

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*

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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,HA6s AWH,BGG,FA,FM,GF,JW,LN,MK,LO,OM,TI,UA,WE,HG5CCC,HA6s DX,FO,GK,GM,IA,B,IQB,KNV,ND,NF,NG,NQ,NY,OB,OI,OO,OQ,OY,PN,PX,VH,VRL,WI,WP,YR,ZV,HG6GD,HA7s JES,PO,RV,VB,HA8s IE,PG,TK,HA0s DU,NAR,ops)	7,246,498	8598	283
DA0HQ (DL1s AKW,DTL,EMY,IAO,SBR,DL2s DPT,EBX,KDM,SAX,SDN,DL3s AOK,ART,DXX,DZZ,OI,RMA,VHF,DL4NAC,DL5s ANT,AOM,APX,ATD,AXX,LYM,SFI,DL6s CKF,FBL,DF7RX,DJ7AA,DL7sUTA,VNF,WAA,ops)	6,409,408	9098	272
YP0A (YQ2s BBT,DFA,GZ,YQ3s AC,APJ,CDN,FRI,FU,JF,XL,YQ4s AB,ATW,HW,NF,SI,SF,YQ6s AWR,CFB,JN,YQ8s AXP,BAM,BIG,CMB,RSL,YQ9HP,ops)	4,966,200	7318	267
OL1HQ (OK1s ARN,AYP,CF,DFP,DRU,DWX,DXS,FCW,FIA,FMJ,FUA,HH,II,JDX,JBB,MP,PNK,TW,ops)	4,721,888	6518	244
EM5HQ (RB4QR,RB5s QA,QDP,QMA,QRQ,QRW,QW,UBQ9Q,ops)	4,609,375	3302	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,SMQJHF,ops)	1,574,911	2935	169
GB4HQ/GB5HQ (G3s OZF,XMZ,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)	426,829	849	129
JA3RL (JA3MAU,JE3EIG,JG3RPL,JI3ERV,JJ3WPF,JN3s GILL,VOG,JP3LKR,JO3OZY,JR4ISF,ops)	361,928	1626	92
PI4AA (PA0LOU,op)	272,034	827	102
SP3PZK (SP3s AMZ,FEI,FHK,MEP,VKK,VKO,ops)	146,804	611	198
VE5QST (VE5s JZ,PE,PF,SV,SZU,VO,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, Gyozo, 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.



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

Top World Scores

Mixed Mode

Call	Score	Call	Score
HA6MM	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 (RB5M, op)	1,155,684	GB8ZZ (K1ZZ, op)	1,046,760
UT4UZ	1,022,286	7Q7XX	964,541
LY2IJ	961,665	US8I (RB1Z, op)	955,890
UA3RAR	839,581	UTSUGR	949,975
LY1DS	808,494	SP6YAQ (SP3ASN, op)	771,284
ZV7A (YT1AD, op)	771,284	754,120	GI0KOW
742,560			

Phone Only

Call	Score	Call	Score
ZW5B (PY5EG, op)	1,649,071	HG7DX	3,195,000
CT4NH	1,348,032	C49C	2,077,507
S52AA	1,309,128	LZ5W	1,737,120
S53EA	1,008,120	UY7E	1,683,045
ON8TT	947,760	R6L	1,667,160
TUSDX	886,816	UZ6AXS	1,581,085
S24BI	820,704	9A1A	1,470,084
YT7A (YZ7UN, op)	755,090	URB	1,416,780
GM0ECO	734,544	US7I	1,138,080
OH1EH	692,664	IR2W	1,060,785

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! (HB0/0DL7VOA). 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



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.

