

# Results, 7th IARU World HF Championship

This is what this contest should be: fun, lots of contacts and great DX—*Shawn, N1HOQ*

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Contest Manager Assistant Contest Manager

**T**here was a big difference between 1992's IARU HF World Championship and those of the past several years. Poor band conditions had led to a decline in scores and interest in the contest. The great propagation we enjoyed this year, however, has turned things around. The old adage proved true: When there are good band conditions, it's easy to work plenty of people and everyone has a good time while doing so. Participation in this year's contest, the weekend of July 11-12, really sprang to life! The level of enthusiasm was high. At ARRL HQ, the first thing we noticed was that entries increased 21% over the previous year and the number of Headquarters stations more than doubled from nine last year to 19 this year. It didn't take long to fill our filing cabinets with contest entries this time around.

Fifteen meters was wide open for the entire contest! For example, Charlie, K3WW, started on 15 meters and worked more than 700 stations in the first 11 hours of the contest. In fact, he was making five-point QSOs on 15 as late as 0230Z! Andy, UX6B, ran Japanese stations on 15 well into the night, finishing with more than 2000 QSOs and 78 multipliers on this band alone. Fifteen meters is becoming more of a mainstay, as 10 meters gets sluggish at this point in the solar cycle.

Although the usual summertime static appeared on the low bands, it didn't slow anyone down. The better-than-average conditions down there allowed people to make contacts that would have been much tougher to work in 1990 or 1991. Tony, ZL2AGY, concentrated on 40-meter CW and made 193 contacts with 100 watts and a dipole. Don't overlook this band! Forty meters can be a good backbone for working local stations, while the higher bands may only be good for long-haul DX.

A look at the Top-10 boxes shows how good things were. Scores were up dramatically over last year. Many overall winning scores from the past two years would have had a hard time just making the boxes this year. Forty-two zone records were set, most dating to 1989, the last year we had decent conditions. Three of the top four overall-score records were broken, as Gyozo, HA0MM, beat his previous mixed-mode record by 345k, and the team at UX1A de-

stroyed the previous multioperator mark by more than 2.7 million points. In the US, the KA5W multioperator crew in Texas topped N5AU's five-year-old record by 140k

## IARU Headquarters Stations

HG92HQ (HA1s VQ,WD,YA,YU,HA2RX,HA4s YD,XT, HA5s AWH,BGG,FA,FM,GF,IW,MK,ML,OM,OR,UA, HA6s GK,GM,IDL,NL,NF,NQ,ON,QO,VH,VR,VX,WP, WX,ZO,HA7RY,HA0s DU,HG,IC,NAR,HG5CC, HG6GD,ops)	10,169,166	9920	294
DA0HQ (DF7RX,DG1RMP,DL1s DTL,SBR,DL2s NBU, SAX,DL3s OI,VHF,DL4NAC,DL5s ARX,LYM,DL6FB, DL8WA,Y21CW,Y23EK,Y32VK,Y33s UL,VL,Y42s IK,LK,MK,OK,YS4NL,Y57UG,Y77VH,ops)	9,751,980	10813	294
YP0A (YO2BV,YO3s APJ,AWT,FU,JF,YO4s ATW,BEX, HW,NF,SI,XF,YO6AWR,YO8s AXF,BAM,CMB,YO9s BEI,FE,HP,ops)	4,813,042	6421	247
ZA1A (DF3CB,KC6KOU,OH1MKT,OH2s BH,BSI, OH6EI,ZA1s B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S, T,U,V,W,X,Y,Z,ops)	3,809,520	6067	195
W1AW (N1CC,K2WR,KR2J,N2KW,WB2DIN,K3IPK, N3ADC,WN3K,ops)	2,188,480	4652	160
GB4HQ (G0HSD,op)/GB5HQ (G3QZF,op)/GB6HQ (G0MFO,op)	1,729,760	3220	160
SK3HQ (SM3s BDZ,CER,DMP,RAB)	1,503,212	2670	158
OT2O (ON4s ACG,KAR,VT,XG,ON5WL,ON6s NL,WL,ONL-6945,ops)	1,403,832	2570	174
4U1ITU (IK2NCJ,IV3TAN,ops)	1,102,815	1953	111
FF1REF (F1s HXH,HYH,JTL,RWA,F11KVS,ops)	824,145	1896	105
JA3RL (JA3MAU,JG3RPL,JI3ERV,J3WPF,JN3s QLL, VOG,JQ3OZY,JR4ISF,ops)	714,816	1406	153
OG0C (N6HR,op)	517,854	1289	102
TU2CI (TU2OP,TU2XZ,TU4EF,ops)	512,4751375		75
LA7HQ (LA4s OFA,YW,ops)	403,798	1273	101
OE1XHQ (OE1s MCL,TKW,ops)	313,320	703	120
SV1SV (SV1s AHV,AOZ,BDO,BKE,MF,QN,ops)	216,580	826	98
PY5A	6,664	81	24

points. As the sunspot cycle declines, these records will be hard to beat.

It wasn't just the "big gun" operators who enjoyed this contest, however. The challenge of contesting is for everyone, and just about anyone can get on and have a good time. The incentive of earning certificates for making 250 QSOs or 50 multipliers adds to the fun of participating in the IARU HF World Championship. This way, you don't have to win to come away with an attractive certificate for your effort. Mike, KB9BIB, exclaimed, "I was hoping to make at least 200 QSOs, but I was surprised when I made 688!" Rita, KD1BM, remarked, "It was quite a contest, but I worked my heart out and qualified for my first contest certificate!"

The competition among IARU Headquarters stations was closer this year, with the Deutscher ARC's effort from DA0HQ giving a strong challenge to perennial top finishers HG92HQ from MRASZ. The German group topped the Hungarian's QSO total, but didn't make enough of the valuable five-point contacts to win. We welcome the IARU-member society headquarters stations from Albania, ZA1A, and the Ivory Coast, TU2CI, on their first entries in this contest.

The Radio Society of Great Britain (RSGB) took advantage of the rules for HQ stations and split its effort into three entries this year to maximize its score, while minimizing interference between its stations.



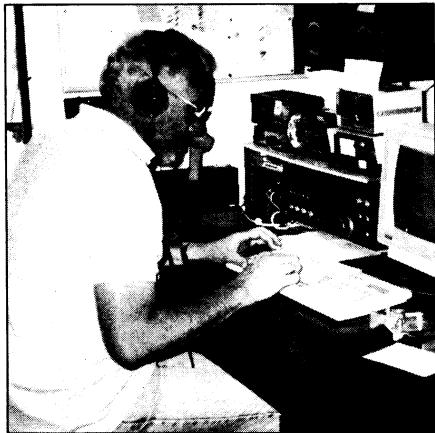
The team that put ARRL HQ station W1AW on for the contest included (l-r) Doug, N3ADL; John, KC1XM; Jim, N1CC; Bob, KR2J; Allen, N2KW; Bob, WN3K; Rich, K3IPK; and Rich, K2WR.

