

2003 IARU HF World Championship Results

*Oh, conditions outside are frightful
And the rate is not delightful.
But despite the aurora's glow,
QSO, QSO, QSO!*

That little ditty, contributed by Ward, NØAX, and sung to the Christmas tune *Let It Snow*, summed up this year's IARU HF World Championship. Actually, Saturday was the problem day, with propagation pretty much returning to normal on Sunday. There's a short summary of propagation at the end of this article, with a plot on the Web version of the predicted response of the F region showing why Saturday wasn't too good.

The IARU Contest

There's no doubt that the IARU contest is a fun event. PAØMIR echoes this statement with "Always fun to participate in the IARU test. This year I even planned my holiday to start just a day after the contest, so really in a hurry to prepare the log." HA5X chimes in, "It was great fun! I used a new call sign and a brand new radio from my brand new apartment."

Another aspect of the IARU test is it's a great way to get back into contesting if you've been away for a while. For example, NR9A comments "After being off the air since 1997, it was great to be back in the contesting mode, even though it was a casual effort."

One more thing about IARU—it reminds everyone that the fall contest season is rapidly approaching.

Contest Summary

The number of logs received for this year's contest was up about 9% from last year. The largest increases in participation came from Poland (113 logs last year, 241 logs this year) and European Russia (87 logs last year, 116 logs this year).

This year 51 ITU zones (out of 90 total) sent in logs. That's one more zone than last year.

By continent, Europe led the pack with 1058 logs. By zone, zone 28 sent in the most logs—648. And by country

Expanded Results, Line-Score Printouts Available

For complete contest results online, please visit www.arrl.org/contests/results. ARRL members without Internet access may obtain a printout of the complete line scores by sending a self-addressed, stamped envelope to ARRL Contest Results, 225 Main St, Newington, CT 06111. Please be sure to include the contest name and year.

(more properly *entity*), US stations submitted 394 logs. See the accompanying tables for a more detailed breakdown of these three categories.

Close Competitions

This year's results are broken out into World, Europe, North America W/VE, North America non-W/VE, Asia, South America, Oceania, and Africa by the four categories: Single Op Mixed, Single Op Phone, Single Op CW and Multiop.

Table 1

Top Scores

World

Single Op Mixed

IH9/OL5Y	3,504,774
5B4AGM (RW3QC, op)	3,404,544
3V8BB (YT1AD, op)	3,394,912
EA8/OH4NL (OH2BYS, op)	3,315,312
RK4FF	2,783,048

Single Op Phone

FY5FY	2,792,467
ZX5J (PP5JR, op)	2,663,117
ZX2B (PY2MNL, op)	1,761,218
EA5DFV	1,680,200
S57UN	1,228,016

Single Op CW

PYØFF (YU1RL, op)	3,290,760
YT6A	2,511,486
TA2ZF	2,430,492
S58A	2,131,800
OH2BH (OH2UA, op)	2,038,462

Multiop

P3A	7,008,176
HG6N	3,574,831
HG1S	2,928,508
RT9W	2,650,673
RM6A	2,561,280

Europe

Single Op Mixed

RK4FF	2,783,048
OR3T (RA3AUU, op)	2,505,594
UT5UGR	2,481,210
LY2FY	2,203,032

Single Op Phone

EA5DFV	1,680,200
S57UN	1,228,016
IO3P (IZ3EYZ, op)	1,170,350
LA9DFA	968,792
RN4LP	854,382

Single Op CW

YT6A	2,511,486
S58A	2,131,800
OH2BH (OH2UA, op)	2,038,462

LY7Z (LY2TA, op)

1,709,392
1,628,206

Multiop

HG6N	3,574,831
HG1S	2,928,508
RM6A	2,561,280
RL3A	2,166,570
OE2S	1,950,480

W/VE

Single Op Mixed

VE3EJ	1,427,280
K4ZW	1,344,108
K3ZO	1,301,740
CK3AT	1,174,547
N1UR	945,567

Single Op Phone

K5TR	959,700
W7WA	702,548
VE1JY	630,736
(K6HNZ, op)	
W5KFT	562,746
(WM5R, op)	
N3HBX	534,280

Single Op CW

W1WEF	1,312,170
K5GN	1,183,930
WC1M	974,592
K4VX (AG9A, op)	960,375
AA3B	917,800

Multiop

K4JA	1,287,516
NØNI	978,267
K5KG	869,302
NA5S	852,432
W2AX	732,600

North America

non-W/VE

Single Op Mixed

ZF2AH	354,203
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Single Op Phone

6Y4Y	58,432
T12KAC	21,358
HP3XBS	15,312

Single Op CW

VP9/K1YR	371,070
XE2AC	84,750

Multiop

TG9ADV	44,775
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Asia

Single Op Mixed

5B4AGM (RW3QC, op)	3,404,544
RG9A (UA9AM, op)	2,277,633
UA9ZZ	1,446,564
UA9CLB	1,404,271
RMØA (UAØANW, op)	1,337,777

Single Op Phone

JA6GCE	637,777
JE2HCJ	553,700
RAØAM	552,906
JM1LPN	532,167
YMØT (TA2RC, op)	512,732

Single Op CW

TA2ZF	2,430,492
UP4L (UN7LZ, op)	1,203,018
RW9TA	1,158,840
UA9YAB	1,119,807
TA3DD	874,692

Multiop

P3A	7,008,176
RT9W	2,650,673
RF9C	2,144,645
RKØAXX	1,189,377
JH4UTP	513,825

South America

Single Op Mixed

PY2NY	1,156,064
LU5FF	234,728
PY2OMS (PY5EG, op)	192,072
PY1NB	183,134
PY8AZT	119,070

Single Op Phone

FY5FY	2,792,467
ZX5J (PP5JR, op)	2,663,117
ZX2B (PY2NML, op)	1,761,218
ZW5B (PT2FM, op)	1,073,518
AY8A (LU8ADX, op)	653,744

Single Op CW

PYØFF (YU1RL, op)	3,290,760
LU7EE	612,612

LU1EWL

522,879
493,584
412,104

Multiop

LT1F	2,112,750
LVØN	1,321,173
LR7A	1,238,952
LO7H	1,097,980
PQ2Q	974,482

Oceania

Single Op Mixed

VK7GN	15,444
YBØWWW	13,464
DU1EV	6,486

Single Op Phone

DU9RG	436,020
DU1UTD	108,071
VK4DMP	44,138

Single Op CW

VK1AA	1,047,654
KH6RS	560,772
(NU6S, op)	
V8NT	253,456
ZL1AIH	94,080

Multiop

KH7X	1,905,930
KH6WWW	258,762
KHØNX	209,628

Africa

Single Op Mixed

IH9/OL5Y	3,504,774
3V8BB	3,394,912
EA8/OH4NL (OH2BYS, op)	3,315,312
ZS4TX	2,125,893
CT3KN	61,659

Single Op Phone

5U7JB	938,994
CT3FQ	178,267
8Q7LC (VK6LC, op)	123,938

Single Op CW

SU9US	560,367
ZS1EL	50,297
CN8YR	20,384

Multiop

ZSØM	542,260
ZS5NK	282,982



A group of tired, weary, warriors...Under normal circumstances they masquerade as K3LR. In this year's IARU HF Championship they morphed themselves into W1AW/3. Seated: K8NZ, N3GJ, K3UA, K8AZ, K8MR. Standing: K3LR, N3RA, W9ZRX, W9RE, N9RV.

Table 2
Logs Received by Continent

EU	1058
NA	442
AS	242
SA	79
OC	22
AF	19
AN	1

Table 3
Logs Received by Country (Top 5)

US	394
Poland	241
Germany	143
Japan	117
European Russia	116

Table 4
Logs Received by Zone (Top 5)

Zone 28	648
Zone 29	224
Zone 8	219
Zone 45	117
Zone 27	103

Table 5
IARU Officials

G3BJ	1,553,930
K1ZZ	1,222,604
PT2ADM	425,964
PA7BT	150,629
9V1UV	29,205
LA2RR	25,665
VK3ADW	14,760
LZ1US	3,375

Table 6
Headquarters Stations

Call	Score	Call	Score
DA0HQ	16,507,800	SK9HQ	3,892,030
GB5HQ	15,705,914	PJ2HQ	3,650,725
TM0HQ	15,394,425	CT1REP	2,448,459
R7HQ	14,629,338	B4HQ	2,302,128
SN0HQ	14,483,480	LZ0HQ	2,184,028
EM5HQ	13,425,363	OZ1HQ	2,019,580
9A0HQ	13,085,082	ZA1A	1,922,032
IUXHQ	11,905,850	4L0HQ	1,405,170
YT0HQ	11,662,121	EI0HQ	1,100,284
S50HQ	11,311,048	YM0KA	1,024,200
OL3HQ	11,254,590	HB9A	904,720
OH2HQ	10,880,332	YE0HQ	821,289
PA6HQ	10,689,448	VA3RAC	717,576
YL4HQ	10,625,768	4X4ARC	675,750
LY0HQ	9,721,125	CX1AA	655,020
YR0HW	9,081,457	YV5AJ	606,152
ES9A	7,950,063	P40HQ	368,198
W1AW/3	7,778,210	HS0AC	341,582
T90HQ	7,420,350	ZL6A	302,562
HG0HQ	7,143,168	LN2HQ	268,332
OEXHQ	6,990,208	EW5HQ	189,290
JY6ZZ	6,229,730	AT0HQ	61,857
NU1AW	4,954,896	ZS6SRL	12,636
ER7HQ	4,784,976	HR2RCH	2,354
8NXJHQ	4,368,462	ZW2HQ	1,080

There were several tight races in this year's event.

