Results of The 1994 CQ World-Wide DX CW Contest

BY BOB COX*, K3EST

Planning does make for perfect. Ville, OH2MM, had planned his operation from EA8EA to go for the world all-band title. Operating from inside a converted water storage shed overlooking the Atlantic for 270 degrees, he keyed himself into the record books by winning a world championship at least once in each of three different decades! He first accomplished it as ZD3Z back in 1972—quite a great feat, Ville!

Venturing out on his first DX try at the top spot, Jeff, KRØY, operating at P4ØF, proudly claimed second place. Jeff also set a new CW QSO record of 6557 QSOs. Jose, CT1BOH, the SSB champion, rounded out the top three from the QTH of PYØFF.

There were three Asian stations in the top 10: H2ØA (Opr. 5B4ADA), A71CW (Opr. SP5EXA), and VS6WO (Opr. WX3N). Considering his distance from Europe and North America, Dave at VS6WO did an outstanding job getting those three pointers. Falling just outside the top 10 box at #11 was 9M8X (operated by OH2BH) and #12 Chris, ZS6EZ.

Congratulations to S59A, the top European score on both modes. You can sure tell that the sunspot minimum is hard upon us. Just like phone, the USA was often an afterthought on 10 and 15, especially from eastern Europe. One-sixty and 80 are now assuming more and more importance. Scores on CW were very tight with less than one million points separating first place from tenth place in Europe. The difference was often the number of 3 point QSOs and how error-free a log was submitted.

Second place went to YU7AV, Vojislav, operating from near the YO border. Ben, DL6RAI, carrying the flag of the Bavarian Contest Club, was third. Conditions were very strange, as seen by the fact that the highest European QSO totals were racked up by EMØF and UT2QT from the Ukraine.

A careful check of the top US logs revealed that the winner was Randy, K5ZD/1, over Bob, KQ2M, operating at KM1H. Out of 4931 QSOs only 11 QSOs and 2 multipliers separated the two stations. Wow! Randy's unique rate was very good, and he ended up as the USA all-band champion. Remember that the SSB top 10 had several non-east coasters. The conditions on CW were such that the top 10 guys stretched from Larry, N6AR, in Florida to KM1H in New Hampshire. The farthest west station was N6AR!

So how did the competitors do farther west (I mean really west)? K5MR led the pack, followed by KØRF and W9RE. Check out the new top scores in the active zone box for other worthy scores.

The top world score in the barefoot category went to 9X5EE operated by PA3DZN. Having 100 watts in Rwanda sure adds 10 dB to your signal. Working in war-torn Rwanda, he took time to hand out a rare multiplier. I think I can speak for everyone by saying, thanks for the rare one.

The world second-place, low power score was quite remarkable. Angel, EA7CEZ, operating with a KT34XA, Cushcraft 2-element 40 meter beam, a sloper on 80, and a LW on 160 took top European honors. But there is more to the story. He also was the top European score regardless of power! Of course we didn't believe it either, but a thorough check of his station and him proved that indeed he was the real thing. Being on the Iberian peninsula and having "spot-light" conditions allowed Angel to have an unprecedented result. Congratulations. Third place in the world went to J8ØC

QTH of PYØFF operated by Jose, CT1BOH, on the left.

Shown here is the ZF1A multi-single team. Left to right, front row, K9LA and K4UVT; back row, WA6VNR and W6OSP.

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BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

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

WORLD TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
EA8EA	130/14/50	729/30/78	1299/30/94	1592/33/95	1658/32/102	946/23/89
P40F	319/15/49	732/20/70	1408/27/94	1376/30/97	1732/32/99	994/26/79
PY0FF	231/13/47	585/18/62	723/26/81	1701/35/100	1558/29/101	1100/21/82
HC8N	157/12/22	658/22/66	1037/30/86	1475/34/97	1582/29/89	956/22/74
PZ5JR	67/8/15	422/24/48	789/28/94	1269/30/95	1627/27/92	936/24/74
H20A	183/11/53	434/19/69	945/29/94	951/26/88	1157/31/87	722/17/66
HC1OT	35/9/14	393/14/41	1296/25/79	1050/30/85	1387/27/87	623/21/63
A71CW	178/11/47	497/24/67	681/27/88	891/35/105	1257/30/93	271/25/67
VS6WO	157/20/32	417/24/57	973/30/81	1035/33/79	1404/34/33	570/25/64
HC8KU	9/7/7	309/16/30	754/21/48	1321/26/80	1529/22/58	743/19/53

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

I0A4	70/16/69	448/29/98	1446/37/137	1241/39/137	1205/38/132	140/31/103
NP4Z	113/12/22	486/19/68	1476/25/88	1191/35/100	1323/29/100	628/21/72
OT4T	328/16/83	937/32/108	965/38/136	918/37/133	805/38/137	164/29/106
LZ9A	196/18/74	267/27/98	1874/36/134	1214/38/135	1044/37/129	259/29/90
HZ1AB	63/11/42	695/18/65	1302/31/98	943/35/112	1015/29/96	60/22/39
OH2M	75/12/60	343/26/87	1087/38/113	1696/37/120	756/36/120	71/26/69

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

9G5AA	91/7/28	939/22/75	2105/30/104	3610/35/131	2995/32/120	1323/28/85
VP5VW	869/18/72	1616/25/92	2994/33/122	3375/38/122	2271/31/104	615/24/74
KH0AM	297/19/26	830/31/60	1986/37/112	2537/37/121	1998/38/109	790/31/65
HG73DX	876/21/86	1800/32/120	2121/39/140	2147/39/151	1581/39/143	443/28/103
9A1A	591/18/79	1530/31/105	2299/34/128	2225/38/138	1783/38/127	224/26/83
YK0A	328/10/46	1248/19/69	2111/28/95	1803/34/95	1439/23/71	422/18/48

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	97/13/43	265/18/64	627/31/104	823/34/108	614/23/77	45/13/34
KM1H	45/7/30	317/19/62	687/34/106	775/32/103	572/25/94	64/14/38
W1KM	35/10/29	401/23/78	599/28/101	674/29/100	457/22/76	38/14/30
N2NT	58/12/34	269/20/64	422/26/90	821/32/98	531/25/91	53/17/37
N4RJ	29/11/22	137/22/54	551/30/95	819/34/101	534/30/87	39/14/32
N2LT	46/12/30	165/15/54	447/32/99	893/37/111	385/23/84	31/12/26
N6BV/1	66/8/27	297/16/57	452/28/87	527/33/100	64/22/83	47/9/24
K3ZO	19/7/15	228/20/67	458/37/102	725/36/94	441/24/89	25/7/14
W2SC	22/7/15	203/15/60	375/29/79	706/33/97	495/26/82	28/11/17
N6AR/4	50/13/35	171/25/69	360/32/103	384/35/108	357/29/92	68/20/44

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1AR	52/13/47	496/22/92	669/35/122	1245/39/142	591/27/114	71/19/69
N2NU	61/18/56	430/23/90	406/36/120	1057/39/139	569/33/118	64/19/63
KC1XX	61/13/48	501/20/83	596/33/113	920/38/125	619/29/114	76/19/63
N3RS	35/12/32	255/21/84	932/37/137	711/40/138	591/33/124	60/16/58
K1TR	28/9/27	365/20/81	505/33/115	897/39/132	577/28/104	60/19/59
K8AZ	45/17/44	156/20/72	595/37/122	1153/38/130	322/32/107	51/18/50

USA MULTI-OPERATOR MULTI-TRANSMITTER

W3LPL	117/20/66	544/26/99	1067/38/143	1539/39/152	707/35/132	222/23/74
N2RM	151/18/65	484/27/97	1114/36/132	1331/39/145	763/34/128	177/20/63
K1KI	150/12/52	453/21/84	925/35/132	1515/39/140	682/33/121	136/20/65
K3LR	186/17/59	342/24/88	996/37/128	1297/37/134	620/32/112	125/19/59
KY1H	197/14/56	476/21/87	383/33/107	1055/37/130	619/31/110	114/17/54
KY3N	60/16/41	276/24/88	568/35/123	977/38/139	484/33/117	79/18/49

operated by DL3KDV on a DXpedition for the BCC.

The second place in Europe slot went to EA5WU, who also put his EA location to advantage. Third place in Europe went to Franz, S59AA, who is always among the top scores and cooks a delicious fresh-water fish dinner.

Single op, all band, low power for the USA was won by Barry, W2UP/3. Barry fell into this category due to TVI problems, we all should have such "bad" luck! W1PH and K7GM/4 followed closely behind, taking second- and third-place spots. Also noteworthy was K2QMF, who despite having only 50% of the first-place QSOs, managed to have nearly the same (or more than) number of mults as the top three!

QRP

In the QRP category, TA4ZM (aka DK5WL) won for the world. Heinz-Josef found that moving from DL to TA enabled him to increase his score eight-fold, netting over 1600 QSOs with just a Buttnermut vertical and 5 watts. And thanks for the multiplier! Taking second-place world, and first-place USA (again) was perennial QRP winner Randy, AA2U. It is interesting that both Randy and Heinz-Josef each worked a total of 97 different countries, despite the ever-fading SFI. Even more interesting is the value of being a multiplier. Compare the TA4ZM score of 1.7 meg using a vertical with AA2U's second-place score of 486k using stacked KT34XA's at 90 and 38 feet, a 2-element 40 meter Yagi at 97 feet, and a full-sized 80 meter loop! Maybe we all should spend our funds having a fun vacation instead of laboring with hardware.

Assisted

The Single-Operator Unlimited category was won this year by John Crovelli, W2GD, operating at P40W in Aruba, with a new world record of over 10 million points. His score would only have been fifth in the world in the single-operator category, proving that the optimum use of packet spotting has not yet been found. Second place and first in the U.S. was Jeff, K1ZM, with 3.3 million. His score would have been fifth in the U.S. in the single-op category. Jeff was followed by OM3NA (top European scorer) with just under 3 million, which would have been sixth in Europe in the single-operator category.

The use of packet spotting assistance continues to spread worldwide, with a growing number of European entrants and even one from Hong Kong this year (VS6BG, top Asian scorer). However, it is clear from the log checking that many stations are assuming the callsign sent out on packet is correct. Many logs lost contacts (including some nice multipliers) by logging the callsign spotted on the packet system instead of the callsign sent by the station they have worked.

Multi-Single

In the fiercely competitive Multi-Single category, the world winner was the team from the mountain overlooking Bologna. Operating from inside a narrow cave, they outkeyed the second-place team of NP4Z. Felipe's crew consisted of three guys. What a great job! The Europeans take their multi-single seriously, as

Traveling down to HC, S53R (on the left) operated HC1OT (right).

TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND
World
EA8EA (Opr. Ville Hillesmaa, OH2MM)
Donor: Albert Kahn, K4FW W9ICP Memorial

World Low Power
9X5EE (Opr. Alex C.J. van Eijk, PA3DZN)
Donor: Slovenia Contest Club

World QRPp
TA4ZM (Opr. Heinz Josef Pick, DK5WL)
Donor: Gene Walsh, N2AA

World Single Operator Assisted
P4ØW (Opr. John Crovelli, W2GD)
Donor: Snake River Contest Club

U.S.A
Randall Thompson, K5ZD/1
Donor: Frankford Radio Club

Canada
Augustus Samuelson, VO1MP
Donor: Canadian DX Association

Caribbean/C.A.
David Farnsworth, WJ2O/KP2
Donor: Larry Brockman, N6AR

Europe
Drago Turin, S59A
Donor: Edward Bissell, W3AU

Africa
Chris Burger, ZS6EZ
Donor: Gordon Marshall, W6RR

Asia
H2ØA (Opr. Ivo Bezer, 5B4ADA)
Donor: Japan CQ Publishing Company Ltd.

Japan
Satoshi Hara, JH5FXP
Donor: Japan Crazy Contesters Club

Oceania
9M8X (Opr. Martti Laine, OH2BH)
Donor: Maui Amateur Radio Club

South America
P4ØF (Opr. Jeffrey Steinman, KRØY)
Donor: Venezuela DX Club

SINGLE OPERATOR, SINGLE BAND
World—28 MHz
Jan van Niekerk, ZS6NW
Donor: Joel Chalmers, KG6DX

World—21 MHz
ZPØY (Opr. LW9EUJ)
Donor: Don Busick, K5AAD
N5JJ Memorial

World—14 MHz
P4ØJ (Opr. Robert Brockmann, WX4G)
Donor: North Jersey DX Assn.
W2JT Memorial

World—7 MHz
Guillermo Perea Gonzalez, EA9EO
Donor: Alex M. Kasevich, VP2MM

World—3.5 MHz
ZB2X (Opr. Jorma Saloranta, OH2KI)
Donor: Fred Capossela, K6SSS

World—1.8 MHz
Richard Kline, 4X4NJ
Donor: Kenneth Byers, Jr., K4TEA

USA—28 MHz
Richard Boyd, KE3Q
Donor: Robert Clark, K6JYO

USA—21 MHz
Stephan Sacco Jr, KC2X/4
Donor: Wayne Carroll, W4MPY

USA—14 MHz
Robert Cox, K3EST
Donor: Northern Illinois DX Association

USA—7 MHz
Steven Kelly, KC7EM
Donor: Jan Perkins, N6AW
W6AM Memorial

USA—3.5 MHz
Robye L. Lahlum, W1MK
Donor: CQ Magazine

USA—1.8 MHz
Jerry Rosalius, WB9Z
Donor: Peter Hutter, WW2Y

Europe—28 MHz
Stanley Ingram, EA6ZY
Donor: Southern New England DX Club

Europe—21 MHz
Jose R. Hierro, EA7KW
Donor: Robert Naumann, KR2J

Europe—14 MHz
OHØBH (Opr. Jukka Kulha, OH2MAM)
Donor: Maud Slater
G3FXB Memorial

Europe—7 MHz
Tine Brajnik, S5ØA
Donor: Ivo Pezer, 5B4ADA/T93A

Europe—3.5 MHz
SN3A (Opr. Czeslaw Dubicki, SP3HLM)
Donor: Frankford Radio Club
K3VW Memorial

Canada—14 MHz
Robin Eschauzier, VE9ST
Donor: Radio Amateurs of Canada

Carib./C.A.—14 MHz
KP2A (Opr. Robert Hayes, KW8N)
Donor: Snake River Contest Club

Japan—21 MHz
Tadao Katsuta, JH7DNO
Donor: DX Family Foundation

MULTI-OPERATOR
SINGLE TRANSMITTER
World
IQ4A (Oprs. I4EAT, I4IKW, I4IND, I4LCK, I4LEC, I4PVP, I4TJE, I4VEQ, IK4CZF, IK4DCT, IK4DKO, IK4EWK, IK4QJH, IK2NCJ)
Donor: Anthony Susen, W3AOH

U.S.A.
K1AR (Oprs. K1AR, K1EA, K1GQ)
Donor: Douglas Zwiebel, KR2Q

Canada
VE3EJ (Oprs. VE3EJ, VA3DX, VA3EU, VA3NA, VA3RU, VE3CDX)
Donor: Eastern Canadian DX Assn.

Carib./C.A.
NP4Z (Oprs. NP4Z, WC4E, KP4EJ)
Donor: Ralph Bellas, Jr., K9ZO

Europe
LZ9A (Oprs. LZ1JY, LZ1UK, LZ2CC, LZ2DF, LZ2HE, LZ2II, LZ2JE, LZ2PL, LZ2PO, LZ2PS, LZ2TT, LZ2UU, LZ2WF, LZ2XA, LZ3DJ, LZ3SM, LZ5JW,LZ2-F-319, Vasko)
Donor: Friends of K3AO
K3AO Memorial

Oceania
WH6R (Oprs. WH6R, N6VI/KH6, AH6MZ)
Donor: Junichi Tanaka, JH4RHF

MULTI-OPERATOR
MULTI-TRANSMITTER
World
9G5AA (Oprs. G3SXW, GM3YTS, KC7V, K7GE, N7BG)
Donor: Hazard Reeves, K2GL Memorial

U.S.A.
W3LPL (Oprs. W3LPL, WR3E, W3EKT, AI3M, KE3Q, KF3P, K3RA, N3RR, W4BQF, KO7V, KE9A, KP4XS)
Donor: Bob Ferrero, W6RJ
N6RJ Memorial

Europe
HG73DX (Oprs. HA1AH, HA1DAC, HA1DAE, HA1TJ, HA2RV, HA2RX, HA5AWH, HA5CCC, HA5FM, HA5GF, HA5IW, HA5ML, HA5OM, HA5TI, HA5WE, HA6NF, HA6ND, HA6NL, HA6NQ, HA6NY, HA6ON, HA6PX, HA6WX, HA7RY, HA7VB)
Donor: Finnish Amateur Radio League

WORLD—SSB/CW COMBINED
HG73DX
Donor: Ehrhorn Technological Operations

CONTEST EXPEDITIONS
World Single Operator
9M8X (Opr. Martti Laine, OH2BH)
Donor: Yankee Clipper Contest Club

World Multi-Operator
YKØA (Oprs. WA2TMP, K3NA, K6ANP, W6OAT, W6OTC, NW6P, N6TV, WØYK)
Donor: Bill Schneider, K2TT

SPECIAL SINGLE OPERATOR AWARD
World—All Band Under 21 years old
Yoshihiro Fukata, JK2VOC
Donor: Ham Radio Book Store

CLUB
World SSB/CW
Frankford Radio Club: 251,636,558
Donor: CQ Magazine
W1WY Memorial

NON-USA SSB/CW
Bavarian Contest Club: 83,215,092
Donor: Northern Calif. Contest Club
N6AUV Memorial

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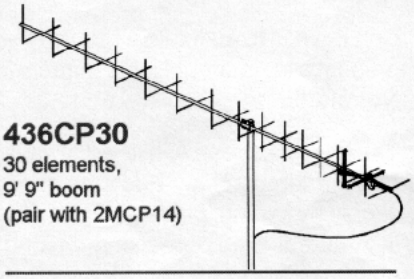
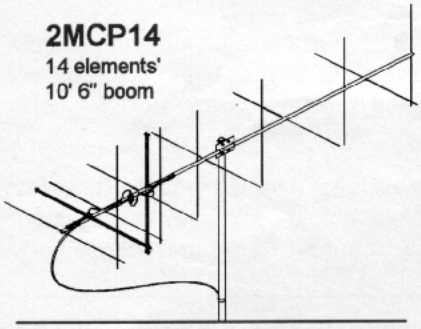
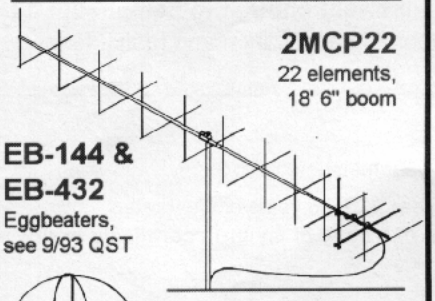


436CP30
30 elements,
9' 9" boom
(pair with 2MCP14)

2MCP14
14 elements'
10' 6" boom





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18' 6" boom

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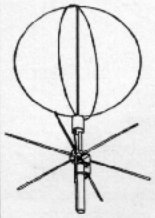

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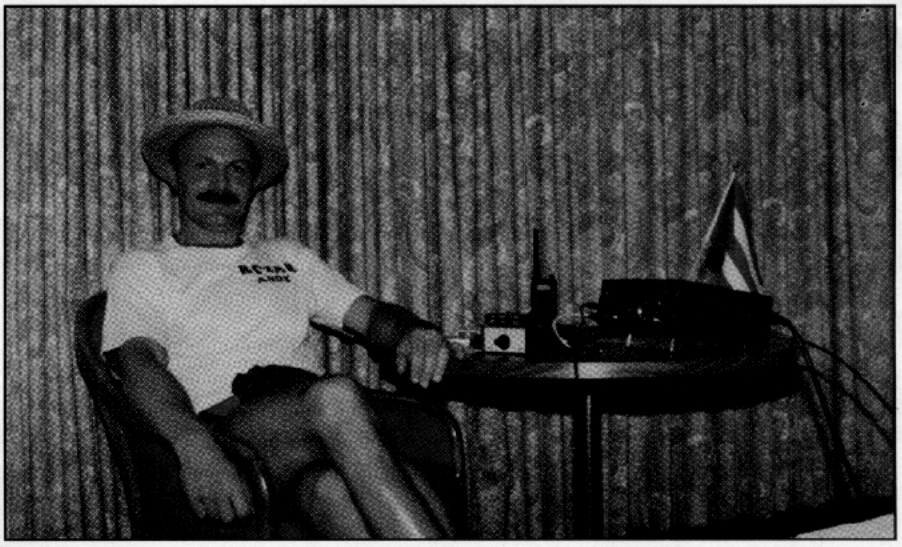


Andy, RC2AZ, happy at last from WP4/AA3BG.

you can see by the fact that four of the top six stations were from Europe. Finishing second in Europe and third in the world was the powerhouse of OT4T. Putting ON4UN's knowledge of antennas to work, they almost overcame their propagational disadvantage compared to stations farther south. The boys of HZ1AB should feel pretty good. They broke into the top six box. They made a lot of guys happy on the west coast of the US when their signal came booming in on the morning long path.

Finishing just below the world top six but finishing first in the US was the crew of K1AR, alias K1EA. They won by over 1 million points. They re-enforce that famous saying and add to it: Loud is good. Being in New England is good. And it's good to see Europe with a good pair of binoculars. Finishing second down FRC way was the excellent station of N2NU and crew. They edged out KC1XX, who came in third.

Multi-Multi

This category is always a battle. Five different continents are represented in the top six score box. You cannot ask for diversity. The winner was 9G5AA. These guys put a rare CW country into over 11,000 logs! Many comments from entrants offered their appreciation to that DXpedition for a new band or mode country. Second place went to the gang at VP5VW. They had more QSOs than anyone in the contest. The computer program they were using could only handle 10,000 QSOs, so they had to scramble when that number was exceeded! Third place went to the JA gang, who traveled to KHØAM. They were easy to work. Boy you would drool if you could see their 160 log into JA. The top European score was HG73DX, who edged out their rivals farther south in Croatia, 9A1A.

In the US Frank's crew at W3LPL is sure pushing the edge. They were tops in all three categories: QSOs, zones, and countries. Diversity of antennas and heights is sure paying off. To find out who was responsible for the score, check out the operator list. Located at almost the same latitude but farther east in the New Jersey pine barrens was the fine crew of

College student enthusiasts from the Chiba Institute of Technology at breakfast (not sushi) after operating JA1YDU.

CLUB SCORES

USA

Frankford Radio Club	251,636,558
Yankee Clipper Contest Club	139,840,284
Northern California Contest Club	63,342,527
Southern California Contest Club	60,104,394
Potomac Valley Radio Club	53,156,219
Society of Mid-west Contesters	26,377,569
North Texas Contest Club	24,468,002
S.E. DX Club	17,279,099
FLA CW Contest Group	13,961,280
Oklahoma DX Association	12,990,580
Carolina DX Association	12,748463
Mile High DX Association	12,130,967
Texas DX Society	11,654,935
North Florida DX Association	10,779,947
Mad River Contest Club	10,182,631
Northern Alabama DX Club	8,455,575
Dixie Dxers	7,770,212
Central Virginia Contest Club	6,274,905
Willamette Valley DX Club	6,195,389
North Coast Contesters	6,193,010
Minnesota Wireless	5,624,698
Southwest Ohio DX Association	5,234,958
Kansas City DX Club	4,479,804
Lone Star Contest Club	4,380,419
River City Contesters	4,196,226
Southern California DX Club	3,880,419
Western Washington DX Club	3,710,409
Northern California DX Club	3,611,810
Order of Boiled Owls New York	2,984,003
Kentucky Contest Group	2,536,576
Hoosier Contesters	2,485,227
Rochester DX Association	2,042,715
Western New York DX Association	1,856,849
Northern Ohio DX Association	1,742,092
Central Texas DX Contest Club	1,390,899
Salt City DX Association	1,367,694
San Diego DX Club	1,293,891
Mississippi Valley DX Contest Club	1,172,662
South Florida DX Association	1,161,541
Northern Shenandoah DX Club	1,123,786
Glocester County ARC	1,108,477
Amarillo DX Society	891,486
Redwood Empire	639,274
Long Island DX Association	571,349
Genesee County Radio Club	497,240
Santa Barbara	479,680
Albany ARA	436,049
California Central Valley Contest Club	397,353
Central Arizona DX Association	303,844
South Jersey Radio Association	239,926
Williamsburg ARC	173,785
Grumman ARC	141,231
Easten Iowa DX Association	94,652
Sterling Park ARC	71,544
Valley Radio Club	60,948
Westpark ARC	60,451

DX

Bavarian Contest Club	83,215,092
Rhein-Ruhr DX Association	82,081,388
Slovenian Contest Club	39,957,790
Ukrainian Contest club	37,971,085
OH DX RING	37,129,792
Hungarian DX Club	28,649,328
LNDX	18,104,218
Croatian DX Club	17,593,490
Chiltern Contest Club(G)	15,882,795
Delta Mike(I)	15,254,748
Kaunas University Radio Club	14,777,590
LYNX	14,580,040
SP DX Club	9,894,299
Vojdovina Contest Club(YU)	8,694,193
YU DX Club	7,749,941
Alaska DX Association	5,498,563
Tupy Contest Club (PY)	4,835,704
Top of Europe Contest Club	3,507,123
Danish DX Group	3,246,305
Lithuanian DX Group	3,179,378
Bavarian DX Club	2,799,798
RAST (HS)	2,722,490
Beemter Contest Club (PA)	2,440,957
OH3NE	1,949,804
Fraser Valley DX Club(VE)	1,457,718
Perugia DX Club (I)	1,404,241
Sarajevo Contest Group	1,379,522
Dream Team (S5)	1,364,326
GACW (LU)	1,101,578
FOX Contest Club (YU)	767,794
Belarus Activity Group	725,564
Bavarian DX Group	713,644
Berghem Contest Club (PA)	662,921
Calgary ARA	660,977
Amsterdam Contest Group	637,164
South German DX Group	489,886
Berlin DX Group	489,514
Czech Contest Club	435,689
YV DXPERT'S Team	306,369
OZ9EDR	288,596
Kaunas Radio Club	246,384
Tiara Club (JA)	184,749
Tartu Radio Club (ES)	157,753
SP Contest Club	128,891

Bob, N2RM. Third place was taken by the new multi-multi K1KI.

We would be remiss if we did not mention the winners of the multi DXpedition trophy, YKØA. A special DXpedition which was centered around the CQ WW, they offered RTTY, WARC band contacts to the deserving before and after the contest. They are to be congratulated for the goodwill they generated in Syria for amateur radio. Well done, guys.

