

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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There 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,ND,NF,NQ,ON,OQ,VH,VR,VX,WP, WX,ZQ,HA7RY,HA0s DU,HG,LC,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,DL6FRL, DL8WAA,Y21CW,Y23EK,Y32VK,Y33s UL,VL,Y42s IK,LK,MK,OK,Y54NL,Y57UG,Y77VH,ops)	9,751,980	10813	294
YPOA (YO2BV,YO3s APJ,AWT,FU,JF,YO4s ATW,BEX, HW,NF,SI,XF,YO6AWR,YO8s AXP,BAM,CMB,YO9s BEI,FE,HP,ops)	4,813,042	6421	247
ZA1A (DF3CB,KC6KOU,OH1MKT,OH2s BH,BSI, OH6EL,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	8067	195
W1AW (N1CC,K2WR,KR2J,N2KW,WB2DIN,K3IPK, N3ADC,WN3K,ops)	2,188,480	4652	160
GB4HQ (G0HSO,op)/GB5HQ (G3OZF,op)/GB8HQ (G0MFO,op)	1,729,760	3220	160
SK3HQ (SM3s BDZ,CER,DMP,RAB)	1,503,212	2670	158
OT2Q (ON4s ACG,KAR,VT,XG,ON5WL,ON8s 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
JA3JRL (JA3MAU,JG3RPL,JI3SERV,JJ3WPF,JN3s QLL, VOG,JG3OZY,JR4ISF,ops)	714,816	1406	153
OGC (N6HR,op)	517,854	1289	102
TU2CI (TU2OP,TU2XZ,TU4EF,ops)	512,475	1375	75
LA7HQ (LA4s OFA,YW,ops)	403,798	1273	101
OE1XHQ (OE1s MCU,TKW,ops)	313,320	703	120
SV1SV (SV1s AHV,AOZ,BDO,BKE,MF,ON,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 (Y24AO). This was the first time we used a linear amplifier. It arrived the day before the contest (SB4ACY). 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 (YOSBC). 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
HA9MM	2,274,024	ZY1R	(YU1RL,op) 2,053,014
KI7Y	1,421,676	SB4ADA	1,601,600
UA3RAR	1,293,872	CG8M	(CT1BOH,op) 1,492,590
UT4AUZ	1,275,092	K1TO	1,164,670
RT9I		G3FXB	1,121,400
(RB5IM,op)	1,239,480	EX0S	
UT5UGR	1,209,274	(UA0SAU,op) 1,101,168	
YU7AV	1,157,518	ZD8LII	1,037,088
KW3W	1,150,876	W0ZV	1,020,537
AI7B	1,137,300	9A1CCY	
OG6NIO	1,098,495	(9A3NM,op) 957,768	
		WQSW	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	RY6Q	2,932,440
GM0EKO	1,065,991	4K5ZI	2,711,520
5Z4BI	1,033,965	EZ6L	2,116,980
DL8PC	1,013,595	R9J	1,962,584
YU3HR	981,935	KA5W	1,776,349
K4XS		GB4DX	1,688,487
(WC4E,op)	960,644	9A1CRT	1,217,610
Y23A		WB3JWW	1,189,377
(YZ3EA,op)	934,768		
WB2K	891,648		

Top W/VE Scores

Mixed

Call	Score	Call	Score
K3WW	1,150,876	K1TO	1,164,670
AI7B	1,137,300	W0ZV	1,020,537
KZ5D	831,174	WQSW	933,910
(NZ4K,op)	802,961	KB0G	829,184
WXGU	570,696	W1WEF	798,956
VY2SS	568,242	K1SY	774,400
W1GD	487,320	N6TR	732,814
C4JVV	449,955	AD5Q	688,250
KN1M	441,843	K5RC	
KG5YA	401,744	(K5GN,op)	674,520
		WA6AUE	571,692

Phone

Call	Score	Call	Score
K4XS		KA5W	1,776,349
(WC4E,op)	960,644	W1C/8	1,174,497
WB2K	891,648	WV2Y	991,328
WB5NXH	768,222	K9FD	786,891
N4UH	536,507	NC0P	703,647
NT1HQ	403,624	K9SD	646,410
K4VUD	398,820	WX0X	643,200
AA4NU	331,315	KS1A	574,902
KM6HD/5	305,286	NR1L	565,425
N6WLX/8	303,696	W8IQ	547,200
W8KKF	266,196		



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

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 (RB5EL). 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 2:00Z 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 (PA0JM). 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 (KE2JO). 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.