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 (Y0SBQ). 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 (S54B1). 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 W/VE Scores

Mixed Mode

Call	Score	Call	Score
N5NMX	342,503	K5GN	622,636
N4ZC	246,468	N2BA (K8HVT, op)	617,856
N6IP	233,714		
N6NF	228,420	KT3Y	520,028
WABOYU	208,350	N6TR	512,556
W1GD	180,395	K5MR	437,895
KZ1M	175,316	W6YA	431,760
K8UNP	154,133	AA6TT	397,116
KC6CEX	131,436	WZ3Q	377,330
AG8L	127,882	K4LTA	284,695
		N8LKS	280,462

Phone Only

Call	Score	Call	Score
KWBN	489,041	WX0X	840,420
K5XI	387,436	WSWMU	766,035
WB2K	352,108	K5NA	666,624
N6WLX/8	184,675	WB2NQT	164,528
AA4NU	141,911	K9SD	448,008
KE2JO	133,668	KN2T	403,920
KB2R	116,578	KS3F	397,167
WM2V	115,344	W4AQL	395,460
NB1B	115,068	K6XT	392,730
		KR0B	380,928
		W6AQ	337,120

with a bang! I'm hoping for better luck next year (VE3CWE). The contest was great! See you next year (KJSCZ). 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 (HASACAC). 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 (KSXI). 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 contestants 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 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 pileup on 20 meters (ON6TT). I enjoyed the con-



Pat Sonnier, W5WMU, held a reunion of Louisiana contestants over the weekend with (l-r) Jim Moore, WU3V; Randy Davis, W0MJI; Pat; and Dan Edwards, W5XZ.

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.

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! (K4VUD/KP2). Even though the conditions to the US and Japan were poor, I did enjoy the contest (UT4UZ). 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/VE 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! (OZZZZZ). 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 AI, G3FBX (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 (AASZO).