GB4HQ operated on the 80- and 40-meter bands; GB5HQ operated on 160 and 15 meters and GB6HQ operated on the 20-meter band. Their combined efforts gave the RSGB team a score of 1,729,760.

If this year's contest was a harbinger of things to come, you won't want to miss the next IARU HF World Championship. If you've never contested before, this is a great opportunity to get your feet wet. Thanks to Contest Assistant Anne Jaworski for her help in preparing these results. The 8th IARU HF World Championship is July 10-11, 1993.

## SOAPBOX

It was a nice contest, but to make a good score, I'll need better antennas (OD5/SP1MHV). What a difference a year makes! Conditions were much better than last year, with 15 meters open 24 hours a day and Europeans starting to come in on 10 Sunday morning. The hardest part of the contest was having to tell ZA1A he was a dupe (WD4AHZ). This is my first contest since getting my ticket in January. It's all new to me, but I enjoyed it very much (KQ4AX). I was surprised to find 21 MHz so good after several weeks of it being almost dead! (LA2AD). It was my first, but not last, IARU HF championship. I'm looking forward to next year (OZ9AEC). This was my first serious participation in this contest and I enjoyed it very much (ON4APA). I was happy to work two new countries during the contest (JA1ASO). Using only a temporary setup, I managed to have lots of fun! (YB3ASQ). Since 1983, this is the first time I've been able to take part in the contest and it was great to be back! I've retired to my country home on a few acres of land, and now I'm growing antennas as a hobby—unfortunately, they're slow growers (VK2AYD). The contest was lots of fun. I worked many familiar call signs and many new ones. My main interest this year was to give 40 meters most of my attention (ZL2AGY). It was a great contest for me as a 16-year-old boy. I found it an interesting challenge (Y2AO). This was the first time we used a linear amplifier. It arrived the day before the contest (5B4ACY). It was great to only have to search and pounce three times on 20, and it was great when ZA1A answered my CQ (KB9BIB). I seemed to be a multiplier for everyone. It was great! I'll be back next year, for sure (CT1BWW). It was difficult to operate in the contest, but at the same time, it was a pleasure! Next year I hope to do better (Y05BQ). This is the first time I participated in this contest. I found propagation to be very good! (UX6B). The contest was nice. It was too bad I missed the 80-meter openings (UA6BPJ). Although I only had a few hours to work this contest, it was nice (LA0CX). We had to use our home station, as the antennas at our club site crashed during a heavy



Lionel, G5LP, listens intently for another contact at the well-equipped GB4DX.

## Top World Scores

### Mixed

Call	Score	Call	Score
HA0MM	2,274,024	ZY1P (YU1RL,op)	2,053,014
KL7Y	1,421,676	5B4ADA	1,601,600
UA3RAR	1,293,872	CQ8M (CT1BOH,op)	1,492,590
UT4UZ	1,275,092	K1TO	1,164,670
RT9I (RBSIM,op)	1,239,480	G3FXB	1,121,400
UT5UGR	1,209,274	EX0S (UA0SAU,op)	1,101,168
YU7AV	1,157,518	ZDBLII	1,037,088
K3WW	1,150,876	W0ZV	1,020,537
A17B	1,137,300	9A1CCY (9A3NM,op)	957,768
OG6NIO	1,098,495	WQ5W	933,910

### Phone

Call	Score	Call	Score
RY7D	1,257,450	UX1A	6,065,368
UX6B	1,239,087	HG1S	3,214,827
ON6TT	1,175,850	RY0Q	2,932,440
GM0ECO	1,065,991	4K5ZI	2,711,520
5Z4BI	1,033,965	EZ6L	2,116,980
DL8PC	1,013,595	R9J	1,982,584
YU3HR	991,935	KA5W	1,776,349
K4XS (WC4E,op)	960,644	GB4DX	1,688,487
YZ3A (YZ3EA,op)	934,768	9A1CRT	1,217,610
WB2K	891,648	UB3JWW	1,189,377

## Top W/VE Scores

### Mixed

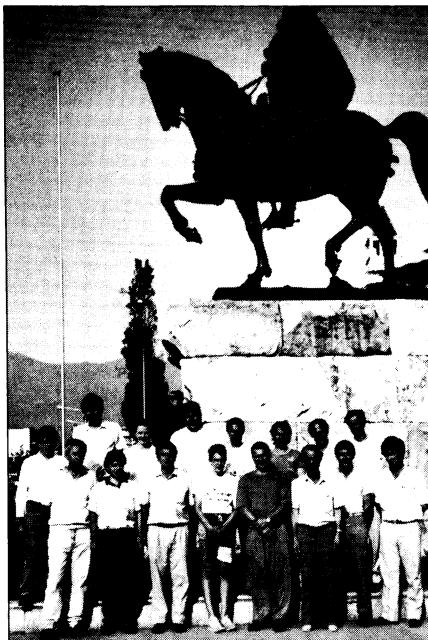
Call	Score	Call	Score
K3WW	1,150,876	K1TO	1,164,670
A17B	1,137,300	W0ZV	1,020,537
KZ5D	831,174	WQ5W	933,910
KW8N		KB0G	829,184
(NZ4K,op)	802,961	W1WEF	788,956
WX9U	570,696	KT3Y	774,400
YV2SS	568,242	N6TR	732,814
W1GD	487,320	AD5Q	688,250
CJ4VV	449,955	K5RC (K5GN,op)	674,520
KN1M	441,843	WA6AUE	571,692
KG5YA	401,744		

### Phone

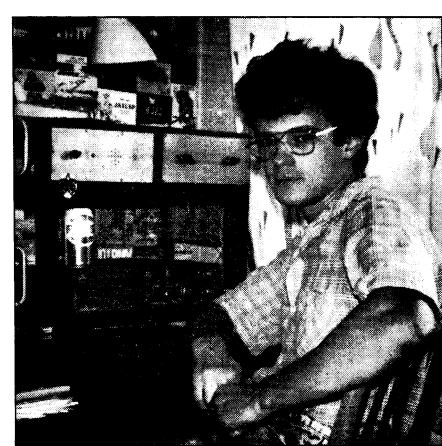
Call	Score	Call	Score
K4XS (WC4E,op)	960,644	KA5W	1,776,349
WB2K	891,648	N2IC/0	1,174,497
WB5NXH	768,222	WW2Y	891,328
N4UH	536,507	K9FD	786,891
N1HOQ	403,624	NC0P	703,647
K4VUD	398,820	K9SD	646,410
AA4NU	331,315	WX0X	643,200
KM6HD/5	305,286	KS1A	574,902
N6WLX/8	303,696	NR1L	565,425
W8KKF	266,196	W8IQ	547,200

storm earlier this year (PI4COM). A barefoot transceiver and a few pieces of wire equals summertime fun! (AA6DX). This was my first participation in any contest. I enjoyed it very much (7K2DOD).