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 (NIHQ). 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 QRN 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 competitor 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

Alaska

Zone 2

Alberta

British Columbia

Zone 3

Ontario

Manitoba

Zone 4

Quebec

Ontario

Zone 5

East Bay

Los Angeles

Orange

Santa Barbara

Santa Clara Valley

Wyoming

Zone 7

Louisiana

San Francisco

North Texas

Mississippi

San Joaquin Valley

South Texas

Oklahoma

Sacramento Valley

Nebraska

Missouri

Nevada

South Dakota

Connecticut

Zone 8

NYC-Long Island

Northern New Jersey

Western Massachusetts

New York

Eastern Massachusetts

Rhode Island

Vermont

Western Massachusetts

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Southern New Jersey															
K2P5S	32,004	199	36	A	K8OQL	123,587	371	93	A	ZY1R (YU1RL,op)	2,053,014	2098	201	C	
WA2LBT	25,300	154	46	B	PY2YN	11,496	99	24	C	ED1PCX	33,496	140	53	B	
AB2E	504,153	1051	117	C	Illinois					FD1PKO/P	31,008	186	51	B	
KC2TA	21,060	223	36	C	WX9U	570,896	1150	129	A	DL7CF	119,180	309	101	C	
K2SWZ	17,472	111	42	C	WD9GGY	64,602	239	74	A	Y23FNA	20,351	113	47	B	
AE2N	11,466	125	26	C	W9LYA	66,882	258	71	B	F2R0	19,320	301	42	B	
WW2Y (+K2WL/N2NU)	891,328	1412	152	D	K9ZO	497,040	1114	114	C	Y25ZN	107,138	340	96	C	
K9AEJ	363,051	858	107	C	LA1K (LA1BFA,op)	229,500	834	75	A	Y29AG	105,450	326	95	C	
K9BBB	142,560	688	54	C	LA2AD	93,102	178	54	B	DL1BUG	104,139	419	87	C	
K9MMS	131,040	428	80	C	LA6ZFA	17,630	126	43	B	DK3GI	103,872	296	96	C	
K9UQN	10,962	96	27	C	LA6VDA	13,776	94	28	B	DL2GBB	103,833	340	83	C	
W9EBY	8,547	57	37	C	LA9CX	42,147	379	109	C	DL3HWD	86,800	303	100	C	
K9FD (K9BGL,K9AL,N9T)					LA6CF	41,883	348	69	C	DL6RDE	76,860	355	60	C	
K2B2NMV	13,176	94	36	B	NZ9V,ops)	786,891	1245	159	D	DL1TH	72,890	285	74	C	
KV2J	147,186	448	78	C	K9SD (WW9L,WW9K,KAGGG,KW0A,	26,596	193	29	B	DL8MF1	61,548	298	69	C	
WA2EYA	79,945	367	59	C	LA2HFA	13,156	117	26	C	DL3OBE	55,298	256	64	C	
W2OMV	40,100	175	50	C	N9EJ	646,410	1130	145	D	DL8SCG	43,930	289	68	C	
Western New York					N9LRC (+N9NMC)	126,906	431	78	D	DL1OQ	40,464	192	92	C	
NX3A	106,760	320	85	A	OH1MTT/H0	384	22	6	B	DK8NW (DL1ZQ,op)	37,434	213	51	C	
Eastern Pennsylvania					Indiana	1,098,495	1859	135	A	DJ5SG	28,872	222	51	C	
K3WN	1,150,876	1874	149	A	OIG9M (OH3MIG,op)	114,067	363	87	C	DJ8KO	27,391	214	49	C	
W3BGN	113,700	445	60	A	OIG3M (OH3MIG,op)	107,654	523	42	A	DK8KC	27,384	177	56	C	
