



ARRL Periodicals Archive – Search Results

A membership benefit of ARRL and the ARRL Technical Information Service

ARRL Members: You may print a copy for personal use. Any other use of the information requires permission (see Copyright/Reprint Notice below).

Need a higher quality reprint or scan? Some of the scans contained within the periodical archive were produced with older imaging technology. If you require a higher quality reprint or scan, please contact the ARRL Technical Information Service for assistance. Photocopies are \$3 for ARRL members, \$5 for nonmembers. For members, TIS can send the photocopies immediately and include an invoice. Nonmembers must prepay. Details are available at www.arrl.org/tis or email photocopy@arrl.org.

QST on CD-ROM: Annual CD-ROMs are available for recent publication years. For details and ordering information, visit www.arrl.org/qst.

Non-Members: Get access to the ARRL Periodicals Archive when you join ARRL today at www.arrl.org/join. For a complete list of membership benefits, visit www.arrl.org/benefits.

Copyright/Reprint Notice

In general, all ARRL content is copyrighted. ARRL articles, pages, or documents--printed and online--are not in the public domain. Therefore, they may not be freely distributed or copied. Additionally, no part of this document may be copied, sold to third parties, or otherwise commercially exploited without the explicit prior written consent of ARRL. You cannot post this document to a Web site or otherwise distribute it to others through any electronic medium.

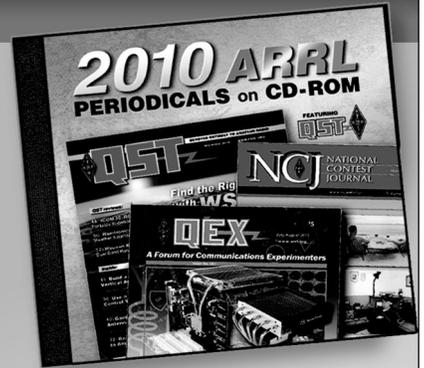
For permission to quote or reprint material from ARRL, send a request including the issue date, a description of the material requested, and a description of where you intend to use the reprinted material to the ARRL Editorial & Production Department: permission@arrl.org.

QST Issue: Feb 1994

Title: Results, 8th IARU HF World Championship

Author: Warren Stankiewicz, NF1J

[Click Here to Report a Problem with this File](#)



2010 ARRL Periodicals on CD-ROM

ARRL's popular journals are available on a compact, fully-searchable CD-ROM. Every word and photo published throughout 2010 is included!

- **QST** The official membership journal of ARRL
- **NCJ** National Contest Journal
- **QEX** Forum for Communications Experimenters

SEARCH the full text of every article by entering titles, call signs, names—almost any word. **SEE** every word, photo (including color images), drawing and table in technical and general-interest features, columns and product reviews, plus all advertisements. **PRINT** what you see, or copy it into other applications.

System Requirements: Microsoft Windows™ and Macintosh systems, using the industry standard Adobe® Acrobat® Reader® software. The Acrobat Reader is a free download at www.adobe.com.

2010 ARRL Periodicals on CD-ROM

ARRL Order No. 2001

Only \$24.95*

*plus shipping and handling

Additional sets available:

2009 Ed., ARRL Order No. 1486, \$24.95
 2008 Ed., ARRL Order No. 9406, \$24.95
 2007 Ed., ARRL Order No. 1204, \$19.95
 2006 Ed., ARRL Order No. 9841, \$19.95
 2005 Ed., ARRL Order No. 9574, \$19.95
 2004 Ed., ARRL Order No. 9396, \$19.95
 2003 Ed., ARRL Order No. 9124, \$19.95
 2002 Ed., ARRL Order No. 8802, \$19.95
 2001 Ed., ARRL Order No. 8632, \$19.95



ARRL The national association for AMATEUR RADIO™

SHOP DIRECT or call for a dealer near you.
 ONLINE WWW.ARRL.ORG/SHOP
 ORDER TOLL-FREE 888/277-5289 (US)

Results, 8th IARU HF World Championship

I guess it'll be several years before DX conditions get better, but I'll keep trying.—*Bill Littlewood, W9HE*

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

This contest is the cure for the summertime blues! On the weekend of July 10-11, 1993, while thousands spent time sweating in the hot sun, fighting off mosquitoes or getting sunburned at the beach, hams took to their cool basements (or air-conditioned shacks) for a welcome break from the drudgery of mowing lawns and washing cars, to give the International Amateur Radio Union (IARU) HF World Championship a whirl.

Contests attract people for many reasons—some for the competition; some to work DX; others, like Dan, N9XX, get on to collect wallpaper. As he puts it, "Other than for the pure pleasure of getting in the fray, a primary motivator is the award endorsements for 250 QSOs and 50 multipliers. If I could have operated 24 hours, I would have done so. The availability of these awards is reason enough to hang in there a while longer and ferret out another multiplier or one or two more QSOs."

In the DXing department, the group at SU2MT attracted a lot of attention. Not only was it a Zone 38 multiplier, it was a new country for many DXers. Other choice DX spots were active during the contest, such as Market Reef and St Paul Island.

One thing is sure, this contest is fun and it attracts a lot of interest, especially in Europe and among hams in the Commonwealth of Independent States (the former Soviet Union). The key to your score in this contest is how many Europeans you can work. A scan through the Top 10 boxes shows that to make it to the top, you needed

to be in Europe (like HA0MM) or in a place where you could work a lot of Europeans (such as 4X/S59PR or PY0FF). In fact, 29 of the top 40 stations worldwide were in Europe.

How did this year's contest go? Conditions were off a bit from last year, and many people remarked that they seemed more like the norm for this contest, at least judging from the past several years. Summer propagation makes for rough going on 80 and 160 meters, and at the present point in the sunspot cycle, there isn't much to work on 10 meters. Yet, even with conditions lacking, activity edged upward by 2.7%. Can it be that contesting is on the rise?