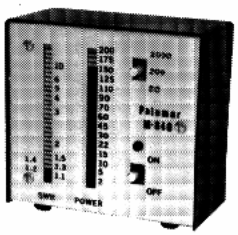
Records

The following outstanding operators set new World records: 4X4NJ (1.8), 9X5EE (Opr. PA3DZN) (Low All Band), PT7CB (Opr. YU1RL) (Low 14), P4ØW (Opr. W2GD) (Assisted All Band), IT9XUC (Assisted 14), PA3EBT (Assisted 3.5), OHØBCI (Assisted 1.8). Other

TEAM CONTESTING

1. **FRC and the Cookie**: 31,306,866. By N2NT, N2LT, W3BGN, P4ØF (KRØY), P4ØW (W2GD).
2. **Team from Cyberspace**: 26,173,840. By HC8N (WN4KKN), VS6WO (WX3N), N4RJ (KM9P), K5ZD/1, N6BV/1.
3. **OH-DX-Team**: 22,857,620. By 9M8X (OH2BH), DX1EA (OHØXX), EA8EA (OH2MM), ZB2X (OH2KI), LX4B (OH2PQ).
4. **Top Guns**: 10,770,786. By W2SC, WJ2O/KP2, OH6KIT, W1WEF, K3TUP.
5. **Wild Wild West**: 6,059,933. By N5RZ, K5MR, K6XO, ZF8BS (AA6KX).
6. **Barefoot Men**: 3,623,924. By AA4GA, K7GM/4, K7SV/4, XE1/AA6RX.
7. **The Uno-banders**: 2,790,571. By UN2L (UA9BA), 9M6NA (JE1JKL), IO9T (IT9TQH), NQØI, DLØIU (DL4AAE).
8. **Jorge Bozzo, LU8DQ, Memorial**: 2,275,903. By ZPØY (LW9EUJ), LU1ICX, LU6ETB (LU2CW).
9. **Slovenian Contest Club #2**: 1,434,002. By S5ØA, S59L, S5ØK.
10. **Slovenian Contest Club #3**: 524,835. By S57U, S57W, S53EA, S51AY.
11. **Top of Europe Contesters**: 482,854. By SM5IMO, SM3SGP.
12. **Elettra Marconi (YL's)**: 417,268. By I2RLX, I5AZX, I5UNA, IKØPXD).
13. **Five is Enough (Most QRP)**: 113,016. By VE6SH, VE6GK, N7ENU.

SWR/POWER METER



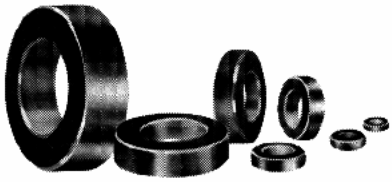
- **Shows PEP instantly.**
- **Shows SWR while you talk!**
- **No "Cal" control. It's automatic.**
- **Remote sensor.**

If you've been looking at slow moving panel meters or squinting at crossed needles, see whan an improvement an **instant** display makes.

This new meter shows power and SWR on two light bars with 3% resolution. Three power ranges: 20, 200, 2000 watts. 1.7-30 MHz. Compact size, bright display makes tuning up a breeze.

Model M-840 SWR/Power Meter $199.95 + $6 to ship U.S./Canada. For 12v DC. **Model PS-95 AC Adapter $15.** Sales tax in Calif.

TOROID CORES



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FAX: (619) 747-3346
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Multi-single OE2S was manned by OE2GEN and OE2LGM.

than those above, the following set continental records: EA9EO (7), ZL3GQ (7), JA7SSB (Low 14), OHØBH (Opr. OH2MAM)(14), EA7CEZ (Low All Band), OL7Z (Opr. OK2PAY) (Low 14), US4EX (QRP 21), II8W (Opr. IK8JSV) (Assisted 7), KP2A (Opr. KW8N) (14), CO2VG (Low 3.5), KIØG (QRP 1.8), W8UVZ (Assisted 1.8), P4ØF (Opr. KRØY) (All Band), YV3AJ (Low 28), and 4M7A (Low 3.5). Congratulations to all!

Clubs

What a job! I guess those words have been said almost every year when describing the Frankford Radio Club's gigantic score. Not only did they win, but thanks to efforts of K3WW and others, they also submitted the easiest to process logs. They all arrived in one box (no envelopes). SSB and CW were submitted separately, and all the computer files were properly named and on one disk! Other clubs please take note.

Also leaving nothing to chance were the top two European club entries. They both submitted most of their logs as a unit in one box. The scores were very close. After careful checking, the Bavarian Contest Club was declared the winner of the DX club trophy.

Comments

If you could hear all the data going back and forth on internet concerning the CQ WW contests, you would swear that you were in an enormous pile-up! Thousands of crosschecks, thousands of logs looked through. The information highway was very busy. Next year we

(Continued on page 116)

On the left CR3U operated by DL2HYH, and on the right CT3FN operated by HB9CRV.

TOP SCORES

WORLD

SINGLE OPERATOR HIGH POWER

All Band

EA8EA	12,805,040
P4ØF	12,393,150
PYØFF	10,778,990
HC8N	10,181,750
PZ5JR	8,301,917
H2ØA	7,467,174
HC1OT	7,041,712
A71CW	6,514,340
VS6WO	5,983,476
HC8KU	5,595,600

28 MHz

ZS6NW	298,906
LU6ETB	290,184
KG6DX	209,056
EA6ZY	159,962
S53EA	143,172
EA7EZ	142,664

21 MHz

ZPØY	1,584,523
9Y4VU	722,787
CR3U	720,090
EA9EU	625,053
TU2MA	465,875
EA7KW	397,432

14 MHz

PØJ	1,697,400
KP2A	1,332,460
CR3P	1,317,084
OHØBH	1,003,353
9M6NA	971,397
TGØAA	968,250

7 MHz

EA9EO	1,122,506
PJ9U	1,056,817
9K2ZZ	891,902
TI1C	849,288
S5ØA	738,650
S5ØC	691,298

3.5 MHz

ZB2X	464,444
SN3A	418,325
UN2L	408,894
CT3FN	371,478
4N1A	327,474
OM5M	307,956

1.8 MHz

4X4NJ	184,896
OM7A	132,664
SP5GRM	114,886
I3JSS	109,388
F6EZV	107,624
DL1IAO	105,644

LOW POWER

All Band

9X5EE	4,014,270
EA7CEZ	3,469,004
J8ØC	2,537,808
ZF8BS	1,831,200
S59AA	1,645,226
EA5WU	1,548,365
XE1/AA6RX	1,331,323
W2UP/3	1,298,650
TA3D	1,197,914
W1PH	1,182,216

28 MHz

EA8/EA1AK	409,500
YV3AJ	297,142
LW4DYI	261,063
PJ2/PAØVDV	146,642
YU1HA	59,169
VK4XA	55,275

21 MHz

KP4TQ	413,640
VK2AYD	292,940
YZ1AU	279,524
WP4/AA3BG	261,660
S57J	235,008
9A3ER	232,140

14 MHz

PT7CB	1,157,475
LU1ICX	401,196
OL7Z	357,046
SP9YDX	334,126
OH3LIM	300,875
OH6LBW	266,805

7 MHz

YM2DS	558,129
YT7AR	531,180
UR5QSK	450,447
KP4VA	225,704
S54A	209,151
EA8CN	199,980

3.5 MHz

S52OP	89,628
OM3ZBU	85,814
LY2BZ	80,898
UA3WU	64,724
UA9YNC	63,332
LY3ID	60,352

1.8 MHz

9A2OB	45,150
YU1RA	42,984
GIØKOW	41,580
RX9ST	31,388
IV3KTY	20,406
OM2XW	20,022

QRP

All Band

TA4ZM	1,734,238
AA2U	486,200
LY3BA	449,757
KP4DDB	296,172
IK2LEY	248,939
UX8IX	241,962
DL3KVR	218,476
I1BAY	217,460
JA2IVK	176,512
N7IR	152,800

ASSISTED

All Band

P4ØW	10,288,950
K1ZM/2	3,319,620
OM3NA	2,974,634
K3WW	2,923,641
K1IU	2,439,160
K2WK	2,372,676
AA2DU/1	2,167,869
N3AD	2,153,200
DJ2YA	1,892,485
K1DG	1,861,175

MULTI-OPERATOR SINGLE TRANSMITTER

IQ4A	8,844,052
NP4Z	7,629,219
OT4T	7,583,400
LZ9A	6,953,600
HZ1AB	6,896,136
OH2M	6,723,750

MULTI-OPERATOR MULTI-TRANSMITTER

9G5AA	22,946,634
VP5VW	21,823,275
KHØAM	17,076,598
HG73DX	16,114,625
9A1A	14,506,569
YKØA	11,474,172

EUROPE

SINGLE OPERATOR HIGH POWER

All Band

S59A	3,311,655
DL6RAI	3,169,792
S53A	3,097,360
G4BUO	3,032,424
YU7AV	3,014,010
F6FGZ	2,952,349
TM7XX	2,800,584
OH6WZ	2,681,184
UT2QT	2,531,613
EMØF	2,452,989

28 MHz

EA6ZY	159,962
S53EA	143,172
EA7EZ	142,664
HGØD	137,241
S51AY	102,492
S57AL	32,334

21 MHz

EA7KW	397,432
S5ØK	390,456
OH1AF	334,059
GB4RF	324,960
YT9C	316,992
LZ5Z	242,957

14 MHz

OHØBH	1,003,353
LZ5W	781,696
IO9T	767,428
OH2PM	766,263
OH6NIO	728,550
S53M	710,430

7 MHz

S5ØA	738,650
S5ØC	691,298
OM8A	665,525
YT7A	641,538
9A3IQ	546,426
S52RD	499,961

3.5 MHz

ZB2X	464,444
SN3A	418,325
4N1A	327,474
OM5M	307,956
S58A	291,584
EA3KU	267,546

1.8 MHz

OM7A	132,664
SP5GRM	114,886
I3JSS	109,388
F6EZV	107,624
DL1IAO	105,644
IT9ZGY	88,466

LOW POWER

All Band

EA7CEZ	3,469,004
S59AA	1,645,226
EA5WU	1,548,365
F6DDR	1,021,760
9A2AJ	999,242
GD4UOL	970,557
SP9XCN	965,157
S51FA	912,695
SP9WZJ	902,484
YL2GN	878,700

28 MHz

YU1HA	59,169
LZ2GS	34,727
G4OBK	19,513
OK1AES	19,295
F6EQV	11,180
DL3HRA	9,548

21 MHz

YZ1AU	279,524
S57J	235,008
9A3ER	232,140
ON4RU	203,987
4N1N	183,520
T91ENS	178,560

14 MHz

OL7Z	357,046
SP9YDX	334,126
OH3LIM	300,875
OH6LBW	266,805
S57U	208,575
UU9JCF	197,478

7 MHz

YT7AR	531,180
UR5QSK	450,447
S54A	209,151
UR3IEW	184,352
PA3AAV	159,432
IQ9AF	157,665

3.5 MHz

S52OP	89,628
OM3ZBU	85,814
LY2BZ	80,898
UA3WU	64,724
LY3ID	60,352
OK1RR	60,344

1.8 MHz

9A2OB	45,150
YU1RA	42,984
GIØKOW	41,580
IV3KTY	20,406
OM2XW	20,022
OK2PWJ	16,698

QRP

All Band

LY3BA	497,511
UX8IX	420,783
I1BAY	401,793
DL3KVR	269,040
IK2LEY	248,939
OH1LUZ	162,792
EA7AAW	146,355
9A3GU	118,695
Z32DR	115,020
PAØADT	94,675
DJ3XK	40,152

ASSISTED

All Band

OM3NA	2,974,634
DJ2YA	1,892,485
DL2ZAE	1,348,214
DL2HBX	1,280,250
F5NBX	1,141,904
JWØI	1,054,596
DJ9MH	781,335
DL7AV	668,161
SMØHTO	624,012
F6IRA	617,050

MULTI-OPERATOR SINGLE TRANSITTER

IQ4A	8,844,052
OT4T	7,583,400
LZ9A	6,953,600
OH2M	6,723,750
TM9C	6,337,206
DFØHQ	6,295,100

MULTI-OPERATOR MULTI-TRANSMITTER

HG73DX	16,114,625
9A1A	14,506,569
EM2I	10,436,607
UU5J	9,390,039
OL7O	8,166,164
RU1A	7,581,104

USA

SINGLE OPERATOR HIGH POWER

All Band

K5ZD/1	4,037,408
KM1H	3,905,136
W1KM	3,443,040
N2NT	3,320,772
N4RJ	3,177,636
N2LT	3,014,190
N6BV/1	2,793,570
K3ZO	2,752,000
W2SC/1	2,436,954
N6AR/4	2,317,344

28 MHz

KE3Q	44,100
W4YV	29,797
N4BP	27,864
W6ISQ	2,070
WA7KLK	2,000

21 MHz

KC2X/4	226,980
W6YA	213,614
K4ISV	208,488
N4CT	205,610
K4JPD	166,522
W4PZV	162,540

14 MHz

K3EST/6	458,060
K2SX/1	442,550
K8GL	427,356
NQØI	395,100
KØKE	378,896
W6QHS	192,786

7 MHz

KC7EM	409,676
N6AW	335,069
W3GH	184,350
NX7K	168,064
KØOD	124,712
WB4MAI	107,316

3.5 MHz

W1MK	202,420
K4PI	108,642
WZ3Q	106,624
WA4CTA	100,796
W9LT/8	85,845
W8JGU	77,112

1.8 MHz

WB9Z	23,100
K4TEA	21,128
KVØQ	14,030
AA8U	11,966
KX4R	8,791
W2VO	8,357

LOW POWER

All Band

W2UP/3	1,298,650
W1PH	1,182,216
K7GM/4	1,149,528
K2SG	1,017,620
K7SV/4	870,916
K2TE/1	709,920
W6JTI	693,548
K6XV	655,109
K2QMF	645,759
KM1X	639,184

28 MHz

KQ1V	6,440
K2YJL/M4	1,464

21 MHz

WB4TDH	119,000
KO9Y	93,170
WA2C	87,138
K2MFY	56,826
WA6FGV	13,572
W6JTA	10,927

14 MHz

N4MO	186,320
W5FO	170,170
N7RO	160,398
WAØRJY/7	135,642
WA6KUI/4	128,570
W8UMR	75,376

7 MHz

W9CH	77,880
AB4RX	54,827
WR4K	41,106
K9MMS	34,692
K4LDR	33,582
KW8J	27,804

3.5 MHz

AA9AX	12,449
K7WA	736

1.8 MHz

W2FCR	10,203

QRP

All Band

AA2U	535,572
N1AFC	228,501
K4LTA	191,352
N7IR	164,016
KA1CZF	126,336
N4IJ	122,194
KRØB	74,888
KV8S	27,984
NM1K	25,984
AB4KL	16,351
N9LMU	14,536
AB5OU	11,139

ASSISTED

All Band

K1ZM/2	3,319,620
K3WW	2,923,641
K1IU	2,439,160
K2WK	2,372,676
AA2DU/1	2,167,869
N3AD	2,153,200
K1DG	1,861,175
K2BU	1,788,123
K5NA/2	1,774,220
K2LE	1,572,516

MULTI-OPERATOR SINGLE TRANSMITTER

K1AR	6,660,108
N2NU	5,511,740
KC1XX	5,431,836
N3RS	5,304,804
K1TR	4,616,046
K8AZ	4,514,277

MULTI-OPERATOR MULTI-TRANSMITTER

W3LPL	9,699,844
N2RM	8,979,876
K1KI	8,158,280
K3LR	7,360,036
KY1H	5,245,622
KY3N	4,869,634

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"FLEXIBLE" 9913 FOIL-95% BRAID 2.7dB @ 400MHz	.58/FT	.56/FT
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9914 EQUAL "FOAM" FOIL +95% BRAID 3.5dB @ 400MHz	.40/FT	.38/FT
LMR 400 DBL SHLD IIIA JACKET 2.7dB @450MHz	.62/FT	.60/FT
LMR 400 *UltraFlex* DBL SHLD "TPE" JACKET 3.1dB @ 450MHz	.75/FT	.72/FT
LMR 600 DBL SHLD IIIA JACKET 1.72dB @ 450MHz	1.47/FT	1.45/FT
LMR 1200 DBL SHLD IIIA JACKET 0.864dB @ 450MHz	4.55/FT	4.54/FT
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RG213/U MIL-SPEC DIRECT BURIAL JACKET 1.5dB @ 50MHz	.36/FT	.34/FT
RG8/U FOAM 95% BRD UV RESISTANT JACKET 1.2dB @ 50MHz	.32/FT	.30/FT
RG MINI 8X 95% BRD BLK, SILVER or CLEAR UV RES JKT	.15/FT	.13/FT
RG214/U (2) SILVER BRAID SHIELDS MIL-SPEC	1.30/FT	1.20/FT
RG393/U DBL SILVER SHLD "TEFLON" 25,000 WATTS @ 10MHz	4.00/FT	3.75/FT
RG142/U DBL SILVER SHLD "TEFLON"	1.10/FT	1.00/FT
RG58/U 95% BRAID	.15/FT	.13/FT
RG58A/U 95% TC BRAID	.17/FT	.15/FT
450 OHM LADDER LINE	.12/FT	.10/FT
450 OHM LADDER LINE 16GA STRANDED	.18/FT	.16/FT
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5971 8/COND (2/18 6/22) for runs upto: 125ft BLK UV RES JKT	.22/FT	.20/FT
4090 8/COND (2/16 6/20) for runs upto: 200ft BLK UV RES JKT	.38/FT	.36/FT
1418 8/COND (2/14 6/18) for runs upto: 300ft BLK UV RES JKT	.50/FT	.48/FT
18GA TINNED COPPER 4/C GRAY PVC JACKET	.20/FT	.18/FT
18GA TINNED COPPER 5/C GRAY PVC JACKET	.22/FT	.20/FT
18GA TINNED COPPER 7/C GRAY PVC JACKET	.26/FT	.24/FT
ANTENNA WIRE		
14GA 168 STR "SUPERFLEX" UNINSULATED	.12/FT	.10/FT
14GA 7/22 "HARD DRAWN" BC UNINSULATED	.10/FT	.08/FT
14GA SOLID "COPPERWELD" UNINSULATED	.09/FT	.07/FT
14GA SOLID "BARE COPPER" UNINSULATED	.09/FT	.07/FT
16GA 26/30 "BARE COPPER" PVC INSULATED	.09/FT	.07/FT
DACRON ROPE DBL BRD 3/16" 770# TEST	.12/FT	.10/FT
AUTOMOTIVE "ZIP" CORD		
10GA 2/C "FLEXIBLE" OIL&GAS RESISTANT RED/BLK "ZIP"	.40/FT	.38/FT
12GA 2/C "FLEXIBLE" OIL&GAS RESISTANT RED/BLK "ZIP"	.30/FT	.28/FT
18GA, 16GA & 14GA STOCKED TOO		

COAX W/SILVER TEFLON PL259's EA END	PRICE
100FT RG213/U MIL-SPEC DIRECT BURIAL JKT 1.5dB @ 50MHz	$45.00/EA
50FT RG213/U MIL-SPEC DIRECT BURIAL JKT 1.5dB @ 50MHz	$25.00/EA
100FT RG8/U FOAM 95% BRD UV RESISTANT JKT 1.2dB @ 50MHz	$40.00/EA
50FT RG8/U FOAM 95% BRD UV RESISTANT JKT 1.2dB @ 50MHz	$22.50/EA
BALUNS	
W2AU 1:1 OR 4:1 1.8-40MHZ TRANSFORMER TYPE	$24.00/EA
W2DU 1:1 1.8-30MHz CURRT TYPE DIPOLE OR BEAM	$26.00/EA
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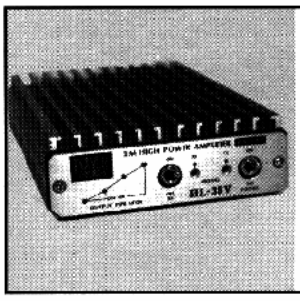

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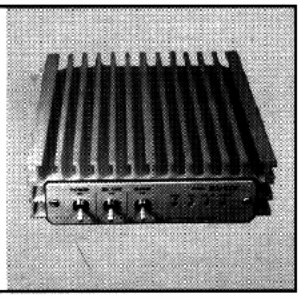

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AB6FO	1,348,032	DL6RAI	3,169,792
N6TU	1,122,329	G4BUO	3,032,424
W2VJN/7	862,967	F6FGZ	2,952,349
AI6V	859,732	TM7XX	2,800,584
*W6JTI	693,548	DL2NBU	2,377,822
*K6XV	655,109	EA2IA	2,362,192
*K6OY	502,737	GØIVZ	2,308,068
W7CB/6	500,647	OZ1LO	2,144,740
K6XO/7	382,525	EA4KA	1,987,741
Zone 4		**Zone 15**	
K5MR	2,021,940	S59A	3,311,655
KØRF	1,932,678	S53A	3,097,360
W9RF	1,864,160	YU7AV	3,014,010
N5RZ	1,824,268	OH6WZ	2,681,184
KØEU	1,496,940	YT1AD	2,285,496
KØKX	953,856	OH1AA	2,181,408
N7ML	880,581	OH6KIT	1,939,086
K9MA	836,600	*S59AA	1,645,226
W5UDA	617,440	OH6YF	1,638,609
WN9O	607,095	LY2IJ	1,452,731
Zone 5		**Zone 25**	
K5ZD/1	4,037,408	JH5FXP	2,389,920
KM1H	3,905,136	JA8RWU	1,952,817
W1KM	3,443,040	JH1AEP	1,906,416
N2NT	3,320,772	JE4VVM	1,897,608
N4RJ	3,177,636	JH7XGN	1,538,585
N2LT	3,014,190	JA6GCE	1,387,071
N6BV/1	2,793,570	*JHØKHR	1,031,493
K3ZO	2,752,000	JA1IDY	656,362
W2SC/1	2,436,954	JA9JFO	644,742
N6AR/4	2,317,344	JA2EU	578,760

hope to even have more and faster checking procedures. I found very interesting the fact that about 55-60% of the different calls in the data base are almost certainly mis-copied calls—i.e., errors! Almost every real call generates a whole string of look alikes. I thought I worked JT7AS on 20 meters, but he had it as K3ES in his log at the exact right time. K3ES, K3EV are just some combinations. You get the idea. The only call with no variations was 4U1ITU.

If you submit a computer log, you should submit a disk containing your files. File name examples are (use your call): CT send CT1BOH.BIN; N6TR send DL6RAI.DAT; NA send S5ØA.QDF. If you use another program, send a file per band of calls in chronological order in ASCII. If you are lucky enough to be a potential top score, you must submit a disk as per the rules. If you do not, you will not be eligible for

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	NL7DU	39,975	21	A71CW	6,514,340
2	No Entry		22	VU2PTT	934,032
3	K6NA	1,611,610	23	JT7FAA	281,853
4	K5MR	2,021,940	24	VS6WO	5,983,476
5	K5ZD/1	4,037,408	25	JH5FXP	2,389,920
6	XE1/AA6RX	1,331,323	26	HSØZBI	1,218,114
7	TI5NW	949,390	27	DX1EA	3,766,896
8	KP2/WJ2O	3,776,500	28	9M8X	5,390,300
9	P4ØF	12,393,150	29	VK8TM	3,475,170
10	HC8N	10,181,750	30	VK1FF	774,750
11	PYØFF	10,778,990	31	KH6/N6HR	1,711,975
12	3G1X	4,139,394	32	ZL3GQ	672,612
13	LU1EWL	530,612	33	EA8EA	12,805,040
14	EA7CEZ	3,469,004	34	No Entry	
15	S59A	3,311,655	35	5U7Y	1,121,236
16	UT2QT	2,531,613	36	9X5EE	4,014,270
17	EY8MM	1,184,622	37	5X1XT	1,461,761
18	RWØAB	843,483	38	ZS6EZ	5,322,790
19	UAØFZ	807,128	39	3B8/F6HWU	959,101
20	H2ØA	7,467,174	40	JWØI	1,054,596

awards. We had to type into the computer many logs this year. We do not like to do this at all. It wastes our time and introduces our typos. So give us your disks. Thanks!

Remember that IG/IH count as a new multiplier as of this October's contest. There are also some rule changes pertaining to the use of two calls at one QTH. In a nut shell, the new rule says that another call other than the entrant's can be used to aid any submitted score. You can still check into packet, etc., using your call. That's no problem. This rule applies most germanely to the multi categories.

There are two reflectors on internet which you might find of interest. The Youth reflector is set up under the CQ WW as a reflector for young contesters age 25 and under. Some discussions have been very interesting. The Club reflector is open to any radio club in the world. Just send a message to K3EST@netcom.com to find out more about both of them.

Thanks To The Committee

This was an especially strenuous year for log checkers. Computers do not make for less work. They create more. So let's take our hats off to the guys who helped certify the results published herein: K6NA, W7EJ, KRØY, W9RE, WA8YVR, WR3G, K3UA, W3ZZ, K1DG, N3ED, W2RQ, N6ZZ, N2AA, KR2Q, KR2J, KZ2S, and CT1BOH. Thanks to all our DX advisors who in several cases helped resolve very difficult problems: I2UIY, S5ØA, G3SXW, OH2KI, OH2MM, JE1CKA, ON6TT, VE3EJ, CT1BOH, and DL6RAI. Thanks to our special advisor K3ZO, WN4KKN for making our life easier via internet, and N8BJQ who provides WPX advice. A big bow to N6TR for keeping up with our ever-changing computer software demands. Thanks to K1AR for the trophy and certificate mailings.

A hero of the republic medal goes to N6AA, who spent countless hours pouring over the data and on the phone with K3EST to make the data as perfect as we could make it.

Congratulations to all the winners and participants! See you in October and November 1995.

73, Bob, K3EST

DX QRM

Always a great pleasure to QRV in CQ WW! . . . *UA3AGW*. Thanks for two new ones on 80 meters . . . *UAØSR*. Hope to join you agn next year. Age here 78 . . . *PA3BEJ*. No propagation, heavy power line noise, no time for contesting, but I love the CQ WW! . . . *LU7DW*. Lots of fun! Pile-ups with low power were tremendous on 15 meters . . . *OD5/OH1NOA*. Thanks for making the 100W category. One doesn't have to compete with the kilowatts . . . *OK1CZ*. Sri dear N6T. QRM was too big on 3.5. Try agn next year . . . *YL2SM*. My arch rival VE6BMX on computer—I on all manual took him to the cleaners . . . *VG6BF*. I had a great time! Doubled my score from last year and finally broke the 1000 QSO mark for a single contest. My next goal is 1500+ QSOs! . . . *VK1FF*.

Learning more about contesting each time I enter. With regard to multipiers I keep this simple philosophy in life: The important thing is to keep the important thing . . . *VK4ICU*. My apologies to all for my fumbling attempt at CW. I have been phone contesting since 1970, but this was my first CW contest. Unfortunately it was fun, so I have another addiction to feed, Hi! . . . *VK5GN*. Thanks to flight changes, vacation limitations, and no meaningful planning, I am pleased to offer my entry of one QSO. A new record for me, but one for which there is only one direction for the future! . . . *VK8/N3JT*. Pre-contest preparation on Friday consisted of a couple of hours at the beach, wondering if we should ever go back to the shack. We ran on adrenaline all weekend. Had a blast and wouldn't hesitate doing it again . . . *VP2EZA*.

Worked a few on 10 meters at last, but missed the low bands. Wish the contest would last a week! . . . *VU2PTT*. My first serious contest. Wow! 686 QSO with 5W into a R7 is not bad, isn't true? . . . *IK2LEY*. Many thanks for my first contest. It was very very good to me . . . *IT9ORA*. As usual only had time to pick some plums out of the pudding. But what a delicious pudding . . . *SM6BZE*. First time in a contest. There is much to do to become better next year, but it was a real pleasure . . . *DK8NX*. Condx were much better than predicted. Some nice 5 band QSOs. YKØ was a fish in a barrel. Got called by R1FJL on 160 . . . *DL2HBX*. It's getting tougher every year with my small setup, but it was FUN as usual! Congrats to some US ops; they must be able to hear the grass grow! . . . *DL2OBF*.