KA2JZ	6,380	88	22	A	OIG3OJ	608,403	1245	139	B	DL2RUG	25,900	175	50	C	
NZ3D	1,058	23	12	A	OIG2PM	85,570	305	95	B	DL6KWN	24,978	278	46	C	
KA3OLF	35,316	166	54	B	OIG1HS (OH1HS,op)	861,354	1355	162	C	Y26FI	21,789	98	52	C	
K3ZPG	12,685	81	43	B	OIG4YR	71,391	326	53	A	DL3KWR	16,992	111	48	C	
KL7HJR	224,010	820	95	C	OJ7UE	40,250	199	46	A	DJ8SH	14,212	100	44	C	
WF3L	118,523	425	67	C	OHLRAE	91,884	281	76	C	DL1DQY	13,892	170	33	C	
WF3M	110,635	375	58	C	OIG2M	27,864	152	54	C	DJ7FP	6,600	67	24	C	
WG3ST	10,323	60	37	C	OIG4PQ	779,520	1445	140	C	YS2XB	5,840	58	30	C	
NJ3CB	930	33	10	C	Y2V2SS	568,242	1343	102	A	DJ6BN	4,324	72	23	C	
KD3TB (+NET)	63,360	248	66	D	VE1REC	40,464	252	36	B	DL2VLA	4,050	92	24	C	
Maryland-DC					VO9FHU/VE1	49,608	544	24	C	DF3ON	4,002	56	23	C	
NF0X	10,600	60	53	A	OG4QP	27	3	3	C	DF5EN	3,925	75	25	C	
WA2VUJ/3	767	13	13	B	Zone 9					DL9CUN	3,516	119	12	C	
W2ZQ	557,100	1293	102	C	Maritime-Newfoundland	19,257	155	33	C	DJ2YE	2,856	60	21	C	
W3GG	195,160	658	70	C	OH2YL	23,067	214	75	C	DL6UOI	1,173	49	17	C	
K3XJ (+NET)	40,535	193	55	D	OH2VF	19,725	214	75	C	DL3KWF	429	15	13	C	
Western Pennsylvania					OGUPP	13,156	88	44	C	DL6VLT	280	12	10	C	
K5ZD	316,350	700	111	A	OH5PA	1,504	30	16	C	DI8WOW	261	25	9	C	
WV3S	23,092	122	46	A	OG4QP	27	3	3	C	Y38I (DL5XU,Y31WI,Y44X,ops)	997,380	1763	137	D	
W3YEY	12,620	155	37	B	Zone 10					DL1QC (+DL3OHL,DL8DSC,DL8AC)	678,016	1331	128	D	
WB6IWG	234	11	6	B	Mexico	139,275	566	75	A	DK0BP (DH0KD,DL1SDA,Y27PG,	Y43K,ops)	530,007	1037	123	D
Alabama					XE1NV1P	59,100	330	50	A	DL8GVM (Y22AA,DL4SVA,DL6TJ,	DK7XS,DL7SWG,ops)	423,728	900	142	D
KK4SM	132,430	318	95	C	XE1VV	15,855	122	35	A	DK0GYB (DL1RNH,DL2HSI,DL3HOC,	DL6HUN,ops)	5,544	60	24	D
Georgia					XE2GV	17,978	199	23	B	Hungary					
K4PIC	55,118	266	62	A	St Maarten, Saba, St Eustatius	1,027,600	173	100	A	HA0MM	2,274,024	2240	246	A	
KD3GC	79,994	323	74	B	PJ7/K2KTT	35,800	220	50	B	HA5AGS	440,794	1061	114	A	
KB3G	829,184	1595	128	C	Puerto Rico	181,004	606	66	B	HA5NG	235,379	613	113	C	
KB4GID	324,900	802	114	C	KP4GY (+KP4s BZ,TB,TN)	181,104	606	66	B	HA5KDB	428,928	972	128	B	
K4BAI	64,782	276	61	C	Y2JUNE (HY1AMF,op)	17,654	188	26	B	HA7RC	28,908	161	44	B	
Kentucky					Guatemala	304,976	786	112	C	HA7TM	260,245	909	73	C	
N4XM	93,708	335	76	C	FM5CW	124,677	480	63	C	HA5LZ	203,934	468	123	C	
North Carolina					Antigua and Barbuda	139,275	566	75	A	HA6FY	54,428	229	44	C	