IARU Headquarters Stations

HG93HQ (HA1s VO,WD,YA,YU,HG1W,HA5s AWH,BGG,FA,FM,GF,IW,LN,MK,ML,OM,TI,UA,WE,HGSCCC,HA6s DX,FQ,GK,GM,IAB,IOB,KNV,ND,NF,NG,NQ,NY,OB,OI,OO,OO, OY,PN,PX,VH,VR,WI,WP,YR,ZV,HG6GD,HA7s JES,PO,RY,VB,HA8s IE,IG,TK,HA0s DU,NAR,ops)	7,246,498	8598	283
DA0HQ (DL1s AKW,DTL,EMY,IAO,SBR,DL2s DRT,EBX,KDM,SAX,SDN,DL3s AOK,ART,DXX,DZZ,OI,RMA,VHF,DL4NAC,DL5s ANT,AOM,ARX,ATD,AXX,LYM,SFI,DL6s CKF,FBL,DF7RX,DJ7AA,DL7sUTA,VNF,WAA,ops)	6,409,408	9098	272
YP0A (YO2s BBT,DFA,GZ,YO3s AC,APJ,CDN,FRI,FU,JF,XL,YO4s AB,ATW,HW,NF,SI,SF,YO6s AWR,CFB,JN,YO8s AXP,BAM,BIG,CMB,RSL,YO9HP,ops)	4,966,200	7318	287
OL1HQ (OK1s ARN,AYP,CF,DFP,DRU,DWX,DXS,FCW,FIA,FMJ,FUA,HH,II,JDX,JJB,MPP,NK,TW,ops)	4,721,888	6518	244
EM5HQ (RB4QR,RB5s QA,QDP,QMA,QRQ,QRW,QW,UB0QQ,ops)	4,609,375	5302	295
LZ7A (LZ2s AI,AP,PP,UU,ZF,LZ3s AW,BG,DJ,FN,SM,UA,LZ4AX,ops)	2,557,720	4501	220
OT3H (ON1AKP,ON4s AMI,AXV,KAR,VT,XG,ON6DO,ON6s JG,LO,NL,ON7s BW,SF,ZM,ops)	1,753,092	2970	198
SK3HQ (SM3s BDZ,CER,DMP,RAB,SM0JHF,ops)	1,574,911	2935	169
GB4HQ/GB5HQ (G3s OZF,XXZ,G4s DWW,WNX,ops)	1,533,506	2806	169
W1AW (KC1XM,NJ1F,W1WEF,WZ1R,K2WR,KR2J,N2BCC,WB2DIN,K3IPK,N3ADL,ops)	796,543	2577	121
P20A (P29s DX,JA,NAG,ops)	763,767	1399	113
OE1XHQ (OE1s MCU,TKW,YU4JJ,ops)	664,249	1405	151
Z30RSM (Z37CEF,op)	615,600	2485	108
LU4AA (LU1CN,LU5DZ,LU6BDG,ops)	425,829	649	129
JA3RL (JA3MAU,JE3EIG,JG3RPL,JJ3ERY,JJ3WPF,JN3s QLL,VOG,JP3LKR,JO3OZY,JR4ISF,ops)	361,928	1626	92
PI4AA (PA0LOU,op)	272,034	827	102
SP3PZK (SP3s AMZ,FEI,FHK,MEP,VKK,VKG,ops)	146,804	611	198
VE5OST (VE5s JZ,PE,PF,SV,SZU,UO,VA,XP,ops)	81,770	696	37



Operating at W1AW is so exciting! Rich Gelber, K2WR, takes an unplanned break from 40 meters, while Brian Szewczyk, NJ1F, hands out multipliers on 15.

Many entrants thought that, outside of 20 and 15 meters, conditions were dead, but that wasn't so. Each of the top finishers reported making 100 to 200 contacts on 10 meters, and each made 250 to 300 QSOs on 40 meters. This shows that a band may not be as dead as you think—everyone else might be *listening*, too. There are people who let conditions challenge them and others who challenge the conditions. Which are you? Bill, 5Z4FO, reported, "Who said that 10 meters was dead? I worked VP2EY at 1824Z, a distance of 10,700 km!"

Top Finishers

In the Mixed-Mode competition, Gyoza, HA0MM, fought off a strong challenge from Robert, 4X/S59PR, who had more QSOs, but came up short on multipliers. HA0MM did a great job on 20 and 15 meters; more than 50% of his QSOs were on 20 meters and 25% were on 15. He made 200 QSOs in his first hour on 20, working mostly stations to the east. He was even working stations at a good clip in the wee hours of the morning, 0300 to 0500Z; and he made 162 contacts on 20 in the last hour of the contest.

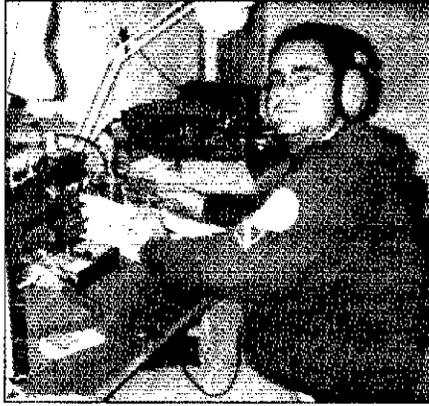
For Radivoje, YU1RL, operating PY0FF on CW, and Atilano, PY5EG, operating as ZW5B, the story was much the same, although Radivoje made more QSOs on 15 meters than on 20. As they started the contest, 15 meters was wide open to Europe and they made good use of it.



Gyoza Macsuga, HA0MM, looks stunned after his First-Place, Mixed-Mode, World effort.

Top World Scores

Mixed Mode		CW Only	
Call	Score	Call	Score
HA0MM	1,999,404	PY0FF (YU1RL,op)	1,580,436
4X/S59PR	1,862,764	P40WW (KD6WW,op)	1,410,886
RB5FF	1,313,435	RZ9UA	1,176,751
US5I (RB5IM,op)	1,155,684	GR8ZZ (K1ZZ,op)	1,046,760
UT4UZ	1,022,286	7Q7XX	964,541
LY2IJ	961,865	US8I (RB1IZ,op)	955,890
UA3RAR	839,581	UT5UGR	949,975
LY1DS	806,494	SP6YAO (SP3ASN,op)	754,120
ZV7A (YT1AD,op)	771,284	ZL3GQ	708,698
GI0KOW	742,560	OH2PM	675,240
Phone Only		Multioperator	
Call	Score	Call	Score
ZW5B (PY5EG,op)	1,649,071	HG73DX	3,195,000
GT4NH	1,348,032	C49C	2,077,507
S52AA	1,309,126	LZ5W	1,737,120
S53EA	1,008,120	UY7E	1,683,045
ON6TT	947,760	R6L	1,667,160
TU5DX	886,816	UZ8AXS	1,581,085
S24BI	820,704	9A1A	1,470,084
YT7A (YZ7UN,op)	755,090	UR8J	1,416,780
GM0ECO	734,544	US7I	1,138,080
OH1EH	692,664	IR2W	1,080,785



Javier Campos Jr, AH6MM, was part of the team that put OJ0/OH1VR on Market Reef on the air for the contest.