This is my first time in this contest and I enjoyed it. I managed to work two new countries. My goal was to make 250 contacts and I was pleased when I did (N9MDW/SN6). The contest was excellent, with excellent conditions and excellent operators, but the W/VE turnout was poor. I love the 24-hour format! (N6EE). It was a nice contest, and I enjoyed it (RBSEL). This was only the second contest I've worked. It was definitely the best! I was able to make contacts with many countries (N1KFN). Thank you for an excellent contest! (LZ3FN). To me, the contest was certainly a challenge this year because prior to the contest, all of our antennas were destroyed during a June 19 storm, except for our 2-element 40-meter beam at 20 feet, fixed NE. I'll be back for the next IARU contest (N5CG). I used 100 watts and low dipoles. I want to thank the operators who pulled me out of the noise! It was a fun contest (KB1GW). Thank you for a nice contest (YL2GVW). The first two hours were great, then the amplifier broke! It was 2100Z before I was able to get it to work again. I found the low bands disappointing, but the 15- and 20-meter bands made up for it. Thanks to YJ8RN for the new multiplier and an all-time new one (KM6HD/5). This being my introduction to the IARU contest, I found it enjoyable! (NH6HF). Even with bad propagation, the contest turned out nice. I hope next year is better! (IK0HBN). It was a great contest with unexpectedly good band conditions. I waited too long to go to 40 meters. Where were all the multipliers? (NP2I). It was a good contest with much better conditions than last year, except activity on 10 meters was too low (PA0IJM). This is the first contest I've participated in, and it was great fun. This was also the first time I spent any time on 40 meters, which I found enjoyable (N7UJJ). Without the solar storms, propagation was better than last year (KE2IO). What else is there to do when the temperature is 110° F but work a contest! (WA0KDS). This was my best score ever! What more could a suburban ham ask for? CU next year (WB2K). The conditions were 10 times better than last year! The 15-meter band was great through the whole contest (NR1L). At last, Lady Luck smiled on me in this contest! The competition was enjoyable. Thanks a million! (UB5LCV). It was a good contest, and not a marathon. The 24-hour length suits me fine! (ZD8LII). Having a lot of QRM/QRN made for poor conditions (HA5LZ). The bands were better than last year, but there seemed to be less participation. CW was more productive (N5NMX). I'm 17 years old and this was my first contest (OE1MBB). It was a great contest! (DL2MEH). Thank you for a nice contest! If possible, I'll take part again next year (DL9MFL). After lightning had disabled most of the station, it was a challenge to get on the air.



Members of the Albanian Amateur Radio League activated ZA1A in Tirana as an IARU HQ station for the first time in this contest.



Sixth-place mixed-mode finisher Dmitry, UT5UGR, of Kiev, remarked, "Conditions were great this year and I can't wait to do it all over again."



Ivo, 5B4ADA, of Nicosia, Cyprus, sits in front of the 14-element log periodic that helped him to his second-place overall, CW-only finish.

Then, more thunderstorms came and a blown amp took us off again! Regardless, the young operators that we had performed well (WX3N, op at WX0X). As I'm getting older, I'm getting better (AE2N). It was a good contest! (UA1NDV). It was hard to participate in the contest, as it was a beautiful summer day! (WA0OUI). Let's hope this contest is as much fun when the sunspots go away! (K1TO). Did anyone else do better this year than last? This is what the IARU should be—fun, lots of contacts and great DX. I only wish I'd done more "sleep preparation" for the contest (N1HOQ). Graduate school has kept me away from the radio for almost two years. It was nice to dust off the rig and find the contest! (NZ3O). This was my first attempt in a foreign contest. I was glad I took part, as it was fun (JQ1OCR). I had a lot of fun with my window antenna! (DL1OO). We seldom have such good conditions. The only trouble was the QRM on the lower bands! (DL8PC). I didn't expect the 15-meter band to be so good! This year's score will be hard to beat (AD5Q). Propagation was good, but signals were weak! It was a pleasure to compete for the full 24 hours, and I enjoyed meeting new and old friends, using my usual ineffective hunt-and-pounce technique (VE1REC). It was an interesting contest! My special thanks to Rolf, PY1RO, and Sonia (YU1RL/ZY1R). I almost doubled last year's score (IG8R). This was our first contest where we worked as a team. We hope we'll do better next year (DL1RNH). It was difficult to run in the contest during Stampede Week in Calgary! (VE6SH). I've been an SWL for years. This is my first contest, as I've been licensed for only three weeks (GI0SAP). Propagation was excellent and the level of activity was good. I enjoyed it. (ON6TT). I get a lot of pleasure participating in this contest (ON6TJ). I found 10 meters nearly dead and 40-meter phone was too crowded. It was a nice contest, but I'm hoping for better conditions next



Well-known contest operator Jan, PA0IJM, led The Netherlands in the phone-only category. He claimed, "It was a good contest with much better conditions than last year."

year (DL0TO). As I was tired because of a university examination, I could only stay awake for 10 hours (LZ3YY). I found conditions on the 10-meter band poor. Next year, I hope to have a decent antenna, so watch out! (OZ2ZZZ). Thanks for a nice contest (4K5ZI). The conditions were good, which made this a good contest! (OK3ZBU).

## 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 the following: A = single operator, mixed mode; B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter.