N4AA	209,428	750	83	A	V29JB (W0UN,op)	19,352	128	41	C	HG18 (HA1s AH,DAC,DAE,TD,J,	TW,ops)	3,214,827	3804	231	D
N4UH	536,507	1281	97	B	Virgin Islands	15,875	351,216	1150	C	HG6Y (HA6s KNV,NW,OA,DB,OI,OO,	OY,YW,ops)	659,572	1857	106	D
N4YDU	87,230	400	55	C	St Maarten, Saba, St Eustatius	1,248	38	12	C	HA8KCK (HA8s D1,Z,D,E,K,F,I,W,	KH,ops)	615,079	1318	129	D
K4PB	21,070	126	49	C	PJ7/K2KTT	35,800	220	50	B	HA3KHC (+ops)	172,300	574	100	D	
Northern Florida					Zone 11					HA0KLW (+ops)	29,736	162	56	D	
K4X5 (WC4E,op)	960,644	1824	137	B	Martinique	1,027,600	173	100	A						
K4VUD	398,820	924	115	B	FM5CW	115,526	572	59	C						
K4VYZ	50,447	261	61	C	Antigua and Barbuda	1,027,600	173	100	A						
South Carolina					V29JB (W0UN,op)	38,850	261	42	A						
KC4UH	48,048	206	56	A	European Russia	53,991	258	63	A						
WD8AMV	29,628	207	36	C	UA1NDV	249,570	607	118	C						
Southern Florida					UA1NOV	6,065,368	5018	302	D						
AC4CT	195,656	690	74	B	Turks and Caicos Islands	49,518	429	58	C						
WK4F	11,648	84	32	B	VP5JM	547,119	1427	93	B						
WB4TDH	402,591	711	133	C	Bermuda	1,217,610	1886	163	D						
WD4AHZ	378,566	791	122	C	W1A1WV/VP9	14,076	101	36	A						
Tennessee					Zone 20										
AAA4U	331,315	765	115	B	Asiatic Russia	50,022	198	63	A						
KE2JZ	122,724	365	84	B	R9X (UA9s XFY,XLZ,XMC,ops)	50,170	1581	110	D						
KA1WQ	85,344	286	71	B	EX9X (UA9s XC,AFR,ops)	103,200	399	96	D						
KM2XW	30,039	161	61	B	UA1NOV	1,962,584	2627	167	D						
K2S2X	55,605	259	55	B	Cayman Islands	1,217,610	1886	163	D						
W4OGG	6,533	46	14	B	ZF2JI (K4IIIF,op)	245,971	1301	59	B						
K4LTA	163,839	611	71	C	Zone 12										
Virginia					French Guiana	27,098	161	34	C						
K4ARU	75,420	239	80	A	Peru	267,948	525	108	B						
WD2NOT	50,165	159	79	B	RA0BR	67,014	263	54	B						
KO4AX	48,684	174	48	B	RA0BR	37,146	906	36	A						
KB1GW	30,039	140	61	B	R9J1RA9s JE,JX,UL7OB/UA9,ops)	321,404	633	341	C						
KT3Y	774,400	1478	121	C	Y28LB/OP	31,866	189	59	C						
K4FFP	83,708	315	68	C	Y66YF	30,899	231	53	B						
W4XD	68,572	312	62	C	DL2BAY	116,700	606	50	B						
W4XD	68,572	180	69	C	DL7ACW	90,470	364	83	B						
W4UAZ	45,809	180	69	C	DL8SDC	67,176	249	47	B						
Mississippi					DK5DS	63,373	286	61	C						
KB5IXI	1,808	31	16	A	DK4TB	52,032	220	64	B						
N5KKG	4,284	50	21	B	DJ4FU	36,290	196	70	B						
Michigan					Y58AD	33,323	166	47	B						
KB8APS	65,772	256	58	A	Y26VP	31,866	189	59	C						
K5BQ	65,250	269	58	A	Y66YF	30,899	231	53	B						
WB8BUQ	14,105	113													