Robert Kasca, 4X/S59PR, put up a strong fight for first place in the Mixed-Mode category, finishing just short of the top spot.



The crew at OK5A found it easier to participate with someone else helping to take care of cooking and other details. Shown here are (l-r) Vitek Kuncar, OK2PSZ; Jana; Sarka; and Zdeno Sterbacek, OK2PZW.

North American stations didn't start showing up in their logs until about 1600-1700Z and disappeared about 90 minutes later. PY0FF's somewhat rare location attracted hordes of European stations and being from South America allowed the operator there to make a larger number of five-point QSOs.

Headquarters Stations

In the IARU Member-Society Headquarters Stations competition, the group from MRASZ in Hungary, HG93HQ, rolled up another bonecrushing score, finishing with 7.2 million points. The Germans of the Deutscher ARC, operating DA0HQ, put in a good effort, again finishing ahead on QSOs, but behind by 11 multipliers and the important three- and five-point contacts. All together, 18 IARU member-societies handed out multipliers this year.

Let your friends suffer in the heat while you have a good time—the next IARU HF World Championship is July 9-10. Be on the air; you'll have a good time! Thanks to Contest Assistant Anne Jaworski for her help in preparing these results.

SOAPBOX

Conditions were poor and I didn't get a lot of sleep. I'll see you next year from somewhere else! (HB0/DL7VOA). Three days before the contest, storms wiped out my electricity! I was forced to use a generator during most of my operating time. When the electricity eventually came back on, the HF bands were too noisy to continue, forcing me to stop (N0UAX). I enjoyed the contest and look forward to my certificate (JK1AJX). This is a great contest! (VK2ARJ). Ten meters was dead the entire weekend (VK2AYD). I encountered many familiar call signs and many new ones. I had a lot of fun and I'm already looking forward to next year (ZL2AGY). The conditions were ordinary, but we had a lot of fun (OK5A). After last year's good propagation, we went back to the "normal" lousy conditions of previous years (P20A). Conditions were worse than last year, but this was no big surprise (VK2APK). It was a good contest, but this

year it was awfully tough to pull the Europeans through from here (VE6BIR). I wanted more from the IARU contest, but the passing electrical storms prevented that (N0FBA). Propagation was good to Africa! (OH2BLF). It was a pleasure to work this contest, even though propagation wasn't always friendly (Y05BQ). The conditions on high bands were poor, but I enjoyed the contest (JA1BNW). Conditions on the equator were very poor during the contest, and as a result, I fell far short of my scores over the past two years (S24BJ). This wasn't my day to contest. Band conditions were poor at the start, I got stung by a wasp, and after the band opened up, my power amplifier gave up the ghost

Top WVE Scores

Mixed Mode		CW Only	
Call	Score	Call	Score
N5NMX	342,503	K5GN	622,836
N4ZC	246,468	N2BA (K8HVT,op)	617,856
N6IP	233,714	KT3Y	520,028
N6NF	229,420	N6TH	512,556
WA5OYU	208,350	K5MR	437,895
W1GD	180,395	W6YA	431,760
K21M	175,316	AA6TT	397,116
K8LNP	154,133	WZ3Q	377,330
KC6CEX	131,436	K4LTA	284,695
AG8L	127,862	N8LXS	280,462
Phone Only		Multioperator	
Call	Score	Call	Score
KW8N	489,041	WX0X	840,420
K5X1	387,436	W5WUU	766,035
WB2K	352,108	K5NA	666,824
N6WLX/8	184,675	K9SD	448,008
WB2NQT	164,528	KN2T	403,920
AA4NU	141,911	K93F	397,167
KE2JO	133,668	W4AQL	395,460
KB2R	116,578	K6XT	392,730
WM2V	115,344	KR0B	380,928
NB1B	115,068	W6AQ	337,120

with a bang! I'm hoping for better luck next year (VE3CWE). The contest was great! See you next year (KJ5CZ). I worked the contest with my 20-meter dipole in the attic and 100 watts, which partially accounts for my poor signal and poor showing. Many thanks to all who persevered to pull me through and give me another contact (AA3CN). This is my first contest. I was overwhelmed by "mike fright" at the start (HA5CAC). It was a nice contest and we're already looking forward to next year (9A1CED). We were happy to take part in the IARU contest (UZ9CYA). We were surprised to have better rates on CW than on phone! Conditions were poor on the lower bands (C49C). Conditions were poor this year. Let's hope they'll be better next year (DL2DRZ). After three hours into the contest, I discovered that my 20-meter antenna wasn't working well. My brother tried to fix the quad, but without luck (S51DX). The conditions were poor, but I enjoyed the contest (UA3DPX). The contest was fun, but the bands were terrible. It was great to work SU2MT on 40 meters (K9SD). I enjoyed the contest despite the poor conditions and I'm looking forward to next year (VE3EL). This is always a good contest, but DX conditions this time were only a shadow of those of last year. Only a few DX stations received here had an S7 signal and most were S5-6. I was lucky to be received with an S5, judging from the trouble some had in getting my call sign correct. I guess it'll be several years before DX conditions get better, but I'll keep trying (W9HE). During the night, propagation was down, but we decided to go on, as this is a nice contest (CT3EE). Conditions were so poor that I didn't work a single JA on 15 meters. I still can't believe it! (OH1EH). Even Marconi would have flipped the switch on this one! (N6PEQ). This contest is one of my favorites and the closest thing to a perfect contest. The multipliers are numerous enough to be fun, and the point system lets you work Stateside when conditions are poor and still put together a decent score (KB4GID). I enjoyed operating for a few hours while on vacation (EI/G4BUO). The conditions were more challenging this year (AA2GS). I thought it was a great contest! (LZ3HI). Thanks to all for an enjoyable contest (LZ2HM). Because of too much work at the office, I got a late start in the contest. I need to get a new job that doesn't interfere with contesting so much! I worked some VKs on 15 meters at 0525Z long after the band had closed for everyone else (K5X1). Despite poor HF conditions, it was again a great contest (F6JIE). It was fun and I was pleased to take part in this worldwide contest operating QRP! (UL7IDX). To my regret, I was unable to break the pileup and work SU2MT (JF3IUC). This is my first contest after many years off the air. I enjoyed it and I like the 24-hour format (KW8J). This contest is one of the nicest. It was fun for all the operators (UR8J). I heard a lot of weak stations calling from Europe on 20, but I couldn't copy most of them (KE2JO). Band conditions were terrible and my old amplifier