Great cndx on 10 for a sunspot minimum . . . *4X1IF*. It was great fun. Hope everyone enjoyed contacting zone 36 and 9X . . . *9X5EE (Opr PA3DZN)*. 28 MHz had been dead all week. It was open from sunrise to after sunset while the contest was on. It takes the CQ WW to bring it to life . . . *EA6ZY*. I never had such good personal results. Things very fine, good propagation, good DXers . . . *ER5GB*. I was so surprised to be heard in the pile-ups with ny vertical antenna that I forgot my call. Hi Hi . . . *F5JCT*. Low power contesting is more and more challenging. But I like it (and so do my neighbors) . . . *F6DSV*. With my age (88 years) I still participate. First QSO April 1925 . . . *F8TM*. Hope that Loyalties Island are now in all the logs . . . *FKØP (Opr F6AUS)*.

My first CW contest. Very exciting! Will be there next year . . . *FK8FU*. On Sunday a patch of ionosphere seemed to move across the globe allowing me to make the most of the contest by bouncing sigs off it. It was great to really wrk hard with the 100W. 73

Travelling Ham Show Takes Amateur Radio on the Road

Ed Hammond, WN1I, is doing what so many of us have only dreamed of doing. He's hitting the road with Amateur Radio to spread the word that this is a great hobby. Beginning in September, Ed will visit fourteen cities presenting seminars and demonstrations of Amateur Radio. In cooperation with Ham dealers at each stop, Ed will demo how it all works, and tell what it takes to join the ranks of licensed Hams. The entire expense for the tour is being borne by Ed.

Formerly the North American Sales Manager Amateur Products for Cushcraft Corp., Ed is an accomplished professional public speaker who has had an unabashed love affair with Amateur Radio for 25 years. He is also the author of a new book on the hobby, "Ham Radio—Your Ticket To Worldwide Adventure." While the tour is aimed at spreading the word to folks who know nothing about Ham Radio, this might be the chance you've been looking for to get a non-Ham spouse or acquaintance in your hobby. Contact the dealer in your location for exact seminar sites and times. Here's the tour schedule:

Ed Hammond, WN1I (center), talks to some future Hams at a warm-up seminar session.

Tour Schedule

Tues. Sept. 19	Baltimore, MD	Maryland Radio Center	301-725-1212
Thurs. Sept. 21	Washington, DC	Electronic Equipment Bank	703-938-3350
Tues. Sept. 26	Cleveland, OH	Amateur Electronic Supply	216-585-7388
Wed. Sept. 27	Grand Rapids, MI	H.R. Electronics	816-722-2246
Tues. Oct. 3	Evansville, IN	The Ham Station	812-422-0231
Wed. Oct. 4	Cincinnatti, OH	R & L Electronics	513-868-6399
Thurs. Oct. 5	Indianapolis, IN	R & L Electronics	317-897-7362
Tues. Oct. 10	Minn./St. Paul, MN	Radio City	612-786-4475 1-800-426-2891
Thurs. Oct. 12	Kansas City, MO	Radio Center USA	816-459-8832
Tues. Oct. 17	Dallas, TX	Texas Towers	214-422-7306
Thurs. Oct. 19	Austin, TX	Austin Amateur Radio Supply	512-454-2994
Mon. Oct. 23	Memphis, TN	Memphis Amateur Electronics	800-238-6168
Tues. Oct. 24	Huntsville, AL	RT Systems Amateur Radio Supply	205-882-9292
Thurs. Oct. 26	Wilmington, NC	Communications H.Q.	919-791-8885

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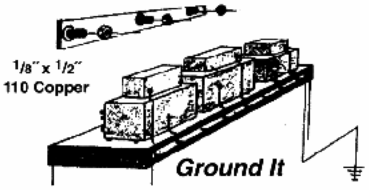

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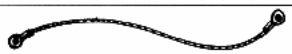

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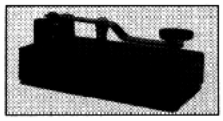

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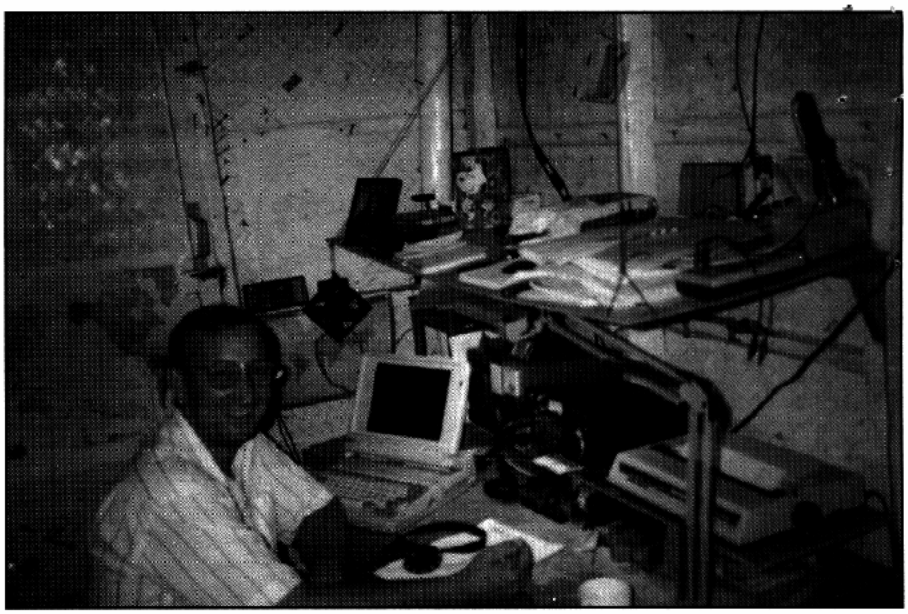

Tom put SMØCNS/DU7 in lots of logs.

and tks for the best test of the year . . . *G4OBK*. 88's to XYL for letting me put in the time so close to SSB test . . . *GM4BVJ*.

USA QRM

My favorite contest. Always fun, even from W5 during sunspot minimum . . . *K5MR*. VK8TM on 14070 kHz with 10 minutes to go was a good zone 29 catch! . . . *K7ABV* Trailer parked about 100 yards from shack loaded with dynamite and blasting caps! . . . *K6OQL*. VS6WO and KHØAM on 160 meters—Wow! . . . *KØCS*. Forty meters sounds more and more like 20! Was open to Europe or Asia 20 hours a day . . *W1FEA/6*. Operating time 20 hours. Operator's endurance = 1 hour! . . . *W2PAU*. While mowing lawn forgot the 80 meter wire was in the grass! Riding mower cut it into multiple 2 meter antennas, so didn't get to operate 80 . . . *W4PLL*. Wow! Fine conditions considering low sun spots. Was able to work a surprising number of JA's on 20 and 15! Good thing it was cold out, as my shack had electric heater working (3-500z's) . . . *K1JKS*.

You should have a contest just for the little pistols—too much competition against the "big pistols" . . *K2JF*. Kids home for Thanksgiving, but got some time in anyway . . . *K2NV*. Passing kidney stone half way through contest—that's all she wrote! . . . *K2SWZ*. This was the best I have ever done in a DX contest. I usually get in to just wrk a few stations, but this year I set a goal of 50 stations. I run only 5 watts with a 6Y6 final tube. I'm glad that you do not use serial numbers in your contest. That way I don't get disccuraged when I hear those high power guys . . . *K3WW/P*. Was surprised to have VK9NS answer my CQ . . . *K4RZ*. 100 watts to a vertical makes this a challenging contest . . . *K4XG*. Low dipoles stink. Still trying to get zoning ordinance changed . . . *K6LRN*.

Had a great time. Conditions seemed fair and good activity . . . *K6SG*. Great low-band conditions before the coronal hole arrived Saturday . . . *K9MA*. Achieved goal of at least 25 QSO's per band except 160 for first CW contest from my rural QTH . . . *KA2CDJ*. In the face of low solar activity, I worked more stations, zones, and countries with only 4 watts! . . . *KA6SGT*. It was fun as usual and provided some new band countries. Missed SU2MT on 80 again for one of the last needed zones . . . *KB4GID*. Had a great time in this contest. My age is only 11, but I have my General. I will be in the contest again next year with a higher score due to a new 70 foot tower . . . *KB8SUZ*. In a pinch used 40 meter beam on 15. Better than nothing . . . *KG4W*.

Best signal on the bands: VP5VW. A very classy operation. Best DX worked was 9G5AA. Best DX missed ZA or 20 which would have been an all time new one . . . *KI4HN*. I am 17 years old and this is my first time in the contest. Worked RUØLL on 40. I had never worked DX on 40 before that QSO . . . *KJ7EJ*. It's always great to hear so many familar calls and operators . . . *KK4SM*. Had a blast, discovered some strange propagation quirks, surpassed my goal. What more can anyone ask? Thanks to the faithful JA crowd for some really FUN runs! . . . *KN6EL*. Five watts from "black hole" of northern Minnesota = last in pile-ups . . . *KRØB (AF9T)*. Poor conditions. No Europe Saturday. Wind and rain static Sunday. Amazed to score what I did. Then there is always next year . . . *KV8Q*.

My first time in CQ WW contest. Spent more time on report than operating . . . *W2LRC*. First time tried computer logging . . . *W2TZ*. Conditions were so bad on Saturday evening that I took time out to listen to the Lawrence Welk program on PBS . . . *W3VT/4*. The DX opening on 40 was very nice. The patience of some DX operators was remarkable . . . *W4PBG*. I really enjoyed low power, as there was a sense of accomplishment to work overseas stations . . . *W4YN*. Greatest thrill was adding 5 new countries to my 80 meter total . . . *W5CWQ*. Had more contacts than I expected with predicted poor conditions . . . *W6BIP*. Due to Thanksgiving company, only spent 15 hours in the contest.

Hope to do better next year without the company . . . *W6KFV*. 9G5AA on 80 meters! . . . *W6MVW*. I was surprised at the level of activity considering the conditions of late. Turned out to be a FB contest . . . *W6NKR*. Was able to squeeze in only a few minutes of operating this year. Oh well! . . . *W6ZH*. Pet peeve: DX stations that don't identify for several minutes . . . *W7IIT*. First CQ WW ever. Great fun despite poor conditions. Twelve new countries for me. K7NPN made me do it! . . . *W7JHS*. Forty meter QRP is tough, but after a few no QSO's in the first 7 hours, a complete check revealed that the RIT was on. That's frustration! . . . *W8QZA/6*. Having my grandson, N9RIT, post a better score than me. Hi . . . *W9LNQ*.

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4U1ITU: UW3QG, S56A, DL7UTA, DL3DXX. **4U1VIC:** DL6RDR, DL6NCY, DL2MEH, DL1GGT, DHØRAK. **6D2X:** K5TSQ, W5VX, WB5VZL, WD5N. **9A5D:** 9A2FK, 9A2TL, 9A3VM, 9A3AM, 9A3DU, 9A4SG, 9A4DU, 9A4CB, 9A7AFL, Gogo. **AA1K/3 &** K3WJV. **AA6MC** & NI6T, AEØM. **AB2E &** WT3Q, NU3Y, KC3NE. **AG6D &** N4TQO, K2MM, N6YK. **C6AHX:** WM2C, WS4E, NF6S, KE7X,

KØPP, N7HKW. **DFØHQ:** DL1AUZ, DL3OI, DL4NAC, DL5ANT, DL5ATD, DL5AXX. **DF2RG &** DJ1US. **DKØEE:** DF3CB, DL1MFL, DL2MDU, DL4MCF, DL4MDO, DL4MEH. **DKØFFE:** DL2BWM, DL2BUM, DL2BKE. **DKØMM:** DJ0IF, DJ7IK, DJ8WI, DJ9GB, DL5XAT, DL8OBC, T94DX. **DKØTZ:** DL1SBF, DF5EN. **DKØUB:** DL1EFD, DL1EFO, DK7FP, DL9XY, DL1EKA, DJ2QV. **DK6WL &** DF7RX, DK2OY, UA2FJ, LA2FM. **DK9DA &** DK2YI. **DLØRH:** DF1HF, DK5XG. **DLØTUD:** DL5MUG, DL6DVU.

DL5XU & DK9FE, DL1ASA, DL1AWI, DL3AFO, DL5AWI, DL9AWI. **DL8HWA &** DL2HTO, DL6UST, DL8UWG. **EA1AU &** EA1DD, EA1NK. **EA3CW:** EA3ACE, EA3AIR, EA2ALV, EA3CWK, EA3GAS, EA3GFA. **EA5EU &** EA5FD, EA5SM, EA5YN. **EA5VN &** EA5DCL. **EI7M:** EI4BZ, EI3DP, EI6BT, EI5HB, EI9HC, EI6GF. **F6KCS:** F5JCB, F5PRH. **G3LNS &** G3NKC, G3SJJ, G3VHB, G4JGV. **GB5DX:** G4DJX, G3LKS, VE5ZX, NW1Z, G3RTE, G3NOH, G4XRV, G4JKS, G3OUF. **GB5WW:** GØLII, G3LZQ, G3PSM, G4BYG, G4DRS, G4MVA. **GM4TMS:** GM4DGT, GMØTTY, GM4UYE, GMØKWL, GMØAZC, GMØBWR. **GU3HFN:** GU3MBS, GU4SXM, GU4WRP. **GW8GT:** GW3KYA, GWØMAW, GW3NWS, GW6ZUQ, G4IFB, G4VXE, G3SUH, G3OAY, GW4LXO. **GXØAAA:** G3MXJ, G3TXF, G3WVG. **HB4FE:** HB9ADD, HB9CJG. **HSØAC:** HSØ/G3NCM, DK3GI, JA3KWJ, JM1RFT, LA7JO, YU7AU, YU7EF. **HS7AS:** HS1AAM, HS1CDX, HS1GOS, HS1EUD, HS7CDI, HS1KMZ/7, HS7ECI.

HZ1AB: N4KT, SMØCXU, SM5CCT. **IK2UCK &** IK2BUF, IK2MPV, Fabio, Carlo. **IK4UOP &** IK4CFV, IK4COH, IK4WNI, IK4IIN7. **IQ2L:** IK2IUR, IK2PFI, IK2QEI, IK2MLV, IK2NVU, I2OKW, IW2HPI. **IQ4A:** I4EAT, I4IKW, I4INO, I4LCK, I4LEC, I4PVP, I4TJE, I4VEQ, K4CZT, IK4DCT, IK4DKO, IK4EWK, IK4CJH, IK2NCJ. **IQ4T:** IK4HVR, I4YTE, K4SXJ, I4CZS, I4IFL. **IR2W:** IK2EGL, IK4MED, UA3DPX, I2VXJ. **IR5R:** I5ESH, IK5QDE, I5JHW, I5IIG. **IU2X:** IK2GSN, IK2GZU, IK2WAD, IK2SGO, IK2SAU, IK2FYH, IK2GXK, I2CZQ, IK2WAH. **J28EN:** J28FA, J28BS. **JA1YXP:** JI1SIF, 7K1FWD, 7M1WG7, 7N1WIY. **JA1ZLO:** JF1KML, JJ1MED, JK1BSX, 7M1CPG. **JA2YKA:** JG2LYJ, JQ2SLO, JS2ERL, KHØAZ, Masami. **JA6YCL:** JF4CZL, JE5UWK, JI6MYW. **JA8YBY:** JO1DFG, JH8PNE, JI8UCI. **JA9YAV:** JH9ETO, JRØELG, JA9-3010.

JE6ZIH: JH6GKT, JH6UEA, JI6BHB, JG4KEZ. **JH2ZUN:** JI2KGI, JE8KKX. **JH8YCT:** JJ7FBQ, JJ8NHY, JG1UHA, JH8WAH. **JJ3YBB:** JA3FHL, JA3LHL, JA3PJL, JE3TXA, JF3EIG, JH1ORI, JH3FRS, JH3FOF, JI3FFV, JR3HIII, JJ5OAA. **JR1ZTT:** JN1WSO, JEØIUZ, JRØXHL, JFØUUU, JEØBKI, JR1LWQ, 7L1XCM, JL6MPR, JFØMQX. **JT1T:** JT1CD, JT1EL. **K1AR &** K1EA, K1CQ. **K1KP &** WA1S, NB1B, KM1D. **K1TR &** K1RX, NX1H, N1HFE, K1MNS, K1BG. **K3DI &** WD4IEH. **K8AZ &** K8NZ, W1BC, NX8H, NI8L, W8CAR, W8KIC, KQ8M, N8ARD. **K8LX &** N8EA, WA8ZDT. **K9UWA &** KC9LA, KR9U, KR9V, KA9A, N9NO. **KB1H &** KZ1M, K1DW, K1EBY, WA1HYN, AA1CE, NX1Q. **KB3TS &** N3KEG. **KC1XX &** AD1C, KM3T, K1XX, KA1XN, N1RFE. **KF2KT &** KB2RVD, N2ZAK, RA9USU. **KO4EA &** WB4PJW, W4XD, WF3L. **KS9K &** KA9FOX, NB9C, NØBSH, WE9V, WX9E.

LU4FM: LU6UO, LU4FD, LU1WFA, LU8EHW, LJ5FIL. **LX/DFØBK:** DL8SGG, DL4SDX, DL5SEJ, DL4SDW. **LY1BXB:** LY1DQ, LY2BOS, LY3BHY, LY-R-1289. **LZ7N:** LZ1HI, LZ1JZ, LZ1NG, LZ1YQ, LZ1ZP. **LZ9A:** LZ1JY, LZ1UK, LZ2CC, LZ2DF, LZ2HE, LZ2I, LZ2JE, LZ2PL, LZ2PO, LZ2PS, LZ2TT, LZ2UU, LZ2WF, LZ2XA, LZ3DJ, LZ3SM, LZ5JW, LZ2-F-319, Vasko. **SP3KPN:** SP3GXU, SP3RXO. **N1AU &** WC1D, WA1TTV. **N2IC/Ø &** KØKR. **N2NU &** W2REH, WW2Y, K2WI. **N3BNA &** NM2Y. **N3RS &** N3ED, KY2I, N3RC. **N5HRG &** K9MK, W3SVH. **N5OK &** N5CG, WA6OTU, AA5WQ. **N6CQ &** WF3T, K3MQH, KQ3F, K3SWZ, NE3H, KV3J, WD3U. **NCØP &** WOØV, KFØH, WRØG, WAØFLS, WDØGVY, NØSM. **NM3K &** WE3E. **NO2R &** KU2C, KB2HZ. **NP4Z &** WC4E, KP4EJ. **NS2K &** WU3A. **NXØI &** KMØL, KØRWL, KBØU, NØBIW, KJØD, KØVBU, KBØISS, KCØEI.

OE2S: Club. **OH2M:** OH1JT, OH2BVI, OH2IW, OH2JA, OH2KVH, OH7JF. **OH4N:** OH4EA, OH4JFN, OH4KEC, OH4KZM, OH4MFA, OH4MDY, OH4NEW, OH4YR. **OH5LAQ &** OH5MLH. **OH7X:** OH4LTK, OH4LYX, OH6LNI, OH7MHL, OH7MS, OF7WV. **OH8MDG &** OH3MIZ. **OI6AY:** OH2LYW, OH2KHX, OH5MPZ. **OK2KDS:** OK2VWB, OK2HIJ, OK2-22265. **OK2KJU:** Club. **OK2KOD:** OK2BDI, OK2BGR, OK2BNX, OK2FID. **OL1CW:** OK1DUT, OK1FUT, OK1DXW. **OL3A:** OK1AY, OK1CM, OK1MR. **OM3A:** OM3CGN, OM3DX, OM3LU, OM7LU, OM8AM, OM8AW, OM8FM, OMØWR. **OM3RJB:** OM5CW, OM5FA, OM5NA, OM5EA, OM3CPG, OM5CD. **OM7M:** OK2BFN, OM3TZW, OM3PA, OM3TPV, OM3EY, OM7DX, OM3PC, OM5NU, OM3TWO, OM5AW, OM3TZQ, OM3TQM. **ON6AH &** ON5AV, ON4GC, ON6MH, ON6QR, ON9CME, ON6VL, ON7ZV. **OT4A:** ON4AID, ON4AWU, ON4BI, CN4DB, ON5DH, ON5SH, ON5OT, ON6EV, ON6ML, ON6MR, ON7SF, ON7VU.

OT4T: ON4WW, DL1SBR, DJ4AX, DL1VJ, DK7PE, RA3AUU, ON6TT, ON4JN, ON6WU, ON5NT, ON4AAC, ON6KD, ON6HE, ON7JF, ON5UK, ON4AFZ, ON7BEJ, ON4TJ, ON4EJ, ON1ACV, ON1CIK, ON7GB, ON4ANT, Frida, Marlene, Stefan. **PA3FHA/P** & PA3GKW. **PI4ALK:** PAØXAW, PA3DLA, PA3CVY, PA3FPA. **PI4CC:** PA3AIK, PA3BSQ, PA3FPD, PBØAIII. **PI4DEC:** PAØVRG, PAØTUK, PA3AAM, PA3AWW, PA3ERA, PA3FUE. **PI4TUE:** PA3GFE, PA3GLZ. **RKØQ:** UAØQDL, UAØQN, UAØQAU, UAØQAS. **RK1OWZ:** UA1OZ, UA1OSS, UA1OMZ, UA1OMX, UA1ODN. **RK9AWN:** RA9AA, UA9AR, RA9ALC, RA9AIW, RA9AIU, RA9AX, UA9AU, RA9ANR, RA9AEW. **RS3A:** RA3DUU, RX3AEV, RX3AQL, RX3DAZ, RV3DDZ, RW3DD, ER2CQ, RW3AI, RK3AXX, UR4VJA, UA3-170-79. **RW1Q:** UA1OM, UA1OV, RA1ODC, RA1OFE, Sivoiap, ex-UA9WAL. **RW2F:** RA2FA, RAØFA, UA2FB, UA2FF, UA2FX, UA2FZ, UA2AO, UA2CY, UA2FBR, UA2FBS, UA2FFX, UA2-125-767.

RZ4AYT: UA4-156-1057, UA4AJ, UA4AIY, UA4ALI, RA4AI. **RZ4PZL:** Khmyz, Blinov, Carpenko. **RZ6LZL:** UA6LP, RA6LFC, RA6LBX. **SK1PW:** SM1ALH, SM1OII, SM1TDE. **SK4AO:** SM4PEL, SM4OTI, SM4HFI, SM4KRL, SM4KSM. **SK6AW:** SM6CAS, SM6CDG, SM6CVE, SM6DER, SM6EHY, SM6GBM, SM6IQD, SM6LFJ, SM6MGZ, SM5UQJ, SM6VAO. **SK6EI:** SM6LPF, SM6REA, SM6CMR, SM6OEF, SM6LPG, SM6GOR, SM6TOL. **SK6WU:** SM6ASB, SM6KHN. **SLØCB:** SMØMXO, SMØNSJ, SMØTXT. **SPØPKQ:** SP6EJH, SP6FER, SP6HAO. **SP9KRT:** SP9HNB, SP9ADU, SP9-1753. **TM8A:** F5SSG, F5OZF, F5NTV. **TM9C:** F5IN, F5QF, F5LGE, F6ARC, F6DZS, F6FVY. **TU5EV &** TU2XT. **UN5G:** UN8GO, UN8GJ, UN7GF. **UT7W:** UR5WCW, UT7WA, UT7WZ, UT7WW. **UU4JWI:** Retser, Nachitailov, Cherkasov. **VE3EJ &** VA3DX, VA3EU, VA3NA, VA3RU, VE3CDX. **VE6AO:** VE6AAV, VE6CIZ, VE6JO, VE6RCI, VE6AMR, VE6EX, VE6KC.

VE7U: VE7WRA, VE7WNA, N2PNG, VE2QBI. **VK4MZ &** VK4EMM. **VP2MDE:** W5ASP, K5GN, VP2MEG, VP2MFH. **WØCP &** K9AY, N3SL, KCØD. **W1CW &** W1YL, K1ZX, G4BKI, WB4BBH, K1KNQ. **W1XS &** WS1K, NU1H. **W3GG &** WD3I. **W4PRO &** WB4DNL, W4DHZ, K4IX. **W6GO &** AA6WJ, KV6H, N6IG, NB6G, N6IYS, WG6II. **W6REC &** RAØFC. **W9KDX &** K9RN, K9BG, KS9W, AA9LX, KF9LB. **WA6IET &** W2KVA, KO6GA. **WE1B:** N1KKY, AA1FN, N1JAC, WF1L, KA1EUX. **WH6R &** N6VI/KH6, AH6MZ. **WT1T &** WO1N, WB1ELA, K1MBO, K1TWF, WA1TET, KT1O, WN1V. **WXØB/5 &** NA5Q, AL7CQ, KN5E, AB5CY. **YU1AAV:** Sasailic, Bozic, Stojiljkovic, Bozic, Aleksic. **ZF1A:** WA6VNR, W6OSF, K4UVT, K9LA.

Picture QSL card of RUØLL from Vladivostok.

STATION OPERATORS
Multi-Op Multi-Transmitter

6E2T: N6AZE, N6KI, W6UQF, K9VY, KM6SN. **9A1A:** 9A2DC, 9A2HO, 9A2LJ, 9A2MP, 9A2OG, 9A2RA, 9A3GW, 9A3NR, 9A4WW, 9A6ABX, F2CW, Vjeko. **9G5AA:** G3SXW, GM3YTS, KC7V, K7GE, N7BG. **DLØKF:** DK7XS, DL3LBX, DJ3UL, DJ6TN, DL2ZT, DF4PA, DK5TI, DK8LV, DJ4FZ, DL8KUA, DK7LN, DF3LZ, DJ9MT, DF6LI, DJ2BV. **EM2I:** UR3IKY, US1ITU, UT2IA, UT2IB, UT2ID, UT2II, UT2IJ, UT2IM, UT2IO, UT2IZ. **F6KJX:** F5FOX, F5MLJ, F5MFL. **HG73DX:** HA1AH, HA1DAC, HA1DAE, HA1TJ, HA2RV, HA2RX, HA5AWH, HA5CCC, HA5FM, HA5GF, HA5IW, HA5ML, HA5OM, HA5TI, HA5WE, HA6NF, HA6ND, HA6NL, HA6NQ, HA6NY, HA6ON, HA6PX, HA6WX, HA7RY, HA7VB. **IK2VUE &** IK2XNW. **IR5R:** I5ESR, IK5QDE, I5JHW, I5IIG. **IU2D:** IK2ILH, IK2MMF, IK2IKT, IK2OHG, IK2MRZ, IK2OFR, IK2FEO, IK2EKY, IK2GAU, IK2RJK, IK2VJF.

J45T: SV5TH, SV5VR, SV5BYR, SV5BYT, SV5BYV, SV0/KB4PMS. **J77J:** K1XM, KQ1F, AC1O, G4WJS, G4WVX, K4BAI. **JA1YDU:** JHØNZN, JHØLFE, JA9VDA, JF7TFK, JRØJFM, JI2UYK, 7L1DGK, JM1JWB, JJ1CFQ, JQ1QOW, JS1INN, JI7MYI, 7L1FTO, JP1CWU, JJ1DYR, JI2ICF. **JA3YKC:** JI3MCM, JM3FVL, JG4LSR, JL4CVB, JP3PZD. **JA3ZOH:** JH3DPB, JH3PRR, JE3MAS, JG3UCW, JG3KIV, JG3MRT, JG3WDN, JI3OPA, JM3XKG, JH4IFF, JH4NMT, JH4RHF, JR4ISF, JF4FUF, JK4KSD. **JA7YAA:** JE1AMC, JF1CKK, JF1SXL, JJ1CVH, JM1QPH, 7M1JAS, JK7RZN, JL7LYM, JL7MXK, JRØSPG. **JH5ZJS:** JA5BJC, JA5FDJ, JA5JCC, JA5THU, JR5PDX, JR5VHU. **K1KI &** K1TO, K1CC, K1ZZ, W1OD, AA2Z, K5FIV. **K3ANS &** N2RIM, WF3H, JH7PKU, N2EA, K3YD, NC3C, N3JGX, N3IYX. **K3LR &** WR3G, W3YQ, K8CX, NA8V, K3KO, WD8IXE. **K4VX &** K4XU, N4CC, K5GO, AA9D, K9BGL, KD9C, KIØW, N9JF, NSØZ.