Czechoslovakia	Kaliningrad	Moldova	Cyprus	524BJ	17,255	I09	S05	B		
OK1FKV	164,424	508 102 A	UA2FBR	367,895	292 56 B	UD03N	130,891	491 83 C		
OK1KZ	162,450	502 95 B	UOSDA	90,240	334 60 C	5B4ADA	1,601,600	2326 143 C		
OK3CDZ	102,228	395 79 A	European Russia	1,293,872	1547 193 A	C40R (5B4a,ACY,WN,ops)	724,980	2531 119 D		
OK1FSM	85,000	324 85 A	UX3D (UA3DPX,op)	503,040	1149 131 A	Latvia	571,020	1190 124 A		
OK3TEG	77,024	312 83 A	RA6LW	204,323	561 101 A	Y1LKO	300,803	1240 57 A		
OK3JA	72,890	279 74 A	UA1TAN	111,804	382 84 A	Y1LSM	3,808	133 14 A		
OK1FAU	30,316	154 53 A	UA6LP	45,084	210 51 A	Y1LEC	113,176	336 94 D		
OK1BB	22,280	192 35 B	RA3VA	44,988	268 46 A	Y1LGN (+ops)	204,860	778 90 D		
OK3TZK	203,516	557 83 B	UA1TFG	31,204	150 58 A	Zone 30				
OK3CTA	15,300	142 36 C	UA3GM	16,384	106 32 A	European Russia				
OK1ARN	252,880	707 109 C	UA3SBW	12,303	117 34 A	UA4WHW	958,114	1542 163 A		
OK1VD	247,832	612 104 C	UA4SDT	111,693	349 93 C	UA4WNE	87,984	359 72 C		
OK1MKV	148,475	416 106 C	RA6YGS	1,239,087	1992 159 B	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK3CEL	111,693	349 93 C	RA6YGS	1,239,087	1992 159 B	Asiatic Russia				
OK3GB	102,251	311 89 C	RA6YGRW9AB	94,448	341 91 C	UASGG	120,120	408 70 A		
OK2HI	94,448	341 91 C	RA6YGRW9AB	221,312	646 112 B	UZ9MXM	24,211	292 31 A		
OK3CCC	64,870	260 65 C	UA4NC	88,000	515 100 B	UASDK	193,930	1048 55 B		
OK3CAB	47,400	298 56 C	UA4JLJ	151,308	511 81 B	RA9C (UV9CAZ,UA9-154-2007,ops)	690,928	1311 112 D		
OK2BNX	37,392	258 38 C	UA6RPJ	116,544	372 96 A	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK3TAY	30,750	191 50 C	UA6DR	53,444	341 62 B	Turkmenistan				
OK3CDN	24,050	189 50 C	UA3SBJ	37,950	203 50 A	UH8BO	7,886	101 18 C		
OK3CWE	16,512	202 48 C	RA3DNC	16,832	149 32 B	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK3ZBU	14,282	190 36 C	UA4SDT	16,523	191 31 B	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK2PAW	14,288	127 38 C	EX3A (UW3AA,op)	876,860	1417 170 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK1FRG	9,352	106 28 C	UA6YGS	120,105	482 85 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK3TUM	2,028	77 12 C	UA1AUJ	376,540	782 134 A	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK1AOU	1,812	45 12 C	RA4HX	216,910	526 109 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK2PBG	1,484	28 14 C	RA3PP	194,800	577 100 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK3TWS	180	29 4 C	RA3NB	103,716	393 82 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OL1A (OK1DWS,DWY,FCW,FIW,FUA,HH,ops)	40,0431	1865 153 D	RA3RN	103,840	287 110 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
OK2KMR (+OK2BQZ)	47,100	219 50 D	UW6LY	80,585	334 71 C	UZ4WWA (RU4WA,UA4e,WA,WAN,WAZ,ops)	877,195	1393 165 D		
Slovenia	YU3DZG	49,077	255 57 A	UA2VPW	32,832	228 48 C	RW3OA	40,848	253 48 C	
YU3JHR	981,935	1683 141 C	UA2VPR	32,832	228 48 C	RA6YGS	1,216,880	2480 228 D		
Y23A (YZ3EA,op)	834,768	1598 146 B	UA1ANA	22,950	105 54 C	RA6YGS	1,216,880	2480 228 D		