Northern Florida		Aruba		SMTHSP	7,308	81	28	B	PA3BBP	49,290	254	53	A	HABAT	38,340	302	45	C	
W4WTO	21,996	190	39	A	P40WW (KDGWW,ops)	1,410,886	2161	134	C	PA0JLM	225,533	897	77	B	HA6NW	13,630	153	29	C
South Carolina		Anguilla		SMVHUG	3,474	63	18	B	PA0MIH	106,486	379	102	B	HA4FV	7,758	216	18	C	
KC4UH	58,900	322	62	A	SMVHTG	240,464	675	112	C	PA0KHS	63,796	278	82	B	HG7DX (HA1s AH,DAC DAE,TU, TW,KG1DA,ops)	3,185,000	3862	250	D
W4JKC	11,592	140	28	C	SMVHUS	122,496	408	96	C	PA3GAB	28,236	543	52	B	HA1KRR (HA1s DRB,XO,XU,ZN, ZL,ops)	331,763	1068	103	D
Southern Florida		Turks and Caicos Islands		SKOPR (SMODZL,ops)	63,536	272	76	C	PA3GWR	12,750	147	30	B	HA3KHG (+HA5BVDI)	268,254	852	128	D	
K4UNP	154,133	533	97	A	SMVHUT	37,446	160	79	C	PA2ALF	5,529	101	19	B	148,762	624	77	D	
W04AHZ	93,866	504	67	C	SMVHVE	21,417	181	54	C	PA0DJ	3,480	66	20	B					
WB4TUD	58,736	184	96	C	SLOCB (SMITDE,SMW8 MXD,NZY, TXT,ops)	=	583,968	1378	132	D	PA3BTH	25,110	164	54	C				
Tennessee		Cayman Islands		SKHUS/6 (SM5AL,SMOMPV,ops)	ZF2JI (K4II,ops)	190,008	527	117	D	PA14TUE (PA3s EZL,GBU,GBV,GEZ, GIG,ES6DU,ops)	309,239	984	88	D					
AA4NU	141,811	501	97	B					P14COM (PA3s BBP,DMH,ERC,BQ, PB0AU,ops)	276,500	913	100	D						
KE2JO	133,668	454	94	B	Zone 12														
KA4IWG	68,748	253	74	B	Colombia														
WB4PHW	7,502	101	22	B	HK3JHH	379,428	923	84	B	Zone 19									
K4LTA	284,695	913	97	C					European Russia										
N4IR	63,126	435	42	B					R21AWF (RV1AO,UA1AKM,ops)	495,013	1160	127	D	Zone 28					
N1CWY	30,527	183	49	C															
W4TYU	17,484	132	33	C	Peru					Zone 20									
WA6KUI/4 (+KC4QFR)	36,846	263	46	D	O4ANR	286,484	5/5	112	B	Asiatic Russia									
Virginia					O4AVZ	121,952	350	74	C	Zone 21									
WB4JBD	8,991	53	29	A	Venezuela					Asiatic Russia									
W62NOT	42,442	104	44	B	YV5NCJ	87,798	500	36	B	R4XPF	80,060	345	80	A	Federal Republic of Germany				
N4MM	105,161	240	83	B	YV1DRK	86,121	285	63	B	RA9XL	29,970	217	30	B	DL3VZL	131,565	461	105	A
N3RC	4,216	82	17	B	YV5NCK	29,792	162	38	B	RA9XX	16,000	115	32	C	DL3VJW	116,287	385	103	A
K73Y	520,028	1185	116	C	YV4EYA	5,900	60	25	B	RA9XX	80,256	405	44	C	DL2AYI	75,126	364	67	A
WA4PGM	57,024	301	64	C	YV1OB	10,744	74	34	C	RA9XX	49,024	332	32	C	DF2UO	74,400	338	80	A
K4FPF	48,840	254	55	C	Zone 13					RA9XX	12,750	375	84	D	DL0MFL	45,980	223	76	A
WB2OF/4	32,340	245	46	B	Brazil					DL1DWT	35,200	160	80	A	DL1DWT	35,200	160	80	A
W4XKD	30,365	232	43	C	ZV7A (YT1AD,ops)	771,284	1315	122	A	DL2CIA	25,925	125	61	A	DL2CIA	10,388	416	79	A
K1SE	5,947	87	19	C	Zone 14					DL2CIE	24,402	102	83	C	DL1EV	10,402	102	83	A
W5					Chile					DL2DTA	20,075	119	57	A	DL1EV	10,402	102	83	A
Mississippi					CE5BPE	5,116	45	33	B	DL2DTE	116,287	385	103	A	DL2DTE	116,287	385	103	A
KB5IXI (+NET)	11,692	110	37	D	Argentina					DL2DUVU	6,900	170	29	A	DL2DUVU	6,900	170	29	A
WB					LU6ETB	606,320	908	143	B	DL2EYI	10,388	416	79	A	DL2EYI	10,388	416	79	A
Michigan					LU2NL	280,398	583	102	C	DL2F0V	103,584	411	96	B	DL2F0V	103,584	411	96	B