KHØAM: JE1CKA, AHØK, JA1WSX, JF1MIA, JO1RUR, JP1OGL, 7L1GVE, JH1GTV, JF1SQC, JE2JCV, JK3GAD, JE7BIZ, JR7OMD, JA9SSY. **KY1H &** NT2X, WZ1R, KB1W, KM1P, AA1AS, NY1L, WM1K, NJ1F, WT2Q, W1NG, RA3AKR. **KY3N &** WB3FIZ, W8FJ, WU3M, WN3K, W3SLFZ. **LY7A:** LY1DF, LY3DA, LY2BDW, LY3BEC, LY2BMX, LY2FN, LY2NK, LYR346, LYR728, LYR1751. **N2MM &** WB2R, AA2NS, KE3GA, K2TD, WK2G. **N2RM &** K3UA, W2RQ, N2AA, KZ2S, KA2AEV, N2BCC, WM2H, KE2PF, W2GMA, K2TW, KR2J. **N6DX &** AD6C, N5IC, N6VR, N6HZ, N6RVZ, N8SR, KC6X, WA6CDR, WB6SHD. **NE3F &** NT3F, K3ATO, KS3F. **NL7G &** KL7Y, KL7FJ, KØMVL, KL7U, NL7VJ, KL7AF, KL7DM. **OH1AJ:** OH1JM, OH1ID, OH1WR. **OL7O:** OK1AW7, OK1CF, OK1FKD, OK1JKT, OK1WF, OK1WT, OK1TN, OK2RZ, OK2ZW, OM3TPG. **OZ4HAM:** OZ2JZ, OZ8PER. **OZ5WQ &** OZ1BIZ, OZ3PE, OZ3ZW.

PI4COM: PA3ALP, PA3BBP, PA3BWD, PA3CAL, PA3DMH, PA3ERC, PA3FVW, PA3GBQ, PAØCLN. **RU1A:** RU1AA, RV1AW, RW1AC, UA1ANC, UA1ARL, RV1AO, UA1-2574. **RW9C:** RA9CBS, RA9CMO, RA9DK, RA9DZ, RU9CK, RU9CZ, RW9CF, RZ9CA, RZ9CO, UA9CDC, UA9CDT, UA9CDV, UA9CIR, UA9CGA, UA9DD, UA9FQY, UW9CO, UN7-26-577. **UU5J:** LZ3DB, UB5-67-1025, UB7-67-2, UT7CR, UJ1JA, UU2JQ, UJ2JX, UU2JZ, UU3JD, UU3JW, UU4JDF, UU4JFJ, UU4JKC, UU5JF, UU8JJ, UUØJM, UUØJX, UUØJZ, UX7CQ. **VP2EZA:** ND3A, ND3F, WR3Z. **VP5VW:** K8MHO, W1BN, WØCG, W6RGG, WA4CRU, WD8LLD, WD8AUB. **WØAIH/9 &** KØFVF, NØAXL, AAØOD, KØEA, WAØRBW, W4ETO, AIØY, WØUC, ND9O. **W3LPL &** WR3E, W3FKT, AI3M, KE3Q, KF3P, K3RA, N3RR, W4BQF, KO7V, KE9A, KP4XS. **W4MYA &** WA4QDM, K4BAM, WA4PGM, KX4S, Vicky.

W7RM & AA7NX, N6TR, WA6BXH, WJ7R, AA7VB, NV7F. **YKØA:** WA2TMP, K3NA, K6ANP, W6OAI, W6OTC, NW6P, N6IV, WØYK. **YU7ØL:** YU1OO, YU1ML, YU1JU, YZ1GD, YZ1ZI. **Z3ØM:** Z31GX, Z31GB, Z31FK, Z31ET, Z31VP, Z31CN, Z32XX, Z32JA, Z32XA, Z32KO, Z31WW, Z32KV, Boby san, Tone. **ZM2K:** ZL2AGY, ZL1AIZ, ZL4SS, ZL2IN, ZL2DX, ZL2BSJ, ZL2AHC, ZL2IR, ZL2AL.

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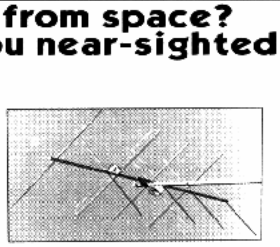
If you're using a turnstile or other typical omnidirectional APT antenna, your vision is limited to near-overhead passes. With the APT-4X4 and a suitable rotor, you can extend your view of the earth. We typically receive full passes, without ANY noise, with a maximum satellite elevation of ONLY 9°. This means your East/West horizon is more than 4500 miles! Mid-States see well into the Pacific and Greenland. The APT-4X4 is circularly polarized for improved gain and reduced MD. You can choose from three models of APT yagi, plus C.P. Ground Plane. You get heavy duty construction; APT antennas are made of aluminum and stainless steel with solid 3/8" dia. elements passing through the boom. Call to order or request product guide on all VHF antennas and other products.



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SINGLE OPERATOR

NORTH AMERICA

UNITED STATES

K5ZD/1	**A**	**4,037,408**	**2471**	**132**	**430**
KM1H	**"**	**3,905,136**	**2460**	**131**	**433**
					(Opr. KQ2M)
W1KM	**"**	**3,443,040**	**2198**	**126**	**414**
N6BV/1	**"**	**2,793,570**	**2036**	**116**	**378**
W2SC/1	"	2,436,954	1831	121	350
W1WEF	"	1,962,326	1507	116	350
WA3ECT/1	"	795,166	933	78	224
K5MA/1	"	522,937	573	94	225
K1EFI	"	331,540	435	74	200
KG1D	"	300,909	407	78	189
WE6G/1	"	256,450	406	66	164
W1CNU	"	81,125	188	35	86
AA1KY	"	80,032	184	54	110
W1YN	"	56,724	169	36	80
N2LTK/1	"	31,930	114	35	68
AE1D	"	2,542	30	13	18
K2SX/1	**14**	**442,550**	**939**	**38**	**129**
W1ZK	"	164,880	398	36	108
KD1SG	"	39,000	177	21	57
KT1T	"	442	26	8	13
NJ2L/1	7	62,060	219	28	79
AK1N	"	42,183	145	29	80
W1MK	**3.5**	**202,420**	**621**	**24**	**92**
***W1PH**	**A**	**1,182,216**	**1007**	**100**	**334**
***K2TE/1**	**"**	**709,920**	**728**	**89**	**271**
***KM1X**	**"**	**639,184**	**680**	**98**	**266**
*WS1E	"	461,472	514	98	260
*WA1LNP	"	392,504	565	88	238
*K8JIF/1	"	179,961	296	66	157
*W2IK	"	171,450	295	74	151
*KB1KM	"	164,220	252	76	179
*W1AX	"	118,146	226	59	135
*K2MN/1	"	23,850	93	25	65
*K1VSJ	"	13,020	70	28	42
*KD1ON	"	9,453	57	25	44
*KQ1V	28	6,440	55	14	32
*WV1C	14	18,936	100	22	50
*WØMHK/1	7	6,630	55	16	35
*W1WMH	"	1,160	26	12	17
N2NT	**A**	**3,320,772**	**2154**	**132**	**414**
N2LT	**"**	**3,014,190**	**1967**	**131**	**404**
N2BA	**"**	**1,911,306**	**1475**	**112**	**349**
WA2ASM	"	567,504	629	91	245
WA2VYA	"	528,522	553	95	259
KA2HVU	"	519,100	636	72	218
K2NV	"	389,136	507	79	189
N2VIF	"	245,024	368	74	174
WR2YQH	"	240,560	360	71	177
KW2J	"	197,138	324	74	167
W2PMU	"	192,015	276	69	186
WE2RAJ	"	188,368	298	68	176
AA2GQ	"	157,113	282	66	141
N2PLE	"	109,028	217	59	135
N2LSK	"	77,550	185	50	115
N2EA	"	60,720	166	41	97
WA2UDT	"	56,631	160	44	42
N1CC/2	"	36,223	150	27	62
N2VPI	"	31,900	127	35	65
W2FXA	"	28,231	96	37	72
KE2OP	"	26,304	100	36	60
K2MP	"	26,208	100	28	68
WA2ABN	"	10,998	61	32	46
N2FY	"	9,240	55	17	39
WØVU/2	"	8,050	43	30	40
AE2T	"	6,750	46	20	34
K2DM	"	5,328	42	18	30
KB2HK	"	3,432	30	18	26
W5KU/2	"	3,420	31	17	28
WB2ABD	**14**	**169,188**	**434**	**34**	**104**
K2AW	"	102,124	395	33	88
K2SIG	**7**	**47,726**	**180**	**27**	**71**
W2XL	"	10,354	63	19	43
W2VO	**1.8**	**8,357**	**56**	**16**	**43**
N2KA	"	1,800	24	8	22
***K2SG**	**A**	**1,017,620**	**934**	**103**	**307**
***K2QMF**	**"**	**645,759**	**565**	**110**	**340**
*WAØQOA/2	"	488,431	617	78	215
*K2SHL	"	401,294	508	79	234
*AA2SZ	"	337,272	406	84	228
*W2KHQ	"	217,424	362	57	157
*N2PLB	"	140,995	269	62	153
*KA2CDJ	"	104,804	211	62	135
*K2JF	"	80,496	184	57	115
*NA2Q	"	76,797	185	56	105
*W2TZ	"	71,288	207	48	85
*WA2YSJ	"	53,654	147	47	92
*W2OMV	"	52,374	156	41	88
*WB2JFP	"	46,000	141	43	82
*K2SWZ	"	22,984	94	36	68
*AA2Y	"	18,423	79	30	59
*WB2DVII	"	15,747	72	32	55
*K3GYS/2	"	11,826	65	25	48
*W2LRO	"	10,998	82	33	45
*WA2LCC	"	10,731	60	28	45
*KF5FK/2	"	224	7	7	7
***WA2C**	**21**	**87,138**	**298**	**22**	**81**
***K2MFY**	**"**	**56,826**	**207**	**23**	**76**
*AE2N	14	2,132	50	10	16
*N2MBM	"	1,574	44	6	10
*K2DW	7	10,680	73	17	43
*WA2VQV	"	260	10	3	10
***W2FCR**	**1.8**	**10,203**	**71**	**14**	**43**
K3ZO	**A**	**2,752,000**	**1896**	**131**	**381**
W3BGN	**"**	**2,289,804**	**1625**	**119**	**379**
K3TEJ	"	835,110	755	109	296
W3FV	"	783,591	637	110	337
K3TUP	"	655,920	652	105	255
W3AZ	"	497,519	527	94	247
W3GK	"	451,605	478	99	246
W3GN	"	443,980	535	98	218
K2DOX/3	"	300,960	394	88	200
W3NX	"	217,750	333	85	165
K3OX	"	216,744	305	78	186
KL7HIR/3	"	209,125	385	71	168
AD8J/3	"	93,195	202	42	80
W3QIR	"	86,907	190	57	120
N3FDL	"	44,688	110	49	103
NI3I	"	28,017	102	31	37
N3KR	"	18,174	92	25	53
K3NI	"	3,276	30	17	25
KE3Q	**28**	**44,100**	**243**	**21**	**69**
AK3Z	14	2,208	26	15	17
W3GH	**7**	**184,350**	**447**	**34**	**116**
WZ3Q	**3.5**	**106,624**	**324**	**29**	**90**
WE3C	**"**	**77,080**	**302**	**21**	**73**
K4JLD/3	"	15,686	99	15	47
***W2UP/3**	**A**	**1,298,650**	**1044**	**114**	**361**
*W3UJ	"	373,277	475	74	209
*K2PH/3	"	360,598	439	88	213
*WT3W	"	261,738	375	74	188
*AA3HM	"	255,518	378	71	180
*W3CPB	"	64,218	174	43	95
*N3RW	"	51,987	154	33	91
*NV3V	"	9,112	52	25	41
***N2WCQ/3**	**14**	**68,508**	**258**	**28**	**71**
					(Opr. UT4UZ)
*WA3DMH	"	10,600	73	15	38
***WW3S**	**7**	**17,640**	**102**	**19**	**51**
N4RJ	**A**	**3,177,636**	**2109**	**141**	**391**
					(Opr. KM9P)
N6AR/4	**"**	**2,317,344**	**1390**	**154**	**452**
W4RX	**"**	**2,285,758**	**1562**	**134**	**380**
KT3Y/4	**"**	**2,171,334**	**1558**	**124**	**377**
WZ4F	"	1,186,702	1048	118	300
W3VT/4	"	1,032,444	770	127	355
KA4RRU	"	767,900	813	99	251
AD4KE	"	612,417	579	93	290
N4XM	"	538,891	579	103	244
AA4S	"	537,115	560	102	253
AC10/4	"	511,014	578	85	237
					(Opr. WD8RIN)
W4AI	"	443,468	425	117	265
W1IHN/4	"	397,656	541	78	185
W4PLL	"	271,566	352	84	198
N4MVI	"	226,005	323	71	176
N4UH	"	128,450	257	50	125
WB4RDV	"	100,016	207	62	126
N4KE	"	97,948	192	64	124
AC4ZO	"	91,176	214	57	117
K5OTI/4	"	62,720	139	52	108
W4LMJ	"	56,440	150	39	97
AE4LT	"	43,070	114	47	99
AC4PQ	"	38,468	123	41	77
W8CNL/4	"	36,855	114	37	80
KC4ELO	"	35,250	125	47	78
W4IF	"	30,906	107	37	71
WA4ORG	"	26,215	93	33	74
K4EZ	"	22,010	117	19	71
WA4MCZ	"	20,534	164	47	89
NF4L	"	15,500	64	42	58
W4KPW	"	10,877	65	30	43
W4OGG	"	7,731	83	37	56
AD4ZE	"	6,944	48	25	37
KA4HMV	"	4,720	49	28	37
W4YV	**28**	**29,797**	**176**	**22**	**61**
N4BP	**"**	**27,864**	**174**	**22**	**59**
KC2X/4	**21**	**226,980**	**615**	**31**	**99**
K4ISV	**"**	**208,488**	**648**	**34**	**102**
					(Opr. NI4M)
N4CT	**"**	**205,610**	**513**	**34**	**111**
K4JPD	**"**	**166,522**	**440**	**33**	**106**
W4PZV	**"**	**162,540**	**483**	**30**	**96**
					(Opr. WA4SVO)
K4RZ	**14**	**91,988**	**282**	**29**	**87**
W4NTI	**"**	**53,088**	**206**	**23**	**73**
N3AHI/4	"	2,436	30	9	19
WB4MAI	**7**	**107,316**	**285**	**32**	**100**
AD4MQ	**"**	**87,252**	**238**	**34**	**98**
K4PI	**3.5**	**108,642**	**350**	**25**	**89**
WA4CTA	**"**	**100,796**	**327**	**27**	**86**
NL4Y	"	51,183	214	27	72
K4TEA	**1.8**	**21,128**	**108**	**20**	**56**
KX4R	**"**	**8,791**	**61**	**16**	**43**
K4YYL	"	3,135	38	9	24
***K7GM/4**	**A**	**1,149,528**	**967**	**114**	**340**
***K7SV/4**	**"**	**870,916**	**745**	**131**	**347**
*N4YDU	"	447,744	602	87	231
*KK4SM	"	276,774	376	84	199
*AA4CA	"	272,157	399	72	177
*N6LM/4	"	255,368	405	66	167
*AD4IL	"	221,136	315	78	194
*K4XC	"	216,752	341	84	164
*N4GAK	"	190,226	290	71	156
*W4DFC	"	153,595	271	73	148
*K4UTE	"	148,785	200	89	184
*N4DW	"	141,381	262	63	144
*KN4Y	"	110,229	249	50	123
*WA4ZXA	"	109,686	239	56	125
*K4FPF	"	105,378	200	57	136
*KR4DL	"	65,493	150	61	110
*KI4HN	"	57,984	160	51	100
*WB4VKW	"	37,788	111	54	80
*KR4NY	"	26,159	96	34	67
*AA4KD	"	26,028	101	39	69
*W4PBG	"	23,828	97	34	58
*AB4KL	"	22,862	235	19	52
*W4YN	"	9,459	90	37	60
*K2YJL/M4	28	1,464	16	8	16
***WB4TDH**	**21**	**119,000**	**349**	**33**	**86**
***N4MO**	**14**	**186,320**	**489**	**36**	**100**
***WA6KUI/4**	**"**	**128,570**	**369**	**33**	**97**
***AB4RX**	**7**	**54,827**	**181**	**31**	**78**
***WR4K**	**"**	**41,106**	**150**	**27**	**75**
***K4LDR**	**"**	**33,582**	**142**	**23**	**64**
K5MR	**A**	**2,021,940**	**1539**	**148**	**330**
N5RZ	**"**	**1,824,268**	**1323**	**145**	**357**
W5UDA	"	617,440	635	100	240
KD5M	"	470,905	524	102	244
AB5YC	"	359,855	485	93	201
NJ1V/5	"	248,000	500	68	132
KM5G	"	203,975	352	32	102
AB5I	"	54,365	153	49	82
AH9B/W5	"	8,588	48	36	40
WM4Z/5	**14**	**188,430**	**638**	**31**	**78**
WA5OYU	"	118,521	396	33	84
W5CWQ	**3.5**	**15,360**	**91**	**20**	**44**
WF5E	"	12,033	74	22	41
K5WXZ	**1.8**	**4,500**	**44**	**15**	**30**
N5NMX	"	3,040	36	14	24
***K5KLA**	**A**	**598,950**	**616**	**108**	**255**
***WD5K**	**"**	**420,600**	**509**	**102**	**198**
*W5VGX	"	323,136	410	107	190
*NN5T	"	262,870	352	95	176
*K5ZDX	"	139,499	260	69	130
*KJ5YM	"	76,050	190	61	108
*NZ5O	"	58,797	164	49	90
*KB2HW/5	"	31,610	113	42	67
*AJ4F/5	"	18,130	91	41	57
*WØVX/5	"	10,488	56	30	39
*W5GAI	"	8,990	52	23	39
***W5FO**	**14**	**170,170**	**422**	**38**	**105**
K6NA	**A**	**1,611,610**	**1266**	**150**	**305**
AB6FO	**"**	**1,348,032**	**1486**	**115**	**221**
N6TU	**"**	**1,122,329**	**1065**	**129**	**248**
AI6V	"	859,732	966	117	197
W7CB/6	"	500,547	701	92	167
W6OUL	"	328,104	472	96	152
K6VX	"	317,440	456	100	156
WA5VGI/6	"	293,345	494	79	136
W6FSJ	"	292,340	430	88	157
W6MVW	"	206,248	332	84	148
K6FO	"	169,306	297	83	136
W6WB	"	117,467	251	60	113
AB6YL	"	103,230	260	64	91
N6IBP	"	100,408	236	65	98
K6DR	"	90,675	219	66	89
W6RFF	"	69,376	196	53	75
K6LRN	"	43,318	140	54	67
W6RO	"	28,160	129	37	43
					(Opr. N6MI)
W6ISQ	**28**	**2,070**	**30**	**13**	**17**
W6YA	**21**	**213,614**	**594**	**33**	**94**
W6ESY	"	55,440	242	27	61
NW6S	"	41,712	189	23	56
K3EST/6	**14**	**458,060**	**1083**	**39**	**109**
W6QHS	**"**	**192,786**	**527**	**36**	**91**
W6NKR	"	59,762	213	31	65
W6KFV	"	30,186	130	26	60
W6OVQ	"	3,181	56	18	31
N6AW	**7**	**335,069**	**762**	**40**	**111**
W1FEA/6	**"**	**104,081**	**390**	**29**	**68**
K6MO	1.8	297	12	6	5
***W6JTI**	**A**	**693,548**	**780**	**116**	**216**
***K6XV**	**"**	**655,109**	**855**	**107**	**192**
*K6OY	"	502,737	539	108	231
*N6NF	"	300,312	438	97	161
*N6JM	"	105,377	231	68	99
*N6GL	"	99,060	245	62	94
*W6PYX	"	88,053	226	64	83
*N6NG	"	78,900	198	61	98
*AA6EE	"	51,330	172	52	66
*WD6DXF	"	39,785	142	50	59
*N6AZR	"	39,063	176	41	46
*AE9F/6	"	33,320	165	21	47
*W6NNV	"	26,394	95	47	59
*KK6RG	"	1,131	16	15	14
*WA6FGV	21	13,572	98	18	34
*W6JTA	"	10,927	80	21	28
*KU6T	14	16,530	104	23	35
*N2ALE/6	"	25	3	2	3
*W8QZA/6	7	5,363	70	12	19
*KJ6DL	"	1,920	28	15	15
*WA6WPG	"	882	24	6	8
N7ML	**A**	**880,581**	**952**	**114**	**223**
W2VJN/7	**"**	**862,967**	**941**	**120**	**209**
K6XQ/7	"	382,525	504	100	175
W7SE	"	347,490	443	104	182
K7ABV	"	303,644	425	93	175
KA7T	"	205,408	340	82	142
W7LR	"	204,352	301	91	157
AA7FL	"	193,620	345	78	132
WG7A	"	184,576	323	80	126
W7LGG	"	172,659	297	72	129
NT7E	"	171,864	336	66	120
N7AGP	"	164,350	375	67	106
W7IIT	"	149,234	324	64	102
N7JXS	"	117,230	278	66	94
W7QDM	"	114,840	256	71	103
K9JF/7	"	88,695	153	82	137
NN7F	"	71,603	147	77	116
W8AEF/7	"	59,280	185	45	75
KX7J	"	30,739	111	40	59
KJ7EJ	"	22,862	147	36	35
N7IXG	"	17,420	103	34	37
KI7K	"	6,417	70	11	20
WA7KLK	**28**	**2,000**	**29**	**10**	**15**
N7IRR	**14**	**126,000**	**393**	**30**	**82**
W7AYY	"	30,044	145	25	49
KC7EM	**7**	**409,676**	**960**	**36**	**110**
NX7K	**"**	**158,064**	**473**	**36**	**92**
***K7NPN**	**A**	**138,278**	**325**	**69**	**97**
***W7QN**	**"**	**129,675**	**278**	**69**	**106**
***N7EPD**	**"**	**127,263**	**260**	**72**	**105**
*W7YS	"	97,744	238	56	93
*W7JHS	"	28,470	126	39	39
*NN7A	"	23,463	91	44	55
*W7TSC	"	14,600	77	35	38
***N7RO**	**14**	**160,398**	**501**	**32**	**82**
*WAØRJY/7	"	135,642	443	31	80
*W7HS	"	72,267	232	31	78
*K6OVB/7	"	12,932	90	20	33
*K7WA	3.5	736	19	9	7
K3JT/8	**A**	**636,080**	**642**	**114**	**261**
W8ILC	"	305,162	386	79	207
W8KTQ	"	216,200	374	80	155
WA8SAE	"	183,456	301	81	153
KB8VR	"	150,870	238	76	157
W8UPH	"	118,272	267	54	114
KB8JM	"	65,258	181	42	92
K8UC	"	53,424	164	44	82
NT8V	"	36,162	107	36	90
K4FW/8	"	1,053	83	21	55
K8OOL	**21**	**118,900**	**382**	**32**	**84**
KV8Q	"	47,846	187	26	68
K8GL	**14**	**427,356**	**913**	**37**	**125**
WB8VPA	"	94,512	257	34	98
W8IQ	"	52,500	181	32	73
NB8XS	"	52,359	206	28	65
W8PN	7	874	14	10	12
W9LT/8	**3.5**	**85,845**	**332**	**20**	**77**
W8JGU	**"**	**77,112**	**259**	**25**	**83**
AA8U	**1.8**	**11,966**	**141**	**18**	**44**
W8OID	**"**	**3,784**	**36**	**14**	**30**
***KF8TM**	**A**	**237,771**	**339**	**80**	**181**
*WB8BMV	"	102,084	210	63	126
*KA8ZPE	"	72,090	156	61	117
*N8KSO	"	56,695	172	45	84
*W8IDM	"	17,711	86	34	55
*WB8ORV	"	9,760	61	23	38
*KI8O	"	1,551	54	15	18
***W8UMR**	**14**	**75,376**	**236**	**29**	**83**
*KB8NTY	"	16,947	118	21	42
***KW8J**	**7**	**27,804**	**129**	**24**	**60**
W9RE	**A**	**1,864,160**	**1359**	**133**	**355**
K9MA	**"**	**836,600**	**827**	**113**	**263**
WN9O	"	607,095	557	126	279
WB9IIQ	"	602,316	644	95	243
WB9HRO	"	406,326	549	91	190
AA9JY	"	174,838	334	76	70
WC9S	"	137,588	242	66	146
K9QYC	"	56,889	140	51	96
W9RN	"	53,392	144	48	94
K9OM	**21**	**63,700**	**228**	**28**	**72**
W9GIL	**"**	**48,312**	**196**	**25**	**63**
WA9BOW	"	30,498	142	25	53
W9OF	**14**	**170,955**	**415**	**37**	**108**
KA6A/9	**"**	**166,784**	**473**	**34**	**94**
K9CAN	"	160,992	440	34	95
WA9ITQ	7	18,375	97	22	53
N9NC	**3.5**	**33,553**	**153**	**22**	**67**
WB9Z	**1.8**	**23,100**	**121**	**19**	**56**
***K9LJN**	**A**	**476,705**	**526**	**103**	**232**
***NA1R/9**	**"**	**309,551**	**439**	**86**	**177**
*KS0SH	"	47,704	137	48	86
*WB9ZPK	"	10,565	53	33	32
*W9LNQ	"	1,108	44	38	40
***KO9Y**	**21**	**93,170**	**280**	**30**	**91**
***W9CH**	**7**	**77,880**	**231**	**33**	**87**
*K9MMS	"	34,592	162	22	62
*K9GS	"	16,575	93	23	52
***AA9AX**	**3.5**	**12,449**	**90**	**16**	**43**
KØRF	**A**	**1,932,678**	**1569**	**137**	**317**
KØEU	**"**	**1,496,940**	**1308**	**134**	**275**
KØKX	**"**	**953,856**	**823**	**122**	**292**
NSØB	"	369,222	455	97	201
WBØO	"	323,646	377	108	215
KEØUI	"	170,138	338	69	125
WØML	"	151,512	302	58	119
WØHW	"	124,380	257	62	118
WØRSR	"	83,655	210	54	89
WXØS	"	41,866	143	49	72
WØRT	"	18,540	75	39	51
WAØCLR	"	15,480	69	31	55
KJØE	"	6,821	49	20	29
NQØI	**14**	**395,100**	**982**	**37**	**113**
KØKE	**"**	**378,896**	**966**	**34**	**102**
					(Opr. KTØF)
WIØR	"	44,100	175	28	62
KØOD	**7**	**124,712**	**342**	**34**	**97**
WCØY	**3.5**	**22,100**	**123**	**17**	**51**
KCØEI	"	9,126	67	15	39
KVØQ	**1.8**	**14,030**	**99**	**20**	**41**
WØRXL	"	1,764	30	11	17
***AAØSQ**	**A**	**125,994**	**279**	**58**	**108**
*KØGSV	"	51,308	146	46	61
*K9BQL/Ø	"	28,914	128	30	49
*WAØENX	"	21,883	100	24	55
*AAØPB	"	18,228	84	36	48
*WCØAVV	"	5,751	40	21	50
*WAØOZP	"	4,914	44	18	24