YU3JUN	20,026	152 58 C	RA6YGS	20,306	76 71 C	RA6YGS	1,216,880	2480 228 D		
YU3EWW	882,024	1393 158 C	UA3TAG	20,132	215 28 C	RA6YGS	1,216,880	2480 228 D		
YU3BU	567,810	1034 135 C	UV3DR	19,659	112 39 C	RA6YGS	1,216,880	2480 228 D		
YU3EO	260,442	604 126 C	UA2TU	18,352	74 74 C	RA6YGS	1,216,880	2480 228 D		
Poland	SP9LJD	293,585	971 71 A	UA3TAM	15,703	158 28 C	RA6YGS	1,216,880	2480 228 D	
SP9TC	87,856	324 75 C	UA6AOB	14,280	190 28 C	RA6YGS	1,216,880	2480 228 D		
SP3DIK	24,168	120 53 C	UA3MIF	7,668	150 18 C	RA6YGS	1,216,880	2480 228 D		
SP2UKB	41,538	178 64 C	UA3SSD	4,758	179 33 C	RA6YGS	1,216,880	2480 228 D		
SP6NVK	27,585	203 45 B	EA2L	18,000	150-1103,UA6-150-1403,ops)	RA6YGS	1,216,880	2480 228 D		
SP1JXC	25,348	157 46 C	RA6YGS	1,216,880	2480 228 D	RA6YGS	1,216,880	2480 228 D		
SP3EJJ	17,278	85 53 B	RA6YGS	1,216,880	2480 228 D	RA6YGS	1,216,880	2480 228 D		
SP6HTO	16,530	110 38 C	RA6YGS	1,216,880	2480 228 D	RA6YGS	1,216,880	2480 228 D		
SP9HZF	12,753	99 39 B	RA6YGS	1,216,880	2480 228 D	RA6YGS	1,216,880	2480 228 D		
SP7FOI	11,359	100 37 C	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP8UF	9,386	83 26 C	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP8POON	8,242	84 26 C	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP7HTA	7,752	72 26 C	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP9DPI	4,224	56 24 B	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP9MDY	3,910	44 23 B	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP7CBG	2,453	59 19 C	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP9VEJ	1,198	22 13 B	UA3PWI	1,204,310	158 55 C	RA6YGS	1,216,880	2480 228 D		
SP9BZH	603	19 9 B	UA4UZ	1,275,092	1910 182 A	UZ3DZD	508,102	295 64 D		
SP6EIJY	143,075	452 108 C	RT91 (MP3,op)	876,860	1416 228 D	UZ3DZD	508,102	295 64 D		
SP3HZN	104,320	327 154 C	UTSUGR	1,239,480	1850 180 A	UZ3DZD	508,102	295 64 D		
SP2JHC	95,228	323 76 C	UA6F5N	1,208,274	1743 209 A	UZ3DZD	508,102	295 64 D		
SP2JIK	84,288	476 64 C	UB5FAN	441,405	995 145 A	UZ3DZD	508,102	295 64 D		
SP6BEN	66,250	260 78 C	UA6JHE	222,661	733 107 A	UZ3DZD	508,102	295 64 D		
SQ1B (SP1AEN,op)	84,854	236 37 C	UY3TE	182,016	574 96 A	UZ3DZD	508,102	295 64 D		
SP3FAR	22,864	123 64 C	UB5HY	184,850	411 105 A	UZ3DZD	508,102	295 64 D		
SP8BAB	28,305	198 37 C	UB5HZ	184,850	411 105 A	UZ3DZD	508,102	295 64 D		
SP3NYG	10,030	118 34 C	RB5EL	57,228	292 57 A	UZ3DZD	508,102	295 64 D		
SP8LZC	5,481	83 29 C	RA6EAO	56,888	273 63 A	UZ3DZD	508,102	295 64 D		
SP3PLD (SP3s,CB,FLR,IBM,SBB,ops)	449,748	842 155 D	RA6EINR	47,128	254 86 A	UZ3DZD	508,102	295 64 D		
Romania	YQ2DFA	234,702	705 118 A	RA6SUN	40,669	146 67 A	RA6SUN	40,669	146 67 A	
YQ2LRO	44,784	115 118 B	RA6YD	1,257,450	1995 150 B	RA6YD	1,257,450	1995 150 B		
YQ3SO	11,180	194 30 A	RA6YD	90,090	618 45 B	RA6YD	90,090	618 45 B		
YQ2OY	6,651	57 31 A	RA6YD	85,700	218 42 B	RA6YD	85,700	218 42 B		
YQ2DBI	5,458	114 22 A	RA6YD	297,512	660 133 C	RA6YD	297,512	660 133 C		
YQ7LCK	3,900	91 20 A	RA6YD	5,916	102 29 A	RA6YD	5,916	102 29 A		
YQ6JN	88,125	325 75 B	RA6YD	1,114	34 15 B	RA6YD	1,114	34 15 B		