AG8L	127,882	511	86	A	LU2DKN	25,850	116	50	B	DL2F0V	98,120	352	80	C	DL2F0V	98,120	352	80	C
KB0LKQ	42,903	241	63	A	LU1EWL	220,158	681	65	C	DL2F0V	59,792	258	74	B	DL2F0V	59,792	258	74	B
AA8AV	93,832	440	74	C	Zone 15					DL2F0V	67,222	273	66	B	Zone 27				
K8CV	8,144	74	32	C	Brazil					DL2F0V	55,887	445	39	B	Ireland				
Ohio					YV5B (PY5EG,ops)	1,648,071	2981	163	B	DL2F0V	36,504	234	52	B	France				
N8JOX	69,020	150	68	A	PY2APO	521,600	1466	100	C	DL2F0V	221,500	656	113	C	France				
KB8NTY	14,924	168	28	B	PY2RHF	27,578	116	53	B	DL2F0V	221,500	656	113	C	Zone 26				
KW8N	488,041	1043	133	B	PR0RSE (+NSJEQ)	5,597	42	29	C	DL2F0V	199,284	630	104	C	Asiatic Russia				
N6WLXW	184,675	634	85	C	PR0RSE (PP5s ATA,JD,TR,WG,YY, ops)	347,248	826	88	D	DL2F0V	34,782	193	62	C	Zone 21				
N8LXS	290,462	884	91	C	DL2F0V	12,980	141	26	B	DL2F0V	12,980	141	26	B	Asiatic Russia				
NG8D	118,850	506	65	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 28				
KW8J	61,587	287	63	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 20				
K8SJ	41,305	253	56	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
WB8IQ (+WD9INF1)	313,017	801	103	D	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 21				
WA8OSE (+NSJEQ)	73,140	537	60	D	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
West Virginia					DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 26				
K8QOL	72,562	304	73	A	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 27				
N8II	30,816	190	48	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
KV8S	12,480	110	35	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 28				
W9					DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
Illinois					DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 21				
K9MMS	117,826	475	89	A	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
NE0P/8	4,416	75	23	A	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 28				
KD9CN	46,748	282	62	B	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
N9ROU	3,870	49	18	B	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 20				
N9RHG	44,424	42	4	B	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
N4TR	121,380	486	85	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 21				
K4JU	65,619	327	69	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
K9SD	49,037	449	77	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 28				
W4WHE	22,550	200	41	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
Zone 9					DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 21				
Maritime Newfoundland					DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
VO1SF	67,984	288	56	C	DL2F0V	10,740	168	165	C	DL2F0V	10,740	168	165	C	Zone 28				
VE1IIW	15,024	172	24	C	DL2F0V	28,458	158	54	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
W8QAV/VE1	1,490	41	10	C	DL2F0V	18,944	156	37	C	DL2F0V	10,740	168	165	C	Zone 20				
Quebec					DL2F0V	250	18	10	C	DL2F0V	10,740	168	165	C	Asiatic Russia				
NMTN/VE2 (+N4DDKI)	47,600	360	40	D	DL2F0V	20	2												