Zone 1	Orange	KA7V	214,830	767	62	C	West Texas	AB1U	56,640	238	59	C
Alaska	WK6O W6HAL N6PEQ (+N6DEC)	75,899 61,364 406,010	261 278 1021	71 58 110	D	C	NR1L (+KA1QAS)	NR1L	56,425	1249	105	D
KL7Y	1,421,676	2432	138	A								
NL7HT	20,202	130	37	B								
KL7FAP	5,420	67	20	B								
Zone 2	Santa Barbara	K6XO W7HS	236,313 115,830	595 293	99	A	Colorado	NW1U	152,724	540	66	A
Alberta	WA6FGV W6BKY N6HK	86,871 29,392 16,071	351 199 117	69 44 33	C		N0Z	301,860	864	90	A	
VE6GEL	132,912	488	72	B			AD9O	290,826	730	107	A	
VE6SH	462	23	11	B			K1ER	35,319	151	61	A	
CJ6BF (VE6BF,op)	140,475	484	75	C			KD0NB	100,596	308	83	B	
British Columbia	N6IP AA6KX N6NF K6MJ	320,226 73,206 285,670 109,522	685 314 777	114 63 98	C		W9ZV	1,020,537	1459	167	C	
VE7JMN	57,171	337	51	B			WY0J	92,856	332	72	C	
VE7XO	47,992	200	56	B			AC0S	37,544	200	52	C	
VE7UF	109,230	399	66	C			N2C10 (+N0KR,NQ0I)	1,174,497	1713	173	D	
VE7EKS	248	20	4	C								
Zone 3	San Diego	KB7M	2,944	32	23	B	Iowa	KC0GM	120,572	326	86	B
Ontario	K16ZH KT6V KD6QK	374,270 5,736 45,708	735 73 229	130 32	A		W0PPF	30,784	183	48	B	
VE3TEE	1,666	27	17	A			NC0P (+N0AMI,W00V,WR0G)	703,647	1409	119	D	
VE3TPB	3,040	44	16	B								
Manitoba	AA6DX WW6D	47,304 19,950	274 169	54	C	Zone 7	K1PLX	241,680	563	106	B	
CJ4VV	449,955	1169	101	A		Louisiana	KC0VBM	120,572	326	86	B	
Zone 4	San Francisco	W5MW W5PLN WQ5W	37,630 136,068 933,910	184 386 1424	53	A	W0PPF	40,052	150	44	A	
Quebec	WB6SRM	31,263	187	51	A		W0NMR	40,188	212	51	A	
CJ2AWR	42,732	301	36	A			W0WF	34,200	184	50	C	
VE2WAT	63,950	301	50	C		North Texas	Iowa	120,572	326	86	B	
Ontario	N6WC WA6AUE	55,080 50,585 226,301	617 189 575	71 67 97	B		KC0VBM	30,784	183	48	B	
VE3ZD	41,344	160	64	B			NC0P	703,647	1409	119	D	
VE3WDJ	8,640	84	24	B		Zone 7	K1PLX	241,680	563	106	B	
VE3OMU	3,703	41	23	B		Louisiana	KD0HD	120,572	326	86	B	
VE3OBW	1,584	25	16	B			KB5DX	83,174	1487	138	A	
VE3KP	313,960	814	94	C			KA5DU	4,840	62	22	C	
VE3CWE	91,666	329	74	C		North Texas	KB5DX	120,572	326	86	B	
CJ3BR	390	16	5	C			W5MW	37,630	184	53	A	
Zone 6	San Joaquin Valley	N6WCW N6EE WW6O	55,080 50,585 226,301	617 189 575	71 67 97	B		W0PPF	30,784	183	48	B
East Bay	WB6CNU	120,232	422	76	C		WQ5W	93,910	1424	133	C	
Zone 4	Sacramento Valley	N6WR N7CIX	56,724 123,369	274 610	58 51	B		NC0P	703,647	1409	119	D
Quebec	AA6DX WW6D	47,304 19,950	274 169	54	C		South Texas	KC0VBM	120,572	326	86	B
CJ2AWR	42,732	301	36	A			W5PLN	111,020	478	65	A	
VE2WAT	63,950	301	50	C			WQ5W	305,286	797	102	B	
Ontario	N6WR WA6AUE	56,724 571,692	274 1073	58 132	B		KM6HD/5	286,832	818	91	C	
VE3ZD	41,344	160	64	B			NJ1V/5	85,547	304	77	C	
VE3WDJ	8,640	84	24	B			WA5IYX	74,905	2315	197	D	
VE3OMU	3,703	41	23	B			NA5Q	1,776,349	2315	197	D	
VE3OBW	1,584	25	16	B								
VE3KP	313,960	814	94	C		South Texas	WA5IYX	1,776,349	2315	197	D	
VE3CWE	91,666	329	74	C			WV5S	282,735	683	103	C	
CJ3BR	390	16	5	C								
Zone 6	Nevada	N7XCZ	288	12	8	B	South Texas	KG5YA	401,744	861	112	A
East Bay	WA7LNW	344,448	695	104	A		W5VX	674,520	1124	154	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			W5ASP	561,920	1102	128	B	
20,250	126	45	D				W5NRP	70,512	340	52	C	
Los Angeles	WA7USJ	235,586	747	82	A		N5NMX (+AA5BL,N5NMV)	21,360	164	40	C	
KU6T	14,288	100	38	A			W5NRP	21,360	164	40	C	
AB6FO	7,800	74	30	A			N5NMX	375,376	880	116	D	
Zone 6	Arizona	N7XJS	68,340	261	67	A		WQ5Y (+KE5QX,KF5NU,N5SEH, NZ5V)	138,067	356	101	D
East Bay	N7XJS	47,020	295	45	B		WQ5Y	138,067	356	101	D	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			KA1WIF	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KU6T	14,288	100	38	A			WQ5Y	185,944	541	88	C	
AB6FO	7,800	74	30	A			WQ5Y	185,944	541	88	C	
Zone 6	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
East Bay	WA7CXI	33,400	200	50	B		WQ5Y	185,944	541	88	C	
KK6XA (+KD6s AQB,JSC)	1,137,300	1812	150	A			WQ5Y	185,944	541	88	C	
20,250	126	45	D				WQ5Y	185,944	541	88	C	
Los Angeles	WA7CXI	33,400	200	50	B	</						