The closest race was between IH9/OL5Y, 5B4AGM (RW3QC, op) and 3V8BB, in the World Single Op Mixed category. OL5Y took the winner's honors from 5B4AGM by only 2.9%. YT1AD operating 3V8BB was only 0.3% out of second place!

The next closest race was between FY5FY and ZX5J (PP5JR, op) in the South America Single Op Phone category. FY5FY ended up on top by 4.8%. These two stations also placed first and second



Dave, BA4RF, busily operating the B4HQ Headquarters station.



Gianni, IT9ORA, relaxes at his station after the contest.

in the World Single Op Phone category.

The closest race in North America was between VE3EJ and K4ZW in the W/VE Single Op Mixed category. VE3EJ took first place from K4ZW by 6.2%, with K3ZO not too far behind in third place.

This year's contest also had a couple repeat winners. The multi-op team at P3A repeated in the World Multi-Op and Asia Multi-Op categories. Their score this year was up 40% from last year. And the HG6N team repeated in the Europe Multi-Op category. Good show, guys!

IARU Officials

A big "thanks" to all the IARU officials who participated in this year's event. G3BJ came out on top, followed by K1ZZ and PT2ADM. See Table 5 for all the IARU Officials.

HQ Stations

As expected, the battle between the

Headquarters Stations was intense. The DA0HQ team ended up on top by a nice margin. Second place went to the GB5HQ team, with TM0HQ holding down third place. See Table 6 for the scores from these true multi-multis.

WRTC-Style Operating

A new twist to this year's contest was the addition of WRTC-style team competition. This idea came directly from WRTC 2002 in Finland, and it attracted 18 teams—8 from Europe, 1 from South America, and 9 from North America. I suspect that next year's contest will add even more WRTC-style teams to the competition. See N0AX's story about this aspect of this year's contest on the Web version of this article.

Other Stories on the Web

For interesting narratives of IARU operations, please go to the Web version of this article. There you'll find links to the W1AW/3 effort (told by K3LR), the GB5HQ effort (told by G4BUO), the four WRTC-style Slovenia/Croatia entries (told by 9A6XX), the SN0HQ effort (told by SP5UAF), the N3BB effort (told by N3BB and K5PI), the W5KFT effort (told by WM5R), and the B4HQ effort (told by BD5RV).

Propagation

I was a bit disappointed in band conditions during the first 12 hours of the contest but things did manage to pick up during the last half.—K6WC

When I started to work the contest on Saturday around 9AM PST, I wasn't sure if the propagation conditions were bad or if I had just done a bad job fixing the R7!—KG6RJ

Poor start on Saturday, but conditions improved during the contest.—DH5ST

We didn't even hear a European for the first six hours of the contest.—N0AX

With Cycle 23 in its decline, the smoothed sunspot number was around 60 for this year's contest. That's a far cry from the peak of 121 in April 2000 (which was followed by a great second peak of 116 in November 2001). This level of solar activity took its toll on the higher bands, with 10 meters suffering the most.

And if a low number of sunspots keeping the higher bands marginal wasn't enough, a coronal hole high-speed stream began on July 11 (the day before the contest). This drove the planetary Ap index to 46, and caused a reduction in the F region ionization at all latitudes on the first day of the contest. Fortunately, the F region recovered on the second day.

The predicted response of the F region

to this high-speed stream is shown in the plot in the Web version of this article. The plot comes from the SEC (Space Environment Center) STORM model. The data is in the format of a scaling factor that is to be applied to the quiet time F region critical frequency for F2. For more information about the STORM model, see sec.noaa.gov/storm.

Decline in W/VE Top Scores

Among US and Canadians, scores as a whole tended to be lower in 2003 compared to 2002. VE3EJ's Mixed Mode score of 1.4 megs, while good enough to take top honors in 2003 would have only placed eighth last year, while K5TR's Phone Only winning score of 959k would only have placed sixth in 2002. In CW only, W1WEF's 1.3 Megs would not have cracked last year's Top Ten. The KH7X 1.9 Meg Multioperator score was the only winning W/VE score that would have also taken the category in 2002. Don't get us wrong—winning any category in the contest is tough. It just goes to show how much difference in propagation and conditions a year can make.

John, VE3EJ held off a tough challenge from runner-up Ken, K4ZW, in the Single Operator Mixed Mode category. Fred, K3ZO, and Ron, CK3AT, were the only other W/VE entries to top the 1 million point barrier in 2003. Top Ten scores in the category were posted from the ON, VA, MDC, WMA, IL, SCV, OH and ORG sections.

In the Single Operator Phone Only category there was George, K5TR, then there were the rest of the operators, as George managed to post the largest margin of victory among W/VE stations in his category. Dan, W7WA put up a valiant challenge to hold onto second place while Ken, K6HNZ, operated from VE1JX and placed third. The sections of STX, WWA, MAR, MDC, SFL, NH, GA and WI appear in the category Top Ten.

Jack, W1WEF in CT, and David, K5GN in STX, dueled to a one-two finish in the Single Operator CW Only category. These were the only two stations to top the 1 megapoint barrier in 2003. Dick, WC1M, and Mark, AG9A operating from the K4VX station, finished less than 15,000 points apart to take the next two places. Ten different sections—CT, STX, NH, MO, EPA, TN, IN, ON, EB and WMA—are represented in this particular Top Ten.

While the top three Multioperator entries in 2003 would have made the Top Ten last year, the rest of the 2003 Top Ten box residents would have come up a bit short. The KH7X team in the PAC section continued to roll right along, post-

ing another great effort while winning among W/VE multioperator entries. K4JA placed second and N0NI followed up their 2002 win with a strong third place show. The category also featured 10 different sections—PAC, VA, IA, WCF, NM, VT, CT, IL, SFL and STX—among the Top Ten entries.

On the Other Hand...Worldwide Winners

While W/VE scores tended to decline, the top World scores did not. In fact 30 of the 40 Top Ten World scores in 2003 would have appeared in the 2002 boxes, including all 10 of the Single Operator Mixed Mode scores.

Martin, OL5Y, was the winning score among the Single Operator Mixed Mode entries in 2003. Jack, RW3QC, operating the 5B4AGM station was second, only 10,000 points ahead of Hrane, YT1AD, operating the 3V8BB station. Ten different DXCC entities appear in this category Top Ten. No W/VE stations appeared in this category's worldwide box.

South Americans led the way in the Single Operator Phone only category with Didier, FY5FY, heading the list. Next was a pair of Brazilians—Sergio, PP5JY, using ZX5J, and Wanderly, PY2MNL, using ZX2B. Eight DXCC countries are represented in this category Top Ten, with George, K5TR, being the only W/VE station to make the worldwide category box.

Sasa, YU1RL, ventured down to PY0FF and brought home top honors in the Single Operator CW only worldwide box score. Ranko, YT6A, finished a strong second about 80,000 points ahead of Sergiy, TA2ZF. You will find 10 different DXCC entities among this Top Ten, with Jack, W1WEF, representing the W/VE stations.

Seven DXCC countries are found among the Top Ten Multioperator category scores. Cyprus again was a hot spot of operations, as the P3A station showed location and skill can be a powerful combination. A pair of Hungarian multis—HG6N and HG1S—took second and third. The KH7X multi was the only W/VE Top Ten in the category, with no mainland multi being able to crack the box.

2004 Contest

The 2004 IARU HF World Championship will be held the weekend of July 10-11. The announcement will be published in the April 2004 issue of *QST* (and the full rules will be found on-line at www.iaru.org/contest.html). Hope to see you in the 2004 event!