ALASKA

NL7DU	A	39,975	200	29	46
AL7MX	**1.8**	**7,353**	**197**	**9**	**10**

ANTIGUA & BARBUDA

V29J	**14**	**423,021**	**1660**	**28**	**75**
					(Opr. N6TJ)
***V2/G6QQ**	**A**	**385,284**	**898**	**59**	**135**

BAHAMAS

***C6A /N4RP**	**A**	**490,915**	**944**	**76**	**159**
***C6A /AA6EW**	**"**	**86,005**	**411**	**32**	**71**

BERMUDA

***VP9MZ**	**A**	**101,500**	**361**	**47**	**78**

CANADA

VO1MP	**A**	**1,225,095**	**1522**	**83**	**252**
VE1AI	**"**	**844,830**	**1090**	**86**	**229**
VG1HA	"	687,165	948	85	220
VE9ST	**14**	**654,885**	**1860**	**35**	**112**
***VE1AZN**	**A**	**607,600**	**1024**	**64**	**181**
***XO9SF**	**"**	**596,936**	**1080**	**59**	**173**
*VG9HF	14	36,060	288	19	41
*VE5AA	1.8	9,591	202	6	17
VE2AYU	**A**	**599,844**	**986**	**70**	**189**
VE2FFE	"	34,200	145	30	65
VE2DC	14	33,696	42	13	26
VG2ZP	3.5	24,120	293	11	29
***VG2AWR**	**A**	**76,111**	**241**	**40**	**91**
*VE2JDR	14	3,937	56	11	20
VE3ST	**A**	**372,887**	**492**	**61**	**220**
VA3SK	"	149,465	342	55	124
VE3HX	28	4,602	49	12	27
VE3RM	**21**	**39,620**	**241**	**19**	**51**
VE3OO	**1.8**	**10,488**	**108**	**15**	**31**
VE3PN	"	8,865	162	8	19
***VE3OTL**	**A**	**233,800**	**614**	**63**	**112**
*VE3DZZ	"	189,924	383	63	141
*VA3NR	"	161,318	463	55	103
*VE3ZTH	"	66,560	167	51	109
*VE3DSN	"	61,122	215	41	81
***VA3MM**	**14**	**107,494**	**275**	**36**	**106**
*VA3KA	"	68,000	268	25	75
VE4JB	**A**	**124,575**	**343**	**51**	**100**
***VG4VV**	**A**	**548,207**	**1242**	**71**	**138**
***VE5SF**	**"**	**187,264**	**535**	**58**	**96**
*VE5GO	14	11,385	113	17	28
VE6BMX	**A**	**198,468**	**599**	**57**	**91**
VE6KRR	"	33,522	226	35	38
VE6JY	**14**	**483,204**	**1485**	**34**	**100**
					(Opr. VE6WQ)
***VG6BF**	**A**	**324,597**	**703**	**73**	**130**
*VE6HFT	"	158,220	550	57	73
*VE6EZ	"	118,900	464	47	69
VE7QO	**A**	**245,112**	**603**	**69**	**99**
VE7IN	**"**	**242,490**	**586**	**72**	**105**
VE7VR	"	200,816	501	70	93
VD7C	**14**	**460,629**	**1506**	**33**	**94**
					(Opr. VE7XR)
VG7SZ	**7**	**487,440**	**1755**	**34**	**86**
					(Opr. VE7NTT)
VE7RBL	"	71,280	633	22	32
VE7CC	**3.5**	**103,836**	**677**	**26**	**42**
***VE7UF**	**A**	**232,547**	**646**	**64**	**75**
*VE7FYO	14	34,161	233	23	36
XN9JA	**A**	**95,188**	**376**	**38**	**70**

CAYMAN ISLANDS

*ZF8BS	A	1,831,200	2812	95	205	(Opr. AA6KX)

COSTA RICA

TI1C	7	849,288	2817	29	103	(Opr. TI2CF)
*TI5NW	A	949,390	2153	70	136	(Opr. WB3LUI)

CUBA

*CO2VG	3.5	42,790	376	16	39

DOMINICANA

*HI8LC	21	29,832	180	2[illegible]	45

GREENLAND

*OX3KV	A	49,980	323	23	61

GUATEMALA

TGØAA	14	968,250	2938	37	113	(Opr. NL7GP)

JAMAICA

*6Y5X	A	616,448	884	96	205	(Opr. DJ6QT)

MARTINIQUE

*FM5CW	A	334,750	1025	61	145

MEXICO

XE2MX	A	230,201	456	80	131
*XE1 /AA6RX	A	1,331,323	2021	105	196
*XF3 /K7DBV	"	430,520	1150	52	119

PANAMA

*HP3 /KG6UH	A	240,406	779	44	98

PUERTO RICO

WP4IIW	A	1,924,740	2522	94	239
*KP4TQ	21	380,808	1475	24	84
*WP4 /AA3BG	"	261,660	1138	25	73
*KP4VA	7	225,704	1190	22	67
					(Opr. KP4TK)

ST. MAARTEN & SABA

*PJ5JP	A	302,480	676	57	142	
*PJ8NA	21	50,740	393	17	42	(Opr KINA)

ST. VINCENT

*J8OC	A	2,537,808	3164	85	251
					(Opr. DL3KDV)

U.S. VIRGIN ISLANDS

KP2 /WJ2O	A	3,776,500	4296	90	274	
KP2A	14	1,332,460	3115	38	132	(Opr. KW8N)

ZONE 1

KG1Q/MM	A	2,451	44	9	10

AFRICA

BOTSWANA

A22MN	7	613,470	1622	33	97	(Opr. K8MN)

CANARY ISLANDS

EA8EA		A12,805,040	6404	162	508	(Opr. OH2MM)
*EA8 /OK2BOB	A	6,705	51	13	32	
*EA8AF	"	648	[illegible]4	11	13	
*EA8 /EA1AK	L28	409,500	1106	25	100	
*EA8ADJ	28	16,264	107	2	36	
*EA8EY	21	6,474	59	11	28	
*EA8CN	7	199,980	664	21	80	

CEUTA & MEILLA

EA9GK	28	87,500	458	16	54
EA9EU	21	625,053	1562	32	111
EA9EO	7	1,122,506	2503	34	120
					(Opr. EA7TL)

CHAGOS

VQ9SS	1.8	16,092	101	18	36	(Opr. N6SS)

DJIBOUTI

*J28FX	A	88,176	230	32	100

IVORY COAST

TU2MA	21	465,875	1574	31	94

MADAGASCAR

*5R8DS	A	205,380	370	45	135

MADEIRA ISLANDS

CR3U	21	720,090	2074	27	99	(Opr. DL2HYH)
CS3T	"	335,946	994	27	91	(Opr. CT3FT)
CR3P	14	1,317,084	2770	38	126	(Opr. DF4SA)
CT3FN	3.5	371,478	1286	22	79	(Opr. HB9CRV)
*CT3 /DF5AN	14	10,444	126	13	15	

MAURITANIA

5T5JC	A	1,034,620	1205	78	211

MAURITIUS

*3B8 /F6HWU	A	959,101	1309	61	186

NIGER

*5U7Y	A	1,121,236	1597	61	175

NIGERIA

5N0MVE	3.5	4,836	54	9	22

REPUBLIC OF SOUTH AFRICA

ZS6EZ	A	5,322,790	3398	148	382
ZS6NW	28	298,906	985	24	79
*ZS6AJS	A	472,611	622	83	180

RWANDA

*9X5EE	A	4,014,270	3201	110	315
					Opr. PA3DZN)

UGANDA

5X1XT	A	1,461,761	1367	104	263
					(Opr. WF5T)

ZAIRE

*9Q5EXV	A	402,447	834	49	114

ZONE 33

*EA1FBJ /MM	A	280,896	416	52	179

ASIA

ASIATIC RUSSIA

UAØJB		A1,252,713	1779	130	233
RWØAB	"	843,483	1420	57	180
RUØLL	"	639,801	1244	101	148
UAØLCZ	"	55,076	288	49	67
UAØDC	14	49,138	274	28	51
RWØA	7	304,780	2177	35	105
					(Opr. RV3MM)
UAØSR	3.5	34,650	255	16	50
*UAØFZ	A	807,128	1259	103	181
*RAØFU	"	439,131	809	102	129
*UAØSBQ	"	9,880	191	26	49
*UAØAGI	28	54,080	308	22	58
*UAØSMF	"	7,263	210	12	15
*UAØCII	7	14,940	146	21	39
*UAØSMM	3.5	50,838	222	28	72
UA9XS	A	322,400	542	54	154
UA9MX	21	178,776	619	31	86
RZ9UA	14	627,238	1674	35	111
UA9LBQ	"	286,488	786	35	103
RW9SW	"	279,180	760	34	98
UA9XC	7	71,601	309	22	65
RW9DX	3.5	224,540	831	22	81
UA9OA	"	196,317	802	23	76
UA9AT	1.8	48,888	268	15	57
UA9CR	"	46,800	233	14	64
*UA9SCX	21	96,444	350	27	81
*RK9CYA	14	29,884	173	15	47
*UA9XW	"	25,124	194	12	32
*UA9YNC	3.5	63,332	353	16	55
*RX9ST	1.8	31,388	190	11	48

AZERBAIJAN

4K9W	A	67,080	176	46	110

CHINA

*BY4SZ	A	243,360	940	62	94	(Opr. BZ4SCT)

CYPRUS

H2ØA	A	7,467,174	4391	136	458
					(Opr. 5B4ADA)

HONG KONG

VS6WO	A	5,983,476	4556	166	398	(Opr. WX3N)
VR2GO	7	330,716	1520	33	83	(Opr. 9V1YC)

INDIA

*VU2PTT	A	934,032	1024	100	248

ISRAEL

4X/OK1JR	28	86,464	460	15	49
4X4NJ	1.8	184,896	698	19	77
*4X1VF	A	358,550	523	52	150

JAPAN

JH1AEP	A	1,906,416	1593	148	284
JF1KFV	"	548,750	787	91	159
JA1QOW	"	252,442	424	35	141
JA1JKG	"	248,949	302	33	116
JH1GHF	"	193,781	299	34	133
JG1BPS	"	110,722	272	72	94
JA1BNW	"	56,244	133	71	101
JA1GTF	"	47,928	226	79	133
JA1WYQ	"	40,560	114	54	76
JA1IT	"	40,260	145	38	72
JO1QZI	"	31,240	136	38	50
JE1PMQ	"	28,756	120	37	54
JA1WHG	"	25,382	99	49	49
JA1IVL	"	24,738	90	44	49
JA1BHL	"	18,821	132	18	59
JA1QML	"	13,266	78	30	37
JE1LFX	14	19,176	103	26	42
JA1NUT	7	200,013	589	34	87
JA1XEM	"	1,350	30	8	7
7L3SQL	3.5	9,468	129	15	21
					(Opr. JH3LCU)
*JA1IDY	A	656,362	713	132	214
*JS1OYN	"	338,462	568	82	147
*7M3FMT	"	272,843	446	95	138
*JS1LMQ	"	218,790	409	87	134
*JK1LSE	"	180,830	323	84	130
*JA1TRP	"	94,084	224	69	103
*JA1QN	"	85,392	230	54	90
*JA2FNY/1	"	70,686	181	57	96
*JR4FMX/1	"	67,235	202	51	68
*JA7KBF/1	"	65,296	175	67	87
*JE1CTM	"	58,904	160	64	84
*JA1BUI	"	52,986	174	50	66
*JQ1NGT	"	48,440	172	47	64
*JA1KI	"	46,728	172	52	80
*JH1BCS	"	43,734	154	48	63
*JA1OQJ	"	38,988	133	47	67
*JL7PVF/1	"	31,155	125	42	51
*7N2TCF	"	26,705	93	46	63
*JL1MWI	"	26,681	255	38	57
*7M2JTT	"	25,990	103	49	66
*JI1RCB	"	24,360	110	37	47
*JA1AB	"	19,596	102	30	41
*JR1UMO	"	18,460	94	30	41
*JR1VNX	"	11,418	77	32	34
*JG1TVK	"	9,996	59	31	37
*JH1PXY	"	8,568	53	31	41
*JA1LNR	"	6,667	47	30	29
*JA1BLT	"	5,586	52	18	20
*7J1ABD	"	5,080	49	21	19
					(Opr. WA6URY)
*JK1BJX	"	3,965	65	21	40
*JH1UES	"	2,565	40	17	28
*JA1NLX	28	6,075	55	20	25
*JO1CRA	"	4,452	45	18	24
*JA1AA	"	1,134	20	9	12
*JA1VVH	"	1,020	20	9	1[illegible]
*JP1BDU	"	612	14	8	9
*JJ1LRD	"	322	10	6	8
*JE1VTZ	21	102,300	344	35	75
*JE1BDC	"	92,828	374	28	64
*JAØBMS/1	L21	59,004	221	30	69
*JS1KQQ	"	27,458	135	25	59
*JO1WIZ	"	21,980	126	23	47
*JM1KNI	"	13,674	106	21	32
*JR1NKN/1	"	7,866	77	16	30
*7K1FOG	"	3,850	51	14	21
*JA1XPU	"	2,490	32	13	17
*JR2BNF/1	14	177,156	509	38	88
*JA1KFX	"	115,858	393	37	69
*JH1BDS	"	92,640	342	32	64
*JA1JQY	"	87,048	305	34	70
*JA1VBW	"	52,512	195	35	61
*JA1PCM	"	48,880	169	37	67
*JH1DYV	"	48,690	203	31	59
*JK1NSR	"	7,503	67	17	24
*JM1AQU	"	4,240	46	18	22
*7N2DXF	"	3,959	51	16	21
*JA1POS	"	132	6	5	6
*JK1AFI	7	14,906	87	25	33
*JI3FAD/1	"	14,790	110	21	30
*JR1LEV	"	14,616	104	25	33
*JA1JGP	"	3,038	38	14	17
*JA1BHN	"	552	24	8	15
*JH1NXU	"	288	8	6	6
*JE1KDM	"	114	7	3	3
*JA1LZR	3.5	4,212	65	14	13
*JE1SPY	1.8	576	19	8	8
JA2EU	A	578,760	774	96	169
JA2QVP	"	39,412	132	51	67
JA2SWF	"	16,536	80	32	46
JN2QYN/2	"	16,247	101	37	40
JH2ECB	21	77,044	287	31	72
JE2HYS	"	62,900	273	25	60
JR2XFS	14	206,112	651	36	77
*JA2IU	A	394,224	594	91	167
*JN2AMD/2	"	254,130	464	84	131
*JA2PSV	"	77,054	245	48	70
*JA2AXB	"	48,300	174	41	64
*JH2NWP	"	28,490	141	30	44
*JL2ICO	"	24,940	108	34	52
*JE2KSP	"	5,928	44	27	30
*JA2MZ	"	3,293	37	17	20
*JQ2XON	28	104	5	3	5
*JI2UNR	21	163,680	532	33	77
*JH2CYJ	"	2,040	26	13	17
*JL2LPX	14	59,082	256	29	57
*JA2HO	"	41,940	177	35	55
*JQ2LGS	"	28,556	144	25	44
*JA2KPV	"	11,790	78	24	38
*JA2OJ	"	6,816	85	15	17
*JA2NNF	7	34,188	156	29	55
*JA2GTW	"	16,815	113	23	36
*JG2YIV	"	11,856	98	20	28
					(Opr. JF2WEQ)
*JF2WXS	"	2,244	31	14	19
*JE2PCY/2	3.5	2,581	48	13	16
*JH2QMT	1.8	86	10	3	2
*JL2PQV	"	6	1	1	1
JR3NZC	A	446,332	666	100	141
JA3ARM	"	258,298	456	82	132
JH3AIU	"	176,400	312	83	127
JL3SBE	"	94,692	241	62	94
JG1EIQ/3	28	560	16	7	9
JO3TKX	14	238,000	126	20	35
JA3EEM	"	22,951	145	22	37
JA3XOG	3.5	10,127	110	14	27
JA3BCT	"	768	15	10	14
*JF3IUC	A	275,631	463	89	148
*JF3NLQ	"	238,641	416	78	133
*JH3CUL	"	175,545	306	89	146
*JE3JHV	"	78,890	204	63	98
*JG3CQJ	"	63,468	192	57	72
*JA3JOT	"	59,613	202	40	67
*JA3VOV	"	50,578	177	53	68
*JA3TBT	"	11,886	134	38	68
*JG3EHD	"	5,166	44	16	25
*JE3KGT	"	1,380	18	14	16
*JH3FTZ	28	464	13	7	9
*JQ3UDL	21	73,332	283	29	68
*JA3AVO	"	3,872	38	16	28
*JF3AGI	"	2,412	31	14	22
*JF3PEY	"	16	2	2	2
*JI3BFC	14	104,190	340	34	81
*JN3DSH	"	39,688	182	28	54
*JA5UBW/3	"	13,747	100	23	36
*JE3CYH	"	7,990	68	20	27
*JA3GN	7	53,064	207	31	68
JE4VVM	A	1,897,608	1669	137	271
JA4LSR	"	203,904	359	93	123
JH4CPC	3.5	4,480	61	15	25
JA4LKB	1.8	2,336	34	14	18
*JL4CMT	A	229,460	411	83	137
*JA4CZM	"	144,720	266	52	124
*JA4BAA	"	49,236	147	52	80
*JA4HIX	"	44,958	150	54	73
*JA4ETH	28	1,932	30	12	16
*JE4SDB	21	4,514	48	15	22
*JA4AQR	"	2,680	29	13	17
*JH4JNG	14	182,640	542	38	82
*JR4GPA	"	54,115	251	28	51
JH5FXP	A	2,389,920	2179	127	263
JA5IP	"	199,554	337	97	140
JA5AF	"	14,529	72	37	50
JA5EXW	14	472,896	1153	37	107
JA5CKO	"	102,786	340	34	77
JA5APU	"	98,000	424	24	56
JA5JGV	3.5	4,060	55	14	21
*JA5PDS	7	16,878	118	23	35
JA6GCE	A	1,387,071	1398	122	247
JS6GIM	"	193,764	307	86	155
JR6LLN	"	54,188	153	55	84
JA6WW	"	4,590	49	17	[illegible]7
JH6NBW	21	104,310	400	31	64
JF6OJX	3.5	5,092	58	[illegible]9	19
*JA6SRB	A	127,426	283	65	104
*JJ6TWQ	"	106,546	245	69	98
*JA6HJP	"	36,352	110	52	76
*JA6BWH	"	31,047	100	51	80
*JA6QDU	28	1,914	26	13	16
*JK6ISK	21	13,260	87	22	30
*JF1VXB/6	"	2,310	32	15	18
*JH6WHN	14	190,043	579	37	82
*JH6SQI	"	31,273	130	28	50
*JA6WFM	7	17,280	115	21	39
*JJ6DGP	"	9,408	70	19	30
JH7XGN	A	1,538,585	1397	139	252
JA7BO	"	122,636	255	66	106
JA7GAX	"	27,018	91	48	66
JA7JW	"	16,280	80	28	46
JH7DNO	21	349,440	903	36	104
JA7FTR	"	237,952	671	35	93
JA7MSQ	"	121,505	457	27	68
JA7AXP	14	5,977	55	19	24
JE7RJS	7	94,044	329	35	67
JA7JI	"	43,225	178	30	61
*JH7QXJ	A	316,089	562	71	136
*JH7FJJ	"	13,192	80	29	39
*JA7BVA	"	5,715	46	19	26
*JH7CJM	"	576	14	12	12
*JA7ERJ	28	897	17	10	13
*JA7AMK	21	71,775	336	29	58
*JA7VEI	"	14,805	87	23	40
*JF7GDF	"	2,926	37	14	24
*JA7SSB	14	236,785	720	35	80
*JA7JND	"	26,520	149	25	43
*JH7JVJ	7	77,121	276	33	66
*JA7QQK	"	8,256	66	19	29
*JA7FFN	"	7,876	71	19	25
*JE7JRD	"	2,295	34	14	13
*JA7CQB	3.5	1,173	30	10	13
JA8RWU	A	1,952,817	1782	142	251
*JE8KGH	A	168,586	324	77	117
*JA8JDQ	"	82,750	243	44	81
*JA8AJE	"	77,490	235	48	78
*JR8OGB	21	51,611	257	23	50
*JA8UBV	7	40,400	155	33	67
JA9JFO	A	644,742	787	109	197
JA9CCG	"	7,245	52	31	32
*JA9XBW	A	509,622	642	117	197
*JR9NVB	"	114,208	261	67	105
*JA9DDF	"	83,776	194	77	99
*JE9LLO	"	31,185	124	40	65
*JH9WSX	"	19,491	91	36	53
*JH9KVF	21	143,444	477	32	77
*JE9HVF	"	2,964	33	18	21
*JA9XAT	"	418	11	9	10
*JR9OPJ	14	79,182	275	36	70
*JA9ANF	"	1,314	38	11	18
*JA9KUG	7	35	4	3	4
JHØFUW	7	113,088	436	31	65
*JHØKHR	A	1,031,493	1060	129	242
*JAØUMV	"	365,307	530	101	162
*JAØQWO	"	149,532	303	81	123
*JAØHC	"	120,133	256	85	120
*JHØEPI	21	56,781	261	28	53
*JIØELI	"	4,635	44	16	29
*JAØCJK	"	308	10	7	7
*JFØSGW	14	94,347	348	33	66
*JAØGZ	"	840	14	8	12
*JHØESK	7	2,378	36	13	16
*JAØAOQ	3.5	2,210	40	13	13

KAMPUCHEA

XU7VK	A	822,564	1330	101	212
					(Opr. HA7VK)

KAZAKHSTAN

UN6T	A	43,143	568	23	50
UN8LW	14	575,421	1663	35	106
UN9LY	"	569,572	1378	35	116
UN9LX	"	292,371	605	33	90
UN2L	3.5	408,894	1233	34	105
					(Opr. UA9BA)
UN5J	"	170,700	776	25	75
UN2O	1.8	37,464	259	9	47

KIRGHIZIA

*EX2A	7	20,724	120	17	49
*EXØM	1.8	10,282	122	14	39

KOREA

HL9DC	A	744,226	1398	76	162
					(Opr. W8KJP)
*HL5AP	A	110,313	320	49	104

KUWAIT

9K2ZZ	7	891,902	2472	32	110

LEBANON

OD5PL	A	39,984	[illegible]49	33	65
*OD5 /OH1NOA	A	581,830	1198	35	131

MACAO

XX9X	A	2,369,864	2892	124	280
					(Opr. AB6NJ)

MONGOLIA

*JT7FAA	A	281,853	712	66	153
					(Opr. UTØYW)

NEPAL

*9N1AP	A	65,280	248	33	69
					(Opr. HB9APJ)

QATAR

A71CW	A	6,514,340	3775	152	468
					(Opr. SP5EXA)

SAUDI ARABIA

7Z5OO	A	2,838,693	2543	104	325
					(Opr. K3UOC)
HZ1HZ	A	1,143,714	950	105	324

TADZHIKISTAN

EY8MM	A	1,184,622	1201	98	260

TAIWAN

BV2A	A	28,232	285	68	117

THAILAND

HSØZBI	A	1,218,114	1735	108	246

TURKEY (ASIA)

*TA3D	A	1,197,914	1336	74	233
*TA2ZO	"	133,209	300	28	95
*YM2DS	7	558,129	1343	32	111
			(Opr. Z32ZM)		
*TA2BD	"	45,456	324	7	41

UZBEKISTAN

UK8FF	1.8	3,696	65	8	20

WESTERN MALAYSIA

*9M2XC	21	15,423	201	20	33

ZONE 24

UAØZDA /MM	A	43,776	324	24	48

ZONE 25

YL3IZ/MM	14	9,922	242	19	22

EUROPE

ALAND ISLANDS

OHØBH	14	1,003,353	2957	39	130
			(Opr. OH2MAM)		

ALBANIA

ZA1AJ	14	591,201	2065	37	126
*ZA /PAØGAM	A	104,232	411	47	125

ANDORRA

*C31NA	14	22,684	350	11	42

AUSTRIA

OE5SPW	A	116,842	517	55	171
OE6CLD	"	104,611	351	43	126
OE9SLH	"	94,536	281	53	149
OE3DSA	14	135,516	523	36	102
OE5BWN	3.5	48,975	584	13	62
*OE1TKW	A	25,199	126	36	77
*OE/DF4TD	"	23,010	129	31	87

BELEARIC ISLANDS

EA6GP	A	185,592	564	54	155
EA6ZY	28	159,962	811	27	94
EA6ACC	3.5	144,540	1259	18	72
*EA6ZS	A	46,736	231	36	91
*EA6ABK	"	31,753	147	33	80

BELGIUM

ON5LL	14	317,603	1101	35	108
ON4NL	"	17,174	215	13	49
*ON4APU	A	219,792	611	55	186
*ON6LO	"	13,328	134	28	40
*ON4RU	21	203,987	610	37	124
*ON4ARJ	"	5,632	84	12	32
*ON6CW	14	112,322	554	31	82
*ON4XG	"	70,620	379	24	83

BELARUS

EU1MM	A	279,807	883	46	137
EW2AA	"	122,180	369	65	140
EU2AW	"	39,198	114	46	94
EW6TU	14	105,561	698	27	84
EU1DX	7	135,493	556	33	104
EW8OS	"	17,024	219	12	52
EU7SD	3.5	25,585	238	19	66
EU4AA	"	14,839	159	14	57
EU6EU	"	1,161	31	3	6
*EW3CW	A	159,858	376	49	200
*EV1F	"	85,484	373	44	128
*EU6AA	"	83,550	474	30	120
*EW6BL	"	68,365	458	26	95
*EW1TZ	"	4,356	56	25	42
*EU1EU	1.8	16,038	274	6	48
*EU1AA	"	6,477	113	6	45

BOSNIA-HERZEGOVINIA

T93D	3.5	190,848	1270	24	88
T94DD	1.8	61,983	780	11	60
*T99W	A	176,988	683	42	130
*T91ENS	21	178,560	755	32	96
			(Opr. T94TF)		
*T92X	"	3,720	55	12	12
*T92A	7	117,554	776	24	82
*T94NE	3.5	3,968	108	6	25

BULGARIA

LZ1BJ	A	534,779	1125	75	242
LZ5Z	21	242,957	873	35	108
			(Opr. LZ1UQ)		
LZ5W	14	781,696	1966	39	158
			(Opr. LZ1MC)		
LZ7G	7	453,840	1712	35	120
			(Opr. LZ1NK)		
LZ1V	"	205,620	951	32	106
			(Opr. LZ3NY)		
LZ1AP	3.5	37,730	649	12	43
LZ1WR	1.8	15,512	239	8	48
*LZ1AG	A	118,296	252	68	180
*LZ1IA	"	22,680	110	35	70
*LZ2GS	28	34,727	155	29	92
*LZ1CW	14	60,420	428	23	72
*LZ3UP	"	41,160	330	22	62
*LZ1CF	3.5	27,600	328	12	57
*LZ2WA	1.8	12,740	255	5	44

CROATIA

9A6P	A	200,961	515	60	183
			(Opr. 9A3ZO)		
9A2WJ	"	40,616	149	45	97
9A7A	14	617,520	1849	39	116
			(Opr. 9A2ME)		
9A3IQ	7	546,426	1495	37	125
9A4WY	"	185,125	851	28	97
9A4D	1.8	78,876	771	16	68
			(Opr. 9A2LH)		
*9A2AJ	A	999,242	1305	117	370
*9A3SM	"	129,950	300	73	157
*9A3ER	21	232,140	758	35	111
*9A9D	"	30,600	282	19	53
			(Opr. 9A4KK)		
*9A1HBC	7	35,108	370	14	53
*9A2OB	1.8	45,150	547	12	63
*9A2NO	"	12,474	234	6	48