Southern New Jersey																			
K2PS	32,004	199	36	A	K8OBLT	123,597	371	93	A	ZY1R (YU1RL,op)	2,053,014	2099	201	C	FD1PCX	33,496	140	53	B
WA2LBT	25,300	154	46	A	PY2YN	11,496	99	24	C	FD1PXQ/P	31,008	186	51	B	DL7BQA/A	123,975	403	95	C
AB2E	504,150	1051	117	C	Illinois					FE6FNA	20,351	113	47	B	DL7CF	119,180	303	101	C
KC2TA	21,060	223	36	C	WX9U	570,696	1150	129	A	F2R0	19,320	301	42	B	Y23RJ	109,467	363	93	C
K2SWZ	17,472	111	42	C	WD9GGY	64,602	239	74	A	F5IN	293,433	843	89	C	Y25ZN	107,136	340	96	C
AE2N	11,466	125	26	C	W9LYA	66,882	258	71	B	F8CEL	118,690	550	55	C	Y29AG	105,450	326	95	C
WW2Y (+K2WI,N2NU)	891,323	1412	152	D	K9ZO	497,040	114	114	C	FD1RAB	8,220	92	30	C	DL1BUG	104,130	419	87	C
Western New York					N9AEJ	363,051	858	107	C	FD1ROP (+FD1s PGP,SIH)	445,018	1131	98	D	DK3GI	103,833	296	96	C
KD2YP	205,640	470	106	A	KB9BIB	142,560	688	54	C	FF5OJ (FD1s REM,RRX,ops)	91,432	301	88	D	DL2GBB	103,833	340	83	C
KB2DE	37,526	157	58	B	K9MMS	131,040	428	80	C	Zone 18					DL3HWD	86,800	303	100	C
KB4VL	28,392	150	42	B	W9EBY	8,547	57	37	C	Norway					DL6RDE	76,860	355	50	C
KB2NMV	13,176	94	36	B	K9FD (K9BGL,KC9AL,NB9T,					DL1TH	72,890	265	74	C					
KW2J	147,186	448	78	C	NZ9V,ops)	786,891	1245	159	D	DL9MFL	61,548	298	69	C					
WA2EYA	79,945	367	59	C	K9SD (WW9L,WW9Q,KA0GGI,KW0A,					DL3OBE	55,296	256	64	C					
W2OMV	40,100	175	50	C	ND0F,W0HBH,ops)	646,410	1130	145	D	DL8SCG	43,930	289	68	C					
Delaware					N9LCR (+N9NMC)	126,906	431	78	D	DL1OO	40,464	172	72	C					
NX3A	106,760	320	85	A	Zone 9					DK0NW (DL1ZQ,op)					DK0NW				
Eastern Pennsylvania					Indiana					Aland Island					37,434	213	51	C	
K3WV	1,150,876	1874	149	A	KF9CX	16,800	86	48	A	G0AEV	290,250	642	129	A	DJ5GG	28,872	222	51	C
W3BGN	113,700	445	60	A	KB0C	74,151	287	63	B	G0KTN	38,430	172	61	B	Y2XO	27,391	214	49	C
KA3ZJZ	6,380	88	22	A	W9JOO	24,228	210	36	C	G3ICG	14,980	124	35	B	DK8KC	27,384	177	56	C
NZ3O	1,056	23	12	A	Wisconsin					G3FBX	1,121,400	1575	168	C	DL2RUG	25,900	175	50	C
KA3QLF	35,316	166	54	B	NE8J	71,391	326	53	A	G3FSF	172,588	438	106	C	DL6KWN	24,978	278	46	C
KZ2PG	12,685	81	43	B	K9OSH	40,250	199	46	A	G3DFV	114,057	535	87	C	Y26FI	21,784	98	52	C
KL7HIR	224,010	620	95	C	W9HE	91,884	281	76	C	G3TXF	104,648	310	103	C	DL3KWR	16,992	111	48	C
WF3L	118,523	425	67	C	N9X	27,864	152	54	C	G3UJF	19,680	234	24	C	DL9QD	14,212	109	44	C
WF3M	110,636	375	68	C	Zone 10					GB4DX (G4BWBP,G5L,P,ops)	1,688,487	2187	197	D	DJ0SH	13,992	170	33	C
WG3T	10,323	60	37	C	Maritime-Newfoundland					G0FDX (G1AHM,G0s GVA,IDE,LBT, NEI,ops)	384,443	1007	109	D	DL1DQY	6,600	67	24	C
N3CZB	930	33	10	C	VY2SS	568,242	1343	102	A	G0NKL (G0s FOD,LK1,MP1,MPJ, OpD,ops)	144,875	393	95	D	Y52XB	5,940	58	30	C
KD3TB (+NET)	63,360	248	66	D	VE1REC	40,464	252	36	B	G4MSME/P (G4WJR,G0s LAK, NEB,ops)	91,350	396	75	D	DJ6BN	4,324	72	23	C
Maryland-DC					Y0FHU/VE1	49,608	544	24	C	G3LRS (G3HYH,G4OOS,G0ATR,ops)	5,842	66	23	D	DL2VLA	4,080	52	24	C
NF3X	10,600	60	53	A	Zone 11					DJ3QN	4,002	56	23	C	DJ5EN	3,925	75	25	C
WA2VU/J3	767	13	13	B	XE1/VE1	568,242	1343	102	A	DJ9GW	3,516	119	12	C	DJ2VLT	4,249	15	13	C
WZ3O	557,100	1293	100	C	W9F	794,770	2092	89	D	DJ8WOW	261	25	9	C	DJ1YE	2,856	60	21	C
W3GG	195,160	658	70	C	Zone 12					DJ6UCI	1,173	49	17	C	DJ3KWF	1,429	15	13	C
K3ID (+NET)	40,535	193	55	D	Martinez					DJ0VLT	280	12	10	C	DJ0VLT	280	12	10	C
Western Pennsylvania					KF9CX	16,800	86	48	A	DJ6WOW	261	25	9	C	DJ1ZP	1,173	49	17	C
