80
*HGØDB	"	40,626	178	265	64
*HA7RC	21	57,700	272	25	75
*HA8CO	"	10,136	83	15	41
*HAØBVK	7	139,664	715	23	89

ICELAND

TF3UA	A	11,814	119	20	46
TF3CW	14	822,300	2205	35	115

IRELAND

EIØFN	21	111,940	106	26	90
EI5A	3.8	14,812	289	7	39
				(Opr. EI5HF)	

ITALY

IR6L	A	3,167,322	2936	119	382
IK5ACO	"	222,975	463	71	154
IT9LPN	"	170,269	392	52	191
IKØQCZ	"	93,930	323	50	105
IK8CHL	"	78,489	208	48	123
IT9JOF	"	76,384	174	54	100
IK3OYY	"	70,350	208	59	116
IK2BLA	"	67,760	142	51	115
IØZUT	"	67,232	170	57	134
IK2AII	"	53,720	206	44	114
IK1JJM	"	44,280	138	49	86
IK7IJP	"	21,663	99	33	54
I1POR	28	252,486	622	34	132
IK5BOB	"	228,942	587	33	128
IN3QBR	"	197,974	523	33	125
I4AFQ	"	107,325	334	33	102
IV3BMV	"	80,143	327	28	79
I4WTC	"	65,296	245	26	86
IKØFUX	"	22,074	117	23	55
I5NXH	"	21,586	101	27	59
IK5RUN	14	275,648	907	33	113
IN3XUG	"	118,040	450	33	97
IV3ZCS	"	103,389	311	34	109
IK2OFT	"	22,826	100	24	77
IN3ZNR	7	192,076	954	27	97
I5JHW	"	76,921	401	24	87
IK5EKB	3.8	34,425	357	12	63
IK5JAN	"	31,537	389	11	50
IV3PRK	1.8	26,464	418	8	56
I5OYY	"	9,264	196	7	41
*IK8LWA	A	232,518	350	74	197
*IK3REL	"	208,278	366	79	182
*IK1PFW	"	169,212	410	61	178
*IK7PTX	"	81,443	247	53	126
*IK3HHY	"	79,756	276	46	111
*I4CSP	"	72,384	210	55	137
*IK2QIN	"	65,352	199	52	116
*IØLTX	"	58,443	211	48	113
*IK8IFW	"	45,212	210	38	89
*IKØQDB	"	35,687	131	44	83
*IK8IFX	"	33,180	201	27	78
*IK2QPO	"	22,018	102	36	73
*IKØQJO	"	18,315	106	31	58
*IK2IAR	"	13,871	83	33	54
*IK3OGL	"	7,742	122	19	30
*IK2SAR	"	3,362	40	15	26
*IK3SCB	"	2,714	27	19	27
*IØTIC	"	1,870	19	16	18
*I8IOM	28	52,200	215	29	71
*IK2IQR	"	2,812	39	14	23
*I5NSR	21	398,136	986	38	130
*I4PZP	"	66,780	261	26	79
*IK2AEQ	"	15,900	108	19	56

TOP TEN SINGLE OP ASSISTED
All Band

1. N4RJ	4,005,762	6. N4WW	2,507,618
2. K1ZM	3,978,942	7. W1RR	2,432,073
3. IR8A	2,719,659	8. AK1A	2,302,488
4. K3WW	2,610,960	9. N2MM	1,915,544
5. KC1XX	2,555,944	10. AA2DU	1,775,500

*IK8OUI	"	10,481	107	10	37
*IK6HWX	"	1,525	23	11	14
*IK8COG	14	48,700	251	24	76
*IK7LMX	"	41,417	415	20	63
*IK1JUL	"	26,054	225	15	57
*IK5JRT	"	23,322	196	19	59
*IK2NNI	"	4,314	56	14	28
*IK2MJD	"	2,117	73	9	20
*IK3ITX	3.8	2,432	57	4	28

LATVIA

YL2DX	A	202,266	417	66	250
YL2GD	"	103,944	257	61	152
YL2SM	28	29,880	167	23	49
YL2GN	21	155,575	680	31	96
YL2IP	14	27,664	155	25	66
YL2GUP	1.8	2,204	74	5	24
*YL2TW	A	181,170	490	64	206
*YL2SW	"	85,550	402	42	103
*YL2KO	"	19,776	114	31	65

LITHUANIA

LY3BU	A	379,312	753	73	241
LY2BNC	"	372,939	800	70	231
LY1DI	"	217,218	467	65	181
LY3BA	"	194,936	618	53	183
LY2BGB	"	11,992	212	26	84
LY2PCI	28	248,538	874	29	109
LY3BH	"	185,456	643	31	103
LY2WW	21	518,760	1259	37	128
				(Opr. LY2BIJ)	
LY2BIS	"	264,290	808	32	98
LY2PAQ	"	19,564	127	17	50
LY1CJ	14	67,771	372	27	74
LY1BY	3.8	76,775	686	18	65
LY3BS	"	70,452	787	13	63
*LY3BX	A	2,107,140	2146	124	395
*LY1DR	"	69,020	315	97	493
*LY1CY	"	13,855	103	25	60
*LY1BA	"	1,400	25	14	21
*LY2BUU	21	65,596	320	25	67

LUXEMBOURG

*LX1OM	A	317,730	589	73	194
*LX1SG	14	83,646	430	28	86
*LX2AA	"	15,660	218	9	45

MALTA

9H1DE	A	342,828	756	64	150

THE NETHERLANDS

PAØAGA	A	950,991	1318	89	270
PAØIJM	"	629,208	1235	93	231
PAØKDM	"	405,000	504	72	198
PAØKHS	"	258,318	648	68	186
PAØUV	"	13,527	91	26	55
PAØDOM	"	13,280	76	32	48
PA3BNH	"	3,692	65	13	39
PA3DWD	28	148,257	550	33	120
PBØAFZ	"	100,224	340	26	82
*PA3FNE	A	1,448,808	1769	100	302
*PAØDJ	"	54,200	194	35	109
*PA3BJD	"	35,015	120	45	104
*PA2JCG	"	28,644	181	31	53
*PA2SWL	28	24,000	162	21	54
*PA2REH	"	7,200	98	10	30
*PAØZH	1.8	3,626	90	6	31

NORTHERN IRELAND

*GIØKOW	A	439,470	789	51	206
*GIØNWG	28	36,904	248	16	40

NORWAY

LA1H	A	962,505	1119	103	262
				(Opr. LA6EDA)	
LA1LIA	"	312,830	533	80	207
LA9DFA	"	207,690	573	57	173
LA8BCA	"	42,880	242	30	104
LA3ZFA	"	14,874	137	23	114
LA3KY	"	14,472	90	22	45
LA2IR	14	61,748	310	26	60
LA9GV	"	24,960	175	21	57
LA6PB	"	14,691	142	15	44
LA6IHA	3.8	1,792	64	3	25
*LA4PHA	A	110,880	399	42	102
*LA8DY	"	105,910	391	44	126
*LA1PHA	"	84,560	268	48	103
*LA6PHA	"	82,360	310	34	108
*LA4KGA	"	72,691	311	42	115
*LA2MV	"	57,472	243	42	86
*LA2AD	"	45,714	237	31	83
*LA8GV	"	45,630	204	33	102
*LA6SDA	"	16,100	115	29	71
*LA9JHA	"	16,037	137	23	56
*LA2ZFA	"	15,272	146	23	60
*LA3DHA	"	13,140	93	26	64
*LA1KQ	"	12,495	114	20	65
*LA2WHA	"	11,725	124	22	45
*LA8HHA	"	7,006	77	22	40
*LA9PEA	"	6,930	73	22	44
*LA3WEA	"	6,528	100	9	39
*LA7FD	"	4,455	39	19	26

POLAND

SP1AEN	A	160,035	392	57	170
SP9AGS	"	77,552	380	31	117
SP4EEZ	"	67,716	152	59	112
SP2AHD	"	43,875	137	38	79
SP9MQH	"	18,079	75	42	59
SP7DZA	"	14,560	117	24	56
SP9HZF	"	6,540	51	25	35
SP7GIQ	28	152,625	512	26	99
SP5DDJ	"	97,234	338	27	95
SP9FIH	21	373,756	920	36	128
SP3SLB	"	9,322	60	22	37
SP4DGN	14	129,086	342	37	121
SP5HRX	"	17,177	86	26	63
SP7MOC	"	5,508	48	16	35
SP8TQ	3.8	51,546	596	12	59
SP9KRT	"	4,914	128	5	35
SN3N	"	4,290	130	5	28
*SP9NRD	A	329,372	587	78	190
*SP3SLA	"	260,832	597	65	199
*SP3NYG	"	66,825	234	40	125
*SP5AZQ	"	57,069	211	48	105
*SP4CJA	"	48,350	230	33	71
*SP3ZAT	"	32,178	168	37	56
*SP2FWC	"	17,934	105	32	66
*SP4BPH					
/A	"	16,766	86	34	49
*SP3GRQ	"	8,968	60	27	49
*SP3DIK	"	4,663	67	31	29
*SP8FHJ	"	3,900	42	20	32
*SP9LDP	"	3,042	42	15	24
*SP9MDY	"	1,504	41	10	22
*SP3KPN	"	1,131	25	11	18
*SP6PAX	"	1,116	26	10	21
*SN6O	28	49,294	219	28	70
*SP8BJH	"	22,922	127	25	48
*SP7FDV	"	11,040	75	21	39
*SP5AGD	"	10,633	100	15	34
*SP5YQ	"	5,895	53	17	28
*SP7VCO	21	64,260	300	26	64
*SP2UUU	"	11,150	101	16	34
*SP7LZD	14	54,036	219	30	84
*SP1EOI	"	44,824	189	30	74
*SP6CPF	"	25,896	171	22	56
*SP5OXJ	"	17,625	137	19	56
*SP9EWT	"	7,950	125	10	40
*SP6CXH	"	7,050	96	14	36
*SP8GNF	3.8	1,980	57	5	28
*SP3GUG	1.8	1,392	29	3	16