CZECH REPUBLIC

OK1DIG	A	842,391	1277	91	290
OL4M	"	339,864	899	58	180
OK1FPG	"	37,440	103	66	90
OK1TW	28	10,112	75	22	42
OK1RF	14	622,104	1705	37	124
OK1DT	"	246,740	858	34	112
OK1XJ	7	64,792	385	24	80
OK1JST	"	20,579	194	13	48
OK1DTP	3.5	88,506	679	21	78
OK1FF	"	57,267	551	15	66
OK1JDX	1.8	39,024	460	16	56
OK1DRU	"	27,235	390	8	57
*OK1KT	A	748,932	1017	107	342
*OK1DCF	"	610,902	886	93	326
*OK1FPS	"	585,086	1153	80	266
*OK1BA	"	413,721	825	65	232
*OK2EC	"	378,173	790	74	230
*OK2QX	"	371,280	604	95	262
*OK1DG	"	350,755	807	67	228
*OK2PCF	"	311,740	804	61	286
*OK2DB	"	298,936	455	89	255
*OK1AXB	"	257,508	597	58	218
*OK1MKI	"	253,890	661	63	210
*OK1BMW	"	243,756	417	79	254
*OK1KZ	"	203,510	553	57	178
*OK2BPY	"	158,949	504	47	142
*OK2TBC	"	136,768	461	79	223
*OL3Z	"	130,968	490	45	159
			(Opr. OK2HI)		
*OK2BXR	"	104,325	400	44	151
*OK1AOU	"	77,436	364	37	125
*OK1DKR	"	76,973	221	56	135
*OK2BBQ	"	64,152	283	36	126
*OK1DMS	"	62,622	296	30	112
*OK2PPM	"	47,804	279	35	112
*OK2FEI	"	29,304	94	49	63
*OK2BND	"	28,024	211	24	100
*OK2SWC	"	23,725	150	20	45
*OK2BHE	"	6,250	47	22	28
*OK1JDJ	"	3,900	124	40	60
*OK1AES	28	19,295	108	23	62
*OK1ABP	21	126,567	334	36	111
*OK1LL	"	112,962	419	36	98
*OK2SAT	"	77,748	296	29	85
*OL6R	"	77,740	304	29	86
			(Opr OK2PHH)		
*OK1FHI	"	60,416	218	34	84
*OL7Z	14	357,046	1093	35	132
			(Opr. OK2PAY)		
*OK1VD	"	151,604	549	38	113
*OK1XW	"	135,063	609	34	95
*OK2ON	"	92,225	421	22	97
*OK1DIL	"	86,591	310	32	99
*OK1CZ	7	96,990	564	26	96
*OK1EE	"	92,684	520	25	91
*OK1IR	"	74,592	469	22	89
*OK1IE	"	23,409	150	20	61
*OK1RR	3.5	60,344	709	13	63
*OK1FUG	"	25,500	305	12	56
*OK2PJW	"	15,196	240	10	48
*OK1MGW	"	10,974	140	9	50
*OK2PWJ	1.8	16,698	215	11	58
*OK2PKJ	"	3,444	76	6	36
*OK1FFH	"	1,595	57	4	25

DENMARK

OZ1LO	A	2,144,740	2317	132	433
OZ1FTJ	"	135,807	347	61	142
OZ8NJ	"	93,939	430	39	134
OZ1AXG	"	87,360	193	75	165
OZ5DX	"	37,592	227	27	81
OZ7YL	"	15,225	100	24	63
OZ4OC	"	14,210	83	27	71
OZ2RH	"	5,886	40	25	29
OZ6RO	7	185,000	788	34	114
OZ1FTE	"	149,796	612	37	109
OZ1ING	1.8	85,184	814	17	71
*OZ8AE	A	816,871	1083	112	361
*OZ5MJ	"	485,576	704	95	311
*OZ1JRF	"	398,812	815	79	279
*OZ5IPA	"	93,795	406	41	144
*OZ5ABD	"	71,200	301	45	133
*OZ4FF	"	42,746	114	46	88
*OZ7NB	"	28,800	205	30	90
*OZ8QW	"	16,520	108	33	85
*OZ7JQ	"	2,415	61	21	43
*OZ1BMA	21	19,592	153	12	62
*OZ1KRF	14	2,993	52	11	30
*OZ1IZB	7	2,044	69	6	22
*OZ1JLX	3.5	7,808	106	12	49
*OZ1APA	1.8	544	18	2	16

DODECANESE

*SV5 /SMØCMH	A	162,180	658	51	153

ENGLAND

G4BUO	A	3,032,424	2390	145	461
GØIVZ	"	2,308,068	2732	111	386
G3UFY	"	752,978	1027	88	295
GØLZL	"	180,810	436	45	200
GØAEV	28	26,829	144	22	77
GB4RF	21	324,960	939	35	125
			(Opr. GØSLY)		
G3KDB	14	519,715	1487	38	117
G4CNY	"	332,225	1110	34	103
G4ODV	"	192,717	944	35	98
G3PJT	7	222,575	988	34	111
G3WRR	"	10,945	140	12	43
G3XTT	1.8	68,388	658	14	68
*G3NKS	A	469,778	754	76	261
*GØDEZ	"	280,302	758	56	218
*G4ZFE	"	273,828	724	58	170
*G3ESF	"	265,038	616	52	209
*G3RSD	"	124,410	437	44	130
*G5MY	"	105,924	306	45	137
*G3KKQ	"	90,873	281	50	157
*GØMRH	"	17,484	160	33	60
*G4OBK	28	19,513	153	18	61
*G3RXP	14	113,460	570	33	60
*G4WYG	"	73,062	402	22	77
*G3YMC	1.8	5,016	132	3	35

ESTONIA

ES5MC	1.8	70,980	753	15	69
*ES6PZ	A	362,595	747	77	268
*ES1CW	3.5	23,826	314	10	56

EUROPEAN RUSSIA

UA4AGP	A	260,026	693	63	211
RU4AA	"	252,234	684	57	184
RZ1AZ	"	55,552	232	28	100
UA1ACG	"	50,440	226	35	95
RX3RT	"	24,910	124	24	70
RW6HA	28	31,152	256	22	66
RA6LW	"	25,935	191	25	66
UA6LAK	21	23,157	249	25	68
RW1ZA	14	380,375	1417	32	93
RA6AX	7	350,320	1255	35	116
RW4WR	"	311,645	1070	38	119
RW1ZZ	"	120,078	466	32	94
RW6HZ	3.5	144,232	844	29	92
RA3XO	"	81,328	610	23	81
RW6FF	"	52,440	585	16	58
RX3QX	1.8	18,660	253	10	50
RA4UDW	"	11,752	168	8	44
*UA3ABJ	A	283,128	777	69	182
*RU4WE	"	242,433	1107	50	159
*UA1ANA	"	199,104	572	50	194
*UA3RLZ	"	166,934	570	46	145
*UA4YG	"	84,258	400	43	143
*UA3LIZ	"	70,364	305	32	134
*UA6LDF	"	6,213	71	16	41
*RA4HRL	21	99,800	566	25	75
*RA4PQC	"	92,114	556	28	78
*RV6APN	"	8,520	96	12	48
*RW3WM	14	64,320	285	33	87
*RA3VY	"	9,625	176	12	43
*UA1OMS	7	73,514	410	31	87
*RV3LA	"	41,106	338	24	69
*UA3MIF	"	37,064	322	21	61
*RV6LA	"	29,148	224	21	63
*UA3WU	3.5	64,724	594	14	66
*RW1AN	"	55,335	518	17	68
*UA3AGW	"	46,209	532	14	59
*RA1AAO	"	27,531	370	10	53
*RA6XJ	"	11,123	189	6	43

FAROE ISLANDS

OY1CT	A	1,718,212	2975	85	319
*OY4M	A	19,110	98	20	45

FINLAND

OH6WZ	A	2,681,184	2338	124	404
OH1AA	"	2,181,408	2475	125	371
			(Opr. OH1MYA)		
OH6KIT	"	1,939,086	1932	115	367
OH6YF	"	1,638,609	1665	113	358
OH6NEX	"	1,354,966	1859	90	304
OH3MMH	"	539,585	837	88	259
OH3NM	"	209,062	371	74	200
OH1EB	"	179,172	499	53	136
OH2BUQ	"	89,698	282	47	102
OH2BGD	"	51,303	124	65	82
OH1BOI	"	27,965	93	44	75
OH2RL	"	27,772	170	32	68
OH1VL	"	26,069	137	35	96
OH6KUL	"	14,705	113	24	61
OH1PY	"	2,016	25	12	20
OH1AF	21	334,059	1056	37	122
			(Opr. OH1MDR)		
OH5PA	"	14,516	82	24	52
OH2PM	14	766,263	1985	38	125
OH6NIO	"	728,550	2092	36	114
OH8LQ	"	666,900	2062	39	111
OH1NSJ	"	635,537	1742	40	123
OH7NVU	"	186,618	829	26	88
OH2BCD	"	10,442	78	16	36
OH3BZY	3.5	131,495	752	28	91
OH1AD	"	95,551	636	24	83
			(Opr. OH1WZ)		
OH9BVM	"	74,675	575	23	80
OH1TN	"	54,560	504	19	69
OH3WS	"	24,882	303	13	53
OH2BSQ	"	23,180	336	12	49
*OH2VF	A	239,632	455	74	198
*OH2LNH	"	77,430	295	47	127
*OH7NW	"	65,505	274	37	128
*OH1LEG	"	62,264	183	53	119
*OH3MFP	"	38,936	251	30	94
*OH1XT	"	27,390	174	28	82
*OH9AB	"	5,280	53	20	40
*OH3MFT	21	78,775	339	33	104
*OH6RC	"	35,880	174	26	78
*OH6MBQ	"	19,314	151	15	43
*OH6UP	"	2,077	36	11	20
*OH3LIM	14	300,875	1014	35	110
*OH6LBW	"	266,805	1084	28	93
*OH3MC	"	41,296	212	27	62
*OH3KSS	"	38,640	333	17	52
*OH8LC	"	15,225	139	18	57
*OH2BRH	"	1,350	36	7	11
*OH3NLP	3.5	50,220	519	14	67
*OH3TY	"	36,300	362	15	60
*OH4TY	"	17,751	235	10	51
*OH4MCV	"	6,072	113	8	36

FRANCE

F6FGZ	A	2,952,349	2612	129	400
TM7XX	"	2,800,584	2644	132	450
			(Opr. F5MUX)		
F6CEL	"	1,005,327	1675	84	249
F5TNI	"	811,133	912	109	334
F6OIE	"	755,083	1118	88	313
F6HNX	"	334,339	618	75	202
F6KEQ	"	314,001	637	67	184
F6HLC	"	45,752	187	39	94
F6BEE	14	555,504	1535	38	125
F6DKV	"	325,038	1163	35	107
F6EZV	1.8	107,624	836	17	71
F6CWA	"	30,284	312	13	54
*F6DDR	A	1,021,760	705	134	381
*F6DSV	"	677,794	936	92	306
*F6IIE	"	638,928	896	98	310
*F6BQY	"	575,904	904	82	254
*F5NQL	"	289,172	710	67	201
*F6FTB	"	280,665	572	62	181
*F6FII	"	279,531	641	64	197
*F5RBG	"	248,321	608	60	179
*F5MOY	"	176,328	419	62	175
*F6GYU	"	171,200	745	38	162
*F5JLV	"	149,084	401	42	145
*F5OEV	"	142,216	300	67	165
*F5NKX	"	115,786	360	46	119
*F5RAB	"	79,530	277	41	124
*F5JDG	"	79,060	384	31	103
*F6DZD	"	49,000	197	39	101
*F5LET	"	36,156	162	42	89
*F5JOT	"	27,030	148	33	69
*F5OIU	"	25,916	105	43	81
*F2FX	"	25,644	135	33	76
*F5AM	"	11,397	66	29	58
*F8TM	"	6,072	86	12	57
*F6EQV	28	11,180	78	19	46
*F9DK	14	43,086	320	19	67
*F6ICM	"	9,180	103	16	44

GERMANY

DL6RAI	A	3,169,792	2584	144	460
DL2NBU	"	2,377,822	2167	132	430
DF3KD	"	1,072,242	1391	105	321
DL4YBM	"	856,350	1111	104	346
DJ9MH	"	781,335	939	113	372
DJ8CR	"	601,139	920	90	317
DK4RM	"	528,341	594	124	349
DL8YR	"	485,392	782	88	280
DJ1YH	"	452,400	566	99	291
DL7BQ	"	432,564	852	83	265
DL2DXX	"	432,372	687	76	198
DL8KAW	"	420,282	694	82	280
DL1JF	"	396,440	708	85	255
DL8JMN	"	353,094	553	82	212
DL1DTL	"	348,950	599	80	270
DF3OL	"	344,964	605	85	271
DK3YD	"	295,074	603	67	224
DF2UU	"	285,450	438	88	258
DF3QG	"	261,405	446	95	238
DL2DN	"	140,967	344	62	164
DL4JTN	"	130,800	399	52	165
DK7ZT	"	125,400	300	63	157
DL1LOD	"	114,114	355	50	159
DL1ARJ	"	77,212	144	39	80
DL3BQO	"	66,660	249	44	121
DL3ZI	"	50,887	190	49	102
DK8NX	"	49,449	119	64	95
DJ6DO	"	45,864	285	35	112
DL4DCC	"	44,148	201	39	117
DL2DSA	"	39,274	200	46	100
DL8UI	"	36,328	132	52	100
DJ2UU	"	31,812	211	27	105
DL5AMF	"	17,613	71	41	62
DL5XAT	"	16,128	80	16	48
DL3DRN	"	10,298	60	20	36
DL8UDD	"	2,728	50	14	30
DL8UED	"	2,585	46	10	37
DK2PH	28	30,294	170	23	76
DJ7PT	"	16,350	111	21	54
DL8DZV	21	13,090	85	27	50
DLØIU	14	247,752	835	34	114
			(Opr. DL4AAE)		
DJ7AA	7	427,734	1430	37	141
DL8CTG	"	49,392	309	27	85
DF1JC	"	45,954	227	25	86
DKØBC	3.5	151,250	1004	25	85
			(Opr. DL2SDN)		
DK3DM	"	134,514	873	20	86
DL9SCJ	"	125,504	819	21	85
DL7MAE	"	114,696	794	23	85
DLØLW	"	5,080	135	7	33
			(Opr. DL2SAX)		
DL1IAO	1.8	105,644	810	19	79
DL8NBE	"	17,820	266	10	56
*DL1YAW	A	691,600	783	121	373
*DL7AV	"	668,161	618	126	373
*DK8FD	"	625,646	679	120	349
*DL1NCT	"	577,896	927	92	306
*DL2OBF	"	574,355	1565	74	293
*DL7URH	"	556,800	901	90	310
*DJ5GG	"	508,772	840	82	259
*DF4ZL	"	489,204	780	93	288
*DK5MV	"	465,520	795	84	284
*DL5KVA	"	452,584	631	95	312
*DL7QU	"	439,668	726	75	279
*DL4JYT	"	430,848	742	84	268
*DL4BQE	"	380,400	862	60	317
*DL7VBM	"	374,904	703	78	250
*DL7VOG	"	302,526	543	88	249
*DL7CF	"	294,140	511	73	235
*DL1JBQ	"	255,190	538	76	226
*DK7ZH	"	230,510	447	67	192
*DK4TB	"	184,260	442	59	163
*DF6QC	"	171,534	553	47	179
*DL1TH	"	144,144	432	60	171
*DL5JRA	"	139,298	414	55	186
*DL2HWB	"	134,719	371	57	184
*DL4RDJ	"	105,094	374	48	139
*DL2GBB	"	105,014	290	45	137
*DL2RJG	"	102,168	347	48	168
*DL2DBS	"	101,069	305	54	157
*DL1ZQ	"	100,626	376	49	137
*DL4VBP	"	93,834	233	68	166
*DL4XU	"	83,681	358	38	119
*DL3DBY	"	72,540	360	35	121
*DL8WCM	"	68,517	183	55	151
*DLØPDM	"	54,165	292	45	112
			(Opr. DL2RYL)		
*DL8ZWG/P	"	52,206	206	43	111
*DL5SVB	"	51,072	253	32	120
*DF4TD/M	"	44,080	148	51	94
*DL2V	"	43,245	224	42	113
*DL2FAG	"	42,700	144	50	90
*DL5ZBA	"	41,890	200	42	100
*DL1DWT	"	38,178	125	51	138
*DL8UVG	"	37,118	171	37	97
*DL3AWU	"	29,952	130	41	87
*DL6AXI	"	27,876	136	32	69
*DL9DBZ	"	25,935	159	28	67
*DL3YEI	"	25,312	198	25	87
*DJ4PT	"	18,810	116	65	209
*DJØSH	"	15,906	118	13	53
*DL4FDM	"	15,478	120	31	78
*DF3QN	"	14,758	117	26	68
*DL8UAT	"	10,795	55	32	53
*DL3DCY	"	7,910	96	19	51
*DL2HEB	"	7,315	94	16	61
*DL2JRM	"	5,650	54	17	33
*DL2DWA	"	3,600	30	19	21
*DL3JRA	"	2,852	54	13	33
*DL3KWF	"	2,590	42	12	23
*DL5AUU	"	1,200	25	11	23
*DL3HRA	28	9,548	75	18	44
*DF5WN	"	4,400	65	14	26
*DL5JRA	21	67,984	284	32	90
*DL6RDE	"	31,234	183	29	68
*DL2AXM	"	6,322	70	24	34
*DL2JDS	"	5,724	55	16	20
*DL2YAK	"	5,544	88	14	30
*DL8WN	14	98,423	505	26	87
*DF7TU	"	42,018	150	22	72
*DL3KWR	"	7,344	88	15	39
*DL3DTH	7	41,013	311	17	76
*DL2DXA	"	28,101	230	18	69
*DL2RON	"	17,712	187	14	58
*DJ2YE	"	13,585	160	13	52
*DL3ARM	"	6,550	129	7	43
*DL8MKW/P	"	4,212	82	10	31

*DK8FS	3.5	40,271	396	13	64
*DL6MTA	"	33,744	363	14	62
*DL1EMH	"	12,430	162	10	45
*DH6BQA	"	9,506	181	6	43
*DK2GZ	1.8	3,825	90	4	41
*DJ5MN	"	2,318	62	4	34

GIBRALTAR

ZB2					
/K8UNP	21	20,882	302	12	41
ZB2X	3.5	464,444	2217	29	105
			(Opr. OH2KI)		

GREECE

SV1JA	A	290,777	490	84	229
*SV2AVP	21	18,690	121	20	50
*SV2BCH	3.5	18,530	195	13	27

HUNGARY

HA					
/DL1MAJ	A	348,318	519	84	249
HG0D	28	137,241	566	32	121
			(Opr. HA0NAR)		
HA7JJS	3.5	49,434	669	14	52
*HA8JV	A	642,916	1141	95	293
*HA0HW	"	528,820	830	90	296
*HA5NK	"	340,710	804	73	204
*HA8FK	21	133,728	573	32	80

ISLE OF MAN

*GD4UOL	A	970,557	1538	87	322

ITALY

I3EVK	A	1,305,810	1297	127	368
I0ZUT	"	556,662	861	80	281
IK8CHL	"	524,560	827	103	292
I2MQP	"	31,602	101	49	89
IV3DXW	7	309,831	1177	33	106
IR7A	3.5	159,936	1119	28	84
			(Opr. I7ALE)		
I3VHO	"	115,878	944	22	71
I3JSS	1.8	109,388	915	17	75
*IK4WMG	A	550,434	817	86	312
*IK0ADY	"	479,888	749	93	263
*IK4EWX	"	381,234	808	77	236
*IK0CNA	"	311,328	765	66	222
*IK2AHB	"	300,204	707	60	209
*IK8SMZ	"	212,898	463	65	209
*I2RLX	"	199,408	428	58	184
*IK4SDS	"	155,622	422	49	173
*IK3HHY	"	73,101	238	55	122
*IK2AIT	"	71,978	267	45	101
*I4JEE	"	59,056	192	48	129
*I1VCX	"	42,120	250	31	104
*IK2CQG	"	35,090	180	33	88
*IK7FVF	"	17,940	102	34	81
*IK5RLS	"	13,818	78	34	60
*I5UNA	"	9,288	71	27	45
*IK6HWX	"	7,380	63	24	36
*IK8TPJ	"	6,480	85	17	55
*IK6HWX	"	4,408	54	16	28
*IK4SXM	"	3,078	44	18	35
*I1XPQ	21	146,462	519	34	100
*IR4R	"	50,648	223	29	75
			(Opr. IK4ALM)		
*IK5TBK	"	36,627	206	24	63
*I3JTE	14	168,554	641	33	109
*I5OQV	"	21,888	181	16	60
*I2IFT	7	55,581	422	18	79
*IK3HUG	"	25,090	291	14	51
*I5NQK	3.5	7,809	111	11	46
*IV3KTY	1.8	20,406	350	8	49
*I4JEE	"	5,252	43	3	23

LATVIA

YL2KO	A	817,833	1330	93	300
YL2PJ	"	40,278	183	45	102
YL0A	7	371,424	1332	37	122
			(Opr. YL2KL)		
YL2GD	3.5	134,860	939	27	83
YL2SM	"	83,300	689	24	76
YL2IP	"	36,540	320	19	68
YL2PQ	1.8	59,803	696	14	65
*YL2GN	A	878,700	1376	96	339
*YL2GVW	"	228,599	512	88	201
*YL2EC	"	87,890	376	38	149
*YL2GOT	"	13,860	279	23	36
*YL2UZ	14	44,712	352	20	72

LIECHTENSTEIN

*HB0					
/DJ0IP	A	454,740	1206	70	248

LITHUANIA

LY2IJ	A	1,452,731	1476	129	424
LY3BX	"	930,529	1284	106	325
LY2OU	"	634,816	1041	94	322
LY1CF	"	517,390	1120	72	238
LY1CX	"	318,585	655	80	237
LY2LA	"	200,405	542	63	206
LY2DX	"	191,422	620	51	191
LY1CN	"	143,500	620	36	169
LY2OX	"	112,464	393	55	158
LY2BN	14	124,355	594	32	101
LY2KM	"	70,551	365	28	89
LY2BB	"	9,243	83	17	62
LY6M	7	361,845	1562	36	117
			(Opr. LY1DS)		
LY2BKT	"	64,792	586	21	68
LY1DR	3.5	234,168	1285	30	102
LY6K	"	185,913	1131	28	89
LY1BZB	"	75,150	795	18	72
			(Opr. LY1FH)		
LY2OQ	"	68,886	646	19	67
LY3BU	1.8	55,825	641	12	65
*LY3BQ	A	36,084	241	28	96
*LY1DD	"	16,965	165	17	70
*LY3BY	"	7,168	103	14	50
*LY3KB	"	4,524	82	12	46
*LY2TX	21	21,420	128	22	62
*LY2IC	"	10,458	68	21	42
*LY2HN	14	82,375	380	31	94
*LY2GV	7	53,326	480	18	73
*LY1CY	"	6,762	110	11	35
*LY2BZ	3.5	80,898	678	21	76
*LY3ID	"	60,352	510	21	71
*LY2PAQ	"	23,499	316	13	50
*LY1DI	"	10,752	200	6	42

LUXEMBOURG

LX4B	7	430,940	1907	31	114
			(Opr. OH2PQ)		

MACEDONIA

*Z32KV	A	7,855	132	35	73

MOLDOVA

ER1AM	A	1,173,020	1495	117	328
ER1CW	"	501,684	1374	65	226
ER1OA	"	238,965	657	63	204
ER5Z	21	88,515	484	25	80
ER5GB	7	79,827	414	29	94
ER1AA	3.5	15,246	336	6	36
ER3VM	1.8	7,503	156	6	6
*ER3DX	7	63,124	499	22	64
*ER1LW	1.8	16,692	275	7	45

NETHERLANDS

PA0LOU	A	559,284	1338	104	314
PA3DLA	"	22,066	137	33	85
PA0COR	"	9,394	86	21	56
PA2CHM	"	8,184	153	19	47
PA3EWP	7	14,544	133	17	55
PA3BUD	3.5	71,889	600	19	74
PA0CYW	"	50,730	406	16	73
PA3DWD	1.8	8,970	86	11	58
*PA3ELD	A	377,568	639	80	262
*PA3GNO	"	177,270	376	81	204
*PA3ECJ	"	61,962	235	138	449
*PA0SKP	"	35,242	147	45	89
*PA3EUS	"	13,774	105	30	67
*PA0YN	"	11,766	110	20	54
*PA0JED	"	11,692	144	19	55
*PA3BEJ	"	3,888	61	11	43
*PA3AAV	7	159,432	709	33	113
*PA0RCT	3.5	35,945	477	9	56
*PA2REH	1.8	99	9	2	9

NORTHERN IRELAND

*GI0KOW	1.8	41,580	592	9	51

NORWAY

LA7AFA	A	505,660	900	90	296
LA6IHA	"	259,205	732	53	182
LA0EW	"	76,104	309	47	121
LA4LN	1.8	25,856	321	12	52
*LA2O	A	276,816	712	50	169
*LA7OHA	"	276,172	773	51	175
*LA1YE	14	18,900	211	13	47
*LA7AK	3.5	22,446	387	8	50
*LA8WG	1.8	2,262	81	4	29