K5ZD	316,350	700	111	A	KO1APA	59,100	330	50	A	Denmark					DJ1QQ (+DL3OB,LB1OB,DL9AW)	997,360	1763	137	D
WM3S	23,092	122	46	A	KZ5EV	15,855	122	35	A	GM0ECO	1,065,991	1805	139	B	DJ0BP (DH0KD,D1VDA,27PG, Y43V,ops)	678,016	1331	128	D
W3YEY	12,620	155	37	B	XE2GV	17,978	199	23	B	GM3BCS	48,825	330	31	B	DJ0VGM (Y22AA,DL4SV4,DTJET, DK7KS,DL7SGW,ops)	530,007	1037	123	D
WB9IWG	234	11	6	B	Zone 13					GM3CTS	154,752	403	90	C	DJ0GYB (DL1RNH,DL2HSI,DL3HOC, DL6HN,ops)	423,728	900	142	D
Alabama					Guam					GM0ECA	1,217,610	1886	163	D	DJ0GYB (PA3BBP,ERC,EWC,ops)	5,544	60	24	D
KK4SM	132,430	318	95	C	Zone 14					GM0ECA	12,083	83	43	A	Hungary				
Georgia					Antigua and Barbuda					GM0ECA	1,175,850	1821	150	A	HA0MM	2,274,024	2340	26	A
K4PIC	55,118	266	82	A	VF5CW	124,677	480	63	C	GM0ECA	29,184	175	57	B	HA5AGS	440,724	1061	114	A
KD3GC	79,994	323	74	B	VH2PK	581,970	1558	95	B	GM0ECA	1,651	35	13	B	HA5NG	235,379	613	113	A
KB9G	829,184	1595	128	C	St Maarten, Saba, St Eustatius					GM0ECA	173,700	473	100	C	HA5KDB	428,928	972	128	B
KB4GID	324,900	802	114	C	HI3UNE (HI3AMF,ops)	59,850	475	42	B	GM0ECA	63,558	250	66	C	HA7RC	28,908	161	44	B
K4BAI	64,782	276	61	C	Zone 15					GM0ECA	17,672	20,115	141	C	HA7TM	260,245	909	73	C
Kentucky					Guatemala					GM0ECA	549,854	1071	122	D	HA5LZ	203,934	468	123	C
N4XM	93,708	335	76	C	Costa Rica					GM0ECA	54,428	321	39	C	HA8FY	54,428	321	39	C
North Carolina					KP4GY (+KP4s BZ,TB,TN)					GM0ECA	1,217,610	1886	163	D	HG1S (HA1s AH,DA,DAE,TD,TJ, TW,ops)	3,214,827	3804	231	D
N4AA	208,428	750	83	A	VH2JB (W0UN,op)	38,850	261	42	A	GM0ECA	957,768	802	42	C	HG8Y (HA8s KNW,NW,OA,OB,OI,OO, OY,YW,ops)	659,572	1657	106	D
N4UH	536,507	1281	97	B	Zone 16					GM0ECA	9,480	94	16	C	HA8KCK (HA8s DT,DZ,EK,FT,FW, KH,ops)	615,072	1318	129	D
N4YDU	87,230	400	55	C	TG9AJR	115,039	497	67	B	Zone 17					HA3KHC (+ops)				
N4PB	21,070	126	49	C	Costa Rica					GM0ECA	1,217,610	1886	163	D	HA0KLW (+ops)	29,736	162	56	D
Northern Florida					TE1T (TI4SU,op)	155,526	572	69	C	Zone 18					Switzerland				
K4XS (WC4E,op)	960,644	1824	137	B	VF5FX (FE1MGZ,op)	38,098	271	34	C	Zone 19					HB9AA	354,081	924	91	B
K4VUD	398,820	924	115	B	YF5FX (FE1MGZ,op)	27,098	161	34	C	Zone 20					HB9DX	123,152	424	86	C
K4YZ	50,447	261	61	C	Zone 21					Zone 20					HB9AP	20,748	124	42	C
South Carolina					French Guiana					Asiatic Russia					Italy				
KC4UH	48,048	206	84	B	FY5FX (FE1MGZ,op)	27,098	161	34	C	R9X (UA9s XFY,XLZ,XMC,ops)	501,710	1581	110	D	IG8R	807,946	1438	167	A
WB4TDH	402,591	711	133	C	Zone 22					EX9X (UA9s XC,XFR,ops)	103,200	399	96	D	9A2EY	4,480	94	16	C
WD4AH	378,566	791	122	C	Zone 23					Zone 22					9A1CCY (9A3NM,op)	957,768	802	42	C
Tennessee					Zone 24					Asiatic Russia					9A1CRT (9A2s DQ,HQ,LU,JP,MQ,NO, 9A3MQ,ops)	1,217,610	1886	163	D
AA4NU	331,315	765	115	B	Zone 25					R9X (UA9s XFY,XLZ,XMC,ops)	501,710	1581	110	D	9A2EY	4,480	94	16	C
KE2JO	122,724	365	84	B	Zone 26					EX9X (UA9s XC,XFR,ops)	103,200	399	96	D	9A1CRT (9A2s DQ,HQ,LU,JP,MQ,NO, 9A3MQ,ops)	1,217,610	1886	163	D
KA4IWG	85,342	286	71	B	Zone 27					Zone 26					9A2EY	4,480	94	16	C
K52X	55,605	259	55	B	Zone 28					Asiatic Russia					9A1CRT (9A2s DQ,HQ,LU,JP,MQ,NO, 9A3MQ,ops)	1,217,610	1886	163	D
W4OGG	6,532	46	14	B	Zone 29					Asiatic Russia					9A1CRT (9A2s DQ,HQ,LU,JP,MQ,NO, 9A3MQ,ops)	1,217,610	1886	163	D
K4LTA	163,939	611	71	C	Zone 30					Asiatic Russia					9A1CRT (9A2s DQ,HQ,LU,JP,MQ,NO, 9A3MQ,ops)	1,217,610	1886	163	D
Virginia																			