PORTUGAL

CR7O	A	805,070	1465	92	279
				(Opr. CT1DIZ)	
CTØBWN	"	532,214	739	79	202
CO4A	28	1,203,924	2635	32	132
				(Opr. CT1BOP)	
CT1BBJ	"	70,040	265	24	79
CT1EDJ	21	75,674	359	21	57
CT1UO	"	28,356	171	18	50
CTØA	14	431,840	1606	35	125
				(Opr. CT1DVV)	
CR6A	"	274,411	1025	31	106
				(Opr. CT1AHU)	
*CT1AQF	A	120,363	318	43	116
*CQØA	"	110	5	5	5
				(Opr. CT1CLR)	
*CQ4DX	28	6,552	42	19	33
				(Opr. CT4DX)	
*CT1AZS	21	17,171	117	18	59
*CT1CIR	14	24,990	143	23	62
*CT1AOZ	1.8	10,816	159	11	41

ROMANIA

YO3DCO	A	101,871	219	71	160
YO7LCX	"	22,356	101	35	73
YO9HP	28	112,520	390	28	88
YO3JF	7	49,968	463	14	58
*YO2DFA	A	175,682	474	65	168
*YC5OAG	"	168,975	379	64	161
*YC2LBN	"	71,340	173	61	113
*YO7KJS	"	58,773	269	41	103
*YO8BNG	"	20,586	104	30	64
*YO9FEH	"	2,478	34	15	27
*YO3AIL	21	55,263	217	30	79
*YO4PN	14	759	19	9	14
*YO3RU	3.8	41,160	245	10	46
*YO9IAB	"	3,570	87	5	30

SARDINIA

IS8LLJ	A	35,328	159	40	98
*ISØLDT	A	20,500	204	20	69

SCOTLAND

GMØECO	A	1,775,520	2013	95	337
GM3BCL	"	291,096	551	57	177
*GMØFET	A	174,086	452	51	142
*GM4CHX	28	29,857	190	18	55

SICILY

IT9A	28	801,220	1814	37	157
				(Opr. IT9GSF)	
IT9S	"	457,424	1314	35	141
				(Opr. IT9BLE)	
IT9NTT	21	340,550	1208	33	106
*IT9ZYT	A	243,360	446	68	192
*IT9HBT	28	196,647	540	35	142
*IT9NAN	"	61,903	280	25	78
*IT9RYJ	21	448,392	1337	35	122

SPAIN

EA7BA	A	2,419,533	2,666	100	269
EA3OK	"	1,568,944	1621	114	380
EA4CQT	"	1,193,876	1306	93	269
ED1CON	"	766,080	1062	82	222
EA7PA	"	462,553	657	77	222
EA1FD	"	271,469	490	64	189
EA5JC	"	120,083	251	69	158
EA5ZR	"	80,808	180	61	121
EA3DVJ	"	72,416	239	42	104
EA1EYR	"	61,950	205	48	102
EA5GJM	"	27,750	89	38	73
EA5DKS	"	11,400	117	21	59
EA5EFV	"	10,742	55	33	49
EA7					
/DHØBA	28	340,074	996	31	96
ED1BH	"	60,768	333	18	54
EA4EP	"	15,296	104	17	47
EC1CTH	21	64,201	339	27	82
EA3GCN	14	20,367	166	17	56
EA5AFQ	"	204	8	5	7
EA3CUQ	7	59,367	401	17	60
EA3ELM	"	25,102	222	13	64
EA3ALD	1.8	18,961	262	10	57
*EA3BKI	A	1,121,324	1232	101	293
*EA3CWK	"	990,318	1214	98	301
*EA7FTR	"	745,032	1292	50	152
*EA3GBU	"	605,440	979	82	238
*EA3GCJ	"	586,845	921	84	231
*EA1IF	"	362,082	694	58	164
*EA3EJI	"	247,908	484	78	222
*EA1BQR	"	228,798	512	61	162
*EA5CHT	"	214,008	466	64	158
*EA5TS	"	204,057	378	71	166
*EA1EVY	"	195,435	505	55	160
*EA5CGU	"	188,034	312	67	192
*EA5YJ	"	164,640	403	59	151
*EA5AEN	"	116,644	215	77	164
*EA3DNC	"	115,675	345	50	125
*EA3EGI	"	98,903	246	57	142
*EA3CZR	"	63,240	239	36	88
*EA3ALV	"	43,423	158	56	117
*EA5ETP	"	39,360	194	37	83
*EA7HAV	"	38,396	149	43	73
*EA5BD	"	35,340	119	43	81

*EA5GMY	"	32,452	104	47	75
*EA2CMI	"	27,890	190	17	48
*EA7DXR	"	26,728	105	38	66
*EA3CSX	"	22,644	112	37	74
*EA1EBK	"	22,542	129	26	86
*EA7GVJ	"	21,112	95	37	67
*EA3EJN	"	20,898	135	26	60
*EA7BVM	"	20,331	97	32	49
*EA3GHC	"	18,792	98	31	77
*EA5FNE	"	16,632	65	39	60
*EA7CP	"	16,340	74	32	43
*EC1DEQ	"	13,338	128	16	60
*EA7CWV	"	8,525	57	25	50
*EA3DWX	"	8,533	66	20	33
*EA3GMB	"	6,897	48	25	32
*EA2BXJ	"	2,242	33	14	24
*EA1DFP	"	884	35	5	21
*EA7GFG	"	70,585	273	33	62
*EA2CLU	"	70	4	3	4
EA7ARK	**28**	**204,074**	**468**	**35**	**132**
*EA7BR	"	148,326	464	27	91
*EA5BZS	"	85,375	278	30	95
*EA1EVW	"	63,080	317	21	55
*EA4CWN	"	28,202	145	23	56
*EA3DZZ	"	26,565	222	19	50
*EA7BFZ	"	25,575	134	23	70
*EA7CWA	"	21,854	76	20	78
*EA1EZA	"	2,310	36	9	21
*EA7CDT	"	1,830	26	12	18
EA4DX	**21**	**205,280**	**564**	**35**	**125**
*EA1EVQ	"	90,200	396	23	87
*EA7EBL	"	36,900	179	23	59
*EC1DFP	"	29,964	189	20	64
*EC3CYX	"	25,187	159	22	57
*EC5CON	"	24,795	148	26	51
*EA1ATT	"	7,605	97	12	27
*EA3ESZ	"	7,003	82	14	33
*EC1DCN	"	6,765	57	16	38
*EC3DBF	"	3,960	58	11	34
*EC2AUS	"	3,560	43	14	26
*EA3FNI	"	3,002	40	12	26
*EC4DAC	"	1,890	37	9	26
*EC3DAN	"	1,500	36	9	21
*EC5COG	"	1,107	17	12	15
EA3GFT	**14**	**195,534**	**822**	**33**	**109**
*EA3AAY	"	110,288	570	29	84
*EA3GCT	"	95,920	510	26	83
*EA5GIO	"	59,724	304	24	84
*EA7FUH	"	54,249	254	25	82
*EA5EYJ	"	49,000	270	23	75
*EA3DIH	"	44,770	235	28	82
*EA1BCK	"	12,480	139	13	52
*EA7GZS	"	144	8	4	8
EA3EGB	**3.8**	**8,160**	**134**	**8**	**40**
*EA3BCJ	"	1,316	44	5	23

SWEDEN

SM5IMO	**A**	**1,038,680**	**1130**	**113**	**347**
SM5AOE	"	883,623	1022	106	311
SM3BIZ	"	586,520	758	90	254
SM7DXQ	"	223,748	354	78	184
SM5RNP	"	208,656	553	52	155
SM5CSS	"	197,119	464	56	191
SM2LEB	"	58,290	200	42	92
SM3DZH	"	32,860	135	39	85
SM4GIB	"	23,256	168	27	75
SM5EMR	"	22,464	103	38	70
SM5AAY	"	9,900	68	23	43
SM6BJI	**28**	**127,104**	**453**	**33**	**95**
SM4HEJ	"	5,000	53	13	37
SM8KV/8	**21**	**25,906**	**118**	**26**	**52**
SM2EKM	**14**	**948,117**	**2597**	**37**	**122**
SM3EDF	"	54,040	305	27	77
SL3ZV	"	25,521	245	16	31
SM5GXW	"	10,368	127	14	34
SM6DOI	**7**	**82,222**	**623**	**22**	**76**
SM3SGP	**"**	**570,372**	**939**	**80**	**239**
*SM7AIC	"	154,000	450	51	149
*SM0BDS	"	42,510	176	38	71
*SM5BDA	"	36,722	163	56	97
*SM0FM	"	13,148	121	22	54
*7S6NL	"	6,204	82	24	42
*SM5PPS	"	3,640	37	20	32
SL5AB	**28**	**131,313**	**120**	**13**	**39**
				(Opr. SM5FUA)	
*SM3RLJ	"	111,684	377	34	89
SM0GRD	**21**	**33,361**	**214**	**20**	**53**
*SM4BW	"	16,600	132	19	31
SM7HPD	**14**	**20,020**	**205**	**13**	**52**
*SM7"V	"	6,109	111	10	31
SM7TF	**3.8**	**4,059**	**87**	**6**	**35**

SWITZERLAND

HE7AIB	**A**	**926,000**	**1206**	**115**	**348**
HE7DCQ	"	701,765	1012	91	324
HB9AFH	"	17,877	73	37	64
HB9BTI	**21**	**69,230**	**272**	**27**	**88**
HB9DX	"	37,391	112	31	108
HB9IQB	**3.8**	**14,331**	**265**	**7**	**44**
*HE7CA	A	5,124	42	23	38