QST

DL7LZ	885	23	15	B	HA5ORA	7,289	81	37	C	LZ1MC	82,530	262	131	A	Slovenia	S53EO	1,201,275	1838	225	A
DL1EKO	740	26	20	B	HA3XYL (HA3FRE, op)	4,840	81	44	C	LZ2L (LZ2LDS, op)	21,000	289	35	A	S57UN	1,228,016	1477	284	B	
DL5KMS	540	27	27	B	HA8CQ	3,612	71	28	C	LZ2FM	13,600	110	68	A	S51CK	391,230	918	126	B	
DL7UGH	384	16	16	B	HG6N (HA2SX, HA3OV, HA6DX, HA6ND, HA6NF, HA6NL, HA6NY, HA6OI, HA6ON, HA6PN, HA6PX, ops)	3,574,831	3166	353	D	LZ1DQ	2,650	62	25	A	S57UYX	91,819	366	91	B	
DL2GMH	187	11	11	B	HG1S (HA1TJ, HA1DAC, HA1DAI, HA1AG, HA1AH, HA3UU, HA3LN, HA1SN, HA1AV, HA1AR, ops)	2,928,508	2754	341	D	LZ3UA	74,053	365	71	B	S57OAN	48,760	198	92	B	
DKØALC (DL1CW, op)	1,136,772	1525	252	C	HG9X (HA9AX, HA9PP, HA9SU, HA8IB, HA7UW, ops)	1,616,412	1834	294	D	LZ1RSS	5,400	70	30	B	S57MHA	10,017	84	53	B	
DJ9DZ	986,194	1346	253	C	HA3KNA (HA3-3Ø4, HA3-3Ø5, HA3NU, ops)	435,062	825	214	D	LZ2BE	643,110	985	255	C	S58A	2,131,800	2083	300	C	
DL3YBM	733,894	1080	266	C	Switzerland					LZ7H/MM	46,434	354	71	C	S5ØR	1,146,838	1515	242	C	
DL4SDW	386,460	668	226	C	HB9QA	39,168	172	96	A	LZ4BU	24,480	129	90	C	S59AA	516,340	784	220	C	
DL6KVA	335,907	453	261	C	HB9CZF	374,535	583	205	C	LZ1IA	20,970	127	90	C	S51J	131,164	370	121	C	
DL4WA	304,956	560	197	C	HB9DOT	246,528	618	192	C	LZ3DP	7,728	77	28	C	S53AU	87,192	230	173	C	
DL4FN	299,922	628	193	C	HB9KC	25,063	135	71	C	LZ2ITU	6,420	98	30	C	S56A	674,595	938	263	D	
DL2MDU	268,260	512	204	C	Honduras					Austria					S51U	13,532	160	34	D	
DL9ZP	243,984	533	184	C	HR2CPS	8,652	76	42	B	OE8YDQ	27,542	210	47	B	Poland	SP9LJD	780,335	1157	239	A
DK3KD	240,934	590	179	C	Italy					OE2S (OE2ZEN, OE2LCM, OE2MON, OE2VEL, ops)	1,950,480	2001	324	D	SO9N (SP9XCN, op)	695,854	1198	226	A	
DL4AKW	240,448	481	208	C	IK3SCB	156,960	548	120	A	Czech Republic					SQ9IDE	231,875	561	175	A	
DL5KUD	239,030	503	205	C	IR2K (IK2HKT, op)	100,880	610	80	A	OK1FMX	231,981	690	159	A	SP6T	197,400	424	188	A	
DL9MWG	214,776	458	171	C	IK2UCK	43,344	252	84	A	OK1KZ	117,585	369	117	A	SP6M	194,427	420	171	A	
DL3FF	173,700	381	193	C	IZ1DXS	16,350	95	50	A	OK2BDF (OK2OP, op)				3Z8Z	187,072	505	148	A		
DJ1OJ	147,075	396	159	C	IK2RZP	16,343	149	59	A	OK2CLW	67,716	222	114	A	SP6FJ	171,588	414	158	A	
DL4HRM	144,960	401	151	C	IØYQV	8,320	79	52	A	OK2DU	33,522	191	74	A	3Z3OL	165,144	488	168	A	
DL4JYT	125,994	366	166	C	IO3P (IZ3EYZ, op)	1,170,350	1415	263	B	OK2SWD	32,476	190	92	A	SP2JYR	147,154	363	161	A	
DL3KWF	119,805	368	163	C	IO4C	837,210	1426	215	B	OK2PMS	27,388	151	82	A	SP4GFG	112,385	378	133	A	
DL3YA	117,625	296	125	C	IY4FGM	397,852	708	182	B	OK1DXD	18,984	152	42	A	SP9EMI	107,440	335	170	A	
DK5ZX	107,131	360	149	C	IZ5EBL	233,308	633	146	B	OK1WWW	18,518	147	94	A	SP8LBK	102,644	368	134	A	
DL4HWI	89,700	248	130	C	IT9VCE	225,992	701	164	B	OK2TGW	10,906	125	38	A	SP2HYO	99,008	302	136	A	
DL5CD	78,474	290	123	C	II4G (IZ4DJZ, op)	130,192	518	103	B	OK1DSA	4,420	94	26	A	SP2GMA	78,650	338	121	A	
DK3GI	77,840	229	140	C	IZØEOU	116,204	344	139	B	OK1FHS	2,992	52	44	A	SP1MVG	60,372	276	117	A	
DL7ANQ	76,076	282	133	C	I6FDJ	111,061	368	139	B	OK1FHW	162,410	458	149	B	SP5ICS	60,051	253	111	A	
DL3KWR	72,471	258	147	C	IV3KAS	105,458	339	134	B	OK2BQL	55,215	231	135	B	SP4FCP	50,370	252	138	A	
DL3BZZ	72,201	246	123	C	IV3RCH	105,294	316	138	B	OK2BEN	33,026	167	98	B	SP6CYV	48,015	205	99	A	
DL8SCG	61,312	242	128	C	IZ6CST	99,264	579	94	B	OK1MJA	32,215	160	85	B	SP3FAR	44,312	150	116	A	
DL1LAW	59,776	260	128	C	IK2WZQ	97,500	249	130	B	OK2PHI	18,981	131	57	B	SP5LM	43,250	230	125	A	
DL1SBF	54,873	206	117	C	IK7RVY	93,148	414	116	B	OK2DEY	2,952	35	24	B	SP8JUS	43,173	212	123	A	
DJ4KW	49,276	216	127	C	IZ2ABN	75,392	225	124	B	OK1CAZ	2,030	42	29	B	SP2JLR	42,907	212	107	A	
DL3BRA	39,795	206	105	C	IZ7EDQ	66,348	248	114	B	OK2ZC	866,052	1206	243	C	SP9SOU	39,795	189	105	A	
DL5RMH	34,888	167	89	C	IZ2ACG	59,774	204	121	B	OK1DXX	606,520	928	236	C	SP2AYC	38,080	256	68	A	
DL1YCF	34,814	173	103	C	IO7J	58,039	197	127	B	OK1ZZU	606,520	928	236	C	SP3MEP	37,236	247	87	A	
DL5MY	30,330	153	90	C	IK2VUC	49,950	193	111	B	OK1DRU	606,520	928	236	C	SO6A (SP6IHE, op)	33,075	195	135	A	
DJ6TK	29,889	169	81	C	IZ6CVZ	49,607	203	113	B	OK2BGK	552,786	850	247	C	SP4AVG	32,445	181	103	A	
DK7FP	28,302	143	89	C	IZ1DGG	48,941	225	109	B	OK2LW	506,760	799	246	C	SP9MCU	23,375	160	85	A	
DL11A	25,839	123	99	C	IZ8DWH	32,942	164	91	B	OK2PDT	371,736	682	216	C	SQ9DXN	23,004	151	81	A	
DJ4EJ	25,714	149	86	C	IZ1ANZ	29,946	149	93	B	OL4M	363,800	688	214	C	SP8EDD	20,175	144	75	A	
DL5SWB	23,400	188	78	C	IK2UVR	18,318	100	71	B	OLØA (OK1CZ, op)				SP9LWH	15,876	123	84	A		
DJ5GG	13,624	107	52	C	IK2ULM	14,150	86	50	B	OK2MBP	361,530	709	195	C	SP3DOF	13,534	112	67	A	
DL4AAE	10,450	73	38	C	IK8IFW	12,627	95	69	B	OK2ABU	219,515	648	205	C	SP3BVI	10,440	98	45	A	
DM5JBN	9,954	168	42	C	IK8MVB	9,620	100	65	B	OK1AOU	9,664	73	64	A	SP8FNA	7,869	72	43	A	
DL1EV	7,380	65	60	C	IV3KSE	9,552	75	48	B	OK1DS	4,420	94	26	A	SP6BBE/8	7,164	59	36	A	
DL2WRJ	7,137	79	61	C	IV3IDP	8,550	80	50	B	OK1MKI	158,682	412	159	C	SP3CUG	5,900	69	59	A	
DL9GMC	6,528	110	24	C	IKØOTJ	7,784	72	56	B	OK1FPG	125,122	304	146	C	SP5FCS	5,880	73	56	A	
DL7VAF	4,982	50	47	C	IV3RJT	4,312	56	44	B	OK2BND	115,814	322	158	C	SP2US	5,450	130	25	A	
DL9GUN	4,407	67	39	C	IZ7EUB	3,780	35	35	B	OK1FCA	113,472	333	144	C	SQ6FHP	3,478	54	47	A	
DL5CE	2,379	45	39	C	IT9YSW	2,430	32	27	B	OK2HI	109,125	556	75	C	SQ6R	2,520	45	35	A	
DL3BVA	2,088	38	24	C	IQ2VA	1,457	41	31	B	OK1FKV	57,469	251	101	C	SP3C	2,478	43	42	A	
DL5FCO	935	21	17	C	IK3XTY	1,288	30	23	B	OK1MMN	46,460	206	115	C	SP9CUX	1,404	36	36	A	
DL2GBB	0	3	3	C	IZØCEY	315	9	7	B	OK2AJ	23,856	134	71	C	SP3DIK	1,254	32	22	A	
DH8VU	854,502	1219	242	D	II1H	550,560	1210	155	C	OK1FMB	16,849	121	83	C	SP2HXY	1,178	37	31	A	
DF7BL (+DJ9CN, DK6BW, DF5BM, DG8BR, ops)	464,310	910	231	D	IT9ORA	139,040	402	160	C	OL3A (OK1AY, OK1DRQ, ops)	1,595,760	1727	327	D	SP6RZ	1,035	20	23	A	
DLØBVB (+DF1DV, DH7US, DJ5BWD, DK2DQ, DL2DBE)	373,352	734	226	D	IKØYVV	118,708	285	118	C	OK1N1R (+OK1QM)	602,338	1065	242	D	SP6GCU	1,005	23	15	A	
DLØEKO (DL4SL, DL6UBM, DL8UKE, DH2UAI, ops)	219,605	610	167	D	IK2AHO	88,984	268	98	C	OL7C (OK1WMR, OK1PRI, OK1AOF, ops)	98,250	357	131	D	SP3AMZ	910	29	26	A	
DKØMM (DK7MCX, DJ7MGQ, DK3YD, ops)	219,472	545	172	D	IZ2AZ	82,142	283	134	C	OK1KMG (+OK1UDJ, OK1VEN, ops)	12,760	88	58	D	SP4GHL	836	26	22	A	
DLØHAG (DF2DS, DH5DAM, DK4MT, DF3DCM, DF3DAD, DK1DX, ops)	182,115	441	171	D	IK2AOU	53,489	304	89	C	OK5SWL (+OK2SWD)	6,413	82	53	D	SP2GUC	832	32	26	A	
DFØPT (DJ4MH, DK9BW, DL8BCU, ops)	71,232	316	106	D	IU3A	31,326	201	69	C	Slovakia					SP3KCL (SP3ESR, op)	748	26	17	A	
DLØGVM (DK3GG, DH3SWH, DL3SUG, ops)	15,040	117	80	D	IK2NUX	25,600	145	80	C	OM5A (OM3LA, op)	1,860,600	2035	300	A	SP7AWG	742	33	14	A	
Hungary					IZ4DYX	9,060	99	30	C	OM7JG	349,909	706	193	A	SP8SW	696	27	24	A	
HG8R	1,998,984	2218	312	A	IN3FHE	3,760	42	40	C	OL5DX	11,968	84	68	A	SP7WOL	600	20	20	A	
HG5Z	1,022,814	1450	282	A	IU2R (I2CZQ, IK2BCP, IK2EAD, IK2GZU, IK2SAU, ops)	1,718,416	2015	268	D	OM3YK	103,416	264	139	B	SP2DKI	493	20	17	A	
HA9MDP	4,420	70	34	B	IO4T (IK4HLQ, IK4RQJ, IK4VET, IK4XCL, IZ4DIJ, IZ4EFN, ops)	1,208,970	1496	285	D	OMØM (OMØWR, op)	680,867	1051	187	C	SQ9AOJ	440	32	10	A	
HA5TAA	3,528	44	28	B	Sardinia					OM4DN	339,685	643	205	C	SP7FGA	392	18	14	A	
HA5CXL	1,428	37	28	B	ISØOMH	34,279	166	83	C	OM9AZ (OK2QX, op)	303,620	672	190	C	SP6CZ	360	18	12	A	
HA8DU	1,628,206	1981	277	C	Bulgaria					OM8AA	122,525	321	145	C	SP2BDR	341	15	11	A	
HA3LI	806,344	1164	242	C	LZ1NG	109,089	549	93	A	OM7AG	103,220	357	130	C	SP6LB	312	16	13	A	
HAØGK	95,175	304	135	C						OM7VF	88,872									