Northern Florida		Aruba		SMTHSP	7,308	81	28	B	PA3BBP	49,290	254	53	A	HABAT	38,340	302	45	C	
W4WTO	21,996	190	39	A	P40WW (KDGWW,ops)	1,410,886	2161	134	C	PA0JLM	225,533	897	77	B	HA6NW	13,630	153	29	C
South Carolina		Anguilla		SMVTLG	240,464	675	112	C	PA0MIH	106,486	379	102	B	HA4FV	7,758	216	18	C	
KC4UH	58,900	322	62	A	SMSCCM	122,496	408	96	C	PA0KHS	63,796	278	82	B	HG7DX (HA1s AH,DAC DAE,TU, TW,KG1DA,ops)	3,185,000	3862	250	D
W4JKC	11,592	140	28	C	SMOBUS	63,536	272	76	C	PA3GAB	28,236	543	52	B	HA1KRR (HA1s DRB,XO,XU,ZN, ZL,ops)	331,763	1068	103	D
Southern Florida		Turks and Caicos Islands		SKOPR (SMODZL,ops)	37,446	160	79	C	PA2ALF	5,529	101	19	B	HA3KHG (+HA5BVDI)	268,254	852	128	D	
K4UNP	154,133	533	97	A	SMRDUT	32,509	181	54	C	PA0DJ	3,480	66	20	B	H45KEH (+HA5BVDI)	148,762	624	77	D
W04AHZ	93,866	504	67	C	SMRE	21,417	197	33	C	PA3BTH	25,110	164	54	C					
WB4TUD	58,736	184	96	C	SLOCB (SMITDE,SMW8 MXD,NZY, TXT,ops) = 583,968 1378 132 D					PA4TUE (PA3s EZL,GBU,GBV,GEZ, GIG,4S6DU,ops)	190,008	527	117	D					
Tennessee		Cayman Islands		ZF2JI (KA4II,ops)	202,020	676	78	B		309,239	984	88	D						
AA4NU	141,811	501	97	B	Zone 12					P14COM (PA3s BBP,DMH,ERC,BQ, PB0AU,ops)	276,500	913	100	D					
KE2JO	133,668	454	94	B	Colombia	379,428	923	84	B										
KA4IWG	68,748	253	74	B	Peru	495,013	1160	127	D										
WB4PHW	7,502	101	22	B	Venezuela														
K4LTA	284,695	913	97	C	YV5NCJ	87,798	500	36	B										
N4IR	63,126	435	42	B	YV1DRK	86,121	285	63	B										
N1CWY	30,527	183	49	C	YV5NCK	29,792	162	38	B										
W4TYU	17,484	132	33	C	YV4EYA	5,900	60	25	B										
WA6KUI (KA4QFR)	36,846	263	46	D	YV1OB	10,744	74	34	C										
Virginia		Zone 13																	
WB4JBD	8,991	53	29	A															
W62NOT	42,442	104	44	B															
N4MM	105,161	320	43	B															
N3RC	4,216	82	17	B															
K73Y	520,023	1185	116	C															
WA4PGM	57,024	301	64	C															
K4FPF	48,840	254	55	C															
WB2FB/4	32,340	245	46	B															
W4XKD	30,355	232	43	C															
K1SE	5,947	87	19	C	ZV7A (YT1AD,ops)	771,284	1315	122	A										
W5		Fernando de Noronha		PYOFF	1,580,438	2082	156	C											
Mississippi		Zone 14																	
KB5IXI (+NET)	11,692	110	37	D															
WB		Chile																	
Michigan		Argentina		CE5BPE	5,116	45	33	B											
AG8L	127,882	511	86	A	LU6ETB	606,320	908	143	B										
KB0LK	42,903	241	63	A	LU2NL	280,398	583	102	C										
AA8AV	93,832	440	74	C	LU2DKN	25,850	116	50	B										
K8CV	8,144	74	32	C	LU1EWL	220,155	681	65	C										
Ohio		Zone 15																	
N8JOX	69,020	150	68	A															
KB9NTY	14,924	168	28	B															
KW8N	488,041	1043	133	B															
N6WLXW	184,675	634	85	C															
N8LXS	290,462	884	91	C															
NG8D	118,850	506	65	C															
KW8J	61,597	287	63	C															
K8SJ	41,305	253	56	C															
WB8IQ (+WD9INF1)	313,017	801	103	D	ZW5B (PY5EG,ops)	1,648,071	2981	163	B										
WA8OSE (+NB8EC1)	73,140	537	60	D	PY2APO	27,578	116	53	B										
West Virginia		Brazil		PY2HF	5,597	24	27	C											
K8QOL	72,562	304	73	A	PR0R (PP8s ATA,JD,TR,WG,YY, ops)	347,248	826	88	D										
N8II	30,816	190	48	C															
KV8S	12,480	110	35	C															
W9		Zone 18																	
Illinois		Norway																	
K9MMS	117,826	475	89	A	LA6KHA	73,521	387	63	B										
NE0P/8	4,416	75	23	A	LA2EIA	28,098	225	42	B										
KD9CN	46,748	282	62	B	LA6DF	9,996	148	21	B										
N9ROU	3,870	49	18	B	LA2AD	5,439	85	21	B										
N9RHG	4,244	42	4	B	LA4YW	167,268	582	91	C										
N4TR	121,380	486	85	C	LA7DIA	33,402	261	38	C										
KA1J	65,619	327	69	C	LA2HFA	32,391	196	61	C										
K9SD (KC9AL,WN98s,L,K9AGGI, WN9A,ops)	48,008	1020	132	D	LA6PB	20,515	133	55	C										
N9LCR (+AA8EG1)	49,852	323	56	D	LA2UG	18,392	312	44	C										
Indiana		Aland Island		LA6AP	6,638	95	26	C											
N9DHN	1,331	43	11	A	OH0BVF (OH2BFV,ops)	87,482	588	43	C										
KB9C	23,862	142	41	B	OH0I AH9FA	16,660	337	17	C										
Wisconsin		Finland																	
NEB1J	65,633	394	57	A															
K9GYC	11,832	114	34	A															
K8BS	90,937	449	77	C															
N9KX	34,476	269	52	C															
W9HE	22,550	200	41	C															
Zone 9		Maritime Newfoundland																	
VO1SF	67,984	288	56	C															
VE1IIW	15,024	172	24	C															
W9OA/VE1	1,490	41	10	C															
Quebec		Market Reef		OJ0OH1V1R (+OH6L AH8MMI)	47,600	360	40	D											
NMTN/VE12 (+N4DDKI)	47,600	360	40	D															
St Paul Island				OJ0OH1V1R (+OH6L AH8MMI)	408,270	1900	93	D											
WV2B/CY9	61,243	516	29	A															
Denmark																			
Zone 11																			
Martinique																			
FMSCW	82,020	387	80	C															
Dominican Republic																			
H6BOMA	52,536	400	44	B															
Panama																			
HPI4AC	54,670	216	70	C															
HR2JAE	3,332	58	17	B															
Grenada																			
J3GT3FN	2,517	83	14	A															
Virgin Islands																			
K4VUD/KP2	11,268	284	38	B															
Sweden																			
SM8NUK	615,304	1088	163	A															
SM3JLA	270,020	772	115	A				</td											