POLAND

SP8NR	A	1,211,548	1130	139	459
SP2IU	"	113,7043	262	60	173
SP2FWC	"	396,324	924	74	253
SP2IW	"	172,480	364	75	205
SP4EAK	"	122,640	370	53	166
SP2HHX	"	79,800	345	41	134
SP3EQE	"	74,710	266	38	117
SP3IAR	"	30,375	85	54	81
SP3DIK	"	26,950	124	33	77
SP4AVG	"	21,840	160	29	83
SP5DOJ	28	22,386	124	27	64
SP6EQZ	21	13,454	100	19	43
SP5CEQ	"	7,007	59	16	33
SP6YAS	14	539,672	1479	37	124
			(Opr. SP3RBR)		
SP8UFO	"	160,962	645	35	104
SP8IOD/p	"	126,477	495	32	85
SP7HUH	"	49,104	326	24	75
SP5CJQ	7	196,236	814	35	104
SP6YAQ	"	123,708	659	29	93
SP7CIB	"	82,399	384	30	101
SP4GHL	"	12,663	154	12	51
SP9RPY	"	24	2	2	2
SN3A	3.5	418,325	1716	34	111
SP7GIQ	"	254,487	1293	29	94
SP6FVF	"	81,360	746	18	72
SP2FWC	"	5,934	129	6	37
SP9RRW	"	10	3	2	3
SP5GRM	1.8	114,886	770	20	89
SP5INQ	"	51,175	494	17	72
SP5ZIM	"	37,843	516	10	61
			(Opr. SP5GKN)		
SP5GH	"	6,790	73	9	61
*SP9XCN	A	965,157	1316	97	336
*SP9WZJ	"	902,484	1019	113	364
*SN7L	"	679,995	1162	95	310
			(Opr. SP7NJX)		
*SP6NIC	"	514,776	930	82	274
*SP5TT	"	459,298	692	103	268
*SP2UKB	"	296,415	530	79	236
*SP9VEC	"	232,580	390	75	215
*SP4EEZ	"	221,550	337	93	257
*SP7ELQ	"	220,119	489	65	174
*SP2CBS	"	216,106	747	44	198
*SP6CIK	"	200,842	377	80	194
*SP1AEN	"	173,610	407	68	202
*SP5JCL	"	154,178	350	71	183
*SP1MHV	"	145,860	254	75	180
*SP5ASY	"	139,556	419	63	186
*SP7VCA	"	100,245	333	52	153
*SP0GEY	"	88,044	316	54	120
*SP9RTI	"	72,228	361	46	110
*SP2DVH	"	65,173	161	48	111
*SP8FHJ	"	44,400	224	38	112
*SP9DGO/A	"	41,363	123	46	87
*SP6NIF	"	41,031	155	44	97
*SP6CXH	"	37,022	160	36	71
*SP6STS	"	35,550	227	25	65
*SP9AGS	"	34,020	243	23	85
*SP9GKM	"	32,000	209	37	88
*SP5CBA	"	29,213	176	34	97
*SP6NIG	"	24,970	87	47	63
*SP2QVE	"	14,784	98	25	87
*SP2IHG	"	7,300	143	22	76
*SP3CQP	"	4,371	64	22	47
*SP9QLK	"	3,481	100	5	19
*SP5RDX	"	3,312	30	18	28
*SP2OVS	"	2,264	93	12	49
*SP9XLX	"	825	28	10	15
*SP2QCH	28	7,560	63	20	36
*SP2BEA	"	7,296	60	21	43
*SP3AOT	"	1,612	28	13	13
*SP3HRN	21	165,271	555	35	104
*SP8LZC	"	116,446	413	34	100
*SP8FHK	"	63,048	250	35	76
*SP3GTS	"	24,092	148	22	54
*SP3FPF	"	8,710	54	21	46
*SP5CGN	"	7,424	63	20	38
*SP5MBA	"	5,247	39	18	35
*SP8KEA	"	1,170	16	10	16
*SP9YDX	14	334,126	1115	37	105
			(Opr. SP9EIJ)		
*SP2QG	"	37,410	306	20	66
*SP9KZ	"	32,373	145	31	78
*SP3KFI	"	31,816	170	27	70
			(Opr. SP3OEQ)		
*SP5XMM	"	13,860	135	14	56
*SP9EML	"	7,796	81	17	35
*SP6PAX	"	3,220	76	7	28
			(Opr. SP6DHH)		
*SP9FMV	"	192	6	2	6
*SP2LNW	7	63,504	408	27	81
*SP6CTC	"	52,690	309	25	85
*SP5CNA	"	40,586	310	21	70
*SP6CDP	"	27,768	222	17	61
*SP9LAS	"	24,528	216	17	56
*SP3TAH	"	8,145	144	9	36
			(Opr. SP3VKO)		
*SP2WDW	3.5	59,120	618	16	64
*SP5DIR	"	35,568	413	14	58
*SP4DCR	"	25,035	413	9	54
*SP2AHD	"	8,815	200	6	37
*SP9HOF	"	6,140	156	7	37
*SP9DH	"	6,345	125	7	40
*SP3WYI	1.8	13,536	271	6	42
*SP9YBS	"	3,344	90	5	33
*SP3MY	"	1,078	50	3	19

PORTUGAL

*CT1BNW	14	3,360	46	12	28
*CT4DX	7	45,108	256	20	64
*CT1BQH	"	19,278	187	14	40
*CT1YH	3.5	12,810	148	10	51

ROMANIA

YO8KOS	7	93,732	563	27	80
YO3AC	1.8	12,528	194	6	52
*YO0DFA	A	346,518	1000	64	215
			(Opr. YO2DFA)		
*YO4SI	"	168,200	570	48	184
*YO2ARV	"	62,920	339	36	107
*YO3RK	21	33,746	177	26	68
*YO2AQB	"	13,860	90	20	46
*YO4DIJ	7	832	80	2	6
*YO8BDQ	3.5	5,907	180	5	26
*YO6OBH	1.8	12,190	245	5	41

SARDINIA

*IS0GSR	A	268,056	717	47	169
*IS0DMH	"	255,918	845	53	168
*IS0LDT	"	38,357	190	35	86
*IS0MKU	14	113,619	571	30	91
*IS0UWX	"	22,575	187	20	55

SCOTLAND

GM3WOJ	14	270,432	1000	37	107
GM3ITN	1.8	36,812	137	6	46
*GM4HQF	A	37,760	260	38	80
*GM3CFS	14	33,408	259	20	67

SICILY

IO9T	14	767,428	2300	38	135
			(Opr. IT9TQH)		
IT9ZGY	1.8	88,466	838	16	73
*IT9ORA	A	135,548	508	51	155
*IT9DEC	"	35,904	210	26	76
*IT9AJP	"	15,980	82	30	64
*IT9VDQ	14	9,248	78	17	51
*IQ9AF	7	157,665	847	28	87
			(Opr. IT9AF)		

SLOVAK REPUBLIC

OM3OM	14	189,336	742	32	106
OM8A	7	665,525	2004	36	139
OM5M	3.5	307,956	1494	30	102
			(Opr. OM3TCW)		
OM3TRJ	"	65,729	590	17	70
OM7A	1.8	132,654	1046	18	85
*OM3TEW	A	478,400	1010	70	255
*OM8ON	"	453,550	537	98	288
*OM3PQ	"	360,357	546	85	254
*OM3CCC	"	271,920	642	59	205
*OM3CDZ	"	159,176	628	62	140
*OM3MB	"	48,461	136	59	102
*OM3IF	"	35,777	115	50	83
*OM7AT	"	32,032	206	23	57
*OM3TB	"	21,105	121	26	41
*OM3TY	"	16,377	196	40	97
*OM3BA	"	15,563	111	26	53
*OM3CVN	"	6,039	39	26	35
*OM3ZZ	28	966	23	7	14
*OM3GB	21	16,182	96	24	38
*OM3CAB	14	17,670	244	14	43
*OM7AM	"	14,384	170	16	46
*OM3RM	7	17,629	214	23	40
*OM3ZBU	3.5	85,814	530	95	107
*OM5KM	"	29,760	396	9	55
*OM3CDN	"	14,364	239	8	46
*OM2SM	"	9,936	192	5	42
*OM2XW	1.8	20,022	243	11	58

SLOVENIA

S59A	A	3,311,655	2436	166	501
S53A	"	3,097,360	2501	139	421
S53EA	28	143,172	656	30	93
S51AY	"	102,492	522	28	89
S57AL	"	32,334	164	27	75
S50K	21	390,456	1188	37	116
S50R	"	173,901	577	36	111
S53M	14	710,430	1846	39	131
			(Opr. S52ZW)		
S57DX	"	586,684	1700	37	124
S59L	"	304,896	1167	32	96
S50A	7	738,650	2192	37	133
S50C	"	691,298	2055	39	140
			(Opr. S53CC)		
S52RD	"	499,961	1798	33	118
S58A	3.5	291,584	1217	34	102
S53DCM	"	252,160	1307	30	98
S53O	"	213,125	1029	30	95
S59KW	"	212,004	1280	23	85
			(Opr. S53WW)		
S51W	1.8	58,181	695	13	60
*S59AA	A	1,645,226	1515	137	446
*S51FA	"	912,695	1210	109	336
*S57J	21	235,008	667	36	117
*S58WW	"	162,135	568	35	100
*S52CW	"	46,002	228	26	76
*S57U	14	208,575	831	33	102
*S52UT	"	153,317	569	34	105
*S57X	"	144,400	461	36	116
*S57W	"	70,596	373	28	78
*S54A	7	209,151	903	35	118
*S51QZ	"	121,625	650	31	94
*S52OP	3.5	89,628	903	17	67
*S51EA	"	41,262	501	12	57
*S53X	"	23,040	358	10	50

SPAIN

EA2IA	A	2,362,192	2498	126	398
EA4KA	"	1,987,741	2228	109	334
EA1JO	"	453,662	680	94	260
EA7GHB	"	153,036	376	56	162
EA5GOT	"	64,898	200	70	157
EA7CA	"	72,316	221	48	131
EA1KN	"	63,945	202	45	100
EA4EMC	"	39,886	137	46	108
EA5AIK	"	18,483	88	37	64
EA2CNH	"	17,765	138	27	68
EA7EZ	28	142,664	656	31	105
			(Opr. OH2BAZ)		
EA7KW	21	397,432	1349	35	116
EA7DPU	"	48,484	412	24	68
EA5CZ	7	62,647	550	18	61
EA3KU	3.5	267,546	1318	27	95
*EA7CEZ	A	3,469,004	3217	125	414
*EA5WU	"	1,548,365	1946	108	347
*EA5FV	"	772,440	1431	67	247
*EA7HAT	"	751,184	1033	83	270
*EA5FV	"	749,080	1431	71	236
*EA3AEQ	"	608,400	1109	90	248
*EA7TG	"	487,249	973	76	253
*EA7IL	"	483,460	963	56	174
*EA5ACF	"	300,300	580	75	225
*EA7HDO	"	253,460	504	70	220
*EA4AMC	"	252,756	804	57	179
*EA3BOW	"	188,466	468	52	150
*EA7HAB	"	159,152	453	47	156
*EA7FZ	"	110,950	365	67	108
*EA7AAC	"	100,848	353	45	131
*EA3AJW	"	100,224	520	42	102
*EA4AV	"	98,358	245	56	138
*EA5LA	"	96,068	265	40	141
*EA5FX	"	33,258	101	47	91
*EA3DVJ	"	25,480	164	33	71
*EA1OJ	"	24,990	78	47	72
*EA5EYJ	"	24,910	125	32	62
*EA5GJI	"	8,526	59	21	37
*EA5CEC	"	7,884	55	25	29
*EA4MS	"	6,003	54	27	42
*EA3GIS	"	4,396	38	19	32
*EA1XN	"	2,173	29	14	27
*EA5WX	28	1,440	22	12	18
*EA5AAJ	"	1,356	26	9	15
*EA3GJ	21	3,240	80	6	30
*EA1FEQ	14	63,612	321	24	84
*EA3DKR	"	53,100	289	21	79
*EA1AKB	"	16,200	154	10	35
*EA5GKE	"	3,784	30	15	29
*EA2BNU	7	25,976	243	12	56
*EA5BU	"	24,492	214	18	60
*EA1AUI	1.8	13,481	206	9	52

SWEDEN

SM7PKK	A	917,225	1233	113	362
SM5AOE	"	585,728	896	97	255
SM6BJI	"	416,250	568	93	282
SM3DMP	"	177,120	388	64	206
SM5CJE	"	52,572	173	45	111
SM3AF	"	41,481	250	25	74
SM6CDG	"	2,120	47	10	30
SK0HB	14	234,864	950	39	105
			(Opr. SM0THN)		
SM6NJK	"	172,190	742	32	102
SM2JEB	"	110,610	570	24	66
SM4TLZ	"	76,480	483	21	59
SM0TGG	"	28,560	181	18	52
SM6JY	"	13,392	161	15	47
SM3SGP	7	300,682	1189	37	112
SM0JHF	"	241,650	900	36	114
SM6IMO	"	182,172	815	34	107
SM7CQY	"	15,052	230	11	42
SM6DYK	3.5	155,628	1077	25	83
SM0IHR/5	"	65,680	690	15	65
SM6DOI	"	57,154	550	18	54
SM0NJO	"	25,756	143	56	81
SM6CPY	1.8	53,581	454	13	60
SM5HJZ	"	35,904	499	10	56
SM5LWH	"	5,588	111	8	36
*SM4SX	A	78,603	310	39	94
*SM5RE	"	49,068	276	19	36
*SM7BZV	"	45,016	247	35	101
*SM3CVM	"	25,578	126	39	87
*SM2CFZ	"	19,503	119	32	67
*SM6GDR	"	12,969	75	33	66
*SM3PGN	"	11,635	126	16	49
*SM0THU	"	11,039	109	17	66
*SM7ATL	"	8,832	82	26	41
*SM0COP	"	925	15	12	13
*SM6SHF	21	23,870	207	19	58
*SM3DXC	"	16,644	154	18	55
*SM7					
/T94BO	14	83,300	453	25	94
*SM2CDF	14	75,346	211	14	188
*SM7GCZ	"	26,691	155	21	72
*SM7VIK	3.5	22,597	343	11	48

SWITZERLAND

HB9AGA	A	1,069,121	1484	98	299
HB9CVO	"	206,164	424	72	187
HB9KC	"	50,518	167	46	88
HB9DX	21	39,664	115	35	113
*HB9ARF	A	295,358	664	71	218
*HB9FAP	"	257,670	712	55	155
*HB9IBA	"	230,364	701	56	186
			(Opr. W7LPF)		
*HB9HLE	"	75,753	301	51	120
*HB9AYZ	"	27,798	153	40	83
*HB9QA	3.5	195	13	2	13

UKRAINE

UT2QT	A	2,531,613	2816	146	463
EM0F	"	2,452,989	3098	133	406
			(Opr. UX0FF)		
UR5QN	"	1,425,028	1566	131	425
UT7LA	"	1,032,080	1320	119	366
UU3JH	"	831,312	1400	104	310
UT8IM	"	327,810	682	69	225
UT4EK	"	183,513	545	55	194
UT1WZ	"	182,320	479	61	204
UT0H	21	183,982	803	33	101

UU7JF	"	**176,611**	**804**	**28**	**81**
UU7JS	"	21,204	127	24	53
US5WE	**14**	**469,152**	**1456**	**38**	**124**
UR0I	"	**368,880**	**1181**	**39**	**120**
UY6I	"	264,366	902	38	126
UX5NO	"	198,856	907	33	101
UX0HA	"	60,325	399	23	72
UX5VK	"	40,186	236	21	81
UT7ND	**7**	**103,490**	**545**	**29**	**102**
US7IW	"	**102,358**	**576**	**29**	**93**
UT1PD	"	79,992	572	21	78
UX3ZBG	"	50,193	329	24	75
UX3MO	"	21,318	241	16	50
UR7VA	**3.5**	**135,997**	**964**	**25**	**82**
UR5LCV	"	53,534	668	26	76
UY577	"	53,828	513	17	67
UY5BA	**1.8**	**51,030**	**515**	**15**	**71**
UR0IX	"	14,094	189	12	46
UX1VT	"	13,000	220	8	44
UY0ZG	"	10,300	164	8	42
UR5FA	"	5,700	136	5	33
***UR5EAT**	**A**	**633,280**	**1039**	**97**	**274**
***UT3UZ**	"	**288,304**	**707**	**68**	**228**
*UY5TE	"	262,544	733	54	215
*UX5EF	"	254,624	680	62	230
*UT7ZT	"	212,589	403	74	225
*UR3MP	"	204,120	738	46	170
*UT5UJY	"	155,280	461	52	188
*UT3EM	"	119,340	332	47	213
*UR5IAE	"	83,126	308	44	134
*UR5EIT	"	25,326	144	40	86
*UU2JA	28	9,222	110	15	43
***US7IGF**	**21**	**67,620**	**367**	**25**	**79**
*UT1PO	"	38,016	200	26	62
*UR5IPD	"	27,473	186	21	62
***UU9JCF**	**14**	**197,478**	**960**	**35**	**102**
***UT3QW**	"	**183,219**	**658**	**35**	**121**
*UT3IQ	"	144,200	669	34	106
*UX1LA	"	91,131	500	28	83
*UR5EKG	"	51,243	361	25	68
*US5QVV	"	33,360	321	17	63
***UR5QSK**	**7**	**450,447**	**1541**	**35**	**124**
***UR3IEW**	"	**184,352**	**474**	**29**	**83**
*US7IIB	"	69,229	431	28	79
*UT1OR	"	65,044	425	23	78
*UY2ZZ	"	34,000	304	16	64
*UT1WW	"	25,564	232	17	66
*UR7QM	"	9,990	147	12	42
*UR5QU	"	3,999	63	10	33
***UT5UIA**	**3.5**	**45,760**	**491**	**15**	**65**
*US5ELM	"	27,600	333	12	57
*UX3IA	"	8,216	134	7	45

WALES

***GW3JI**	**A**	**356,070**	**814**	**62**	**224**
*GW4BVJ	"	14,884	145	14	47

YUGOSLAVIA

YU7AV	**A**	**3,014,010**	**2649**	**151**	**459**
YT1AD	"	**2,285,496**	**2152**	**149**	**499**
YU7KM	"	149,568	445	58	170
YT9C	**21**	**316,992**	**994**	**37**	**119**
					(Opr. YU1IG)
4N7ØBB	**14**	**497,850**	**1848**	**37**	**113**
					(Opr. YT1BB)
YT7A	**7**	**641,538**	**1962**	**37**	**137**
					(Opr. 4N7DW)
YT1R	"	359,165	1524	33	112
					(Opr. YU1ZZ)
4O4O	"	344,208	1497	31	111
					(Opr. YU4FA)
4N1A	**3.5**	**327,474**	**1595**	**30**	**96**
					(Opr. 4N1DXX)
YU7LS	"	92,064	882	16	68
YZ1MR	"	56,826	557	15	67
***4N7ØAL**	**A**	**230,472**	**419**	**83**	**208**
					(Opr. YU7AL)
*YU7SF	"	64,500	203	56	116
***YU1HA**	**28**	**59,169**	**257**	**26**	**95**
***YZ1AU**	**21**	**279,524**	**862**	**34**	**115**
***4N1N**	"	**183,520**	**613**	**34**	**114**
*YU7CF	"	148,944	642	31	85
*YV7QP	"	95,979	469	17	52
***YT7AR**	**7**	**531,180**	**1770**	**35**	**121**
***YU1RA**	**1.8**	**42,984**	**538**	**9**	**63**

OCEANIA

AUSTRALIA

VK8TM	**A**	**3,475,170**	**2830**	**135**	**287**
					(Opr. N6AA)
VK5GN	"	143,820	281	70	110
VK6LW	"	57,036	203	42	55
VK5GZ	"	22,910	106	32	47
VK3APN	**7**	**65,892**	**292**	**26**	**50**
***VK1FF**	**A**	**774,750**	**1075**	**97**	**163**
					(Opr. WB2FFY)
*VK3DXI	"	390,164	658	76	150
*VK2BQQ	"	130,296	368	51	71
*VK2VM	"	117,072	370	44	64
*VK4XW	"	39,804	147	18	69
*VK5GZ	"	7,906	106	32	47
***VK4XA**	**28**	**55,275**	**348**	**22**	**33**
*VK6AJ	"	28,080	184	16	36
***VK2AYD**	**21**	**292,940**	**1025**	**26**	**71**
*VK4ICU	"	136,620	520	29	61
*VK4CD	"	4,294	38	13	25
*VK8BE	14	1,216	24	8	11
*VK8/N3JT	"	6	1	1	1

EASTERN KIRIBATI

T32BE	**A**	**585,275**	**997**	**90**	**115**
					(Opr. WC5P)

EASTERN MALAYSIA

9M8X	**A**	**5,390,300**	**3852**	**143**	**332**
					(Opr. OH2BH)
9M6NA	**14**	**971,397**	**2195**	**37**	**116**
					(Opr. JE1JKL)

FIJI ISLANDS

***3D2MQ**	**A**	**223,236**	**660**	**53**	**64**

FRENCH POLYNESIA

*FOØTJ	A	52,123	330	37	36
					(Opr. K1VWL)

GUAM

KG6DX	**28**	**209,056**	**754**	**31**	**63**

HAWAII

KH6					
/N6HR	**A**	**1,711,975**	**2122**	**107**	**168**
KH6CC	**1.8**	**42,588**	**401**	**18**	**18**

INDONESIA

YBØASI	**A**	**1,069,025**	**1202**	**105**	**200**
					(Opr. AA4U)
YB6INU	"	**883,040**	**1057**	**93**	**174**
YB2UDH	**7**	**59,975**	**211**	**27**	**98**
***YB3FFB**	**21**	**224,128**	**736**	**29**	**74**

NEW CALEDONIA

***FKØP**	**21**	**176,418**	**635**	**33**	**66**
					(Opr. F6AUS)
***FK8FU**	**7**	**31,508**	**455**	**24**	**44**

NEW ZEALAND

ZL3GQ	**7**	**672,612**	**1732**	**36**	**102**
*ZL4NF	A	27,744	108	38	58

PAPUA-NEW GUINEA

***P29KH**	**A**	**625,828**	**1059**	**82**	**124**

PHILIPPINES

DX1EA	**A**	**3,766,896**	**3163**	**125**	**279**
					(Opr. OHØXX)
DU1KK	"	**1,209,747**	**1789**	**93**	**138**
					(Opr. WN7S)
***SMØCNS**					
/DU7	**A**	**664,003**	**820**	**103**	**178**
*DU3					
/W4NXE	"	235,912	549	55	93

WESTERN SAMOA

5W1MM	1.8	42	4	3	4
					(Opr. JR6FIP)

SOUTH AMERICA

ARGENTINA

LIØA	A	6,100	86	14	11
					(Opr. LU1ARL)
LU6ETB	**28**	**290,184**	**1054**	**25**	**88**
					(Opr. LU2CW)
***LU1EWL**	**A**	**530,612**	**842**	**76**	**142**
*LW2EUE	"	239,008	411	58	136
*LU4HKN	"	7,884	82	18	18
***LW4DYI**	**28**	**261,063**	**903**	**22**	**77**
*LU7DW	"	49,358	300	19	39
*LU4FAK	"	1,752	27	11	13
***LU5FDQ**	**21**	**203,632**	**788**	**22**	**62**
*LU2DPW	"	57,510	247	21	60
*LU7EAR	"	56,015	405	23	62
*LU1ELY	"	12,936	69	15	22
***LU1ICX**	**14**	**401,196**	**1018**	**36**	**98**
*LU1BW	"	49,106	201	25	61
*LU6EF	"	42,427	194	23	54
*LU9EDY	"	22,632	182	23	46
*LU1AEE	7	18,460	124	18	34
*LU2BRG	3.5	4,669	62	12	17

ARUBA

P4ØF	**A**	**12,393,150**	**6557**	**150**	**488**
					(Opr. KRØY)
P4ØJ	**14**	**1,697,400**	**3307**	**39**	**141**
					(Opr. WX4G)

BRAZIL

PY2XB	**A**	**654,132**	**752**	**85**	**217**
PP1RR	"	251,945	435	64	141
ZY2II	"	191,488	493	43	93
					(Opr. PY2TI)
PY2KP	"	32,132	109	48	68
PY3LHR	"	24,822	130	28	35
PY4WS	"	23,489	102	28	55
PW8EM	**21**	**87,960**	**508**	**19**	**41**
***PW2N**	**A**	**804,320**	**1269**	**72**	**148**
					(Opr. PY2NY)
*PY2OW	"	382,679	625	63	146
*PY2OU	"	188,700	310	81	141
*PY2FUS	"	97,352	229	51	101
*PP7CI	"	39,330	131	51	64
*PJ2MHB	"	39,006	209	26	40
*PY2APQ	"	36,340	146	34	58
*PY2SP	"	16,005	66	42	55
*PP7FB	"	5,400	39	25	35
*ZV2NP	"	4,329	39	16	23
*PJ2BCM	"	2,920	29	16	24
*PY2AE	"	2,776	41	20	26
*PY2DUN	28	5,207	51	16	25
***PY2ZVV**	**21**	**148,512**	**507**	**26**	**76**
					(Opr. XE1VV)
*PJ2KER	"	43,687	199	22	57
*PY3CJI	"	12,528	79	19	39
*PY1DL	"	8,949	57	12	45
*PY2NZR	"	5,740	120	21	49
*PY2OZF	"	3,776	44	14	18
*PY2HA	"	2,025	29	7	18
***PT7CB**	**14**	**1,157,475**	**2366**	**37**	**128**
					(Opr. YU1RL)
*PY5BLG	"	51,253	270	18	49
*PY4LH	"	31,863	205	21	36
*PP1AW	"	16,271	114	20	33
***PW2A**	**7**	**61,232**	**243**	**24**	**65**
					(Opr. PT2BW)

CHILE

3G1X	**A**	**4,139,394**	**3018**	**120**	**349**
					(Opr. CE1IDM)
XR3A	**28**	**86,190**	**481**	**19**	**49**
CE8FGC	**14**	**197,540**	**816**	**24**	**59**

COLOMBIA

HK1HHX	**14**	**683,571**	**2026**	**31**	**98**

ECUADOR

HC1OT	**A**	**7,041,712**	**4786**	**126**	**370**
					(Opr. S53R)
HC7SK	**3.5**	**191,172**	**748**	**21**	**68**
					(Opr. SM7BUA)

FERNANDO DE NORONHA

PYØFF	**A**	**10,778,990**	**5894**	**143**	**474**
					(Opr. CT1BOH)

GALAPAGOS ISLANDS

HC8N	**A**	**10,181,750**	**5861**	**149**	**437**
					(Opr. WN4KKN/6)
HC8KU	"	**5,595,600**	**4721**	**113**	**287**
					(Opr. DL5XX)

NETHERLAND ANTILLES

PJ9U	**7**	**1,056,817**	**2676**	**29**	**110**
					(Opr. OH1VR)
***PJ2**					
/PAØVDV	**28**	**146,642**	**646**	**23**	**56**

PARAGUAY

ZPØY	**21**	**1,584,523**	**3728**	**36**	**130**
					(Opr. LW9EUJ)
***ZP5XYE**	**21**	**83,844**	**431**	**18**	**50**

SURINAME

PZ5JR	**A**	**8,301,917**	**5110**	**131**	**420**
					(Opr. N6ZZ)

TRINIDAD & TOBAGO

9Y4VU	**21**	**722,787**	**1930**	**28**	**101**

URUGUAY

CX4SS	7	48	4	2	4
***CX6VM**	**7**	**58,186**	**222**	**29**	**65**

VENEZUELA

YV1OB	**1.8**	**38,352**	**357**	**13**	**34**
***YV3AJ**	**28**	**297,142**	**1000**	**26**	**75**
					(Opr YV6AZC)
*4M7A	3.5	23,920	203	11	29