SP6YAO	90	10	10	A	SQ5JUM	4,480	65	40	B	SP6ZYU (SQ6LAK, SQ6FHP, ops)	4N1N (4N1LD, YZ1EA, ops)									
SP6IXO	72	12	6	A	SQ9BDN	4,183	57	47	B	3,312	57	48	D	726,427	1198	247	D			
SP2BZW	72	12	6	A	SP8ONB	3,735	53	45	B	SP2PHA (SP2ANG, SP2XBA, ops)	Macedonia									
SP3IGP	72	12	6	A	SP7QHR	2,794	48	22	B	6	3	2	D	Z38AV (YU7AV, op)						
SP3NUY	72	12	6	A	SP9QZI	2,496	44	32	B	Greece	973,135	1765	235	C						
SP3XBN	72	12	6	A	SP2ALT	2,336	51	32	B	SV1NA	34,425	242	81	A	Z35G	173,579	493	137	C	
SP6ALE	72	12	6	A	SP9HQC	1,722	42	42	B	SV1BDO	9,472	77	64	A	Zone 29					
SP3KQV (SP3NUY, op)	72	12	6	A	SP8HPW	1,710	33	30	B	SV1CRX	342,366	1160	129	B	Georgia					
SP6HTG	72	12	6	A	SP5NN	1,189	34	29	B	SV1BFW	14,740	85	55	B	4L4TZ	111,274	347	118	B	
SP6SNS	72	12	6	A	SP9PTG	1,147	35	31	B	SV2YC	1,785	31	21	B	Moldova					
SP7IBL	72	12	6	A	SP9EB	940	29	20	B	SV1JA	35,090	149	110	C	ER5DX	311,328	642	188	B	
SP7HKK	72	12	6	A	SP9FRZ	630	42	15	B	Bosnia-Herzegovina	T94DO	178,035	578	143	B	ER1Q (ER1QQ, op)				
SP2KFQ	72	12	6	A	SQ5NF	432	15	12	B	T94EN	3,075	50	25	B	110,022	681	66	B		
SP8GRS	72	12	6	A	SP5UG	336	21	21	B	T96A	14,160	105	59	C	ER3CT	106,515	354	135	B	
SP6A	72	12	6	A	SP9BQJ	324	18	18	B	T91EDK (T94EN, T94LE, T95DSB, T92SFW, ops)	17,856	307	36	D	ER3CAB	3,990	60	42	B	
SP6AKU	63	8	7	A	SQ5RAK	252	16	9	B	European Russia	UA3URD	96,900	328	114	C	Estonia				
SP6DNS	60	11	6	A	SP2GSQ	156	11	12	B	Y08KOS (Y08AXP, op)	Y08BGA	221,088	504	188	A	ES4RD	37,740	231	74	A
SP3FRR	54	9	6	A	SP5YOC (SQ5ABG, op)	120	9	10	B	Y07BGP	151,404	513	148	A	ES8SW	14,824	115	68	A	
SP6YYP	50	10	5	A	SP9DEM	36	6	6	B	Y05DAS	138,180	368	141	A	ES6CO	11,970	126	57	A	
SP7IWA	50	10	5	A	SP5IKO	16	4	4	B	Y06CFB	126,699	323	157	A	ES1CN	105,915	328	115	B	
SP6BOW	50	10	5	A	SP9KGG	16	4	4	B	Y04AAC	125,715	399	145	A	ES6PA	45,753	208	101	B	
SP4CNE	48	8	6	A	SP5OXB	9	5	9	B	Y04GDP	114,570	365	171	A	ES6KW	13,268	106	62	B	
SP3JHR	48	9	6	A	SP3EXZ	4	2	2	B	Y03FLQ	60,368	302	98	A	ES2DJ	557,648	1028	208	C	
SP8YCB	45	9	5	A	SP2RXS	4	2	2	B	Y08ADW	612	18	18	A	ES4MM	184,164	358	206	C	
SP2BZO	45	9	5	A	SP9W	545,160	1028	210	C	Y06AW	612	18	18	A	ES4MF	19,435	146	65	C	
SP7FCR	42	9	6	A	SP2HPD	498,432	929	236	C	Y03RU	296,112	713	186	B	ES1XT (ES2JL, ES1CR, ops)	92,752	318	136	D	
SP9KAG	40	8	5	A	3Z2D (SP2DNI, op)	313,813	762	191	C	Y04GNJ	115,054	101	65	B	Belarus					
SP2TGD	40	8	5	A	SQ9FMU	202,664	455	196	C	Y03AIL	91,665	291	135	B	EU6TV	104,962	282	143	A	
SQ9ITP	40	8	5	A	SP4DZT	171,360	360	204	C	Y08GF	64,782	243	118	B	EU1CC	73,191	301	93	A	
SQ9HHE	40	8	5	A	SP3ASN	157,603	335	173	C	Y09BXE	41,172	198	94	B	EW600	26,000	150	100	A	
SP9MDP	40	8	5	A	SP8BAB	130,410	345	126	C	Y03GSZ	21,682	159	74	B	EU1SA	555,588	1000	198	B	
SP9BNL	40	8	5	A	SP9NSV	108,550	338	130	C	Y06AJI	14,616	102	84	B	EW6AF	159,894	442	141	B	
SP4Z	40	8	5	A	SP9FT	108,392	343	136	C	Y09DBP	10,712	86	52	B	EU6NN	84,177	258	141	B	
SP9SDX	40	8	5	A	SP9DUX	94,129	326	119	C	Y04UQ	10,584	102	54	B	EU6PW	2,442	44	37	B	
SQ3DWH	36	6	6	A	SP3BJK	83,830	392	83	C	Y03XL	8,510	146	95	B	EW8EW	834,236	1191	244	C	
SP3ZAH	35	7	5	A	SP2BLC	77,840	394	70	C	Y09FL	4,407	58	39	B	EW1CQ	371,933	852	157	C	
SP9FZU	35	8	5	A	SP9BNM	73,698	269	142	C	Y06AE	3,816	46	24	B	EU1XX (EU1CJ, op)	227,178	703	126	C	
SP9NLA	35	7	5	A	SP1AEN	63,825	241	115	C	Y09KPL	585	21	15	B	EW6CU	107,468	313	134	C	
SQ5EBM	35	8	5	A	SN8A (SP8AQA, op)	59,670	240	135	C	Y09WF	367,973	916	181	C	EU6AA	30,800	168	88	C	
SP9CXN	35	7	5	A	SP8FHJ	54,375	220	125	C	Y06QBH	235,664	544	176	C	EW2ZC	15,867	143	41	C	
SP3GRQ	30	8	5	A	SP3HC	32,060	170	70	C	Y09AGI	184,950	542	135	C	Lithuania					
SQ6LAK	28	7	4	A	SP5ULV	31,122	142	91	C	Y05CBX	124,660	573	92	C	LY2FY	2,203,032	2498	312	A	
SP6KFK	24	6	4	A	SP5CGN	24,319	146	83	C	Y02AQB	113,216	348	116	C	LY9A (LY3BA, op)	1,734,936	2100	276	A	
SP9ZE	24	6	4	A	SP8GNF	22,952	139	76	C	Y08BPY	95,175	302	141	C	LY2OU	148,716	449	153	A	
SP3FPW	20	5	5	A	SP3AZO	12,444	94	51	C	Y02GL	94,462	293	146	C	LY1CT (LY1FGP, op)	95,108	376	118	A	
SP6AEG	18	6	3	A	SP2UKB	7,320	104	30	C	Y0BRKQ	86,346	354	117	C	LY3CY	76,835	310	121	A	
SP7DZA	18	6	3	A	SQ4BY	60	11	6	C	Y04CSL	82,532	271	94	C	LY1FGP	375	15	15	A	
SP8QED	15	5	3	A	SN8M (SP8MI, op)	6,580	76	35	C	Y08RHQ	16,219	108	49	C	LY1DJ	68,834	258	127	B	
SP6FXY	12	4	3	A	SP3AOT	2,750	54	25	C	Y04BBH	13,920	120	58	C	LY7Z (LY2TA, op)	1,709,392	1888	304	C	
SQ2AJI	6	3	3	A	SN0LIP (SP1RWU, op)	2,400	72	16	C	Y04RPL	4,795	68	35	C	LY3UM	1,196,064	1443	288	C	
SP1EK	6	3	2	A	SP4BY	2,079	44	33	C	Y03FLR	608	27	16	C	LY2MM	596,752	895	247	C	
SP6LUV	317,140	637	202	B	SP4TBM	1,938	35	34	C	Y09KIG (+Y09GJY)	191,730	411	154	D	LY2XW	381,220	791	196	C	
SP9QMP	255,162	777	129	B	SQ8VS	949	38	13	C	Y09KVV (+Y09FNR)	35,002	149	86	D	LY2BNB	335,014	702	191	C	
3Z6V	207,835	436	197	B	SQ9CAQ	850	27	25	C	Y09KPM (Y09BIG, Y09FIM, ops)	30,291	139	69	D	LY2HH	269,721	542	207	C	
SP3GXH	204,750	451	195	B	SP8AJK	72	12	6	C	Y06KNY (+Y06DBA)	16,500	100	75	D	LY3BY	216,062	562	161	C	
SP9OHP	142,451	381	167	B	SP4BKK	72	12	6	C	Y03KSD (Y03GCL, Y03HFY, ops)	12,805	132	65	D	LY2GW	142,305	412	159	C	
SP1BZZ	137,389	411	133	B	SP4TBY	72	12	6	C	Yugoslavia	YU1AD	1,900,200	2008	300	A	LY2LF	112,860	498	90	C
SP9MRO	130,600	467	100	B	SQ4BY	60	11	6	C	YT1AM	141,988	413	154	A	LY1BX	100,575	329	135	C	
SP3HZG	128,334	336	146	B	SP2KLVK (SP2CMD, SP2QG, SP2LKV, ops)	242,400	705	160	D	YT1AT	84,744	270	132	A	LY1FCI	132	12	12	C	
SN4AAZ	125,229	361	169	B	SP9KRT (SP9ADU, SQ9FVR, ops)	194,213	496	181	D	YU1KT	59,680	309	80	A	LY70RK (LY2LL, LY2NK, LY2UF, LY3NUT, LY4AA, LYR346, ops)	1,735,212	2163	276	D	
SP9MRQ	121,440	346	160	B	SP3PKL (SP3XBN, SP3VZQ, ops)	157,887	436	159	D	YU1RA	6,360	134	30	A	Poland					
SQ7B	106,546	326	167	B	SP6KFA (SP6JQC, SP6MLG, SP6UUE, ops)	127,950	412	150	D	YU1AAV (YU1SB, op)	214,880	533	160	C	SP9BGS	22,356	137	92	B	
SP5GMM	98,982	273	141	B	SP9KJT (+ packet)	115,800	345	150	D	YU1PM	137,564	342	119	C	Kaliningrad					
SQ9HZM	96,239	305	143	B	SP8KAF	94,290	463	105	D	YU1PJ	123,370	391	146	C	UA2CZ	223,213	506	179	A	
SP9TPB	95,550	252	147	B	SP0PZK (SP2JMR, SP2UJK, ops)	62,916	252	107	D	YU1PC	90,390	260	131	C	UA2FL	379,068	1225	124	C	
SP3GHK	91,086	314	141	B	SP9KOV (SP9HAX, SP9CTS, ops)	32,250	172	125	D	YU1PQ	90,083	272	119	C	RU2FM	81,084	280	116	C	
SQ1BVG	84,513	288	143	B	SP6KYU (SQ6FHP, SQ6UV, SP6AKU, ops)	22,841	148	91	D	YU1QC	90,083	272	119	C	European Russia					
SP4SHD	83,230	311	145	B	SP4PBI (SP4INT, SP4Z, +op)	6,844	82	59	D	YU1WC	69,216	248	96	C	RK4FF	2,783,048	2735	331	A	
SP4LVK	71,628	264	127	B	SP5PPK (SQ5HD, SQ5ABG, SQ9CWN, ops)	3,480	56	40	D	YU1EQ	6,265	86	35	C	RN3QQ	1,649,188	1876	284	A	
SP7GRV	69,376	255	128	B	Yugoslavia										RX3RZ	412,527	743	199	A	
SQ9ITH	65,913	258	127	B	YT1AD	1,900,200	2008	300	A						UA4LY	408,534	741	213	A	
SQ8FEW	49,728	392	56	B	YU1AM	141,988	413	154	A						UA3SAQ	276,809	594	199	A	
SQ9ACH	39,273	255	57	B	YT1AT	84,744	270	132	A						RA3RK	263,748	605	186	A	
SQ4CUX	33,957	259	63	B	YU1KT	59,680	309	80	A						RW3VZ	233,308	510	188	A	
SP6NVK	32,110	170	95	B	YU1RA	6,360	134	30	A						RU6MM	151,646	479	122	A	
SP1DMD	31,482	234	53	B	YT7Z (YU7EE, op)	52,250	298	95	B						RU3DM	145,140	439	123	A	
SQ2DYF	24,543	152	101	B	YT6A	2,511,486	2620	333	C						RV3BQ	140,070	424	138	A	
SP9BMH	24,222	169	66	B	YU7LS	268,442	597	158	C						RW3PN	122,808	367	136	A	
SP5XVY	24,180	212	52	B	YU1AAV (YU1SB, op)	214,880	533	160	C											