USSR

BYELORUSSIA

UC2AFM	**A**	**72,216**	**230**	**44**	**92**
UC2OT	"	41,756	149	51	95
UC2LR	**14**	**180,880**	**528**	**36**	**116**
UC2WEL	"	15,368	164	14	54
UC1AWK	**3.8**	**55,699**	**648**	**13**	**60**
			(Opr. UC2AJM)		
UC2IEF	**1.8**	**10,948**	**156**	**5**	**29**
UC2SN	**28**	**32,785**	**164**	**22**	**61**
*UC2WEV	"	10,260	86	18	36
*UC2ADM	14	6,935	109	12	24

EUROPEAN RUSSIA

RA1AA	**A**	**590,271**	**970**	**80**	**261**
UA1ANA	"	258,470	570	78	207
U1BA	**14**	**11,256**	**139**	**12**	**44**
RA3NC	**A**	**172,938**	**381**	**66**	**156**
RA3QR	**21**	**345,450**	**1094**	**36**	**111**
RV3ZA	**14**	**480,420**	**1512**	**38**	**132**
RA3ZC	"	178,087	823	35	98
RA3LJ	"	15,128	266	32	30
RA3WA	**7**	**84,900**	**570**	**20**	**80**
UA3AO	**3.8**	**12,015**	**252**	**7**	**38**
***UA3DPX**	**A**	**372,552**	**593**	**95**	**249**
*RA3VR	"	7,452	67	20	49
***UA3ZIU**	**28**	**137,888**	**532**	**29**	**75**
***UA3DJY**	**21**	**68,708**	**330**	**24**	**76**
*UV3DPP	"	40,504	203	24	59
*RA3LDV	"	37,048	188	27	61
*RA3DNC	"	33,300	246	21	54
*UA3D					
/LB3LB	7	2,856	82	7	27
***UW3AT**	**1.8**	**2,489**	**102**	**5**	**14**
UA4LCQ	**A**	**688,727**	**1084**	**104**	**299**
UA4NC	"	520,902	677	97	230
UA4NCI	"	228,352	510	71	185
UA4ZA	"	23,265	107	34	65
UZ4HXY	**21**	**183,936**	**844**	**30**	**66**
		(Opr. Valery Baranov)			
UA4CZ	"	83,611	343	30	91
UA4CMF	**14**	**99,008**	**474**	**31**	**88**
***UA4SKW**	**A**	**32,144**	**152**	**33**	**79**
RZ6LG	**A**	**607,550**	**736**	**104**	**315**
UW6LC	"	153,888	687	71	153
RA6AR	"	84,208	276	47	105
UA6BPJ	**28**	**201,000**	**940**	**19**	**106**
UA6XT	"	161,464	516	32	92
UV6LC	**21**	**423,096**	**1039**	**33**	**103**
UW6AA	"	94,164	400	33	85
UA6LQ	**14**	**542,325**	**1634**	**38**	**137**
UA6LU	"	19,241	178	17	54
***RZ6AB**	**A**	**104,920**	**270**	**65**	**150**
*RV6AF	"	69,560	197	56	132
***UA6BPM**	**28**	**120,879**	**600**	**30**	**91**
*UA3VIJ					
/UA6U	"	28,391	194	26	63
*UA6LBP	"	8,256	60	22	26

KARELIA

RA1NC	**A**	**74,736**	**255**	**45**	**128**
UA1NDR	**3.8**	**6,251**	**133**	**7**	**32**
***UA1NDY**	**14**	**5,616**	**84**	**13**	**35**

MOLDAVIA

RD4OA	**A**	**847,297**	**1098**	**106**	**285**
UO5ON	"	286,357	539	62	171
UO5OL	"	3,116	34	17	24
UO5GR	**14**	**43,763**	**204**	**28**	**79**
***UO5ODC**	**21**	**15,774**	**122**	**19**	**47**

UKRAINE

UT4UX	**A**	**1,760,150**	**1961**	**123**	**347**
UB5EDU	**"**	**1,685,448**	**1824**	**119**	**340**
RB0HZ	"	768,627	1061	95	274
RB4LJ	"	534,816	1039	77	211
UY5TE	"	361,670	750	71	224
RB5VT	"	297,498	727	72	205
UB5MLP	"	244,679	387	88	219
UT5LBN	"	84,816	345	37	107
UB5IAE	"	9,735	301	8	47
UB5IJG	**28**	**426,387**	**1028**	**35**	**134**
RB5VK	"	408,946	1163	34	111
UR8G	"	209,450	575	35	107
RB5WO	"	77,440	264	29	92
UB4LCB	**21**	**63,440**	**337**	**26**	**78**
UB5IRZ	**14**	**173,128**	**806**	**32**	**102**
RB5NI	"	103,311	513	30	87
RB5ISP	**7**	**131,098**	**559**	**27**	**91**
UB5NED	"	16,728	200	12	56
UB4QYA	**3.8**	**37,867**	**444**	**14**	**59**
RB5NS	"	33,062	462	10	51
RY7D	**1.8**	**17,500**	**351**	**7**	**43**
RB5ELM	"	1,067	48	5	14
***RB5UN**	**A**	**260,780**	**392**	**87**	**208**
*UB5WJ	"	156,100	306	81	204
*RB5EX	"	59,495	241	45	118
*RB5IQV	"	49,760	143	51	109
*RB5IN	"	46,596	231	37	95
*RB5HY	"	41,538	145	43	95
*RB5ICY	"	37,625	161	41	84
*UB5ZME	"	1,160	19	11	18
***UB5QMA**	**28**	**116,388**	**396**	**29**	**93**
*UB5CQU	"	7,535	56	8	37
*UB5VDA	"	7,176	74	16	30
***UB4MQV**	**21**	**27,288**	**188**	**22**	**50**
*UB5CCP	"	10,123	87	17	36
*UB4EXZ	"	5,880	75	13	27
*UB5VAP	"	5,616	74	12	24
***UB4AR**	**14**	**142,575**	**605**	**29**	**104**
*RB5EG	"	83,210	458	27	79
*UB3MP	3.8	1,856	50	6	26

WALES

GW4BLE	**A**	**4,446,585**	**3137**	**130**	**455**
GW8ARK	**21**	**365,560**	**1094**	**31**	**99**
GW4OFQ	**3.8**	**183,590**	**1188**	**19**	**91**

YUGOSLAVIA

YT1BB	**A**	**3,436,884**	**3292**	**128**	**386**
YU3HR	"	1,553,187	1627	104	375
YU7LS	"	191,500	398	80	175
YZ3AA	"	37,810	331	24	71
YZ9A	**28**	**493,812**	**1181**	**34**	**138**
			(Opr. YT3AA)		
4N2V	"	397,782	1096	33	121
YJ3FW	"	356,044	912	34	130
YJ3GO	"	219,336	624	33	115
YU1JW	"	177,250	618	32	93
YU7AV	**21**	**586,710**	**1607**	**36**	**123**
YZ3A	"	528,710	1363	36	130
			(Opr. YU3EA)		
4N3DL	"	300,736	863	36	112
YU3BM	"	142,236	634	29	79
YT3E	**14**	**658,068**	**1740**	**37**	**137**
			(Opr. YU3KH)		
4N4A	**7**	**153,640**	**1018**	**25**	**90**
YU7KM	"	6,992	137	8	38
YU3XU	**3.8**	**97,020**	**811**	**15**	**75**
***YU3FA**	**A**	**380,975**	**607**	**81**	**230**
*YU1PJ	"	98,124	233	59	152
*YU7SF	"	44,333	161	44	93
*YT2ZO	"	17,760	102	38	58
*YT2ZG	"	11,026	73	27	47
***YT3SW**	**21**	**316,233**	**940**	**35**	**111**
***YU4XA**	**14**	**37,539**	**232**	**25**	**72**
*YU3TW	"	31,814	244	19	60

OCEANIA

AUSTRALIA

VK2BEX	**A**	**2,146,658**	**2288**	**112**	**211**
VK6JIP	"	184,870	471	51	88
VK3ALZ	"	99,261	324	42	81
VK8SD	"	83,054	235	48	84
VK5FOX	"	36,210	170	17	28
VK2KS	**28**	**487,015**	**1406**	**32**	**87**
VK3T7	"	145,782	649	27	78
VK4DMP	**21**	**48,025**	**203**	**29**	**56**
***VK5GN**	**A**	**430,650**	**762**	**76**	**123**
*VK3PU	"	397,824	563	88	168
*VK2CCK	"	283,383	585	57	116
***VK2ARJ**	**28**	**317,499**	**1190**	**30**	**61**
*VK4NAD	"	135,801	577	26	54
*VK8BE	"	1,938	34	10	9
*VK3SM	14	29,337	134	25	52

EAST MALAYSIA

***9M6RO**	**A**	**2,924,380**	**2737**	**121**	**244**
			(Opr. JH1ROJ)		

FIJI ISLANDS

3D2DD	**21**	**91,392**	**293**	**31**	**81**
			(Opr. W4WET)		

GUAM

KH2AF	**28**	**116,885**	**420**	**32**	**65**
KG6DX	**21**	**1,861,358**	**3839**	**38**	**128**
KH2T	7	816	19	7	10

HAWAII

WR6R					
/KH6	**A**	**5,037,033**	**4765**	**125**	**236**
AH6JR	**28**	**447,759**	**1739**	**27**	**62**
KH6BZF	"	270,715	1750	22	30
KH6XT	**21**	**609,960**	**2018**	**28**	**77**
KH6FKG	**14**	**495,635**	**1421**	**35**	**84**
***NH6T**	**A**	**1,934,998**	**2658**	**92**	**155**
*NH6WZ	"	68,614	396	26	32
*NH6ZW	28	9,064	79	18	26