bit the bucket (KA1J). Conditions were poor during the contest period (G0NKL). I lost a lot of time because of electrical storms (N6QLQ/YB5). I used the occasion to have a homecoming event for past Louisiana contesters and I hope to make this an annual event (W5WMU). This was my first time participating in this contest and I had a great time (WQ2M). It was a good contest. I was pleased to receive an award for last year's operation (PA0MIR). This was our first effort! We look forward to next year (SU2MT). The conditions on 21 and 28 MHz were poor (5N0MVE). The conditions on 20 meters weren't very good in the morning, but improved as the day went on. I ended up staying on 20 meters because 15 and 10 meters seemed dead. I found a lot of activity and plenty of new stations to work and as usual, it was a fun contest (AA0NB). The contest was nice, but the conditions were not! (OH3OJ). Conditions weren't too bad and as usual, it's always fun to participate (DL8PC). Conditions weren't too good this year (YL2SW). We entered this contest for the first time as multiops and, needless to say, we had lots of fun! (KN2T). Propagation was significantly worse compared to last year. I found almost no JA or Stateside stations on 15 meters, but I had a good Stateside premp on 20 meters (ON6TT). I enjoyed the con-



Pat Sonnier, W5WMU, held a reunion of Louisiana contesters over the weekend with (l-r) Jim Moore, WU3V; Randy Davis, W0MJ; Pat; and Dan Edwards, W5XZ.

test! The basement ham shack I have was a comfortable place to be during our July heat wave (KA1UEH). This is my first DXpedition. I operated on the beach! (K4UD/KP2). Even though the conditions to the US and Japan were poor, I did enjoy the contest (UT4UJ). I can only hope for better conditions next year than we had this year (N7JXS). I didn't hear a single W or JA on 10 or 15 meters, so conditions were rather poor (LA4YW). Murphy struck! The amplifier failed on the second QSO, the beam got tangled with the inverted V and wouldn't rotate, I forgot to set the computer time to UTC and I had a power failure. Conditions varied from bad to worse. I never heard a single W/E on 15 meters (KL7Y). I enjoyed the contest, despite terrible propagation conditions here in Denmark. The skip length seemed to get shorter and shorter all the time, so much so that at the end, I think I was talking to myself! (OZ2ZZZ). It was a nice contest, but conditions were poor. I only hope they'll improve next year because I'll be there! (ON4ZD). I enjoyed operating from a different place than usual, it was fun. My only regret was not having had the opportunity to go head-to-head with Al, G3FXB (K1ZZ). It was good fun. A thunderstorm took out the power for about two hours and I had to sleep a little, but all else went fine (AA5ZQ).

Scores

Scores are listed by ITU zone and then by country within that zone. The line score indicates the call sign, final score, QSOs, multipliers and entry class. The entry class letters indicate: A = single operator, mixed mode; B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter.

Zone	Country	Call Sign	Score	QSOs	Multipliers	Entry Class
Zone 1	Alaska	WBVA	431,760	986	120	C
		WBWVW	26,724	178	51	C
		NSAZE	8,091	53	29	C
Zone 2	Alberta	VE6BIR	15,365	126	35	A
		VE6BF	94,316	373	73	C
		VE7XO	11,502	114	27	B
Zone 3	Manitoba	VE4RP	12,768	146	24	B
		VE4VY	118,636	647	58	C
		VE5FP	37,940	348	35	A
Zone 4	Ontario	VE3CWE	8,586	96	27	A
		VE3IEE	8,098	39	24	A
		VE3EL	15,955	125	31	B
Zone 5	Utah	KA6XA	608	22	8	B
		KA6J	29,751	181	47	A
		KA6BP	16,458	84	48	A
Zone 6	East Bay	KA6YX	58,212	360	84	B
		KA6Y	49,192	141	88	C
		KA6Q (+KA6SAR, ND0LU, WA6OTU)	337,120	925	110	D
Zone 7	W5	KA6HO (+K6SVL, K6BNAL)	98,946	454	89	D
		AB6ED	21,528	152	46	A
		AA6OG (NF6H.op)	64,046	317	62	C
Zone 8	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 9	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 10	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 11	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 12	W5	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 13	W6	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 14	W7	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 15	W8	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 16	W9	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 17	W0	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 18	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 19	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 20	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 21	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 22	W5	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 23	W6	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 24	W7	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 25	W8	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 26	W9	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 27	W0	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 28	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 29	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 30	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 31	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 32	W5	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 33	W6	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 34	W7	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 35	W8	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 36	W9	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 37	W0	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 38	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 39	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 40	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 41	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 42	W5	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 43	W6	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 44	W7	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 45	W8	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 46	W9	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 47	W0	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 48	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 49	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 50	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 51	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 52	W5	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 53	W6	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 54	W7	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 55	W8	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 56	W9	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 57	W0	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 58	W1	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 59	W2	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 60	W3	WA6AL	52,499	361	47	C
		N6PEG (+N6DEC, NX6M)	176,025	803	75	D
		WA6FQV	77,587	547	49	A
Zone 61	W4	WA6TKF	41,779	369	41	A
		WBKY	15,922	150	38	C
		WA6P	64,046	317	62	C
Zone 62	W5					

Northern Florida

W4WFO 21,996 190 39 A

South Carolina

KC4UH 58,900 322 62 A
W4JK 11,592 140 28 C

Southern Florida

K8UNP 154,133 533 97 A
W04AHZ 93,666 504 67 C
WB4TJH 98,736 184 96 C

Tennessee

A424U 141,811 501 97 B
KF2JK 133,668 454 94 B
K41WV 68,748 253 74 B
WB4PHW 7,502 101 22 B
K4LTA 284,695 913 97 C
N4IH 63,126 435 42 C
N1CWR 30,527 183 49 C
W4TYU 11,484 132 33 C
W46KJUI4 (+K4CQFR) 36,846 263 46 D

Virginia

WB4URD 8,091 63 29 A
W92NQT 164,528 442 104 B
N4MM 105,161 340 93 B
N3CV 4,216 82 17 B
K7BY 520,025 1195 118 C
W4APGM 87,024 301 54 C
K4FFP 48,840 254 55 C
W2CFB4 52,340 245 44 C
W4XD 30,358 232 43 C
K1SE 5,947 97 19 C