OM3TUM	3,120	82	20	C	RA3DFP	41,106	384	39	A	RW96W	345,032	688	118	C	Korea				
OM3KFF (OM3E TL0,TPG,TRG,ops)					UA6BPJ	193,494	546	102	B	UA9AKS	53,680	217	44	C	HL93AP				
913,869 1805 153 D					UA4NC	17,900	405	100	B	HV8CE	28,520	151	46	C	15,469	139	31	C	
OM3RKA (OM3E CPC,CGR,TDF, TTZ,ops)	785,876	1247	182	D	UV3DCR	83,168	276	113	B	UZ9CYA (+ops)	51,600	250	50	D	HLOK (HL1s LME,LUL,ODG,HL2IDN, HL3EAT,ops)	55,980	294	85	D
Slovenia					RA3HMK	61,915	353	61	B	Kazakhstan					Zone 50				
SS7UN	198,378	690	103	A	RA3DNC	10,808	143	28	B	UL7OB	449,800	1004	104	B	Philippines				
SS3AA	129,095	539	83	A	UA4AVN	4,655	106	19	B	UN9LCV	99	9	3	B	DU9RG	230,400	549	80	B
SS1DX	108,576	454	78	A	UV6LNW	283,290	714	142	C	UL7DX	76,322	289	62	C	DU7AFT	372	14	6	B
SS2AA	53,061	315	73	A	UA3YAO	150,100	541	100	C	UN9LX	14,835	225	16	C					
SS3EA	1,008,120	1822	155	B	RA3XA	98,280	390	83	C	Kirghizia					Zone 52				
SS5ZDQ	384,356	1001	106	B	RA4HRL	60,900	264	75	C	UM8MFO	25,410	186	33	B	Angola				
SS7BU	227,395	735	89	C	RA6YJ	55,015	197	85	C	JH7PKU	446,939	1027	107	A	D2EYI	12,857	115	23	A
SS7JZ	37,736	290	53	C	UV5DRU	54,332	166	95	C	JK1GKG	122,490	389	90	A	DzSA	480,080	1179	48	B
Poland					RA1WJ	14,856	243	24	C	JR4GPA	107,267	497	87	A					
SN3A	613,284	1236	149	A	UA3MF	1,200	213	26	C	JF3PLF	55,037	265	47	A	Zone 53				
SP4DCR	124,200	523	108	A	UA1TFQ	12,213	75	53	C	JA1BUI	34,816	148	68	A	Malawi				
SP9ICE	111,265	361	119	A	UA3VRP	8,932	147	10	C	JL4CMT	29,088	217	42	A	ZQ7XX	964,541	1801	109	C
SP2ZFP/JP	108,438	442	93	A	R6L (UB3IW,UB5IBG,UA68LFQ,LO, LV,UV6LPL,UA6-1403,ops)	1,667,150	2362	220	D	JE2NNW	25,220	117	52	A	Zimbabwe				
SP2UKB	53,200	286	56	C	UZ6AXS (RW6YZ,UA6s AJU,AQA, ops)	1,581,085	2333	209	D	JV4VRF	21,385	111	47	A	Z21HS	13,498	91	29	C
SP6NPK	29,072	226	45	A	UZ3DZD (RV3DA,UA3-142-1896,ops)	162,334	509	103	D	JH1GZ	8,153	69	31	C	Zone 54				
SP7SEW	95,694	486	82	C	JV4RTX	7,980	54	35	C	JA3JOT	6,075	63	25	A	Indonesia				
SP7FOI	42,705	229	73	B	JG1RDV	5,150	50	25	A	JK2VOC	4,032	98	18	A	X8INNU	13,312	106	26	A
SP6NVK/3	34,938	243	54	C	JH7OED	2,416	51	16	A	JA1XPU	793	19	13	A	Y8IAIRW	79,750	306	56	B
SP1EO1	25,197	227	37	B	JH9XAT	430	15	10	A	JA1AAT	204	10	6	A	N6QLO/QYBS	77,180	232	60	B