RV3YR	53,244	206	102	A	RF3A (RD3DG, RK3AW, RK3FM, RK3FT, ops)	1,544,396	2029	266	D	YL1XN (YL2HB + ops)	161,170	510	142	D	UN5J	135,630	361	110	C
UA3AGW	50,901	316	57	A	RK3DZD (RK3DUF, RK3DSL, RK3DPL, RV3DA, ops)	563,264	1052	208	D	Zone 30					Zone 32				
RV6FG	49,455	196	105	A	RK3SWB (+RA3S-797)	26,565	163	69	D	Kyrgyzstan					Asiatic Russia				
RA6YJ	46,032	140	50	A	RW6AWW	12,818	118	58	D	EX7ML	63,168	291	56	B	RM0A (UA0ANW, op)	1,337,777	1567	223	A
UA3QU	40,500	196	90	A	Ukraine					Turkmenistan					UA0ACG	464,569	911	133	A
RX3AEX	39,480	221	84	A	UT5UGR	2,481,210	2470	342	A	EZ8CW	405	13	9	B	RA0ALM	20,634	123	57	A
RZ3AA	32,704	157	112	A	UW5Q	1,982,992	2176	304	A	European Russia					RA0SDW	12,099	103	37	A
RX3DBG	32,370	189	78	A	UT3UA	1,186,140	1523	265	A	RN4WA	589,818	1060	197	A	UA0AKY	11,704	86	44	A
UA4SU	29,970	160	74	A	UT4EK	600,880	981	232	A	UA4WLI	219,626	598	149	A	RA0AM	552,906	904	162	B
UA6AKD	26,738	235	58	A	EN1U (UX1UA, op)	547,548	1024	206	A	RW4WZ	42,630	173	87	A	UA0SR	35,420	156	77	B
RW3GU	20,241	195	39	A	US7IGF	383,708	792	188	A	RU4WG	41,041	198	91	A	UA0AZ	291,924	504	153	C
RU6FA	20,196	147	51	A	UR6QS	315,126	699	183	A	RW4PY	75,221	265	107	C	UA0AGI	245,916	455	162	C
RW6AH	11,880	88	66	A	UT5ZO (UT5IZ, op)	303,042	1060	102	A	RK4WVW (UA4WA, RU4WW, UA4-095-754 + op)	491,800	887	200	D	RA0AY	33,744	144	74	C
UA3LBE	7,995	89	41	A	UR4EWZ (UR3EZ, op)	296,032	630	176	A	Asiatic Russia					RK0AXX (RU0AT, RU0AE, RW0AR, RV0AR, RX0AE, RU0AEG, ops)	1,189,377	1483	203	D
UA1ATZ	462	23	21	A	UR5E (UR5EDX, op)	266,738	561	197	A	RW0UU	42,330	179	83	B	Zone 33				
RA1QJM	81	9	9	A	EN1I (US1ITU, op)	215,168	495	164	A	Zone 34					Asiatic Russia				
RN4LP	854,382	1186	262	B	UT2UZ	161,840	461	136	A	UA9CLB	1,404,271	1613	209	A	UA0CA	370,035	804	135	A
RN3ZC	481,152	857	192	B	US7IGF	383,708	792	188	A	UA9SP	452,580	641	190	A	RW0MM	209,469	561	123	A
RA3OU	416,064	785	197	B	UR6QS	315,126	699	183	A	UA9AX	227,493	428	157	A	RA0LE	28,158	206	57	B
RA6AFB	296,274	649	201	B	UT5ZO (UT5IZ, op)	303,042	1060	102	A	RA9FLW	206,280	463	120	A	RU0LL	572,020	1063	148	C
RA3DNC	205,173	499	153	B	UR4EWZ (UR3EZ, op)	296,032	630	176	A	RK9CR	170,408	436	119	A	RW0LLA	14,842	118	41	C
RU3ZI	177,606	411	138	B	UR5E (UR5EDX, op)	266,738	561	197	A	RU9BB	137,728	336	128	A	Zone 35				
UA3LHL	125,504	344	148	B	EN1I (US1ITU, op)	215,168	495	164	A	RK9CZO (RX9CAZ, op)	37,926	178	63	A	Asiatic Russia				
RN4AAK	100,772	335	118	B	UT2UZ	161,840	461	136	A	RX9WN	2,046	33	22	A	RN0CT	273,916	677	124	B
RV6BC	89,794	275	139	B	US1MM	142,974	377	169	A	RA9AU	248,570	470	134	B	Zone 36				
UA3BZ	88,790	280	130	B	UR7QM	135,168	472	128	A	UA9ACJ	170,196	333	156	B	Madeira Islands				
RL3AW	76,246	204	134	B	US3IZ	129,150	433	126	A	RA9DA	34,028	131	94	B	CT3KN	61,659	182	93	A
UA4NC	75,264	261	128	B	UX3HA	112,784	437	112	A	RX9FG	24,648	138	52	B	CT3FQ	178,267	463	89	B
RN3FS	67,155	222	121	B	UX1IL	112,050	344	150	A	UA9LAU	5,264	60	28	B	CT9KB	62,271	191	99	B
UA1AFZ	53,730	234	90	B	US3LX	94,592	319	128	A	RW9TA	1,158,840	1298	216	C	CT3KY	49,140	176	78	B
RW3VI	52,136	223	98	B	UU2JA	42,681	167	123	A	UA9CNV	500,650	741	170	C	Canary Islands				
RW3DIA	31,520	155	80	B	UR1LA	42,570	219	110	A	UA9AFS	371,955	564	181	C	EA8/OH4NL (OH2BYS, op)	3,315,312	2440	299	A
RK4FW	30,362	152	94	B	US0QG	9,636	82	66	A	RA9SO	238,810	449	143	C	EA8/PA3FSC	5,974	54	29	C
RA3DGH	24,240	134	80	B	UU2JQ	4,960	67	40	A	RA9AC	133,322	335	107	C	Zone 37				
RA3RHA	12,709	97	71	B	UT3SA	214,630	632	130	B	UA9DD	129,794	294	127	C	Tunisia				
RV3DCC	11,110	82	55	B	EM6M	136,080	313	99	B	RA9FTM	124,080	364	88	C	3V8BB (YT1AD, op)	3,394,912	2772	277	A
RZ6ARM	6,993	83	37	B	UT5UKY	131,016	340	159	B	UA9QFF	84,801	347	69	C	Morocco				
RA3DTN	4,704	81	28	B	UY7MM	110,260	325	148	B	RX9AF	81,539	305	67	C	CN8YR	20,384	164	28	C
RA2FIA	4,309	60	31	B	UY7C (UR3CMA, op)	87,544	298	124	B	UA9FGJ	23,040	113	60	C	Portugal				
RV3DUT	2,820	38	30	B	UR0UL	68,228	303	74	B	RW9QW	21,528	126	46	C	CT11LT	1,695,533	1659	301	A
UA6LMW	140	14	10	B	UT7DW	46,610	277	79	B	RV9CLF	20,250	118	54	C	CT1DHM	288,990	515	190	B
RZ6LYL	99	9	9	B	UT7MD	41,496	183	104	B	UA9CR	6,732	59	44	C	CT1DJE	1,728	30	24	C
RZ3AZ	1,473,624	1739	291	C	UR4MBI	40,014	232	81	B	UA9QCP	5,162	55	29	C	CT1CXP	7,040	61	55	D
UA3RAR					UR7EM	39,693	176	101	B	RT9W (RU9WX, RX9WR, RW9WY, RA9WV, RA9WR, ops)	2,650,673	2296	281	D	Spain				
RT3A (RU3AA, op)	1,304,412	1600	284	C	UU5JTN	1,386	37	22	B	RF9C (RA9CQK, RA9CMO, RZ9CO, UA9CIR, ops)	2,144,645	1997	265	D	EA5QB	78,876	220	126	A
RD4M	987,660	1229	279	C	UW5U (UY2UA, op)	862,771	1308	247	C	Kazakhstan					EA1AK	61,952	234	88	A
UA3TU	775,180	1131	245	C	UT2IO	740,012	1250	214	C	UP5P (UN5PR, op)	103,121	293	101	B	EA3ALV	54,610	194	127	A
RW3GB	500,544	881	198	C	UY5ZZ	608,967	1082	213	C	UN7TO	86,028	264	107	B	EA5DFV				
RA3XM	459,424	747	224	C	US9QA	417,701	848	199	C	UP4L (UN7LZ, op)	1,203,018	1330	222	C	EA3BOX	580,070	906	190	B
RA3XO	374,400	601	225	C	UT4XU	343,706	686	187	C	UN7CZ	319,716	534	166	C	EA5ON	178,949	419	149	B
RZ4AG	251,702	525	187	C	U5WF	295,200	548	180	C	UN6LN	231,084	463	131	C	EA3QP	163,030	654	85	B
RV3LO	243,525	501	191	C	UY5TE	295,095	638	191	C	UN7CN	122,139	290	123	C	EA7CWA	144,045	351	135	B
RN4SS	224,692	627	149	C	UX5UO	198,660	490	165	C	Zone 31					EA7GXW	132,660	405	110	B
RK3BX	220,565	522	155	C	UU4J (UU4JO, op)	159,580	400	158	C	Asiatic Russia					EA5KV	132,160	357	112	B
UA6NZ	206,364	498	174	C	UY5WA	115,960	381	130	C	UA9ZZ	1,446,564	1789	204	A	EA3EYD	124,122	309	137	B
RA4FJV	194,810	501	154	C	UY5FS	103,712	350	112	C	RZ9OU	272,521	540	149	A	EA1BIM	55,822	187	113	B
RU4SS	188,508	485	138	C	UX7QD	83,538	459	63	C	UA9HR	248,930	599	110	A	EA5AGR	43,734	168	111	B
RA3AN	175,560	522	114	C	UY7LM	33,540	172	86	C	RZ9IB	67,130	300	70	A	EA4CXQ	23,595	152	65	B
RW3XZ	148,730	376	139	C	UY0IX	25,185	147	73	C	RZ9IR	5,590	62	26	A	EA3FHP	3,000	40	30	B
UA3LEO	146,816	367	148	C	UY3AW	21,376	123	64	C	RW9OWD (RA9YDR, op)	363,058	574	167	B	EA7HE	1,740	34	30	B
RW4FO	139,315	393	149	C	UT3EK	20,436	135	52	C	RZ9UGN	80,444	249	91	B	EA1AAW	576	19	18	B
RV3DAK	131,216	370	139	C	UY2ZZ	10,908	125	36	C	RU9YF	47,328	165	87	B	EC3DEN	378	13	9	B
UA0KCL/3					UX11B	4,472	54	43	C	RA9UAG	4,158	49	27	B	EA2CHL	176	40	5	B
RV6YB	115,625	404	125	C	UT5JAB	4,392	118	24	C	UA9YAB					EA5FID	435,006	776	169	C
RV1CC	104,432	365	107	C	UZ4E (UR4EN, UR5ECW, UR7EU, USE-601, ops)	706,560	1186	240	D	Ukraine					EA7CA	96,162	259	141	C
RU4CO	102,360	320	120	C	UV7M (US5MTJ, UX3MX, US8MX, UY5LO, ops)	504,112	1111	196	D	UR4MWU (UR5MB, UR5MA, UR1MZ, US5MQL, UR5MAE, ops)	65,600	313	100	D	EA5EOH	92,928	254	132	C
RV3LQ	98,420	293	133	C	UT4IZL (UY0IA + ops)	105,705	496	81	D	UT7WZA (UR5WCW, UT7WZ, US-W-73, ops)	59,274	181	111	D	EA5YU	80,210	227	130	C
RA4HW	83,121	308	103	C	US0Q (US3QAA, US3QAB, ops)	78,540	412	85	D	UR4YWW (UT0YO, UY0YY, ops)	1,802	52	17	D	EA4EFJ	11,745	152	27	C
RK6BZ	74,480	259	133	C	UR4MWB (UR5MB, UR5MA, UR1MZ, US5MQL, UR5MAE, ops)	65,600	313	100	D	Latvia					EA2AAZ	1,794	36	13	C
RK4HD	61,468	196	127	C	UT7WZA (UR5WCW, UT7WZ, US-W-73, ops)	59,274	181	111	D	YL2GTD	21,964	140	68	C	EA/DH8WR	648	27	18	C
UA3AKI	58,562	262	89	C	UT5JAB	4,392	118	24	C	YL2GLU	784	27	16	C	EA4RCT (EA4PL, EA4RF, +ops)	713,388	1130	204	D
RA6MS																			