INDONESIA

YB8TK	**28**	**448,436**	**1077**	**34**	**108**
YC6HEJ	"	119,357	346	34	85
YB1DYB	**21**	**29,300**	**202**	**10**	**40**
YC8SWR	"	22,000	140	23	57
***YB2HTD**	**A**	**53,640**	**154**	**44**	**76**
***YC3OSE**	**28**	**368,806**	**1030**	**33**	**89**
*YC6INU	"	235,290	582	35	103
*YB2BKJ	"	20,940	122	21	39
***YC7BVY**	**21**	**67,362**	**258**	**27**	**76**
*YF8NA	"	27,156	130	22	52
*YC1BGI	"	25,068	123	23	48
*YC2PXP	"	2,555	38	13	22

MACQUARIE ISLAND

*VK0ML	A	3,840	90	7	8

MARIANAS ISLANDS

***WH0AAP**	**28**	**64,844**	**426**	**21**	**37**

MICRONESIA

V63YL	**21**	**876,645**	**2453**	**33**	**87**

NEW CALEDONIA

FK3BKRU	**28**	**459,449**	**1567**	**29**	**72**
			(Opr. FK8FU)		
***FK**					
/JH1MXV	**A**	**475,552**	**1065**	**63**	**91**

NEW ZEALAND

ZL2ACP	**28**	**104,716**	**387**	**28**	**66**
***ZL1IM**	**A**	**120,416**	**359**	**53**	**68**

OGASAWARA ISLAND

***JG1SHT**					
/JD1	**A**	**338,247**	**1045**	**73**	**104**
*JG1DQN					
/JD1	"	69,654	393	31	47
***JG1QET**					
/JD1	**21**	**373,255**	**1338**	**31**	**64**
***JP1AVZ**					
/JD1	**14**	**80,712**	**829**	**23**	**49**

PAPUA NEW GUINEA

P29DX	**A**	**5,314,946**	**3785**	**141**	**353**
***P29KH**	**A**	**1,345,986**	**1652**	**93**	**189**

PHILIPPINES

DU9RG	**A**	**1,500,408**	**1425**	**121**	**243**
KG6UH					
/DU1	**28**	**100,837**	**406**	**33**	**56**
***4I3I**	**28**	**129,375**	**594**	**27**	**48**
*DU1DFU	"	41,340	450	28	32

SOLOMON ISLANDS

H44KA	**A**	**349,258**	**696**	**69**	**113**

SOUTH COOK ISLANDS

***ZK1XC**	**A**	**2,215,343**	**3094**	**87**	**160**
			(Opr. WQ7R)		

WESTERN SAMOAN ISLANDS

5W1JD	A	11,650	88	26	24

SOUTH AMERICA

ARGENTINA

L33F	**A**	**2,927,394**	**2417**	**106**	**308**
			(Opr. LU6FAZ)		
LU1HOO	**28**	**1,261,440**	**2957**	**36**	**108**
L2Q	"	829,125	2239	35	90
			(Opr. LU2QC)		
LU5HN	"	201,565	1048	21	44
LU9AEV	**21**	**1,016,964**	**2213**	**33**	**123**
LW1DHI	"	5,300	34	19	34
LU1DF	**14**	**575,211**	**1334**	**33**	**114**
LU6DTS	"	79,968	294	22	76
LU1IV	**7**	**399,600**	**973**	**34**	**110**
***AY4AA**	**A**	**371,412**	**811**	**54**	**117**
*LU1HGN	"	233,280	417	73	143
*LU7MAO	"	39,932	132	54	80
***LU2NI**	**28**	**435,666**	**1080**	**32**	**106**
*LU8DY	"	40,256	424	16	16
*LU2DGZ	"	1,830	29	13	17
***LU1ICX**	**21**	**461,590**	**1022**	**35**	**120**

ARUBA

P4@W	**A**	**10,779,338**	**6389**	**131**	**440**
			(Opr. W2GD)		
P4@V	"	**8,852,976**	**6142**	**131**	**355**
			(Opr. AI6V)		

BOLIVIA

CP1FF	**A**	**27,755**	**113**	**43**	**48**

BRAZIL

PY3LP	**A**	**128,140**	**520**	**36**	**50**
PY2KP	"	42,744	124	54	83
PT7SB	"	33,396	102	40	81
PY3LHB	"	14,773	81	32	47
PS8ET	"	9,522	52	25	44
PY2EX	"	4,410	46	18	24
ZY5A	**28**	**2,984,156**	**5154**	**37**	**156**
ZY5EJ	**"**	**2,050,187**	**3845**	**37**	**144**
ZW5B	"	1,114,058	2395	34	124
PY5BVL	"	15,720	107	21	39
ZX9A	**21**	**2,548,650**	**4436**	**38**	**157**
			(Opr. PY5CC)		
ZY1LI	"	168,640	685	26	59
ZY5EG	**14**	**1,232,769**	**2567**	**39**	**124**
			(Opr. OH6DO)		
PY3WW	"	469,628	1401	31	82
PY2APQ	"	61,370	291	25	50
PY1CAS	"	36,985	195	16	49
PY2ELZ	**7**	**22,648**	**109**	**22**	**54**
PY5BVL	"	4,500	50	15	21
PY2PD	3.8	855	36	9	10
***PX1Z**	**A**	**1,810,710**	**1789**	**67**	**274**
*PY2NY	"	489,566	744	78	160
*PY2LP	"	11,375	79	24	41
***ZY5IO**	**28**	**420,243**	**1132**	**31**	**96**
*PY2EYE	"	14,094	171	14	15
*PY3AON	"	1,404	22	12	15

CHILE

CE3FIP	**A**	**5,682,040**	**3990**	**135**	**355**
CE3BFZ	"	3,856,860	3125	126	294
CE6NES	"	88,717	417	25	54
CE6EZ	**28**	**1,819,048**	**3930**	**33**	**121**
CE3DNP	**"**	**1,770,556**	**3653**	**36**	**130**
CE2HI	**21**	**740,246**	**1780**	**31**	**111**
CE3DKZ	"	563,568	1617	31	87
CE5BSS	7	546	12	6	7
***CE2EZE**	**28**	**105,120**	**360**	**30**	**90**
*CE3HA	14	1,643	53	12	19

COLOMBIA

HK1LDG	**A**	**566,840**	**1329**	**50**	**88**
HK6IUI	"	5,358	91	16	31
HK3JJH	**14**	**529,750**	**1437**	**31**	**99**
***HK6HFY**	**28**	**327,420**	**1507**	**24**	**78**
*HK3MKO	"	153,117	488	29	78
***HJ5RXI**	**3.8**	**222,608**	**169**	**13**	**35**

EASTER ISLAND

CE@YAD	**14**	**543,492**	**1461**	**29**	**95**

ECUADOR

HC5R	**A**	**9,630,900**	**5286**	**149**	**476**
HC1OT	**28**	**2,067,529**	**4200**	**33**	**133**
HC1H	**21**	**155,106**	**918**	**22**	**41**

FRENCH GUYANA

FY/N4QDX	**A**	**727,237**	**1541**	**52**	**109**

GUYANA

8R1JV	**A**	**482,550**	**1058**	**54**	**96**

PARAGUAY

ZP6CW	**A**	**53,504**	**293**	**25**	**39**
ZP8Y	**21**	**2,133,068**	**3699**	**37**	**159**
			(Opr. LU6ETB)		

PERU

OA4ZV	**A**	**991,230**	**1546**	**87**	**135**
OA4ANR	**21**	**453,016**	**1156**	**31**	**105**

TRINIDAD

19Y4H	A	12,104,906	7195	145	424
9Y4BU	"	312,424	566	55	141
9Y4VU	**21**	**1,493,220**	**3087**	**36**	**128**
***9Y4**					
/KN4TX	**A**	**922,167**	**1400**	**74**	**163**

URUGUAY

CX8CG	**A**	**819,247**	**1507**	**61**	**126**
***CX3CE**	**A**	**601,354**	**906**	**70**	**159**
*CX4SB	"	2,013	27	14	19

VENEZUELA

YV5CLK	**A**	**1,092,896**	**1316**	**88**	**199**
4M3BC	"	285,642	1940	46	80
				(Opr. YV3BC)	
YV7QP	**28**	**80,352**	**350**	**24**	**57**
YW1A	**14**	**1,326,318**	**2884**	**35**	**126**
				(Opr. YV1AVO)	
YW5N	"	743,808	1608	35	121
				(Opr. YV5DTA)	
4M5F	"	149,864	978	17	35
				(Opr. YV5CLM)	
4M5Y	**7**	**206,388**	**851**	**20**	**64**
YV5FGL	"	119,325	551	17	58
YV5MRR	**3.8**	**88,507**	**468**	**16**	**51**

QRP

4M1G	**A**	**1,887,968**	**2109**	**82**	**246**
				(Opr. YV1CLM)	
ZX5A	**"**	**1,870,748**	**1731**	**97**	**276**
				(Opr. PY5TT)	
UA3DQH	**"**	**450,822**	**792**	**84**	**247**
TO1W	**"**	**439,872**	**652**	**85**	**263**
				(Opr. F1BEG)	
G4BUE	**"**	**341,130**	**638**	**61**	**213**
WA2UUK	**"**	**316,608**	**452**	**74**	**198**
WM4Z/5	**"**	**270,663**	**460**	**79**	**155**
JA6VZB	**"**	**267,729**	**442**	**77**	**154**
N4VYZ	**"**	**248,005**	**380**	**77**	**180**
IK1GKE	**"**	**236,062**	**468**	**73**	**189**
K5KLA	**"**	**214,320**	**345**	**68**	**167**
YU1KN	**"**	**189,104**	**478**	**55**	**168**
LY1DS	**"**	**178,860**	**503**	**58**	**162**
NY3Y	**"**	**173,712**	**370**	**66**	**165**
UA9SG	**"**	**171,666**	**390**	**54**	**144**
KB7VD	**"**	**163,410**	**314**	**72**	**123**
N3HHE	**"**	**127,957**	**255**	**61**	**138**
LZ1QJ	**"**	**117,782**	**406**	**34**	**145**
N9AW	**"**	**112,344**	**240**	**57**	**129**
OH5NHI	**"**	**101,850**	**330**	**47**	**128**
EA1GT	**"**	**74,820**	**276**	**43**	**102**
AA2U	"	59,616	163	47	97
UO4OF	**"**	**49,494**	**137**	**58**	**88**
VE6GK	**"**	**48,209**	**240**	**42**	**55**
YO4ROD	**"**	**33,561**	**211**	**28**	**71**
UB4IM	**"**	**31,866**	**150**	**37**	**76**
UV3DCR	"	27,100	198	26	74
UA1NDV	"	27,300	196	24	76