W5

Mississippi
KB5IXI (+NET) 11,692 110 37 D

W8

Michigan
AG8L 127,882 511 86 A
K9QLK 42,503 241 63 A
AA8AV 93,832 440 74 C
K8CV 6,144 74 32 C

Ohio

N5JQX 69,020 150 68 A
KB9NTY 14,924 168 28 A
K8WN 489,041 1043 133 B
N6WLVX 184,675 634 89 B
N8LXS 290,462 894 91 C
N88D 118,850 506 65 C
K8WJ 61,587 287 63 C
K8SJ 41,305 253 56 C
W8IQ (+W89INF) 313,017 801 103 D
W8ROSE (+N8JEC) 73,140 537 60 D

West Virginia

K8OQL 72,562 304 73 A
N8II 30,816 190 48 C
K8VS 12,480 110 35 C

W9

Illinois
K9MMS 117,825 475 89 A
NE0P/R 4,416 75 23 A
K09CN 46,748 252 62 B
N9ROU 3,870 49 18 B
N9RUC 424 42 4 B
NA1F 121,390 456 85 C
KA1J 65,619 327 69 C
K9SD (K09AL, W9W9 L, Q, KA0GGI, K9WA, ops) 448,008 1020 132 D
N9LCR (+AA9G9) 49,952 323 56 D

Indiana

N8DHN 1,391 43 11 A
RB0C 23,862 142 41 B

Wisconsin

NE3J 66,633 394 57 A
K9QYC 11,832 114 34 C
K99S 90,937 449 77 C
N9XA 34,476 269 52 C
W9HE 22,550 200 41 C

Zone 9

Maritime Newfoundland

VO1SF 67,984 288 56 C
VE1IV 15,024 172 24 C
W90A/VE1 1,490 41 10 C

Quebec

NM7N/VE2 (+N4DDK) 47,800 360 40 D

St Paul Island

WV2B/CY9 61,243 616 29 A

Zone 11

Martinique

FM5CW 82,020 367 80 C

Dominican Republic

H8OMA 52,536 400 44 B

Panama

HP1AC 54,670 216 70 C

Honduras

HR2JAF 3,332 58 17 B

Grenada

8JGT3FN 2,517 83 14 A

Virgin Islands

K4VUD/KP2 11,268 294 38 B

Aruba

P40WW (KD6WW, op) 1,410,885 2161 134 C

Anguilla

VP2F-AA8B 569,375 1261 75 C

Turks and Caicos Islands

VPSJM 411,912 1076 108 B

Cayman Islands

ZF2J (K4IF, op) 202,020 676 78 B

Zone 12

Colombia

HK3JH 379,428 923 64 B

Peru

O44ANR 296,484 575 112 B
O44ZV 121,952 350 74 C

Venezuela

YV5NCJ 87,798 500 36 B
YV1DRK 86,121 295 63 B
YV5NCK 29,792 162 38 B
YV4EYA 5,900 60 25 B
YV1OB 10,744 74 34 C

Zone 13

Brazil

ZV7A (YT1AD, op) 771,284 1315 122 A

Fernando de Noronha

PY0FF 1,580,436 2082 156 C

Zone 14

Chile

CE5BPE 5,115 45 33 B

Argentina

LJ8ETB 606,320 908 143 B
LJ8CN 280,398 583 102 B
LJ8CJ 71,820 315 26 B
LJ8DKN 25,650 116 30 C
LJ4FD 220,155 691 65 C
LJ1EWL 540 14 10 C

Zone 15

Brazil

ZW5B (PY5EG, op) 1,649,071 2091 183 B
PY2APQ 27,678 116 53 B
PY2FH 5,597 47 29 C
FR0R (PP56 ATA, JD, JR, WG, ZY, ops) 347,248 828 88 D

Zone 18

Norway

LA8KHA 73,521 387 63 B
LA2EIA 28,098 225 42 B
LA8DFA 9,986 149 21 B
LA3WEA 6,916 88 29 B
LA2AD 5,439 55 21 B
LA4YW 167,258 582 91 B
LA7DIA 33,402 261 38 C
LA2HFA 32,391 195 61 C
LA8PB 20,515 133 55 C
LA3GJ 18,392 132 44 C
LA5AP 6,838 95 26 C

Aland Island

OH0BVF (OH2BVF, op) 87,482 568 43 C
OH0I ABHFA 16,850 337 17 C

Finland

OH6WZ 719,468 1291 164 A
OH2BLF 182,160 547 110 A
OH7NW 46,728 242 56 A
OH1EH 692,664 1442 147 C
OH3OJ 470,465 1275 115 B
OH6SU 40,968 181 72 B
OH2PM 675,240 1169 170 C
OH8NIO 395,280 978 120 C
OH3AB (OH3MMF, op) 359,812 918 128 C

OH8LAE

296,584 680 133 C
OH2YL 23,458 158 54 C
OH3NM 18,944 158 37 C
OH8P 250 13 10 C
OH5PA 20 2 2 C

Market Reef

OJ8DHTVR (+OH6LJ AH6MM) 408,270 1500 93 D

Denmark

OZ5ABD 18,468 123 54 A
OZ1A4 16,860 104 68 A
OZ9AA 127,900 537 76 B
OZ5EV 112,332 312 111 B
OZ2ZZZ 67,875 281 75 B
OZ5SIG 22,272 166 48 C
OZ1ACB 11,254 111 34 B
OZ1FMO 2,800 42 28 B
OZ1RFO 69,881 267 67 C
OZ8XO 2,039 41 19 C
OZ5DX 630 18 7 C
OZ5UR 245 15 7 C

Sweden

SM8NJK 615,304 1088 153 A
SM3JLA 270,020 772 115 A
SM3PZG 257,408 609 128 A
SM3AF 22,668 154 52 A
SK0BH (SM0SYP, op) 198,360 702 87 B
SM3LIV 64,050 309 70 B

SM7HSP 7,308 81 28 B
SM6AHU 3,474 63 18 B
SM7TUG 240,464 675 112 C
SM3CCM 122,486 408 96 C
SM00DS 63,636 272 76 C
SK0PR (SM0DZH, op) 37,446 160 79 C
SM5DUT 32,509 181 59 C
SM8RE 21,417 187 33 C
SLOCB (SM1TE, SM0MKO, NZY, TXT, ops) - 583,968 1378 132 D
SK0HS/5 (SM5ARL, SM0MPV, ops) 193,008 527 117 D