<b>Czechoslovakia</b>	<b>Kaliningrad</b>	<b>Moldova</b>	<b>Cyprus</b>	<b>SZ4BJ</b>
OK1FKV 164,424 508 102 A OK1KZ 162,450 502 95 A OK3CDZ 102,226 395 79 A OK1FSM 85,000 324 85 A OK3TEG 77,024 312 83 A OK3IA 72,890 279 74 A OK1FAU 30,316 154 53 A OK1BB 22,260 192 35 A OK3TZW 203,516 557 83 B OK3CTA 15,300 142 36 B OK1ARN 252,880 707 109 C OK1VD 247,832 612 104 C OK1MNW 146,475 416 105 C OK3CEL 111,693 349 93 C OK3GB 102,261 311 89 C OK2H1 84,448 341 91 C OK3CCC 64,870 260 65 C OK3CAB 47,400 298 50 C OK2BNX 37,392 258 38 C OK3TAY 30,750 191 50 C OK3CDN 24,050 189 50 C OK3CWF 16,512 207 48 C OK3ZBU 14,292 100 36 C OK2PWA 14,288 127 38 C OK1FRG 9,352 106 28 C OK3TUM 2,028 77 12 C OK1AUO 1,812 45 12 C OK2PBG 1,484 28 14 C OK3WST 180 29 4 C OL1A (OK1s DQW,DWX,FCW, FIA, FUA,HH,ops) 1,090,431 1865 153 D OK2KMR (+OK2M) 47,100 219 50 D	UA2FBR 367,895 292 55 B <b>European Russia</b> UA3RAR 1,293,872 1547 193 A UX3D (UA3DPX,op) 503,040 1149 131 A RA6LW 204,323 581 101 A RA3RFH 93,996 436 63 A RA3VA 44,988 268 46 A UA1TAN 111,804 382 84 A UA6LP 45,084 210 51 A UA1TFG 31,204 150 58 A UA3GM 16,384 106 32 A UA3SBW 12,308 117 34 A UX6B 1,239,087 1992 159 B RU6Y/RW9AB 221,312 646 112 B UA4NC 162,800 515 100 B UA4LJ 151,308 511 81 B UA6BPJ 116,544 372 96 B UV3DCR 53,444 341 62 B RA3SJ 37,950 203 50 B RA3DNC 16,832 149 32 B UA4SDT 16,523 191 31 B EX3A (UW3AA,op) 876,860 1417 170 C UA6HPW 574,126 994 161 C UA1AUA 376,540 782 134 C RA4HX 216,910 526 108 C RA3PP 194,900 577 100 C UA4AHA 120,105 482 85 C RA3NB 109,716 393 82 C RA3RN 103,840 287 110 C UW6LY 80,585 334 71 C UW3DW 60,720 324 55 C RW3OA 40,848 253 48 C UA3VRP 32,832 228 46 C UA3ABN 31,950 179 50 C UA4QK 25,476 160 44 C UA1ANA 22,950 105 54 C RA6YJ 20,306 76 71 C UA3TAG 20,132 215 26 C UW3DRU 19,659 112 33 C UA3TU 18,352 74 74 C UA3ATM 15,708 156 28 C UW6AOB 14,280 190 28 C UA4AO 10,395 87 55 C UA3MIF 7,666 150 18 C UA3SDN 4,759 79 33 C EZ8L (UA6s LO,UB5s IBG,ITW, UW6PL,UAE-150-1103,UA6-150- 1403,ops) 2,116,980 2490 228 D UZ6HWA (UA6HSV,UV6HTV,ops) 238,396 667 107 D UZ3PWJ (UA3s PLS,PNP,ops) 186,224 555 113 D UZ3WWO (RA3s WCG,WFZ, UA3-135-665,ops) 57,792 295 64 D UZ3DZD (RV3DA,UA3-142-1869,ops) 56,128 273 64 D	UO5ON 130,891 491 83 A UO5OA 90,240 334 60 C <b>Latvia</b> YL2KO 571,020 1190 124 A YL2SM 300,903 1240 57 A YL2EC 113,176 336 94 C YL2GN (+ops) 204,660 778 90 D	5B4ADA 1,601,600 2326 143 C C40R (5B4s ACY,WN,ops) 724,980 2531 119 D	5Z4BJ 17,255 109 35 B 5Z4TT 324,750 970 67 C
<b>Zone 50</b>	<b>Lebanon</b>	<b>Zone 41</b>	<b>Zone 53</b>	<b>Zone 54</b>
<b>Philippines</b>	OD5/SP1MHV 43,552 287 32 A	VU2NB (AA4U,op) 481,869 1268 81 C VU2UR 22,645 153 47 C	DU3HF 81,450 336 50 C	Papua New Guinea P29DX 801,600 1392 120 B
<b>Zone 51</b>	<b>Malawi</b>	<b>Zone 44</b>	<b>Zone 55</b>	<b>Indonesia</b>
<b>Zone 52</b>	7Q7XX 36,374 285 26 A	<b>China</b> BZ4DJW 38,827 255 41 B	<b>Australia</b> VK8AV 146,124 390 81 C VK4TT 12,954 164 17 C	YB3ASQ 111,825 371 63 A YC7BVY 22,755 133 37 B YB3OSE 43,549 243 37 C YB2FEA 21,867 123 37 C YB6ZZ (YC6MLU,op) 10,168 328 31 C
<b>Zone 53</b>	<b>Zimbabwe</b>	<b>Korea</b> HLSBUV 8,856 89 24 B HL8K (HL1AXX,HL2IND,HL3EAT, HL4CGI,ops) 78,986 249 73 D	<b>Zone 54</b>	<b>Zone 55</b>
<b>Zone 54</b>	<b>Turkmenistan</b>	<b>Zone 45</b>	<b>Australia</b>	YB3ASQ 111,825 371 63 A YC7BVY 22,755 133 37 B YB3OSE 43,549 243 37 C YB2FEA 21,867 123 37 C YB6ZZ (YC6MLU,op) 10,168 328 31 C
<b>Zone 55</b>	<b>Uzbekistan</b>	<b>Japan</b> JH7PKU 857,450 1643 110 A JH4UHW 500,500 1068 100 A JR4GPA 238,637 695 73 A JA6BIF 184,705 467 85 A JA1KV7 150,689 427 77 A JO1QNTG 143,665 519 59 A JR3NZC 79,662 354 51 A JA1BUI 70,756 229 76 A JA9YAV 48,906 200 57 A JA1LMI 23,562 152 33 A JA3JOT 17,070 129 30 A J17OED 16,120 99 40 A JG1IRD 10,428 68 33 A JM1NKT 8,060 70 26 A JA6QDU 4,788 56 19 A JA2QVP 2,508 30 19 A JA3WFQ 128 8 4 A JA9BEW 180,312 855 44 A JA3LDH 102,737 313 71 A JH7QXJ 83,946 345 51 A JH1UUT 82,215 281 83 B JA4DUD 54,114 209 58 B JA1LDRX 38,136 208 42 B JR7LVK 16,128 104 36 B JA9BHQ 15,981 158 21 B JA2AD 13,760 100 32 B JM1LAW 13,440 100 32 B JH2WHS 11,129 87 31 B JA4DHN 8,680 65 31 B JA1ASO 6,435 47 33 B JA9GHC 5,825 51 25 B JA2BEY 5,319 47 27 B	<b>Zone 56</b>	<b>Zone 59</b>
<b>Zone 56</b>	<b>Kazakhstan</b>	<b>Mongolia</b> UL7BN 89,838 317 62 C UL8BWO (UL6s BAB,YBG,GX, UL7-016-566,ops) 263,952 758 78 A UL7BN 89,838 317 62 C UL8BWO (UL6s BAB,YBG,GX, UL7-016-566,ops) 263,952 758 78 A	<b>Australia</b>	<b>Australia</b>
<b>Zone 57</b>	<b>Kirghizia</b>	<b>Zone 31</b>	VK8AV 146,124 390 81 C VK4TT 12,954 164 17 C	VK6AJ 109,311 277 83 C VK6BWI 1,188 24 11 C VK6ANC (VK6s JIP,TKR,TVA,ops) 93,692 276 59 D
<b>Zone 58</b>	<b>Zone 32</b>	<b>Asiatic Russia</b> UM8MIG 83,884 268 67 B	<b>Zone 58</b>	<b>Zone 60</b>
<b>Zone 59</b>	<b>Kazakhstan</b>	<b>Asiatic Russia</b> UA9OA 639,600 1110 123 C RA9HO 24,540 103 60 C	<b>Australia</b>	<b>New Zealand</b>
<b>Zone 60</b>	<b>Mongolia</b>	<b>Kazakhstan</b>	VK6AJ 109,311 277 83 C VK6BWI 1,188 24 11 C VK6ANC (VK6s JIP,TKR,TVA,ops) 93,692 276 59 D	ZL2AGY 46,736 212 46 C ZL1AI2 41,646 139 66 C
<b>Zone 61</b>	<b>Mongolia</b>	<b>Zone 32</b>	<b>Zone 61</b>	<b>Hawaiian Islands</b>
<b>Zone 62</b>	<b>Ukraine</b>	<b>Mongolia</b>	<b>Midway Island</b>	WV7T/KH6 49,532 182 58 A NH6HF 2,372 123 34 A AH6JF 139,520 446 64 C NH6DV 6,153 61 21 C WH6BC (+AH6s LO,LV) 260,148 928 57 D
<b>Zone 63</b>	<b>Asiatic Russia</b>	<b>Zone 33</b>	<b>Zone 62</b>	<b>Hawaiian Islands</b>
<b>Zone 64</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b> UA0UAG 90,709 307 71 C UA0DM 46,475 227 55 C	<b>Zone 63</b>	<b>WV7T/KH6 49,532 182 58 A NH6HF 2,372 123 34 A AH6JF 139,520 446 64 C NH6DV 6,153 61 21 C WH6BC (+AH6s LO,LV) 260,148 928 57 D</b>
<b>Zone 65</b>	<b>Asiatic Russia</b>	<b>Zone 34</b>	<b>French Polynesia</b>	<b>Zone 64</b>
<b>Zone 66</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	F05IW 510,600 1050 100 B FO0FR (WB6RZK,op) 54,600 372 30 B	<b>Guam</b>
<b>Zone 67</b>	<b>Asiatic Russia</b>	<b>Zone 34</b>	<b>Zone 65</b>	<b>Federal States of Micronesia</b>
<b>Zone 68</b>	<b>Asiatic Russia</b>	<b>Zone 35</b>	V63GM 26,048 240 22 B	<b>Zone 66</b>
<b>Zone 69</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 66</b>	<b>Ascension Island</b>
<b>Zone 70</b>	<b>Ukraine</b>	<b>Asiatic Russia</b>	ZD8LII 1,037,088 2014 104 C	<b>Checklogs</b>