G3PRI	"	20,097	154	20	67
KA4EMR /9	"	18,444	88	33	54
EA3BHK	"	16,560	64	32	58
WD8QJC	"	12,835	67	34	51
LZ2HM	"	10,703	87	19	58
UZ3DM	"	7,381	82	19	42
Y25MN	"	6,615	101	12	37
DL4GBR	"	3,696	63	17	27
N8AXA	"	2,820	47	23	37
OH6MIL	"	1,085	22	12	19
EA1DVY	"	210	9	6	9
JA1MYW	**28**	**62,900**	**273**	**25**	**60**
KA8NRC	"	**49,005**	**176**	"	**79**
SP4GFG	"	**36,450**	**175**	**17**	**73**
UB5DEI	"	**35,844**	**166**	**24**	**63**
IV3ORB	"	**26,960**	**141**	**23**	**57**
WB8IWG /3	"	**24,168**	**129**	**22**	**54**
AK5E	"	**18,620**	**74**	**27**	**71**
N7RWH	"	9,408	78	18	31
I3MDU	"	8,845	52	18	43
VE7EKS	"	7,644	126	14	14
NL7QT	"	6,085	104	11	15
SP4TBM	"	1,034	18	7	15
LZ2EW	**21**	**148,925**	**676**	**28**	**87**
RW9AB	"	**100,697**	**407**	**24**	**77**
K7GEX	"	**89,870**	**290**	**28**	**82**
W1QK	"	**71,373**	**233**	**23**	**88**
W5VGX	"	**66,810**	**246**	**28**	**74**
JH8BUK/1	"	**60,775**	**272**	**27**	**58**
UB5ZHQ	"	**54,720**	**254**	**25**	**71**
JO1SVX	"	**53,508**	**249**	**27**	**51**
DU1CHD/6	"	**45,892**	**220**	**24**	**53**
YT1T	"	**21,266**	**213**	**11**	**51**
UV3DMZ	"	9,454	81	15	43
JQ1MTQ	"	4,752	56	15	21
I3DGF	"	2,100	43	8	22
ON4ARJ	"	1,265	39	7	16
JA2JSF	**14**	**43,032**	**192**	**28**	**60**
VE6SH	"	**25,984**	**210**	**20**	**38**
KA1UJ	"	**25,280**	**132**	**23**	**56**
RV3DS	"	**14,212**	**128**	**17**	**51**
OK2BAT	"	**10,340**	**105**	**15**	**40**
W8QZA/6	"	**10,203**	**68**	**22**	**35**
EA2BTO	"	**10,192**	**125**	**11**	**45**
WA2ASQ	"	9,342	67	16	38
SM1CNS	"	2,835	39	13	22
Y04CBT	"	1,404	25	"	22
Y23TL	**7**	**1,551**	**40**	**7**	**26**
Y05BQ	"	609	29	5	16
UB5NBJ	**1.8**	**2,356**	**67**	**5**	**29**
UO50QK	"	1,008	51	5	16

SINGLE OP ASSISTED
NORTH AMERICA
UNITED STATES

KC1XX	**A**	**2,555,944**	**1394**	**146**	**521**
W1RR	"	**2,432,073**	**1382**	**139**	**508**
AK1A	"	**2,302,488**	**1433**	**128**	**438**
K1KP	"	1,629,976	1141	118	418
K1IU	"	1,566,856	936	133	475
AG1C	"	1,423,975	953	131	422
KC1F	"	1,080,432	803	121	367
N1TZ	"	722,176	603	117	331
KC8FE/1	"	693,664	633	107	302
KS9Z/1	"	599,076	566	99	288
WA1IML	"	586,186	601	93	276
K1HMO	"	515,214	497	89	289
WA1N	"	494,840	509	94	262
WJ1D	"	489,944	493	84	280
KA1UTU	"	487,560	465	109	299
KT1O	"	454,553	517	89	252
W1BIH	"	253,062	308	89	217
WA1G	"	244,881	354	84	189
N1EZC	"	225,120	348	61	179
W1AX	"	148,741	246	66	157
N4DW	"	114,323	214	69	140
KA1JFP	"	50,336	134	46	97
K1SF	"	31,472	106	32	80
N1EPU	"	26,985	101	37	68
WS1O	"	1,581	30	12	19
K2SX/1	**28**	**252,450**	**619**	**32**	**133**
K1BG	**3.8**	**13,668**	**79**	**17**	**50**
K1ZM	**A**	**3,978,942**	**1951**	**170**	**552**
N2MM	"	**1,915,544**	**1206**	**145**	**451**
AA2DU	"	**1,775,500**	**1271**	**122**	**408**
WB2K	"	1,640,912	985	144	493
WB2P	"	1,504,304	887	142	489
K2WK	"	1,205,054	953	119	342
KF2U	"	869,284	707	115	343
KD2YP	"	586,575	560	102	293
WB2AOH	"	565,616	581	90	278
NS2K	"	552,968	620	86	252
KF2O	"	532,704	559	92	266
N2QQS	"	383,328	405	99	264
N2AIF	"	381,643	431	92	239
KE2VB	"	371,228	489	76	210
WB2TPS	"	278,768	344	85	219
KQ2U	"	275,065	367	80	191
KA2HTU	"	187,440	298	75	165
KB2XL	"	139,230	219	76	162
WB2KCI	"	108,400	210	67	133
NK2D	"	81,832	174	68	125
W2GMA	"	21,939	90	35	68
WA2QNW	**21**	**371,348**	**757**	**35**	**137**
K2LE	"	280,034	617	36	127
W1BWS/2	"	260,432	560	32	132
N2UN	**14**	**37,248**	**141**	**27**	**70**
K3WW	**A**	**2,610,960**	**1420**	**154**	**534**
N3RR	"	**1,411,500**	**898**	**141**	**468**
K3ZA	"	1,346,664	941	122	404
AA3B	"	1,145,664	909	112	356
K3ND	"	1,142,400	810	126	399
W3FV	"	1,081,256	825	123	361
KZ3H	"	888,000	703	124	356
NK3U	"	805,234	662	107	350
N3II	"	805,108	698	105	326
N3EC	"	733,451	595	109	352
KY3N	"	651,420	582	111	309
K3RL	"	539,378	489	106	307
W3IOS	"	530,198	547	91	267
K3FW	"	525,504	530	92	276
AD8J/3	"	439,449	505	91	230
N3UN	"	385,330	419	100	241
W3KV	"	317,550	410	86	204
W3NX	"	305,801	379	91	222
KE3Q	"	252,756	319	85	221
W3EVW	"	245,291	341	78	169
W3AZ	"	234,752	345	72	184
W2UP	"	232,029	342	78	183
K3TLP	"	211,092	278	89	205
K7UPJ/3	"	207,315	299	82	189
N3HIH	"	173,800	313	64	156
KQ3F	"	136,680	257	54	147
N5AHS	"	134,656	200	80	176
N3NA	"	101,016	204	50	134
WR3L	**21**	**38,190**	**151**	**23**	**72**
N4RJ	**A**	**4,005,762**	**2154**	**151**	**511**
			(Opr. KM9P)		
N4WW	"	**2,507,618**	**1657**	**136**	**402**
			(Opr. WA6DGX)		
W3HHG/4	"	1,229,490	801	133	437
N4AA	"	904,737	781	109	314
W4CVX	"	710,235	632	116	303
WA4DPU	"	586,891	533	126	311
W1UA	"	586,432	571	108	284
K4UTE	"	536,775	480	118	303
KF4CI	"	412,778	465	102	244
WR4K	"	403,992	406	100	262
KN4PE	"	350,448	406	97	239
NQ1W	"	347,116	422	91	217
KU8C	"	304,875	404	77	194
N8AXY	"	228,995	322	78	193
K4ADK	"	120,240	190	82	158
AA4DO	"	110,526	201	76	142
K4PR	"	108,924	234	56	118
N4KW	"	105,072	234	46	130
K4PIC	"	102,834	235	53	121
K4GJD	"	97,600	187	60	140
N3RC	"	90,644	201	53	119
KW4AZ	"	66,493	150	65	96
WB4LJP	"	62,560	141	60	110
W4LRE	"	50,184	156	40	83
K4CEF	"	35,423	114	40	83
AA4VN	"	17,584	157	38	74
KJ4VQ	"	13,940	63	33	52
N4XMX	"	13,158	59	33	53
WA4OEJ	"	1,050	17	10	15
K3SW	**28**	**185,650**	**429**	**31**	**127**
WA4CUG	"	101,213	288	31	102
KB8DB	"	43,648	125	31	97
KØLUZ/4	**21**	**335,340**	**590**	**34**	**128**
N4HDH	**7**	**25,988**	**109**	**27**	**62**
W5KFT	**A**	**1,467,501**	**1192**	**128**	**319**
WB2ULI /5	"	931,732	786	123	313
N5NMX	"	867,000	770	121	304
N5NMY	"	268,939	411	75	178
WA5CMI	"	251,625	361	85	190
WØVX	"	168,054	293	71	151
K5LP	"	145,345	259	68	137
N5OUE	"	117,789	221	64	149
K5EWJ	"	93,215	202	61	120
K5KR	"	50,055	148	46	95
WB5SSD	"	39,840	126	38	82
N5GGO	"	38,760	126	39	81
W5VBX	"	29,998	112	38	68
KI3L/5	"	14,823	69	30	51
W5PWG	**28**	**35,420**	**153**	**25**	**67**
NA4M/5	**21**	**154,960**	**440**	**32**	**98**
WK6V	**A**	**703,656**	**766**	**109**	**239**
N6MB	"	684,926	661	110	272
N6CCL	"	523,896	621	98	234
N6ST	"	420,699	468	93	246
N6OU	"	344,814	444	96	207
AA6JJ	"	257,546	365	94	209
WW6I	"	247,320	397	72	157
WX6G	"	200,466	338	87	172
N6VI	"	111,780	209	70	137
N6SRT	"	92,862	230	57	97
N6XI	"	79,218	186	54	109
WA8LLY /6	"	54,568	138	58	94
KC6ZWB	"	14,824	90	29	39
N7AVK	A	2,122,815	1924	132	279
KI3V/7	"	818,320	827	117	269
AA7KE	"	251,988	368	76	177
N7KA	"	207,648	310	80	172
N7KZN	"	178,718	335	72	121
KF7YP	"	141,939	300	69	120
KI7Y	"	128,412	270	65	108
AA7EA	"	75,522	172	61	97
K8MR	**A**	**1,034,150**	**797**	**121**	**360**
KB8S	"	885,918	767	112	321
WB8VPA	"	861,540	653	130	368
N8BJQ	"	677,668	662	100	282
N8JQX	"	358,660	443	90	226
WB8PHI	"	351,780	508	81	205
K8CX	"	271,836	319	98	226
K8CLA	"	247,480	356	72	197
W4FSJ/8	"	223,390	337	69	182
K8BL	"	183,300	290	84	176
WD9INF	"	161,680	272	76	159
WD8LLD	"	58,616	200	40	94
AA8BB	"	51,012	147	59	97
WD8AUB	"	24,035	89	40	75
WR8K	"	15,925	100	18	47
NG8D	**21**	**343,278**	**810**	**36**	**126**
W8LU	**7**	**48,552**	**195**	**25**	**77**
W8WE	"	15,510	94	18	48
KK9V	**A**	**1,373,130**	**1054**	**128**	**367**
WB9TIY	"	758,520	683	122	298
K9SD	"	626,452	599	113	285
NE9U	"	569,217	589	103	264
K9EC	"	540,688	545	103	272
WW9L	"	538,470	542	116	270
WD9GIG	"	395,528	387	110	282
KB9CRY	"	308,060	405	85	207
WU9B	"	112,572	257	96	116
K9JS	"	85,808	187	52	121
N9AKE	"	60,345	153	49	100
N9XX	"	34,086	121	40	74
N4CC/9	**28**	**260,176**	**602**	**33**	**128**
W9XT	"	212,107	535	33	124
WI9H	**14**	**131,723**	**305**	**35**	**122**
WD9GGY	"	5,969	54	16	31
WA8SWM /8	"	**966,276**	**967**	**106**	**283**
WØMJN	"	368,750	474	83	212
WØSR	"	318,288	401	91	213
NZØV	"	317,241	408	93	210
KG5EG	"	180,671	265	81	176
KØNR	"	157,781	284	73	156
NFØN	"	144,690	254	62	148
NØAT	"	138,381	219	75	164
K1ER/8	"	120,458	213	82	144
KB8GII	"	63,040	152	50	110
WA8CHW	**28**	**268,995**	**476**	**64**	**163**
WJØD	"	118,690	346	30	100