Balearic Islands		JG1VGX	18,876	125	52	A	JA2ZJW (JH2SON, JA2XYO, ops)		KH6GMP	30,912	149	46	B	
EA6ACF	6,435	65	55	B			362,964	695	149	D			B	
African Italy		J13KHN	13,803	102	43	A	JA3AOP (+JA3PYC, JJ3TBB)		WH6VH	9,150	78	25	B	
IH9/OL5Y (OK1FUA, op)		JA2FSM	12,000	82	50	A	142,428	357	132	D			C	
3,504,774	2811	273	A				7L4IOU (+ packet)		KH6B	560,772	1074	111	C	
Zone 38		JA1BUI	7,620	72	30	A	80,478	261	102	D			C	
		JE1COB	5,740	58	35	A	14,288	105	47	D			D	
		JG3NKP	4,880	50	40	A							D	
		JF7GDF	4,860	47	27	A							D	
Egypt		JA6GCE	637,777	1057	179	B	Zone 46		Zone 64					
SU9US	560,367	1052	113	C			Guinea		Mariana Islands					
Zone 39		JE2HCJ	553,700	854	175	B	3XY1L (UT1WL, op)		KH0NX (KH0JT, KH0P, WH0V, ops)					
		JM1LPN	532,167	889	179	B	112,500	301	90	B			D	
		JA7NVF	506,796	891	157	B	Niger		Zone 67					
		JA8NFV	58,149	198	91	B	5U7JB	938,994	1297	158	B			
		JH1UUT	28,014	150	69	B	Zone 49		Antarctica					
		JG2REJ	15,015	92	55	B	Thailand		DP1POL (DL5XL, op)					
		JA5EO	11,985	131	47	B	E21E1C	27,968	182	46	A			
		JH2BTM	7,912	72	43	B	HS1PDY	94,116	314	92	B			
		JA7DOT	7,410	58	57	B	HS1JNB	1,276	23	22	B			
		JR1MRG	6,179	64	37	B	HS1TEF	629	18	17	B			
		JA1KK	5,270	54	31	B	HS1WOK	240	10	8	B			
		JA1ALX	5,115	48	33	B	E21CJN	90,513	313	89	C			
		JH9URT	4,665	253	15	B	HS0EHF	28,470	126	73	C			
		JA2GHP	4,611	57	29	B	HS0XNO	3,718	43	26	C			
		JH9VJW	3,550	60	25	B	Zone 50		Philippines					
		JA8TEZ	2,592	37	27	B	DU1EV	6,486	66	23	A			
		JA7ADV	2,020	37	20	B	DU9RG	436,020	744	130	B			
		JH1RDU	1,932	34	23	B	DU1UTD	108,071	335	67	B			
		JJ2PUG	1,580	29	20	B	DZ1BP (DU1BP, op)	25,420	116	62	B			
		7N4JQJ	1,456	35	16	B	4F2KWT	63,444	216	68	C			
		JA3PYH	1,428	32	17	B	Zone 53		Zambia					
		7N2UQC	1,292	31	17	B	9J2KC (JL1NKC, op)	107,748	335	73	B			
		JL3RDC	1,254	28	19	B	Zone 54		West Malaysia					
		JH2WHS	915	25	15	B	9M2TO (JA0DMV, op)	16,950	178	25	C			
		J18BUR	871	29	13	B	Singapore		9V1YC	814,131	1199	171	A	
		JA1JLP	540	18	10	B	Indonesia		YB0WWW	13,464	99	34	A	
		JQ1AHZ	450	18	9	B	YC7NLN	29,304	283	36	B			
		JR3KAH	238	12	7	B	YB2DGR	7,395	60	29	C			
		JF2FKJ	140	10	5	B	Zone 55		Zone 56					
		JA1LBZ	105	7	5	B	Australia		New Caledonia					
		JJ0AEB	90	8	5	B	VK4DMP	44,138	188	58	B			
		JG1GCO	45	5	5	B	VK4II	3,888	44	27	B			
		JR1BSV	8	2	2	C	V18NT	253,456	421	146	C			
		JH3AIU	867,475	1210	175	C	VK4TT	24,354	118	54	C			
		JA7DLE	532,701	890	157	C	Zone 57		South Africa					
		J11RXQ	307,164	605	132	C	ZS4TX	2,125,893	2013	231	A			
		JH0NVX	219,248	451	142	C	ZS1JY	3	1	1	A			
		7M4CDX	160,617	407	111	C	ZS1EL	50,297	176	73	C			
		JG3LGD	152,551	327	133	C	ZS0M (ZS6MG, ZS6EGB, ops)	542,260	705	190	D			
		JA1BNW	126,576	328	108	C	ZS5NK (ZS5BBO, ZS5GMW, ops)	282,982	558	119	D			
		JA2IU	99,750	263	114	C	Zone 58		Australia					
		JH1AZO	94,968	356	72	C	VK7GN	15,444	101	44	A			
		JA5ATN	94,760	251	103	C	VK7VH	4,536	47	28	B			
		JA1QOW	82,935	229	97	C	VK1AA	1,047,654	1302	174	C			
		JA1CP	65,586	194	102	C	Zone 60		New Zealand					
		JA2KKA	58,028	197	89	C	ZL1AIH	94,080	244	96	C			
		JA1XEM	56,191	216	83	C	Zone 61		Hawaii					
		JG1EIQ	40,581	155	81	C	AH6NF	5,525	54	25	A			
		JN7OJA	37,512	147	72	C								
		JA5APU	35,881	199	53	C								
		JR1NKN	32,512	170	64	C								
		JA7KM	31,490	140	67	C								
		JQ2EHD	30,640	130	80	C								
		JA7GBS	29,988	133	51	C								
		JA9CWX	23,920	129	52	C								
		JA1IZ	23,064	109	62	C								
		JA2VZL	20,414	110	59	C								
		JH1BCS	19,836	104	57	C								
		JA1PS	18,612	84	66	C								
		JH1NXU	18,126	100	53	C								
		JP1SRG	15,189	81	61	C								
		JJ1BDX	13,780	84	52	C								
		JA2KCY	13,456	78	58	C								
		JA4BAA	12,878	80	47	C								
		JH3CUL	12,700	76	50	C								
		JE4MHL	12,690	79	54	C								
		JA3DAY	11,058	78	38	C								
		JK1AJX	10,432	98	32	C								
		JA1CPZ	7,840	66	35	C								
		JA1HG	7,420	61	35	C								
		7J1ABD	5,301	57	31	C								
		JH0OQL	4,140	53	30	C								
		JA6CYL	4,002	48	29	C								
		JA4AQR	2,760	35	24	C								
		JO1QZI	2,212	36	14	C								
		JJ4PPK	2,108	32	17	C								
		JO3AGQ	1,909	34	23	C								
		JG0AXT	1,360	25	20	C								
		JA1SJR	144	8	8	C								
		JR7HOD	33	5	3	C								
		JF1ABZ	33	3	3	C								
		JO3LDN	15	3	3	C								
		JA1AAT	4	2	2	C								
		JH4UTP (+ packet)	513,825	875	155	D								