QRP

TA4ZM	**A**	**1,734,238**	**1615**	**82**	**292**
					(Opr DK5WL)
AA2U	"	**486,200**	**565**	**94**	**246**
LY3BA	"	**449,757**	**886**	**82**	**281**
KP4DDB	"	**296,172**	**835**	**54**	**117**
UX8IX	"	**241,962**	**973**	**57**	**237**
IK2LEY	"	**248,939**	**686**	**69**	**214**
DL3KVR	"	**218,476**	**629**	**59**	**224**
I1BAY	"	**217,460**	**558**	**77**	**255**
JA2IVK	"	**176,512**	**292**	**90**	**134**
N7IR	"	**152,800**	**302**	**77**	**123**
N1AFC	"	**149,917**	**348**	**51**	**146**
EA7AAW	"	**146,355**	**458**	**43**	**122**
KA1CZF	"	126,336	253	55	137
K4LTA	"	**125,208**	**286**	**72**	**150**
UA9SG	"	**122,265**	**311**	**49**	**116**
N4IU	"	122,194	225	66	148
9A3GU	"	**118,695**	**434**	**45**	**160**
Z32DR	"	**115,020**	**441**	**44**	**136**
PAØADT	"	**94,675**	**386**	**29**	**136**
JJ1VRO	"	**94,085**	**231**	**66**	**89**
OH1LUZ	"	**84,420**	**451**	**45**	**156**
KRØB	"	**74,888**	**201**	**51**	**97**
					(Opr AF9T)
DJ3XK	"	**40,152**	**171**	**34**	**134**
KV8S	"	**27,984**	**109**	**41**	**65**
OH2YL	"	26,460	142	32	73
EA3FER	"	26,265	115	35	50
NM1K	"	25,984	103	47	69
G4FRE	"	**25,452**	**172**	**31**	**95**
					(Opr WG3I)
OM3TUM	"	**20,833**	**242**	**23**	**60**
SP2FAP	"	**20,819**	**129**	**36**	**73**
OK2PBG	"	**20,497**	**164**	**21**	**82**
SM5DQ	"	**20,280**	**171**	**26**	**78**
UAØKCL	"	**18,500**	**136**	**30**	**44**
AB4KL	"	16,351	85	31	52
VE2ABO	"	**15,500**	**123**	**24**	**38**
N9LMU	"	**14,536**	**73**	**30**	**49**
HB9XY	"	**14,534**	**153**	**18**	**68**
SP2UUU	"	11,160	82	26	67
AB5OU	"	**11,139**	**94**	**37**	**42**
DL4OBJ	"	9,971	128	12	47
DJ5QK	"	7,566	35	16	62
SM7CZC	"	6,424	66	20	53
K3WWP	"	**5,564**	**53**	**18**	**34**
DL6ZLG	"	5,049	39	12	39
OZ7ADP	"	**4,960**	**52**	**23**	**39**
DL4MFM	"	4,800	56	19	41
F5KTL	"	**4,361**	**70**	**11**	**38**
					(Opr. FB1IPH)
YQØATW	"	**3,552**	**45**	**9**	**39**
ON5EU	"	3,318	60	11	31
VE5AEO	"	3,069	50	18	15
GØCXT	"	2,280	41	11	29
W8HNI	"	2,166	25	18	20
VE6GK	"	1,786	49	8	11
W6ZH	"	920	15	11	12
DL2PY	"	825	58	4	7
VE7EKS	"	768	25	8	8
4X1IF	**28**	**28,713**	**197**	**13**	**38**
L5F	"	**18,684**	**176**	**13**	**23**
					(Opr LU1FNH)
DL9LAI	"	**7,182**	**67**	**15**	**39**
OM7PY	"	**3,999**	**45**	**17**	**26**
RV9CE	"	**2,688**	**45**	**6**	**15**
UT7FO	"	**1,856**	**32**	**13**	**19**
US4EX	**21**	**96,096**	**454**	**30**	**102**
GØTDX	"	**51,612**	**300**	**24**	**68**
LU8HSO	"	**32,928**	**233**	**15**	**33**
S51RW	"	**19,099**	**133**	**21**	**50**
EA1BV	"	**6,486**	**97**	**13**	**34**
SP5SDA	**14**	**65,637**	**334**	**30**	**87**
G3LHJ	"	**50,232**	**333**	**19**	**65**
WB6JMS	"	**20,803**	**110**	**29**	**42**
SP9NLI	"	**16,836**	**168**	**16**	**53**
HB9CBR	"	**13,166**	**160**	**16**	**42**
JA6UBK	"	**9,010**	**72**	**20**	**33**
K4GEL	"	**5,206**	**56**	**13**	**25**
KMØL	"	**4,738**	**40**	**18**	**28**
OK1KAI	"	2,079	66	5	22
KA6SGT	"	1,323	42	13	10
IK4MFP	"	980	23	7	21
HB9LDO	"	418	17	6	13
KM6SE	"	266	16	7	7
I5AZX	"	80	10	2	6
OS6TJ	**7**	**13,452**	**167**	**12**	**47**
UT7QF	"	**12,312**	**119**	**14**	**58**
VE6SH	"	**8,280**	**111**	**16**	**20**
I8SAT	"	**2,145**	**33**	**10**	**23**
SMØHPL	"	**1,014**	**42**	**5**	**21**
UA9CBM	**3.5**	**72,051**	**344**	**15**	**58**
SP4GFG	"	**30,294**	**416**	**10**	**56**
LZ1FW	"	**7,470**	**144**	**10**	**35**
SP8UFY	"	**6,864**	**138**	**9**	**39**
SO5TW	"	**3,400**	**105**	**5**	**29**
					(Opr K3TW)
G3DYY	"	**2,088**	**44**	**21**	**72**
WA2ASQ	"	**1,650**	**26**	**8**	**17**
2EØACY	"	**912**	**24**	**3**	**15**
US8ICZ	**1.8**	**8,736**	**142**	**7**	**41**
KIØG	"	**2,232**	**32**	**13**	**18**
YO4FRF	"	**1,196**	**50**	**4**	**19**
SP5NCG	"	216	15	3	12
IØKHP	"	54	7	3	6

ASSISTED

NORTH AMERICA

UNITED STATES

K1IU	**A**	**2,439,160**	**1484**	**141**	**437**
AA2DU/1	"	**2,167,869**	**1452**	**125**	**412**
K1DG	"	**1,861,175**	**1231**	**137**	**408**
N4XR/1	"	1,116,644	773	132	392
K1JKS	"	982,488	873	107	295
KC1F	"	774,048	775	95	257
W1FJ	"	415,808	437	100	256
K1FWF	"	302,510	325	93	245
WB2DND/1	"	137,488	241	62	146
WA1KSY	"	119,515	222	58	147
N01J	"	57,918	152	49	98
KA1CLV	"	53,439	140	37	104
WA1G	21	19,278	91	25	56
K1ZM/2	**A**	**3,319,620**	**1895**	**147**	**463**
K2WK	"	**2,372,676**	**1422**	**141**	**452**
K2BU	"	**1,788,123**	**1100**	**136**	**441**
K5NA/2	"	**1,774,220**	**1109**	**136**	**444**
K2LE	"	1,572,516	1164	128	356
K2PS	"	1,136,200	873	120	340
AA2FB	"	798,490	745	99	286
W1GD/2	"	663,806	573	108	314
N2UN	"	586,099	588	98	269
K3LGJ/2	"	576,300	603	92	248
K2AZ	"	460,752	491	96	252
K2NJ	"	402,696	446	90	239
KD2NT	"	374,088	429	90	237
AA2PZ	"	327,172	383	81	130
K2SB	"	307,344	373	88	216
W2HG	"	289,120	379	81	192
W2XN	"	214,500	274	82	204
NA2M	"	203,820	298	80	178
N2AIF	"	170,403	272	68	169
K2TD	"	149,695	243	71	164
W9NGA/2	"	125,930	192	74	171
N2CQ	"	101,548	175	59	153
WJ2W	"	44,225	118	53	92
KB2SE	"	31,842	98	42	80
N2VW	"	10,988	54	32	50
KF2O	**7**	**63,318**	**187**	**30**	**92**
K3WW	**A**	**2,923,641**	**1596**	**154**	**497**
N3AD	"	**2,153,200**	**1367**	**136**	**424**
AA3B	"	**1,314,672**	**967**	**118**	**370**
NN3Q	"	1,258,650	995	105	345
W3MM	"	1,030,808	705	142	396
N3NA	"	950,475	723	116	359
K3NZ	"	898,576	660	119	378
K3ND	"	832,831	657	128	371
NW3Y	"	798,940	690	113	317
K3II	"	701,520	544	123	351
W3OV	"	634,865	603	103	282
K3BHX	"	400,860	427	87	253
W3HVQ	"	354,654	410	98	225
K3SA	"	339,865	391	88	227
W3KV	"	272,796	393	73	181
WT3P	"	242,326	341	75	191
NK3U	"	199,648	272	78	194
N3AM	"	188,552	277	82	177
K3ATO	"	125,868	230	57	147
K3TLX	"	109,180	213	72	140
NY3C	"	61,758	169	46	95
KE3GA	"	50,856	123	49	107
W3EWW	"	33,304	220	58	128
WR3L	**21**	**53,955**	**175**	**28**	**81**
AA4NC	**A**	**1,517,233**	**1046**	**133**	**394**
N4KG	"	**896,512**	**649**	**146**	**366**
KB4GID	"	809,217	660	128	331
K4CEF	"	797,400	665	125	310
KG4W	"	513,264	480	109	299
AB4RU	"	387,612	427	96	237
W5HUQ/4	"	125,580	213	70	160
N4XX	"	93,080	130	58	131
AC4ZD	"	63,434	160	56	105
W4IVN	"	10,001	60	25	48
W3FTG/4	"	3,024	29	16	26
N4SLR	"	522	11	8	10
KØLUZ/4	**14**	**141,484**	**423**	**32**	**92**
AC4HB	**7**	**350,592**	**784**	**36**	**130**
NJ4F	"	**112,185**	**300**	**32**	**103**
KA5W	**A**	**958,512**	**764**	**136**	**320**
K5LP	"	**772,710**	**646**	**128**	**302**
N3BB/5	"	577,536	582	119	257
N5AW	"	407,370	429	121	246
KD5IA	"	184,534	260	97	172
WB5CRG	"	64,484	136	70	118
K5HDU	"	30,030	104	44	66
K5EC	"	23,205	83	41	64
KI5L/5	"	22,800	87	35	60
WT5U	**21**	**41,225**	**160**	**27**	**70**
K6XT	**A**	**977,077**	**812**	**135**	**296**
WZ6Z	"	**878,384**	**768**	**134**	**278**
WS6X	"	514,096	511	119	249
K6SG	"	462,735	528	105	210
W6BIP	"	245,376	321	101	183
K6MA	"	188,650	281	89	156
WA6TLA	"	135,468	240	72	141
KJ6HO	"	135,464	220	94	142
N6RFM	"	117,700	210	63	151
W4RIM/6	"	113,277	231	76	107
NC6U	"	108,324	253	61	92
WW6D	"	89,739	188	66	103
KT6V	"	61,560	132	60	111
WA8LLY/6	"	56,250	139	63	87
N6DLU	"	36,645	106	48	83
NF6R	"	26,033	107	38	59
AA6JJ	"	15,792	61	38	56
NF6H	**14**	**328,324**	**724**	**39**	**119**
KN6L	"	149,760	450	32	88
K6JO	7	13,752	72	24	48
AA7CQ	**A**	**517,324**	**678**	**102**	**181**
NØAX/7	"	**342,952**	**504**	**95**	**168**
NY7T	"	194,256	314	84	144
N7ENU	"	102,950	257	54	91
KE7GH	"	78,498	186	71	107
KF8LY	**A**	**739,830**	**684**	**109**	**281**
W8FN	"	**496,800**	**496**	**101**	**267**
K8JJC	"	484,956	532	95	247
KE8M	"	295,380	409	81	189
KB3X/8	"	148,155	226	87	168

KC8EG	"	107,400	216	57	122
K8CV	"	71,736	180	47	100
KB8PK	"	8,064	51	27	36
KB8SUZ	"	7,788	50	28	38
NW8F	3.5	1,250	18	9	16
W8UVZ	**1.8**	**16,434**	**101**	**17**	**49**
KK9V	**A**	**852,852**	**746**	**125**	**301**
W9OP	"	416,640	493	95	214
KØGGN/9	"	59,100	149	53	97
W9ILY	"	31,080	100	41	79
N9AU	**7**	**73,396**	**231**	**30**	**88**
NK9G	"	51,584	190	28	76
NØAT	A	95,931	187	62	125
KØCS	**1.8**	**4,128**	**42**	**16**	**27**

CANADA

VE1RAA	**A**	**144,225**	**232**	**60**	**165**
VE6LB	1.8	2,743	107	7	6

AFRICA

CANARY ISLANDS

EA8NQ	**14**	**113,580**	**426**	**21**	**69**

ASIA

ASIATIC RUSSIA

RKØSXF	**3.5**	**59,120**	**368**	**20**	**60**
					(Opr RUØSN)

HONG KONG

VS6BG	**A**	**1,474,200**	**2159**	**118**	**233**

JAPAN

JF1SEK	**A**	**976,966**	**918**	**135**	**251**
JH8KYU/1	"	174,038	330	90	124
JA1SJV	**14**	**34,853**	**147**	**31**	**60**
JE1HXZ	"	960	18	10	14
JK1GKG	3.5	4,446	59	18	20
JK2VOC	**A**	**285,525**	**606**	**87**	**148**
JF3LGC	**"**	**265,848**	**438**	**78**	**150**
JN3SAC	"	227,601	408	77	132
JE5IEJ	7	23,779	113	27	52
JA7SUR	**A**	**274,920**	**453**	**95**	**142**
JA9CWJ	**"**	**492,407**	**660**	**101**	**170**

EUROPE

ALAND ISLANDS

OHØBCI	**1.8**	**81,528**	**846**	**17**	**69**
					(Opr OH2BCI)

CZECH REPUBLIC

OK2FD	**A**	**306,908**	**343**	**116**	**272**

ENGLAND

G5LP	**A**	**428,340**	**665**	**94**	**269**
G4PDQ	"	160,284	478	66	156

FINLAND

OH2VZ	**A**	**152,766**	**315**	**67**	**179**
OH2MPO	**21**	**79,992**	**358**	**32**	**100**
OH3NE	**3.5**	**28,877**	**401**	**10**	**57**
					(Opr OH3LQK)
OH1MLB	**1.8**	**45,288**	**568**	**11**	**61**

FRANCE

F5NBX	**A**	**1,141,904**	**1273**	**120**	**346**
F6IRA	"	617,050	1051	84	266
F5NLY	"	305,520	417	79	225
F5TFS	"	164,944	412	66	178

GERMANY

DJ2YA	**A**	**1,892,485**	**1408**	**161**	**534**
DL2ZAE	**"**	**1,348,214**	**1464**	**128**	**425**
DL2HBX	**"**	**1,280,250**	**1207**	**135**	**434**
DF8WS	**"**	**1,049,784**	**1055**	**110**	**388**
DK1RP	"	386,922	587	89	265
DL9NCR	"	336,675	601	88	247
DL5ABI	"	197,960	402	75	205
DL3KUD	"	190,176	312	86	197
DL8KJ	"	165,240	330	75	195
DJ5AV	"	139,780	425	73	168
DL5DXF	"	113,500	246	57	193
DL4KMK	"	62,205	233	44	145
DF3CB	"	12,780	83	24	36
DJ9RR	**7**	**78,120**	**409**	**32**	**94**
DJ4SO	**1.8**	**25,915**	**311**	**12**	**61**
DJ4LK	**"**	**18,699**	**261**	**9**	**60**

ITALY

IKØHBN	**A**	**566,672**	**715**	**106**	**322**
IK3QAR	**"**	**440,230**	**710**	**87**	**244**
IQ2A	"	290,440	729	75	190
					(Opr I2UIY)
IKØPXD	"	208,492	632	55	133
IK3SCB	"	93,396	300	53	119
IK1TZO	"	87,590	267	55	135
IK2NVE	"	52,622	172	52	114
IK1VGK	"	31,626	187	33	93
IK2IKW	"	21,296	101	39	82
IK5TSS	**21**	**111,186**	**369**	**32**	**110**
I2HVE	**14**	**305,897**	**928**	**37**	**112**
II8W	**7**	**331,045**	**1434**	**32**	**111**
					(Opr IK8JSV)
IN3NJB	**3.5**	**155,040**	**1128**	**19**	**83**

NETHERLANDS

PA3EBT	**3.5**	**255,612**	**1313**	**26**	**93**

NORWAY

LA4PHA	**A**	**231,768**	**463**	**72**	**189**
LA2KD	"	179,196	376	71	203

SICILY

IT9XUC	**14**	**339,795**	**1304**	**32**	**103**

SLOVAK REPUBLIC

OM3NA	**A**	**2,974,634**	**2501**	**143**	**456**

SPAIN

EA3BT	**A**	**351,540**	**540**	**84**	**240**

SVALBARD

JWØI	**A**	**1,054,596**	**1834**	**73**	**203**

SWEDEN

SMØHTD	**A**	**624,012**	**684**	**124**	**195**
SM7WT	"	104,218	278	56	158
SM6LPF	"	5,734	82	16	31
SM5CZK	"	3,588	29	23	29

SWITZERLAND

HB9CPS	21	29,568	153	22	62

VATICAN CITY

HV4NAC	A	6,976	43	31	33
					(Opr IKØFVC)

WALES

GW3JXN	**3.5**	**62,524**	**558**	**17**	**60**

SOUTH AMERICA

ARUBA

PAØW	**A**	**10,288,950**	**5541**	**155**	**450**
					(Opr W2GD)

CHILE

CE3BFZ	A	26,280	150	24	36

MULTI-OPERATOR SINGLE TRANSMITTER NORTH AMERICA

UNITED STATES

K1AR		**6,660,108**	**3124**	**155**	**586**
KC1XX		**5,431,836**	**2773**	**152**	**546**
K1TR		**4,616,046**	**2432**	**148**	**518**
K1KP		1,942,590	1358	119	391
KB1H		1,868,730	1338	122	379
WT1T		1,580,652	1146	120	378
W1XS		734,977	701	99	284
WE1B		466,236	542	80	244
N1AU		226,570	300	82	196
N2NU		**5,511,740**	**2587**	**168**	**586**
NO2R		1,481,760	1051	124	380
AB2E		1,369,650	864	139	436
NS2K		1,073,950	831	113	357
KF2KT		209,440	355	69	151
N3RS		**5,304,804**	**2583**	**159**	**573**
AA1K/3		**2,303,712**	**1357**	**143**	**465**
W3GG		1,338,466	985	119	372
N3BNA		904,960	807	98	306
K3DI		847,168	725	103	324
NM3K		513,857	586	86	231
KB3TS		138,852	256	58	145
W1CW/4		**2,564,892**	**1599**	**151**	**443**
W4PRO		558,448	508	114	304
KO4EA		288,025	400	82	199
WXØB/5		**1,988,806**	**1555**	**145**	**381**
N5OK		967,664	987	115	279
N5HRG		195,910	262	99	187
W6GO		**3,397,914**	**2420**	**150**	**357**
N6CQ		**2,545,040**	**1605**	**142**	**438**
AG6O		**2,087,652**	**1884**	**137**	**269**
W6REC		1,628,354	1480	126	263
AA6MC		1,597,925	1472	127	270
WA6IET		927,520	962	116	236
K8AZ		**4,514,277**	**2322**	**162**	**525**
K8LX		1,003,440	810	119	325
KS9K		**3,273,984**	**2015**	**153**	**456**
K9UWA		**2,024,308**	**1326**	**150**	**422**
W9KDX		1,618,130	1135	136	379
N2IC/Ø		**2,931,732**	**1907**	**155**	**403**
NCØP		**2,250,056**	**1520**	**145**	**379**
NXØI		**1,915,740**	**1438**	**150**	**372**
WØCP		1,498,704	1244	139	309

BAHAMAS

C6AHX		**5,760,495**	**4162**	**140**	**445**

CANADA

VE3EJ		**6,446,946**	**3739**	**164**	**518**
VE7U		1,367,204	2055	102	176
VE6AO		318,462	968	59	95

CAYMAN ISLANDS

ZF1A		**4,675,628**	**3997**	**131**	**371**

MEXICO

6D2X		**6,544,224**	**4863**	**157**	**401**

MONTSERRAT

VP2MDE		**4,078,800**	**3605**	**107**	**333**

PUERTO RICO

NP4Z		**7,629,219**	**5217**	**141**	**450**

AFRICA

DJIBOUTI

J28EN		**4,790,019**	**3502**	**117**	**350**

IVORY COAST

TU5EV		**1,408,959**	**1778**	**70**	**197**

ASIA

ASIATIC RUSSIA

RK9AWN		**2,629,578**	**2143**	**115**	**342**
RKØQ		**871,200**	**1755**	**83**	**159**

JAPAN

JJ3YBB		**3,522,400**	**2314**	**166**	**378**
JA8YBY		**2,887,680**	**2183**	**151**	**319**
JE6ZIH		**2,041,392**	**1727**	**139**	**287**
JR1ZTT		**1,822,699**	**1547**	**151**	**280**
JA6YCL		1,537,160	1431	139	281
JA1ZLO		1,282,284	1267	131	241
JA9YAV		732,484	917	114	184
JA1YXP		519,414	777	91	158
JA2YKA		302,574	537	85	126
JH8YCT		204,852	437	66	106
JH2ZUN		51,728	172	48	74

KAZAKHSTAN

UN5G		**3,354,654**	**2304**	**139**	**404**

MONGOLIA

JT1T		**426,624**	**1435**	**75**	**127**

SAUDI ARABIA

HZ1AB		**6,896,136**	**4078**	**146**	**452**

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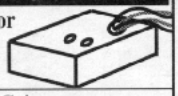

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THAILAND

HSØAC	2,594,388	2745	131	316
HS7AS	1,126,856	2150	100	216

EUROPE

4U-ITU

4U1ITU	4,420,560	4068	151	527

4U-VIC

4U1VIC	4,458,090	3923	170	540

AUSTRIA

OE2S	3,113,131	2713	152	471

BELGIUM

OT4T	7,583,400	4053	192	708
ON6AH	1,902,432	2299	122	334
OT4A	1,882,226	1968	116	387

BULGARIA

LZ9A	6,953,600	4312	189	659
LZ7N	1,676,760	2005	121	350

CROATIA

9A5D	1,493,457	2373	83	278

CZECH REPUBLIC

OL3A	2,059,960	2494	118	372
OK2KOD	1,178,853	1438	116	385
OK2KJU	434,928	813	79	249
OL1CW	433,807	812	83	266
OK2KDS	118,160	311	59	152

ENGLAND

GXØAAA	6,279,640	4205	165	575
G3LNS	5,162,808	3475	166	612
GB5DX	4,697,360	3471	151	559
GB5WW	2,534,592	2453	139	475

EUROPEAN RUSSIA

RS3A	4,413,688	3902	168	544
RZ6LZL	1,131,031	1733	103	346
RZ4AYT	685,785	1412	83	266
RK1OWZ	548,226	1025	90	252
RW1Q	528,105	1116	73	250
RZ4FZL	36,287	220	37	94

FINLAND

OH2M	6,723,750	3896	180	570
OH7X	4,940,904	3262	164	532
OH4N	2,105,732	2209	126	412
OH5LAQ	1,820,246	2156	106	343
OH8MCG	845,480	1880	65	165
OI6AY	97,088	520	50	114

FRANCE

TM9C	6,337,206	4423	165	573
TM8A	1,405,070	2099	103	307
F6KCS	966,810	1403	95	295

GERMANY

DFØHQ	6,295,100	3762	183	599
DK6WL	4,325,708	2760	172	601
DL5XU	2,704,380	2127	164	494
DKØMM	2,369,458	1941	150	508
DKØEE	2,365,272	2060	159	525
DL8HWA	1,974,565	1892	132	425
DKØUB	1,521,450	1840	112	371
DLØRH	651,960	900	70	290
DF2RG	561,699	796	99	318
DKØTZ	303,369	561	82	237
DLØTUD	205,200	411	76	194
DK9DA	148,719	251	77	190
DKØFFO	83,367	303	41	136

GUERNSEY

GU3HFN	1,654,380	3018	77	287

IRELAND

EI7M	3,657,600	3293	131	469

ITALY

IQ4A	8,844,052	4501	194	674
IR2W	5,132,160	3425	167	562
IU2X	3,846,574	2824	158	529
IU2D	3,058,560	2704	135	441
I02L	2,222,550	2186	128	422
IK2UCK	1,273,688	1653	114	367
IQ4T	1,117,840	1254	116	329
IK4UOP	306,375	626	77	208

KALININGRAD

RW2F	4,629,768	3625	171	570

LITHUANIA

LY1BXB	952,070	1628	93	313

LUXEMBOURG

LX /DFØBK	1,157,013	2032	106	323

NETHERLANDS

PI4CC	1,582,490	2100	107	374
PI4DEC	1,051,596	1795	98	266
PA3FHA/F	591,981	1180	88	265
PI4TUE	217,560	593	56	166
PI4ALK	46,508	242	41	110

POLAND

SP9KRT	360,552	662	84	248
SPØPKQ	104,040	303	52	152
SP3KPN	4,002	61	16	42

SCOTLAND

GM4TMS	457,660	1516	55	190

SLOVAK REPUBLIC

OM3A	4,802,520	3377	168	576
OM7M	4,657,375	3486	166	537
OM3RJB	1,358,215	1377	130	421

SPAIN

EA3CW	2,038,971	2603	104	347
EA1AU	1,964,016	2573	104	310
EA5EU	446,454	868	75	231
EA5VN	143,451	440	56	151

SWEDEN

SK1PW	2,038,509	2482	122	409
SLØCB	1,653,300	2115	122	373
SK4AO	1,210,203	1533	108	315
SK6AW	806,650	1262	99	326
SK6EI	157,500	402	57	153
SK6WU	61,835	232	44	105

SWITZERLAND

HB4FE	1,330,830	1300	127	403

UKRAINE

UT7W	2,084,506	1755	151	478
UU4JWI	393,617	759	92	185

WALES

GW8GT	5,183,882	3966	147	544

YUGOSLAVIA

YU1AAV	240,768	1056	50	178

OCEANIA

AUSTRALIA

VK4MZ	1,409,906	1709	101	182

HAWAII

WH6R	2,624,622	2770	119	203

SOUTH AMERICA

ARGENTINA

LU4FM	4,024,078	3022	137	310

MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA

UNITED STATES

W3LPL	9,699,844	4196	181	666
N2RM	8,979,876	4070	174	630
K1KI	8,158,280	3861	160	594
K3LR	7,360,036	3546	166	580
KY1H	5,245,622	2846	153	544
KY3N	4,869,634	2444	164	557
N6DX	4,415,920	2980	164	414
K4VX/Ø	4,330,932	2606	159	483
K3ANS	2,679,600	1614	147	462
W7RM	2,669,632	2223	141	307
N2MM	2,223,870	1371	140	446
WØAIH/9	2,158,456	1568	143	395
W4MYA	1,283,427	892	147	384
NE3F	610,134	578	109	289

ALASKA

NL7G	4,416,880	4378	125	278

ANGUILLA

VP2EZA	8,280,048	6479	121	411

DOMINICA

J77J	8,599,387	6496	123	424

MEXICO

6E2T	1,953,351	2945	108	181

TURKS & CAICOS

VP5VW	21,823,275	11740	169	586

AFRICA

GHANA

9G5AA	22,946,634	11063	154	543

ASIA

ASIATIC RUSSIA

RW9C	10,279,614	5477	173	550

JAPAN

JA3ZOH	6,512,896	3876	177	431
JH5ZJS	5,731,698	3628	168	403
JA1YDU	4,488,876	2996	173	391
JA7YAA	2,654,338	2227	143	294
JA3YKC	2,367,651	2007	140	289

SYRIA

YKØA	11,474,172	7351	132	424

EUROPE

CROATIA

9A1A	14,506,569	9052	187	660

CZECH REPUBLIC

OL7O	8,166,164	5589	184	612

DENMARK

OZ5WQ	1,931,215	2859	105	376
OZ4HAM	72,352	396	31	121

DODECANESE

J45T	1,549,278	3646	74	292

EUROPEAN RUSSIA

RU1A	7,581,104	5247	184	612

FINLAND

OH1AJ	1,317,528	1283	120	402

FRANCE

F6KJX	146,305	733	31	114

GERMANY

DLØKF	3,704,239	3566	146	513

HUNGARY

HG73DX	16,114,625	8968	198	743

ITALY

IR5R	335,342	941	55	183
IK2VUE	14,136	138	19	57

LITHUANIA

LY7A	3,700,800	4184	136	464

MACEDONIA

Z3ØA	6,477,834	6287	150	521

NETHERLANDS

PI4COM	5,671,848	4676	156	530

UKRAINE

EM2I	10,436,607	7946	174	609
UU5J	9,390,039	6718	196	681

YUGOSLAVIA

YU7ØL	252,984	804	61	188

OCEANIA

NEW ZEALAND

ZM2K	6,214,602	4636	143	315

NORTHERN MARIANAS

KHØAM	17,076,598	8438	193	493

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