CANADA

VE3VET	**A**	**54,946**	**138**	**58**	**108**
VE7DR	**A**	**231,428**	**514**	**66**	**122**
VE7VR	"	170,562	305	80	137
VE7IRA	"	127,577	514	43	70

BARBADOS

8P6SH/J6	**A**	**53,924**	**364**	**23**	**45**

ASIA
JAPAN

JH1UUT	**A**	**347,164**	**555**	**83**	**146**
JJ1AE8	**28**	**82,026**	**312**	**28**	**70**
JH1DWM	**21**	**722,813**	**1475**	**37**	**132**
JK2VOC	**A**	**44,820**	**212**	**44**	**64**
JE2IFM	**28**	**123,200**	**408**	**33**	**79**
JA2DLM	**3.8**	**5,143**	**67**	**14**	**23**
TL1GVV/8	**A**	**1,232,323**	**1280**	**113**	**240**
JA8LHU	"A	9,315	51	29	40

EUROPE
AUSTRIA

OE1TKW	A	2,350	30	20	27

BELGIUM

ON4UN	**A**	**1,512,252**	**1111**	**139**	**473**
ON4AMI	**21**	**291,984**	**802**	**34**	**120**

FINLAND

OH1MIE	**28**	**217,828**	**693**	**36**	**106**

FRANCE

F6AOJ	**A**	**1,320,170**	**1105**	**121**	**452**
F6FGZ	"	1,038,710	1091	106	325
TM1F	"	723,168	1121	98	274
			(Opr FD1OZF)		

GERMANY

DJ2YA	**A**	**1,478,556**	**1024**	**134**	**479**
DF3CB	"	**1,254,396**	**1048**	**125**	**447**
DF4RD	"	1,043,358	797	127	452
DL8LA	"	797,090	919	107	306
			(Opr. DL6RDR)		
DJ5BV	"	595,856	675	105	341
DF2LH	"	397,872	622	90	234
DL4NN	"	312,018	520	83	239
DJ3WE	"	257,278	369	85	244
DF2RG	"	213,212	267	92	210
DL1MFL	"	210,168	519	61	191
DL8HCO	"	141,559	364	54	133
DA2UI	"	118,206	403	49	149
DJ9MH	"	82,000	270	54	146
DK8FD	"	14,245	75	26	51

ITALY

IR8A	**A**	**2,719,656**	**2002**	**140**	**508**
			(Opr. I8CZW)		
IQ2A	"	993,750	914	121	409
			(Opr. I2JIY)		
I2SVA	"	971,848	968	114	358
IK2PZC	"	242,248	380	76	207
IK6DLK	"	227,136	310	99	237
IØMOM	"	169,763	314	76	177
I2LVN	14	4,675	42	15	40

NORWAY

LA9VDA	**A**	**339,888**	**583**	**75**	**216**

SWEDEN

SM5IMO	**A**	**1,103,220**	**1136**	**121**	**365**
SM6GOR	"	7,314	50	26	43

UKRAINE

UT2L	**A**	**1,768,947**	**1825**	**119**	**360**

OCEANIA
NEW CALEDONIA

FK /JH1QVW	**A**	**538,670**	**1130**	**66**	**100**

MULTI-OPERATOR
SINGLE TRANSMITTER
NORTH AMERICA
UNITED STATES

K1YR	**4,792,752**	**2406**	**153**	**594**
KB1H	2,852,044	1630	150	526
K1VR	2,808,276	1539	148	530
KZ1M	2,437,871	1525	132	457
W1BK	1,011,496	784	119	353
WT1L	911,996	831	132	329
KA1GG	792,000	722	110	286
AK1L	361,746	422	84	235
WA1C	302,768	451	67	187
WN1G	224,532	359	68	175
W1XN	91,504	201	56	116
NF2L	**4,665,276**	**2282**	**157**	**599**
K5NA	**4,062,062**	**1997**	**154**	**593**
W2HPF	3,093,460	1668	149	536
N2NU	2,512,948	1408	144	503
K2SG	2,276,712	1376	140	478
W2RR	1,482,048	982	136	422
WA2MKM	1,131,696	922	113	351
K2OWE	1,048,312	828	123	349
W2UP	336,336	424	82	226
WM2V	320,059	442	76	205
KE2WE	159,644	294	58	156
WK2N	120,908	264	58	123
K3LR	**5,512,429**	**2598**	**166**	**601**
N3RS	**4,572,087**	**2147**	**162**	**605**
W3XU	3,685,500	1931	152	550
WB3FIZ	2,275,620	1439	129	453
NN3Q	2,106,038	1199	145	493
K3YL	1,762,590	1150	138	477
K3ANS	1,339,770	986	137	418
K3IVO	1,035,333	829	122	360
WA2C/3	1,003,000	872	111	314
K3DI	587,846	547	103	295
KD3TB	224,536	366	73	181
KA3PLX	75,036	194	49	107
W4AQL	**1,486,428**	**990**	**143**	**439**
W4PRO	1,362,422	921	131	426
WB4PRX	1,021,383	778	139	374
WB4OSS	990,040	801	121	346
K4MF	546,272	579	91	253
KF4FL	535,624	623	83	245
N4UWS	445,785	523	99	240
W4NC	432,608	489	98	254
AA4LH	288,097	427	75	182
N4REE	239,950	337	86	189
W5WMU	**3,197,400**	**1958**	**139**	**461**
N5RZ	2,957,626	1862	142	136
KA5W	2,320,731	1489	143	424
KC5DX	1,483,482	1514	114	285
AA5ZX	645,758	733	108	246
WT5U	382,899	518	84	199
K5QBM	47,460	130	51	89
KI5PA	7,424	56	25	33
W6QHS	**4,239,284**	**2561**	**155**	**447**
W6GO	3,777,566	2421	154	444
N6AW	2,134,809	1658	133	326
WA6IET	1,533,630	1533	112	290
KI6X	1,337,031	1055	135	342
AG6O	1,332,465	1254	129	292
W6YX	1,164,932	1213	114	244
KZ6X	836,055	1015	103	194
WX7P	822,825	1152	94	171
KE6WL	439,824	565	93	201
W6EEN	409,165	593	93	202
WZ9J	199,836	302	89	163
NK7U	**2,682,056**	**1824**	**154**	**379**
NO7F	541,551	694	99	192
WA6NKQ	450,172	665	90	178
WB8IFP	**1,373,904**	**1114**	**131**	**333**
WA6OSE	945,594	814	121	328
KN8Z	794,319	674	123	224
WM8W	259,056	327	69	188
K8UCN	88,920	197	52	119
KS9K	**2,886,078**	**1569**	**154**	**527**
NJ9C	883,311	820	109	320
W9XZ	546,304	545	109	279
KE9QT	107,445	237	65	130
W9HOQ	73,935	195	54	101
K9LA	29,832	126	27	61
AA6TT/8	**4,111,440**	**2593**	**160**	**432**
WØCP	2,383,700	1638	140	410
NQ8I	2,150,694	1422	138	408
NØZA	2,035,104	1614	142	351
KFØH	1,155,824	942	125	339
KRØB	916,398	793	120	321
NØBNG	888,060	879	112	298
KØEJ	316,944	437	90	189
WAØROI	205,740	306	78	176
AAØA	157,131	272	78	159