IARU Headquarters Stations

DA0HQ (DE1DDH, DF3CB, DF8XC, DG0OHD, DG1BDF, DH4SBO, DH7WW, DJ2MX, DJ7AA, DK1QH, DK4WA, DK7YY, DK8YY, DL1AOB, DL1AUZ, DL1AWI, DL1AXI, DL1DTL, DL1MFL, DL1MGB, DL1VDL, DL2ARD, DL2OAP, DL2OBF, DL2OE, DL3ALI, DL3APO, DL3ARK, DL3DXX, DL3JJ, DL3MXX, DL3OI, DL3T) 16,507,800 18811 450

GB5HQ (G3AB, G3LZQ, G3SJJ, G3SXW, G3TKF, G3TXF, G3VWG, G3XSV, G4AXX, G4BAH, G4BJM, G4BUO, G4BWP, G4BYG, G4EAG, G4FKA, G4FRE, G4JVG, G4KIU, G4KNO, G4OBK, G4PIQ, G4TSH, G4VXE, G0IVZ, G0MTN, G5LP, GM3WOJ, GM0GAV, GW5NF, M0AWI, M0BEW, M0CMK, M0MAT, M3TAY, ops) 15,705,914 12630 427

TM0HQ (F5MZN, F6BEE, F8AKS, F6IFY, F5JSD, F5LEN, F3CW, F5PTM, F8AQK, F5IN, F6FVY, F6DMQ, F6AOI, F6ETI, F6HYE, F6IOC, F8BPN, F5NLY, F6FGZ, F8CRH, F6FNL, F6BGC, F5FLN, F6IRA, F5RXL, F6DZO, F5SJP, F5UAM, OM3CGN, F15452, F18039, ops) 15,394,425 11683 415

R7HQ (RA1ACJ, RA1ARJ, RU1AA, RV1AW, RW1AC, UA1AIP, UA1AKC, UA1ARX, DK4VW, RN2FA, RV3ACA, UA2FB, UA2FF, UA2FM, UA2FZ, UA2FM, RN3AZ, UA6AF, UA9AT, UA9BA, UA9CDC, RA1ACJ, RA1ARJ, RU1AA, RV1AW, RW1AC, UA1AIP, UA1AKC, UA1ARX, DK4VW, RN2FA, RV3ACA, UA2FB, UA2FF) 14,629,338 10865 433

SN0HQ (SP2BZW, SP2FAX, SP2JKC, SP2WKB, SP3DWW, SP3GEM, SP3HRN, SP3J, SP3RBR, SP3VT, SP4FCG, PA3EYZ, SP4GFG, SP4R, SP4Z, SP5GRM, SP5HKN, SP5UAF, SP6A, SP6CZ, SP6DNS, SP6EKS, SP6G, SP6HEQ, SP6IXF, SP6MQO, SP7GIQ, SP7MTF, SP7NJX, SP7PS, SP7VC, SP8ATI, SP8BRQ) 14,483,480 15257 440

EM5HQ (UT1IA, US2IR, US2YW, UT2II, UT2IJ, UT2IV, UT2IV, ops) 13,425,363 10498 441

9A0HQ (9A1AA, 9A2EU, 9A2R, 9A3HX, 9A4RX, 9A7V, 9A8A, 9A6DM, 9A5KV, 9A2D, 9A5WA, 9A5W, 9A7R, 9A5E, 9A9A, 9A4FM, 9A2SD, ops) 13,085,082 11305 423