<b>Zone 71</b>	<b>Asiatic Russia</b>	<b>Zone 36</b>	AM1FDI, AM5BZS, AM5DIT, AM5FXS, AM8BXO, CO2GB, CT1DJZ, DF5WN, DL1RPR, DL2HWI, DL5LRA, DL6API, DL7UEO, HF0POL, IK3SCB, JR1XKU, K1TN, K6FM, KA9INX, LA1IE, LA7IJ, LU3HIP, LU8HCE, LZ3BS, NW1A, OD5EH, OE1BB, OG6MIL, OH6NH, OK3TOX, ON5FV, OX32M, OZ5PA, PA0TV, PA0UV, PT2PN, PY2NER, PY3CJ1, RA1AI, RA3ZM, RA4HKS, RA4LAH, RA6JP, RB8XW, SM0CSX/ 4, SM0NJO, SM2NTU, SM3MQF, SM4BNC, SM5BBS, SM7MHG, SM8BDS, SP1AAQ, SP1BLE, SP1DMD, SP2AHD, SP2EQZ, SP4CMW, SP5NQG, SP6AU1, SP6CZ, UA1NDX, UA3DF, UA4ASE, UA4NC1, UA4ZA, UA6ZB, UB4MQV, UB5XAN, UB5WAN, UB3SCB, UN3VU, UZ3ZK, VE1RJ, WA1QGC, Y24OA, Y26SW, Y28VN, Y32BM, Y53YN, YB9KP, YC0GPB, YO5CU, YO6LV, YO7KJS, YO8FR, ZA1M.	AM1FDI, AM5BZS, AM5DIT, AM5FXS, AM8BXO, CO2GB, CT1DJZ, DF5WN, DL1RPR, DL2HWI, DL5LRA, DL6API, DL7UEO, HF0POL, IK3SCB, JR1XKU, K1TN, K6FM, KA9INX, LA1IE, LA7IJ, LU3HIP, LU8HCE, LZ3BS, NW1A, OD5EH, OE1BB, OG6MIL, OH6NH, OK3TOX, ON5FV, OX32M, OZ5PA, PA0TV, PA0UV, PT2PN, PY2NER, PY3CJ1, RA1AI, RA3ZM, RA4HKS, RA4LAH, RA6JP, RB8XW, SM0CSX/ 4, SM0NJO, SM2NTU, SM3MQF, SM4BNC, SM5BBS, SM7MHG, SM8BDS, SP1AAQ, SP1BLE, SP1DMD, SP2AHD, SP2EQZ, SP4CMW, SP5NQG, SP6AU1, SP6CZ, UA1NDX, UA3DF, UA4ASE, UA4NC1, UA4ZA, UA6ZB, UB4MQV, UB5XAN, UB5WAN, UB3SCB, UN3VU, UZ3ZK, VE1RJ, WA1QGC, Y24OA, Y26SW, Y28VN, Y32BM, Y53YN, YB9KP, YC0GPB, YO5CU, YO6LV, YO7KJS, YO8FR, ZA1M.
<b>Zone 72</b>	<b>Asiatic Russia</b>	<b>Zone 37</b>	<b>Zone 67</b>	<b>Checklogs</b>
<b>Zone 73</b>	<b>Portugal</b>	<b>Zone 36</b>	<b>Zone 68</b>	<b>Zone 68</b>
<b>Zone 74</b>	<b>Canary Islands</b>	<b>Portugal</b>	<b>Zone 69</b>	<b>Zone 69</b>
<b>Zone 75</b>	<b>Egypt</b>	<b>Canary Islands</b>	<b>Zone 70</b>	<b>Zone 70</b>
<b>Zone 76</b>	<b>Asiatic Russia</b>	<b>Egypt</b>	<b>Zone 71</b>	<b>Zone 71</b>
<b>Zone 77</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 72</b>	<b>Zone 72</b>
<b>Zone 78</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 73</b>	<b>Zone 73</b>
<b>Zone 79</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 74</b>	<b>Zone 74</b>
<b>Zone 80</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 75</b>	<b>Zone 75</b>
<b>Zone 81</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 76</b>	<b>Zone 76</b>
<b>Zone 82</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 77</b>	<b>Zone 77</b>
<b>Zone 83</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 78</b>	<b>Zone 78</b>
<b>Zone 84</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 79</b>	<b>Zone 79</b>
<b>Zone 85</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 80</b>	<b>Zone 80</b>
<b>Zone 86</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 81</b>	<b>Zone 81</b>
<b>Zone 87</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 82</b>	<b>Zone 82</b>
<b>Zone 88</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 83</b>	<b>Zone 83</b>
<b>Zone 89</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 84</b>	<b>Zone 84</b>
<b>Zone 90</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 85</b>	<b>Zone 85</b>
<b>Zone 91</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 86</b>	<b>Zone 86</b>
<b>Zone 92</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 87</b>	<b>Zone 87</b>
<b>Zone 93</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 88</b>	<b>Zone 88</b>
<b>Zone 94</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 89</b>	<b>Zone 89</b>
<b>Zone 95</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 90</b>	<b>Zone 90</b>
<b>Zone 96</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 91</b>	<b>Zone 91</b>
<b>Zone 97</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 92</b>	<b>Zone 92</b>
<b>Zone 98</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 93</b>	<b>Zone 93</b>
<b>Zone 99</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 94</b>	<b>Zone 94</b>
<b>Zone 100</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 95</b>	<b>Zone 95</b>
<b>Zone 101</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 96</b>	<b>Zone 96</b>
<b>Zone 102</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 97</b>	<b>Zone 97</b>
<b>Zone 103</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 98</b>	<b>Zone 98</b>
<b>Zone 104</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 99</b>	<b>Zone 99</b>
<b>Zone 105</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 100</b>	<b>Zone 100</b>
<b>Zone 106</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 101</b>	<b>Zone 101</b>
<b>Zone 107</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 102</b>	<b>Zone 102</b>
<b>Zone 108</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 103</b>	<b>Zone 103</b>
<b>Zone 109</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 104</b>	<b>Zone 104</b>
<b>Zone 110</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 105</b>	<b>Zone 105</b>
<b>Zone 111</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 106</b>	<b>Zone 106</b>
<b>Zone 112</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 107</b>	<b>Zone 107</b>
<b>Zone 113</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 108</b>	<b>Zone 108</b>
<b>Zone 114</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 109</b>	<b>Zone 109</b>
<b>Zone 115</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 110</b>	<b>Zone 110</b>
<b>Zone 116</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 111</b>	<b>Zone 111</b>
<b>Zone 117</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 112</b>	<b>Zone 112</b>
<b>Zone 118</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 113</b>	<b>Zone 113</b>
<b>Zone 119</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 114</b>	<b>Zone 114</b>
<b>Zone 120</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 115</b>	<b>Zone 115</b>
<b>Zone 121</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 116</b>	<b>Zone 116</b>
<b>Zone 122</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 117</b>	<b>Zone 117</b>
<b>Zone 123</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 118</b>	<b>Zone 118</b>
<b>Zone 124</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 119</b>	<b>Zone 119</b>
<b>Zone 125</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 120</b>	<b>Zone 120</b>
<b>Zone 126</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 121</b>	<b>Zone 121</b>
<b>Zone 127</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 122</b>	<b>Zone 122</b>
<b>Zone 128</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 123</b>	<b>Zone 123</b>
<b>Zone 129</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 124</b>	<b>Zone 124</b>
<b>Zone 130</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 125</b>	<b>Zone 125</b>
<b>Zone 131</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 126</b>	<b>Zone 126</b>
<b>Zone 132</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 127</b>	<b>Zone 127</b>
<b>Zone 133</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 128</b>	<b>Zone 128</b>
<b>Zone 134</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 129</b>	<b>Zone 129</b>
<b>Zone 135</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 130</b>	<b>Zone 130</b>
<b>Zone 136</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 131</b>	<b>Zone 131</b>
<b>Zone 137</b>	<b>Asiatic Russia</b>	<b>Asiatic Russia</b>	<b>Zone 132</b>	<b>Zone </b>