ALASKA

NL7UT	**1,071,213**	**2200**	**90**	**137**

BAHAMAS ISLANDS

C6AFQ	**7,927,731**	**6510**	**127**	**410**

BARBADOS

8P9Z	**15,929,221**	**8712**	**149**	**582**

BELIZE

V31DX	**7,377,489**	**5435**	**118**	**323**
V3*ZR	5,525,908	5893	109	319
V3*X	3,439,100	4667	100	250

BERMUDA

VP9MN	**1,175,941**	**1780**	**81**	**232**

CANADA

VE2UMS	**2,390,166**	**3554**	**87**	**219**
WD4KXB /VE2	1,914,528	2963	89	219
WØMHK /VE2	283,716	1275	40	71
VE3EJ	**8,544,140**	**4740**	**172**	**609**
VE5FX	**1,448,244**	**2368**	**95**	**199**
VE5NN	237,165	699	56	107
VE6JY	**3,051,454**	**3241**	**116**	**318**
VE6WP	1,193,977	1939	94	189
VE6AO	274,095	906	62	86
CK7C	**4,984,650**	**4585**	**134**	**341**

CAYMAN ISLANDS

ZF8AA	**10,238,750**	**7101**	**140**	**485**
ZF2JI	7,225,065	6809	129	362

GRENADA

J37H	**8,066,925**	**6554**	**137**	**418**

GUATEMALA

TG9 /IT9SAZ	**858,041**	**953**	**84**	**205**

MEXICO

6D2X	**10,872,835**	**7305**	**157**	**490**
XE1/NV1P	3,469,564	4093	113	281
4A2MX	2,807,015	4717	105	164
6I2A	2,698,360	3910	99	223

TURKS AND CAICOS ISLANDS

VP5X	**3,718,580**	**5122**	**99**	**241**

U.S. VIRGIN ISLANDS

NP2N	**1,072,632**	**2520**	**62**	**142**

AFRICA
CUETA AND MELILLA

EA9LZ	**9,869,896**	**5346**	**134**	**488**

LESOTHO

ZS4NS /7P8	**870,058**	**1439**	**68**	**135**

MADIERAS ISLANDS

CR3M	**10,222,064**	**5797**	**132**	**460**

ASIA
PEOPLES REP. OF CHINA

BY1PK	**3,828,990**	**4073**	**116**	**294**
BY4AA	1,158,296	2259	97	171

CYPRUS

5B4BCC	**10,221,120**	**5592**	**134**	**490**
534ES	2,508,350	2647	77	248

HONG KONG

VS6WO	**5,393,146**	**5134**	**132**	**341**

IRAQ

YI1RJ	60,480	382	10	44

ISRAEL

4Z7M	7,167,192	4670	119	404

JAPAN

JA1YKX	656,058	728	116	222
JA1YBH	385,133	583	92	167
JA1YFG	258,800	471	75	125
JA3YKC	2,022,436	1679	132	305
JA3ZKK	1,329,988	1437	103	231
JH5ZCP	2,247,840	1925	134	286
JE6ZIH	2,809,896	2314	130	296
JF6YPU	143,520	345	57	99
JA7YAA	3,548,665	2507	144	359
JH8YCT	1,432,786	1620	117	229
JA0YAK	1,349,052	1280	122	267
JA0ZRY	120,246	317	52	95

KOREA

D73DX	2,471,760	3654	110	250
HL9HH	2,295,549	2598	112	256

MONGOLIA

JT1J	1,035,000	3023	67	158
JT1[illegible]	397,710	1423	54	108

SAUDI ARABIA

HZ1AB	2,282,725	3542	105	320

TURKEY

TA4/K6KH	154,935	537	28	71

USSR

ASIATIC RUSSIA

UZ9CZO	650,292	848	73	209
UZ9YXI	402,776	894	56	128
UZ9XWV	14,415	63	39	54
UZ0CXO	813,054	1756	85	169

KAZAKHISTAN

RL8DWW	786,065	1342	82	177

EUROPE

ALBANIA

ZA1ZJ	2,608,400	3175	102	298

AUSTRIA

OE2XEL	3,421,696	2519	140	516
OE1XTU	1,858,729	1805	123	404
OE3XCW	955,686	1055	104	343
OE5XVL	607,320	856	89	271

AZORES ISLANDS

CU2BT	5,341,548	4372	123	375

BELGIUM

ON6NL	3,284,820	2624	137	457
ON7UN	2,183,688	2074	116	380
ON6AH	1,854,640	1946	118	374
OR5EEC	790,272	1170	99	293

BULGARIA

LZ9A	8,864,650	4981	185	665
LZ1KNP	570,130	900	92	263
LZ1KBB	115,984	321	65	176

CZECHOSLOVAKIA

OK5W	5,498,986	3133	160	601
OK3KAP	1,755,964	1664	125	402
OK3KAG	1,106,430	1343	97	293
OK2KDS	480,128	790	80	261
OK2KET	250,480	773	57	191
OK1KQJ	189,189	502	53	178
OK2KMR	115,630	460	40	115
OK3KUN	65,140	395	39	126
OK3KXR	61,600	202	47	128
OK2KOD	56,672	148	58	90
OK1DFM	45,066	156	52	117

DENMARK

OZ1ADL	1,386,081	1560	109	348
OZ6ARC	168,567	506	47	114
OZ1TRO	90,862	351	36	145
OZ4HAM	61,880	282	44	126

ENGLAND

G4PKP	1,320,894	1648	87	314
G0CCH	735,345	1119	82	269
G4FJE/P	585,795	1037	73	172

FINLAND

OH5NQ	5,255,939	3522	152	499
OH4JK	2,241,258	2217	114	333
OH7AAC	886,025	1182	103	312

FRANCE

FV7A	7,564,217	4690	145	568
TO7C	7,076,538	5068	131	451
F1B	4,029,340	3489	119	357
FF1PBT	1,266,473	1485	115	366
F6IUI	357,102	586	83	223
F1MAA	169,418	396	67	187

GERMANY

Y34K	5,896,550	3458	162	593
DL8OH	5,375,030	3267	148	546
DL0WH	1,761,744	1704	131	447
DF0AT	1,756,864	1560	130	436
DF0RR	1,437,712	1536	117	355
DA2FCX	1,252,904	1799	97	301
Y24YH	1,038,972	1237	106	357
DL0SSB	619,272	907	91	285
DK0PF	390,216	709	78	206
DL0JN	303,312	615	71	213
DL0ER	258,375	555	75	190

GUERNSEY ISLAND

GU /DL8NBE	1,077,138	2058	82	284

HUNGARY

HG1S	3,450,492	3188	124	392
HA8KCK	2,029,580	2031	111	379
HA3KNA	1,085,279	2445	96	307
HA2KMR	352,377	814	78	201
HA5KTT	117,183	369	53	148

IRELAND

EI7M	5,539,824	4559	113	414

ITALY

IQ4A	12,424,195	5688	178	753
I4AUM	3,336,718	2947	118	399
IY8X	2,278,164	2434	116	402
IC8OGS	1,833,858	2320	103	339
IK2OFR	1,406,347	1347	122	401
I0LYO	699,705	956	94	277
I6CH	563,625	789	65	290
IK6NHT	474,513	983	61	218
IK3OGK	176,595	400	61	151
I3JRF/IL3	165,200	397	66	170
IK2ODI	72,556	220	49	138
IV3VFP	71,020	277	29	77

LITHUANIA

LY1BZB	192,256	460	69	187

LUXEMBOURG

LX6A	2,472,225	2691	130	465

THE NETHERLANDS

PI4COM	2,508,649	2308	131	452
PI4TUE	1,190,400	1217	114	351

POLAND

SP3PLD	179,902	276	80	213
SP9ZHR	25,877	128	37	76

SCOTLAND

GM3WOJ	244,713	822	27	102

SPAIN

ED3MM	4,016,840	3614	126	422
ED4UPM	1,881,607	2491	100	303
EA2RCF	1,601,215	2112	90	295
ED1WWE	991,515	1148	77	278
EA3GCT	562,604	920	74	209

SWEDEN

SK0UX	1,679,956	1841	111	397
SL0CB	1,334,250	2965	109	341
SK3IK	1,027,702	1320	95	283
SK0MK	616,065	1129	64	251
SK3WB	474,210	941	77	253
SK0HB	187,165	457	61	142
SL5ZYB	20,655	103	31	54

SWITZERLAND

HE7H	3,767,454	3188	146	476
HB9IA	485,471	747	82	229

USSR

BYELORUSSIA

UC1CWB	970,320	1401	90	300

EUROPEAN RUSSIA

RZ1A	3,982,666	3253	148	474
UZ1TWC	674,241	1040	89	290
UZ1AWO	20,907	139	26	75
UZ3OXW	1,463,340	1979	188	327
UZ3AWO	945,566	1152	120	301
UZ3AXX	203,514	537	62	152
UK4W	1,903,616	1837	128	384
UZ4PWW	1,657,625	2082	115	330
UZ4WWA	1,369,257	1453	96	317
RZ6AXO	1,589,992	1928	124	342
UZ6LWB	677,092	923	100	277