YQ3RJU	62,050	304 73 B	RA6YD	1,114	34 15 B	RA6YD	1,114	34 15 B		
YQ9HT	14,530	114 45 B	RA6YD	919,368	1416 226 C	RA6YD	919,368	1416 226 C		
YQ7NE	10,304	85 32 C	UT2L (UB5LCV,op)	706,529	1293 151 C	RA6YD	919,368	1416 226 C		
YQ8RRO	8,894	115 118 B	UB5ZG	411,136	534 144 C	RA6YD	919,368	1416 226 C		
YQ5FEH	5,522	96 22 B	UB4IXK	297,512	660 133 C	RA6YD	919,368	1416 226 C		
YQ4ZFC	88,924	297 86 C	UB5MLP	297,314	689 122 C	RA6YD	919,368	1416 226 C		
YQ5DAS	58,936	200 57 C	UB5TBS	1,251,560	981 155 C	RA6YD	919,368	1416 226 C		
YQ9MII	8,776	111 26 C	UB5TBS	154,397	479 103 C	RA6YD	919,368	1416 226 C		
YQ4AAC	243	14 9 C	UB5CJ	88,136	262 92 C	RA6YD	919,368	1416 226 C		
YRSA (YQ5e CU7C,TE,ops)	115,851	516 69 D	UB5CJ	58,024	312 62 C	RA6YD	919,368	1416 226 C		
YQ4KBB (YQ4e CVW,RCG,RDN,REC,RGB,RRX,ops)	106,760	403 85 D	UB5CJ	45,276	184 84 C	RA6YD	919,368	1416 226 C		
YOT7KAJ (YQ7e AWZ,LBU,ops)	88,788	84 34 D	UB5CJ	1,271,520	3830 210 D	RA6YD	919,368	1416 226 C		
Yugoslavia	YU7AV	1,157,518	1720 168 A	UB3JWW	1,292,440	3286 210 D	RYQO (RB5e EX,QNA,QRQ,QRW,QU,UB6QQ,ops)	1,292,440	3286 210 D	
YU7KMF	70,725	280 75 A	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
YU1JKN	19,800	127 50 B	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
YU7LJS	253,422	541 117 C	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
YU1LJL	170,145	126 50 B	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
YU7SF	78,256	312 73 C	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
YU1AC	14,744	90 38 C	UB3JWW	1,189,377	1808 168 D	RA6YD	919,368	1416 226 C		
Zone 29	Estonia	ESSRIM	3,345	64 15 B	UT4UWIC (+ops)	419,069	1038 131 D	Belarus	905,694	1374 141 C
Lithuania	LY5R (LY3BP,OP)	943,189	1389 159 A	UT4UWIC (+ops)	419,069	1038 131 D	Belarus	905,694	1374 141 C	
LY1BBC	17,510	132 34 A	UA2GAN	1,737	73 9 A	UA2GAN	31,418	194 42 C		
LY2BNC	148,928	474 104 B	UA2CAF	411,675	1083 101 C	UA2CAF	14,356	98 37 C		
LY2BQJ	105,381	405 81 B	UC2OS	20,655	200 27 C	UA2CAF	840	22 12 C		
LY2Z0O	912,784	1341 178 C	FBV,UFJ,ops)	2,711,520	3830 210 D	EG92C (EA3s ALD,AOC,GC1,GC2,ops)	1,043,822	2189 122 C		
Azerbaijan	UD6DY42DA	141,880	458 88 C	RA6LW	204,323	561 101 A	EG92G (EA3e CCN,CWK,LEJ,ops)	877,195	1393 165 D	
YU2PA	156,484	604 88 C	RA6LW	204,323	561 101 A	EA4EP	31,418	194 42 C		
LY2BLA	32,539	213 56 C	RA6LW	204,323	561 101 A	EA4EP	14,356	98 37 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	840	22 12 C		
Zone 29	Yugoslavia	YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EG92C (EA3s ALD,AOC,GC1,GC2,ops)	877,195	1393 165 D
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	31,418	194 42 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	14,356	98 37 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	840	22 12 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	31,418	194 42 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	14,356	98 37 C		
YU2Z0O	912,784	1341 178 C	RA6LW	204,323	561 101 A	EA4EP	840	22 12 C		
YU2Z0O	912,784	1341 178 C	RA6LW</td							