IUXHQ (IK0YVV, IK2QEI, IZ2AAJ, I2WIJ, IV3OWC, I4UFH, IV3TAN, ops) 11,905,950 10671 425

YT0HQ (YU1AU, YU1BX, YU1CF, YU1EA, YU1EK, YU1IG, YU1KK, YU1KR, YU1KX, YU1JW, YU1NR, YU1NW, YU1RA, YU1YV, YU1ZZ, YZ1AA, YZ1AU, YZ1KA, YZ1SG, YZ1ZV, YT1RA, YT1HA, YT1NT, 4N1JA, YU7AC, YU7AR, YU7CB, YU7CM, YU7GO, YU7GW, YU7HI, YU7KC, YU7JX, YU7YG, YZTAA, YT7) 11,662,121 10774 421

S50HQ (S50U, S51DM, S51FB, S51UE, S51ZO, S52CW, S52GP, S52QM, S52U, S52W, S53F, S53XX, S53ZO, S54E, S55HH, S56M, S57AW, S57BJT, S57DX, S57IIO, S57J, S57M, S57NMQ, S57NRO, S57OAM, S57XX, S58M) 11,311,048 9737 424

OL3HQ (OK1DSZ, OK1AXB, OK1DG, OK1AU, OK1WMMV, OK1VWK, OK1MZM, OK1FLM, OK8ANM, OK1WF, OK1FKD, OK1DUT, OK1FUT, OK1FDR, OK1VBA, OK1EP, OK1TA, OK1RI, OK1RF, OK2RZ, OK2BNG, OK1FFU, OK1VSL, OK1HRA, OK1AVY, OK1VD, OK1ZP, OK1JEG, OK2CMW, OK1DUO, ops) 11,254,590 10527 414

OH2HQ (OH2BO, OH2KI, OH2HE, OH6CT, OH7BX, OH5JOC, OH1HD, OH6LI, OH1MDR, OH1MM, DJ2QV, DK3DM, OH6MMC, OH6OS, OH6QU, OH6RX, OH4XX, OH6LNI, OH7HD, OH7HLG, ops) 10,880,332 9283 379

PA6HQ (DH5HV, M0NIQ, PA0JLS, PA1TO, PA1XA, PA3AWW, PA3BAG, PA3BWD, PA3DEW, PA3ELD, PA3EPD, PA3EWP, PA3FDO, PA3FFJ, PA3FQA, PA3FQX, PA3GCV, PA3HFR, PA4LA, PA5ET, PA7MM, PA7UL, PA8AD, PA9JJ, PB0AIU, ops) 10,689,448 9117 392

YL4HQ (YL3DW, YL2PP, YL3DX, YL2KL, YL2BJ, YL1ZF, YL3AD, YL2AG, YL2KF, YL2UZ, YL2KA, YL2FD, YL2GM, YL2TW, ES6DO, YL2GD, YL2SM, YL2KO, YL2PJ, YL2GC, YL3FW, YL2MD, YL3GQT, YL2LY, YL2ON, YL2CI, YL2PA, YL1ZS, YL2HA, ops) 10,625,768 9277 388

LY0HQ (LY2BW, LY2HM, LY2TE, LY1FE, LY2MW, LY1BA, LY1PM, LY2PAJ, LY2GV, LY3MM, LY2IJ, LY2BM, LY2OX, LY3BE, LY1FZ, LY1DS, ops) 9,721,125 8806 375

YR0HW (YO2DFA, YO2LDC, YO2RR, YO3APJ, YO3CDN, YO3CTK, YO3FF, YO3FLR, YO3FRI, YO3GDA, YO3GJC, YO3GOD, YO3HOT, YO3JF, YO3JOS, YO3JR, YO3ND, YO4AB, YO4ATW, YO4NF, YO4SI, YO5AJR, YO5BBO, YO5BLA, YO5OEF, YO5OHO, YO5OQF, YO5PBF, YO5PBW, YO5TE, YO6AWR, YO6BHN) 9,081,457 9258 413

ES9A (ES1AC, ES1AJ, ES1AX, ES1BH, ES1FB, ES1OX, ES1RA, ES2EZ, ES2NA, ES2RJ, ES2RR, ES4BG, ES4BO, ES5MC, ES5MG, ES5QA, ES5QX, ES5RAH, ES5RN, ES5RW, ES5RY, ops) 7,950,063 7517 363

W1AW/3 (K3LR, K8NZ, N3GJ, K3UA, K8AZ, N3RA, K8MR, W9ZR, W9RE, N9RV, WA3FET, LZ4AX, W2RQ) 7,778,210 7670 341

T90HQ (T94YT, 9A2AJ, T94LW, T95MMX, T94DJ, T92T, T94D, T95A, T94W, T94VT, T95M, T94QI, T94LP, T94LA, T95MQR, T94MZ, 9A7ZZ, 9A5AVC, T99W, T96Q, T93T, T94DU, T92D, T94EB, T95MEQ, T99C, T97C, T94OL, ops) 7,420,350 8409 370

HG0HQ (HA1WD, HA1YU, HA1YA, HA1XY, HA1RS, HA1ZZ, HA1XU, HA1DRR, HA1ZN, HG1ZE, HG1DRB, HA3OD, HA5MO, HA5GY, HA5MA, HA5WE, HA5IW, HA5OM, HA6FQ, HA6GK, HA6IAM, HA6IAB, HA6IHA, HA6ZB, HA6ZQ, HA7MW, HA7JJS, HA5LV, HA8BE, HA8RH, HA8TP, HA8UK, HA8VK, HA8ZO, ops) 7,143,168 7540 393

OEXXHQ 6,990,208 7237 388

JY6ZZ (JY4NE, JY9QJ, JY9NX, ops) 6,229,730 4964 277

NU1AW (K1RX, KF1V, N1IX, WD1V, KT1V, WA1S, W1VE, W1AAX, K1FOO, K2LE, ops) 4,954,896 5157 304

ER7HQ (ER1BF, ER1FF, ER1DA, ER1OM, ER1LW, ER3ZZ, ER3DX, ER4DH, ER5AA, ER5AL, ER5WU, UT7ND) 4,784,976 5089 336

8NxJHQ (JA1KSO, JA7KAC, JR7ISY, JQ1BVI, JH2CMI, JK2XXK, JM2FCJ, JR9FFO, JN2QCV, JJ1BMB, JP1OGL, JA3HXJ, JA3NDM, JJ3WPF, JA3HBF, JF3CCN, JF3PLF, JH3AGV, JH3ERW, JH3GXF, JL3JRY, JR3EOI, JR3NZC, JR4ISF, JE3RZT, JH5JKH, JS3CTQ, JA3KLI, JF3EIG, ops) 4,368,462 6201 329

SK9HQ (SM0GNS, SM3DMP, SM3OSM, SM5DJZ, SM5HJZ, SM5KCO, SM5NBE, SM5SIC, ops) 3,892,030 3955 314

PJ2HQ (PJ2BR, PJ2EN, PJ2VR, PJ2MN, PJ2WOL, PJ2JC, PJ2CFM, K9SG, K4LT, W0CG, ops) 3,650,725 3396 235

CT1REP (CT1BOP, CT1AHU, CT1DIZ, CT1DRB, ops) 2,448,459 3203 221

B4HQ (BA4RC, BA4RD, BA4RF, BA4TB, BD5HAG, BD5RV, BA4ED, BD4RR, ops) 2,302,128 3294 216

LZ0HQ (LZ1QZ, LZ1ZM, LZ2DB, LZ3YY, LZ4ZP, ops) 2,184,028 2862 308

OZ1HQ (OZ0J, OZ1CWP, OZ1DYI, OZ1ETA, OZ1HXQ, OZ4AFQ, ops) 2,019,580 2883 241

ZA1A (DL6LAU, DL8OBQ, ZA1B, ZA1Z, ops) 1,922,032 3469 262

4L0HQ (4L6AM, 4L8A, 4L4AL, 4L2M, ops) 1,405,170 2048 195

EI0HQ (EI2HX, EI2JD, EI4BZ, EI4DW, EI9FIB, EI9IB, ops) 1,100,284 2058 172

YM0KA (TA1E, TA2DS, TA1ZK, HB9DUR, ops) 1,024,200 1325 180

HB9A (HB9FBL, HB9DOS, HB9FAE, HB9DQP, HB9DOM, HB9YC, HB9FBM, HB9ALM, HB9DHG, HB9BZM, ops) 904,720 1881 215

YE0HQ (YB0A, YB0AJR, YB0DPO, YB0ECT, YB0LBK, ops) 821,289 1206 151

VA3RAC (VA3DX, op) 717,576 1231 174

4X4ARC (4Z5MK, 4Z5MU, ops) 675,750 971 170

CX1AA (CX7BY, CX1AG, CX2AD, ops) 655,020 829 180

YV5AJ (YY5AFD, YV5AMH, YY5JMM, YY5RED, YV5NWX, ops) 606,152 1017 136

P40HQ (P43P, op) 368,198 863 94

HS0AC (E21NTS, HS1CKC, HS0ZDZ, ops) 341,582 887 101

ZL6A (ZL2BR, ZL1BHQ, ops) 302,562 579 117

LN2HQ (LA6FJA, LA7EJA, LB1PF, ops) 268,332 717 118

EW5HQ (EW8WA, EW8MW, ops) 189,290 653 115

AT0HQ (VU2UR, op) 61,857 201 87

ZS6SRL (ZS4BS, ZS4MS, ops) 12,636 79 52

HR2RCH (HR2/LU8ERB, HR2RJE, HR2RP, HR2MVD, ops) 2,354 35 22

ZW2HQ 1,080 32 20