KALININGRAD DISTRICT

UW2F	5,097,111	3729	145	524

KARELIA

UZ1NWP	10,184	113	19	57

MOLDAVIA

UO0Z	4,340,364	4348	141	511
UO4OXU	251,554	630	68	176

UKRAINE

RY1U	9,987,465	6088	177	645
U33IWA	3,544,605	2696	150	531
RY0O	3,016,080	3052	132	457
U34WZA	2,152,590	1771	136	469

WALES

GW8GT	6,564,178	4736	138	484

YUGOSLAVIA

YZ4Z	4,198,305	3067	141	504
4N4U	857,631	1249	94	287

OCEANIA

AUSTRALIA

VK1DX	2,434,244	2879	91	202
VK6OD	862,068	1479	70	129

BRUNEI

V85HG	8,420,088	5875	144	348

GUAM

KH2S	11,095,392	7086	145	387

HAWAII

KH6GMP	2,314,026	2786	100	186

INDONESIA

YB0ASC	2,008,958	2136	80	242

PHILIPPINES

DX1DBT	2,106,312	2330	100	212
DX3[illegible]	1,155,168	1786	88	136

WAKE ISLAND

WE5I/KH9	4,134,936	4529	109	217

SOUTH AMERICA

ARGENTINA

L6D	6,250,984	4061	134	392

ARUBA

P40T	18,997,200	9472	149	526

BRAZIL

PT7F	5,452,188	3298	134	430
PS43	3,397,229	2891	105	302
ZW0JR	3,000,664	2738	114	264
PY2[illegible]	380,341	640	66	155

CHILE

CE2AA	2,739,529	2627	113	246
XQ3PA	900,788	1812	74	138

COLOMBIA

5K6CQ	4,783,347	4610	87	282

NETHERLAND ANTILLES

PJ1B	21,214,809	9460	162	597

FERNANDO DE NORONHA

PP0F	4,727,912	4087	95	297

VENEZUELA

YV5NCJ	2,125,035	2696	71	194
4M3U	1,809,946	2288	94	254

MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA

UNITED STATES

K1ST	10,204,000	4846	169	631
KY1H	6,050,096	3179	161	593
WM1K	1,429,956	1030	116	390
N2RM	12,888,500	5455	173	692
K2TR	8,606,163	3965	180	671
NF2L	4,665,276	2282	157	599
K2TD	1,298,715	861	126	435
W3LPL	12,409,592	4954	181	703
WA3NAN	386,971	536	76	213
NO4I	5,492,631	3089	158	565
N5AU	8,042,232	5135	166	577
N6ND	6,697,080	3601	172	517
W7XR	9,818,865	4925	183	552
K8CC	5,603,837	3295	166	573
W8AIH	4,275,191	1742	149	504
K0CS	2,059,988	1431	144	412

ALASKA

KL7Y	7,482,840	6237	141	350
KL7RA	7,173,120	6467	134	333

BERMUDA

VP9AD	28,086,030	15,029	166	652

CANADA

VC1DX	15,458,874	10,486	155	532
VE7ZZZ	5,541,855	5515	129	324

MEXICO

XE2MOO	1,561,148	3195	84	155

ST. VINCENT

J88D	14,689,532	11,063	129	443

ASIA

JAPAN

JA1YXP	4,025,550	3084	139	331
JE2YRD	7,232,400	4397	157	431
JA7YRR	4,414,896	3173	145	351

TURKEY

TA3KC	11,512,452	6863	131	457

TURKOMAN

RH2E	15,223,780	8184	158	557

EUROPE

ALBANIA

ZA0RS	18,877,416	12,260	179	727

BELGIUM

ON7LR	4,695,789	3649	148	571

ENGLAND

G0KPW	12,139,792	7033	169	687

EUROPEAN RUSSIA

R6L	10,660,857	6448	172	655

GERMANY

DF3QG	1,071,138	1134	115	386

ITALY

IZ3A	17,660,068	9349	175	723

ITU VIENNA

4U1VIC	7,204,290	6453	141	549

LICHTENSTEIN

HB0/HB9AON	4,078,735	3700	112	453

LITHUANIA

LY2ZO	4,777,871	3944	145	533

LUXEMBOURG

LX9CE	38,800	316	28	72

NORWAY

LA1W	2,604	26	17	25

POLAND

SN6F	1,826,721	2247	118	389

SPAIN

EA1WA	577,608	769	85	243

UKRAINE

UR5M	12,567,996	8355	164	578

YUGOSLAVIA

4N31A	10,466,667	6516	168	633
YU3C	22,748	187	19	75

OCEANIA

MARIANAS ISLANDS

KH0AM	25,084,536	12795	171	496

NEW ZEALAND

ZM2K	8,683,565	6387	132	331

PHILIPPINES

DX1DBF	2,189,268	2330	101	223

SOUTH AMERICA

ARGENTINA

LU4FM	18,747,378	9410	162	516

NETHERLAND ANTILLES

†PJ9W	43,970,319	17585	176	675

†These logs were received after the deadline and a reasonable extension grace period. They are included in the results for completeness, but are not eligble for awards.

Disqualifications: Unverifiable QSOs and duplicates—4Z4DX.

CHECK LOGS

Our thanks to the following stations who sent in check logs: 4K3ZZZ, 4X/AA4KO, CM2GG, CP1OX, CT1DJE, CX2PI, DK0CT, DL0PE/P, DL2RMS, DL5OAJ, DL6LZM, DU1SAG, EA1AFZ, EA1CVZ, EA1EK, EA1FAC, EA1KW, EA2BOT, EA3CVI, EA3CYM, EA3DU, EA4AFI, EA4CP, EA4EBE, EA4EER, EA5BK, EA5BPC, EA5DVL, EA5EAN, EA5GKE, EA5GKE, EA5RJ, EA5TD, EA5XP, EA7BB, EA7BQ, EA7EFE, EA7GBD, EA7GQ, EA7HAV, EA8BUG, EA8BYQ, EC1DCN, EC1DFI, EC4DAC, ED5WDS, F6GQS, FD1OGC, FG0P, G/OZ7SM, HK3DDD, HK7MQC, HV0HH, I1ZGD, I7ALE, IK0ADY, IK0HTM, IQ0KHP, JA1JLP, JA7AQR, JR1XKU, K3IXD, KB2JQB, KE2ZS, KO4BB, KX7J, LA1EBA, LA2DDA, LA2IZ, LA2JX, LA2PC, LA2UA, LA4BN, LA4GY, LA4WJ, LA5RB, LA5XAA, LA7AT, LA7ZN, LA8IM, LA8LA, LA9HF, LA9LC, LA9NM, LA9PHA, LA9UJ, LA9WDA, LU5EW, LY2BAG, LZ2AT, LZ2LE, LZ2RS, LZ2SD, LZ3AB, LZ3BS, N1HKH, N2LCT, N2LDG, N2MAU, N3AHS, N3JME, NL-7320-R28, OD5EH, OH3RO, OH3XA, OH5LBR, OH5NCG, OK1AD, OK1DXW, OK1MDY, ON6CQ, OZ1FNX, OZ2RH, OZ5EI, OZ7GS, OZ8ABE, PA0TV, PA2SWL, PT2NP, PY1AJK, PY3ACC, PY3BD, PY3CEM, PY3PAZ, RA1AI, RA1OAK, RA3DDU, RA3DPD, RA4DKI, RA4PIO, RA4PKL, RA4YM, RA6LNG, RA6WG, RA9SRV, RB4LWV, RB5GI, RB5NT, RB5TBS, RV6HF, SK6QW, SM0/LY2BVA, SM0BFJ, SM0BGM, SM0CSK/4, SM0DSS, SM2NTU, SM2PTR, SM4RRD, SM4SET, SM5BBS, SM5BDY, SM5WC, SM6AYV, SM6MVL, SM6NJK, SM7CNA, SM7EJ, SP2ERZ, SP2FAP, SP2FMN, SP2GUC, SP2IN, SP3MYS, SP3RNF, SP4AS, SP4CPB, SP4GDC, SP4LVG, SP4LVH, SP5AUB, SP5BWO, SP5ENA, SP5ILO, SP5IWA, SP5MXY, SP5TZC, SP5ULH, SP6FVF, SP6HTQ, SP9BRP, SP9CLO, SP9DPA, SP9GDB, SP9JBX, SP9ODY, SP9PRO, SP9TCE, U0LS, UA0KD, UA1AKT, UA1CK, UA1NAW, UA3AAJ, UA3MIF, UA3SBJ, UA4HBN, UA4PAP, UA4PKN, UA4QK, UA6ED, UA9JFR, UA9OS, UA9SBP, UA9TK, UA9TX, UA9XK, UA0QBQ, UB4DWW, UB4EYT, UB4WWT, UB4WYC, UB4XWK, UB5DCD, UB5XAN, UB5XAW, UB5XED, UB5YEV, UF6OBA, UI8BAA, UL7PCZ, UO5ODC, UO5ODI, UT4UH, UV3CS, UV3DJB, UV3DN, UV3DRU, UV3DUF, UV6HFG, UW0CW, UW3HY, UW3RR, UW9SG, UW9UE, UW9YM, UZ1CXA, UZ3DYU, UZ3DZD, UZ3MWE, UZ4CZA, UZ6LN, UZ6LZZ, UZ9AWQ, UZ9CWZ, UZ9MXM, UZ9SWP, VE6AKY, VE6EDS, VE7ETY, W7HS, W9YOV, WB4RUA, WB8VNV, WR5Y, Y23HJ, Y28YN, Y37XJ, Y53YN, Y54WM, Y75YL, YB0WWL, YL2RP, YO2CJ, YO2LAH, YO6FGN, YO7CEG, YO85AA, YO8AII, YO8ROO, YV1EQW, YV4VN.