Zone 19

European Russia

R21AWF (RV1AO, UA1AKM, ops) 495,013 1160 127 D

Zone 20

Asiatic Russia

UA9XF 30,060 345 80 A
UA9XF 29,870 217 30 B
UA9XL 16,000 115 32 B
UA9XC 80,256 405 44 C
RA9XX 48,024 332 32 C

Zone 21

Asiatic Russia

RA08R 14,456 124 26 B
UA9KZD 32 4 4 C
UZ9KWI (UA9s KCJ, KDZ, KEK, ops) 2,352 37 16 D

Zone 26

Asiatic Russia

4K4POL/A 48,300 267 42 C

Zone 27

Ireland

ELG4BUO 46,421 275 61 C

France

F8N8X 4,266 85 18 A
F8PQ 152,720 532 92 B
F8PRH 89,120 352 80 B
F8PCX 59,792 258 74 B
F8WE 57,222 273 68 B
F1MYH 55,897 445 59 B
FE1JBF 35,504 234 52 B
TM9C (F8IN, op) 521,500 1456 100 C

F1QIE 221,254 556 113 C
F6IIE 199,284 630 104 C
F8RAB 34,782 193 62 C
F6EQV 12,980 141 28 C
FD1SIH (+FD1R0P, F8PQP) 231,883 1656 127 D
FF5OJ (FD1s RRK, RWL, ops) 371,309 825 97 D
FD1RXL (+F1OZF, F6LQJ) 102,600 698 54 D
F1NHZQ (+Y04FLJ) 77,626 351 74 D

England

G4KIV 344,894 889 122 A
G4PKP 337,952 966 118 B
G0KTN 14,448 105 48 B
G88ZZ (K1ZZ, op) 1,046,760 1748 165 C

G3SWH 210,788 575 84 C
G3SXW 162,989 486 102 C
G3ESE 145,635 469 85 C
G8DFV 66,112 321 64 C
G4MVA 57,750 252 77 C
G6WVC6U 14,080 146 32 C
G0NKL (G7JTT, G0S F0D, M0P, OFD, SBV SZL, ops) 50,176 305 49 D

Northern Ireland

G1OKOW 742,560 1752 136 A
G1GSAP 52,416 396 36 B

Scotland

GM0ECO 754,544 1643 144 B
GM3BCL 23,454 144 56 B
GM30FS 41,496 290 42 C

Wales

GW4BLE 52,377 305 61 B
GW0AJI 25,434 183 54 B
GW3CSA (G1AOF, G4WSE, G5S IEO, KXL, ops) 253,092 955 64 D

Belgium

ON4ACW 33,488 297 56 A
ON6TT 847,760 1547 165 B
ON8GQ 147,680 480 104 B
ON9CJM (W0ZM, op) 105,210 395 80 B

ON4SS 56,532 303 42 B
ON5CZ 26,210 163 82 B
ON7BJ 25,600 324 32 B
ON4BR 8,896 94 32 B
ON6CW 181,240 572 42 C
ON4ALW 90,153 325 45 C
ON4ZD 82,770 304 89 C
ON4AH 72,933 350 68 C
ON4ASW 62,720 304 70 C
ON4KFM 55,176 251 66 C
ON4KRO 52,796 286 67 C
ON6TJ 8,112 100 34 C
ON6AH (+ON5PV, ON6MH, ON7PC) 578,988 1375 122 D

OT3B (ON4OE, ON6VK, ops)

191,412 694 78 D
ON5II (+NET) 31,950 154 71 D

Netherlands

PA3PNE 155,290 500 106 A

PA3BBP 48,290 254 53 A
PA0JUM 225,533 897 77 B
PA0MIR 106,488 379 102 B
PA0KHS 63,796 278 82 B
PA3GAB 28,236 543 52 B
PA3CWR 12,750 147 30 B
PA2ALF 5,529 101 19 B
PA2DJ 3,480 66 20 B
PA3BTH 25,110 164 54 C
PA3GQ 19,912 154 38 C
PIATUE (PA3s EZL, GDU, GBV, GEZ, GIQ 4S6DL, ops) 309,232 984 88 D

PI4COM (PA3s BBP, DM, H, ER, G, BO, PBOAU, ops) 276,500 913 100 D

Zone 28

Croatia

9A3ZO 34,397 254 59 A
9A2TX 10,498 126 29 B
9A/OK2QX 42,210 285 67 C
9A1CLH 19,082 139 47 C
9A3SM 12,390 118 42 C
9A1A (9A2s AW, DQ, HL, HO, LJ, MP, MY, NJ, RA, SD, YW, 9A3NR, PA3DZN, ops) 1,470,084 2464 154 D
9A1CED (+ops) 212,009 1128 71 D

Federal Republic of Germany

DL3VZL 131,565 461 105 A
DL7VOG 116,287 385 103 A
DL2AYI 75,125 384 87 A
DF2UQ 74,400 338 80 A
DK2OY 72,576 340 84 A
DL0MFL 45,980 223 76 A
DL1DWT 35,200 160 80 A
DL6CIA 25,925 125 61 A
DL1EV 24,402 102 83 A
DL1ATO 20,075 118 55 A
DL7DE 19,608 109 57 A
DL5JRA 14,703 170 29 A
DL6DVU 6,903 140 39 A
DL6FC 621,680 1124 164 B
DL2ARD 381,612 884 154 B
DL8JDT 253,920 644 115 B
DL6KY 131,040 421 117 B
DL1EK 123,900 602 75 B
DG3BAF 121,770 351 166 B
DL8ET 105,388 416 79 B
DL8OBQ 103,584 411 96 B
DL1JPL 91,432 370 88 B
DL8SDC 47,530 259 70 B
DL3PP 40,144 270 52 B
DL8MEJ 38,934 258 63 B
DJ4RF 22,857 167 57 B
DJ6MF 19,089 111 63 B
DK3ML 14,544 61 37 B
DL1HSR 11,417 101 49 B
DF5BX 6,815 89 43 B
DL3HWW 8,456 84 38 B
DK7N 8,446 96 41 B
DL3IV 7,580 90 42 B
DK0UL (DL2SDQ, op) 1,740 48 15 B
DL3WA 1,350 35 18 B
DL6KVA 262,960 800 152 C
DL2OAP 167,121 671 93 C
DL2DX 156,728 531 88 C
DL1E 130,152 403 102 C
OK3GI 128,583 383 117 C
DL4VAD 123,840 272 64 C
DL4HRM 114,930 488 90 C
DL7CF 103,500 285 115 C
DL1TH 87,744 320 96 C
DL3JZN 71,500 260 100 C
DL7BQ 65,610 324 81 C
DL3AW 60,188 270 82 C
DL7V0X 53,580 198 95 C
DL5SVB 50,735 287 73 C
DJ1FH 50,400 268 80 C
DL7VHM 43,656 216 88 C
DL17O 39,813 290 89 C
DL1AL 34,495 228 64 C
DL1BN 32,656 226 52 C
DL2RUG 26,390 173 58 C
DL4JY 21,318 136 57 C
DL2HRA 18,200 128 50 C
DL6QK 9,768 108 37 C
DL2VLA/P 6,674 101 36 C
DL2DRZ 6,225 59 47 C
DJ5GJ 2,208 62 13 C
DJ2YE 1,808 53 18 C
DL1ARJ 1,260 34 15 C
DL3KWR 1,106 31 14 C
DL3DRN 79 24 18 C
DL7UF 48 4 4 C
DK0BP (DL2MEH, DL3KDV, ops) 707,664 1279 184 D
DK0GG (DL2RMC, DL3MBG, DF7RG, ops) 373,888 1105 127 D
DL0GV (DL1SWG, DL4s SVA, DL6FJ, DK7XS, ops) 383,367 927 141 D
DL9AW (+DL2080, DL30BL) 281,050 813 108 D
DL0MBG (DL1AUB, DL8s AKA, AYI, ops) 212,978 74 108 D
DA8HDM (OK3EP, DL8s GFB, GKJ, ops) 121,868 653 88 D
DF0FH/WP (DH1s PA, LAZ 2) 117,504 472 96 D
DL0SOP (DL3KUD, DL8KWS, ops) 105,659 493 83 D
DL5XAT (+DL9XA1) 44,480 271 64 D

OM3TUM	3,120	82	20	
OM3KFF (OM3s TLU,TPG,TRG,ops)	913,868	1805	153	D
OM3RKA (OM3s CPC,CGR,TDP,TTZ,ops)	785,876	1247	182	D
Slovenia				
S57UN	198,378	690	103	A
S53AA	128,095	539	83	A
S51DC	108,576	454	78	A
S53MU	93,861	354	75	A
S52AA	1,309,126	1919	182	B
S53EA	1,008,120	1824	155	B
S53ZU	384,356	1000	106	B
S57BU	227,335	735	89	C
S57JZ	37,736	290	53	C
Poland				
SN3A	613,284	1236	149	A
SP4DCR	124,200	523	108	A
SP2ICE	111,265	368	119	A
SP2ZF/P	108,438	442	93	A
SP2UKB	53,200	286	96	A
SP2NIC	29,077	226	46	A
SP7SVC	48,694	486	92	B
SP7FOI	42,705	228	73	B
SP6NVK/3	34,938	243	54	B
SP1E0I	25,197	227	37	B
SP4CJF	24,745	201	49	B
SP3OON	22,000	221	40	B
SP6MLX/P	11,648	154	28	B
SP1RKM	68	7	6	B
SP6YAO (SP3ASN,op)	754,120	1308	170	C
SP7GHO	547,208	1064	148	C
SP9BBH	180,476	544	117	C
SP2AYC	143,055	520	99	C
SP2FOV	105,200	440	100	C
SP5YO	91,632	240	113	C
SP5CJQ	91,740	434	80	C
SP4EAK	65,504	424	48	C
SP6CDE	32,382	215	63	C
SP1AEN	29,150	184	55	C
SP3DIK	19,694	131	43	C
SP3NYG	13,170	163	30	C
SP3AOT	9,612	91	36	C
SP8LZC	9,590	106	40	C
SP5UAF	2,163	43	21	C
SP5CGN	1,280	36	14	C
SP9MDY	371	25	7	C
SP3PLD (SP3s CB,FLR,IBM,SBR,ops)	302,068	774	148	D
SP9ZKN/P (SP9MGB,SP9-0620-9B,ops)	24,378	237	44	D
SP9YFU (SP6s NVK,CPE,ops)	9,152	108	32	D
Greece				
SV2BFN	90,048	625	67	B
Bosnia Herzegovina				
Y91DNO (Y94LP,op)	122,175	337	75	C
Romania				
Y03FF/P	54,720	261	76	A
Y05BG	44,072	315	86	A
Y04AAC	10,260	166	30	A
Y07LFF	128,258	590	96	B
Y03RU	121,360	506	69	B
Y08FNR	38,502	243	62	B
Y04DJ	13,299	199	31	B
Y02LIM	10,744	164	34	B
Y05RWI	8,418	118	34	B
Y04KCS	8,432	131	31	B
Y08ROD	3,180	65	20	B
Y03CLN	1,834	48	19	B
Y08BPY	24,760	185	61	C
Y03QAS	13,050	198	60	C
Y08AZO/P	11,168	159	32	C
Y03FWC/P	8,000	164	25	C
Y02LIN	4,464	122	24	C
Y08FJW	3,784	92	22	C
Y02GJX	380	40	5	C
Y04KCC (Y04s F.TC,FZQ,ops)	14,904	150	45	D
Yugoslavia				
Y7TTY	550,788	1148	158	A
Y77A (Y77UN,op)	795,090	1508	161	B
Y71MI	108,117	411	8	B
Y71TB	553,380	1326	139	C
Y77XF	83,265	253	91	C
Y71SM	60,078	270	75	C
Y70T (Y71HA,op)	51,786	280	63	C
Y71HA	17,416	95	56	C
Y71PI	9,843	63	51	C
Y71GR	9,010	54	53	C
Y71PM	7,803	51	51	C
Y71AGX	54,605	277	67	D
Macedonia (former Yugoslav Republic)				
Z32BU	62,500	554	50	B
Zone 29				
Lithuania				
LY2IJ	961,665	1728	183	A
LY1DS	408,494	1577	183	A
LY2OU	961,636	1127	132	A
LY1DI	104,529	474	87	A
LY2BTA	54,439	251	49	A
LY3BSC	17,152	184	32	A
LY1BA	453,033	1015	153	C
LY2PAQ	138,618	568	83	C
LY1CN	64,454	370	74	C
LY3BY	11,480	144	35	C
European Russia				
UA3RAR	899,581	1277	199	A
UA3DPX	401,571	1053	139	A
UA4LCQ	218,885	697	101	A
UA1TAN	160,230	612	98	A
RA3RFH	81,880	405	70	A
UA3EWZ	48,858	276	68	A

RA3DFP	41,106	384	39	A
UA6BPP	193,494	646	102	B
UA4NC	17,900	405	100	B
UV3DCR	83,168	276	113	B
RA3HK	81,815	353	61	B
RW3DW	31,280	782	40	B
RA3DNC	10,808	143	28	B
UA4AVN	4,655	106	19	B
RA3XQ	283,290	714	142	C
UV6LNV	162,526	588	91	C
UA3YA	150,100	541	100	C
RA3PP	125,045	505	89	C
RA3XA	96,280	390	83	C
RA4HRL	60,900	264	75	C
RA6YJ	55,015	173	85	C
UV3DRU	52,332	166	96	C
RA1WJ	14,868	243	24	C
UA3MIF	13,020	213	20	C
UA1TFG	12,213	75	59	C
UA3VRP	8,932	147	28	C
R6L (UB3IW,UB5IBG,UA6s LFQ,LO, LV,UV6LPL,UA6-150-1403,ops)	1,687,160	2362	220	D
UZ8AKS (RW6Z,UA6s AJJ,ACA,ops)	1,531,085	2333	203	D
UZ3DZD (RV3DA,UA3-142-1896,ops)	152,334	509	103	D
Ukraine				
RU65FF	1,313,435	2263	205	A
US51RB5IM,opi	1,155,684	1899	193	A
UT4UJ	1,022,286	1748	201	A
UB4FXK (UB5FJA,opi)	473,480	1140	152	A
UB6JZ	438,620	1071	152	A
UB5FAN	329,853	975	129	A
RU6AEK	213,520	685	110	A
UY5TE	117,057	641	103	A
UB5PCII	115,623	501	87	A
RU4AK	76,104	338	84	A
UB4LRQ	63,448	191	88	A
RU4EO	53,568	306	62	A
RU5SIC	24,822	264	42	A
UB5WCF	12,122	153	38	A
UB5PAC	8,375	73	35	A
UT5HP	1,292	20	17	A
UB5ZME	414	31	9	A
RU6DX	591,345	1234	153	B
UB5ZBF	50,765	253	71	B
UB3IAA	31,978	172	59	B
RU5TDS	9,400	66	40	B
US81 (RB1IZ,opi)	955,890	1589	195	C
UT5UGR	949,975	1589	185	C
UB7VA	508,699	1084	161	C
UB4HO	482,875	1106	125	C
UB5ZM	473,760	1053	160	C
RU5LJ	333,405	700	155	C
UB3IQ	204,764	701	103	C
UB3ICB	156,180	548	95	C
UB5EF	143,967	518	111	C
UT5UJA	143,289	583	87	C
UB4LCB	142,416	808	86	C
UB5MTM	131,040	419	104	C
UB5ZKG	118,508	398	108	C
UB5IQW	102,120	519	74	C
UB3IEW	45,420	287	60	C
UB5JNV	43,890	336	42	C
UB5QLN	42,294	230	57	C
UB4III	40,736	289	67	C
UB5ANK	39,216	308	48	C
UB4IBF	39,195	283	65	C
UB5ZKE	36,995	291	40	C
UB3MP	33,804	266	54	C
UB5MGG	22,979	208	43	C
UB5LDB	10,468	142	23	C
UB5MTM	10,472	159	24	C
UT5UJY	4,470	140	15	C
UB5PDM	3,267	65	19	C
RU5ELM	3,091	105	13	C
UB5VK	1,952	36	16	C
UT5UJQ	409	52	7	C
UY7E (UB3EC,UB5EI,UB5s ECE, EDU,EDX,EDY,ops)	1,683,045	2833	189	D
UR8J (UB2JQ,UB3JA,UB3JD,UB4JF,UB5JMR,UB7-067-2,ops)	1,416,780	2332	204	D
US7I (UB3s IM,IO,RB41,ops)	1,138,060	2401	160	D
UT7W (UB5s WAN,WCX,UB5 068 897,ops)	685,740	1374	165	D
Belarus				
UC1CWB (+ops)	221,000	775	104	D
Azerbaijan				
U08F	90,066	283	102	C
UD6DKW	37,440	262	48	C
Moldova				
UO5GA	123,120	531	80	C
UO5ON	102,890	395	90	C
UO5OED	3,374	119	14	C
Latvia				
LY2KO	288,750	856	125	A
LY2SW	48,895	337	55	B
LY2GUO	8,800	110	35	B
LY2GVV	5,518	72	31	C
Zone 30				
European Russia				
UA4WGU	33,030	386	30	A
UA4WEI	1,458	44	13	A
UZ4WVA (RW4WA,UA4s WA,WAN,ops)	753,641	1453	161	D
Asiatic Russia				
RW9GA	55,118	222	62	A
RW9AB	259,200	579	96	A
UW8CL	101,952	335	72	B
UZ9CWY (UV9CAZ,opi)	6,510	72	21	B

RW9SW	345,032	688	118	C
UA9AKS	53,680	217	44	C
RV8ZE	28,520	151	46	C
UZ9CYA (+ops)	51,600	250	50	D
Kazakhstan				
UL7OB	449,800	1004	104	A
UN9LCV	99	9	3	B
UL7IDX	76,322	289	82	C
UN9LX	14,935	225	15	C
Kirghizia				
UM8MFO	25,410	186	33	B
Zone 31				
Asiatic Russia				
RZ9UA	1,178,751	1380	191	C
Kazakhstan				
UN7FW	180,842	561	77	A
UL1RWR	13,888	114	28	A
Zone 32				
European Russia				
UZ2SXF (UA0SU,UV6SN,ops)	57,706	235	61	D
Zone 33				
Asiatic Russia				
RA6JX	11,544	188	32	C
Zone 34				
European Russia				
RU0L (UA0LS,UA0-103-454,UA0-107-696,UV0LZ,ops)	521,934	1307	102	D
Zone 36				
Madeira Islands				
CO3A (CT3s BD,EE,FF,HA,ops)	382,418	755	107	D
Azores				
CU3NOFHL	167,676	558	89	B
Canary Islands				
EA8BWW	137,844	482	63	B
EA8GGY	80,388	298	58	B
EC				