SP4CUF	24,745	201	49	A	JH9QJN	25,798	716	83	B	Y88AVE	286,772	593	109	C	Y88TI	85,588	446	39	C
SP8POON	22,000	221	40	B	JH7BEW	140,712	455	96	B					Zone 55					
SP6MLXP/P	11,648	154	28	C	JH7OQJ	87,230	355	65	B	Australia					Australia				
SP1RKM	68	7	6	B	JH2BNN	78,116	358	59	B	VK8BE	570	19	6	B	VK8AV	185,170	412	97	C
SP6YAQ (SP3ASN,ops)					JT2DOD	53,400	256	80	B	VK4TT	14,256	124	24	C					
SP7GIO	547,208	1064	148	C	JH1UUT	31,552	142	58	C	Zone 33					Zone 56				
SP9BBH	190,476	544	117	C	JR1MRG	2,442	27	22	B	Asiatic Russia					Lesotho				
SP2AYC	143,055	520	99	A	JR7LVK	2,124	40	18	C	RA6JIX	11,544	188	32	C	ZP8SR	16,640	172	20	C
SP2FOV	105,200	440	100	C	JA0AD	1,895	67	15	B	CC3A (CT3+BD,EE,FH,HA,ops)	1,313,435	2253	205	A	South Africa				
SP5YQ	97,632	290	113	C	JH0AW	1,280	27	12	B	CO2A (CT3+BD,EE,FH,HA,ops)	392,418	755	107	D	ZS9HO	4,180	47	20	B
SP5CJO	91,440	434	80	C	JH1RMH	900	36	10	B	Zone 34					Zone 57				
SP4FAK	65,504	244	48	C	JH2BEY	720	18	10	B	European Russia					New Zealand				
SP6CDP	32,382	215	62	C	JH3AKD	704	24	11	B	CT4NH	1,348,032	1684	168	B	ZL3OO	705,698	1205	122	C
SP1AFN	29,150	184	55	C	JH4GHP	696	22	12	B	CO2K (CT1ESV,ops)	521,934	1307	102	D	ZL2AGY	136,916	548	52	C
SP3DIK	19,694	131	43	C	JH5KAH	48	4	4	B	Zone 36					Zone 58				
SP3NYG	13,170	163	30	C	JH6FPM	27	3	3	B	Madeira Islands					Australia				
SP3AQT	9,612	91	36	C	FA8BWW	137,844	462	63	B	CT4AH	1,348,032	1684	168	B	VK8VM	103,380	365	60	A
SP8LZC	9,520	106	40	C	EA8BXY	80,388	288	58	B	CO2A (CT1ESV,ops)	521,934	1307	102	D	VK5SGN	74,965	245	55	B
SP5UAF	8,163	43	21	C	EC8AXM	66,640	416	33	C	JH1KJ	48,440	204	64	C	VK2ARJ	44,400	388	34	B
SP5CGN	1,260	36	14	C	JH2DOL	163,422	816	83	C	CO2AL	303,003	1209	51	B	VK2DID	10,740	220	30	B
SP9MDY	371	25	2	C	JH7XGN	126,712	375	72	C	JG1GKU	59,570	205	74	C	VK2APK	44,720	410	102	C
SP3PLD (SP3e CB,FL,BM,SBB, ops)					JH9CNU	97,588	340	72	C	JH1GKU	59,563	251	67	C	VK2AYD	236,293	803	83	C
SP9ZKN/P (SP9MCB,SP9-0620,BB, ops)					JH3FC	92,994	359	68	C					Zone 59					
SP6YFU (SP6 NVK,OPE,ops)	24,378	237	44	D	JH3FC	81,904	204	64	C	Zone 37					New Zealand				
SP6YFU (SP6 NVK,OPE,ops)	9,152	108	32	D	JH1BNW	81,904	204	64	C	Portugal					Zone 60				
Greece					JH1BNW	81,904	204	64	C	CT4NH	1,348,032	1684	168	B	New Zealand				
SV2BFN	90,048	825	67	B	JH1BNW	81,904	204	64	C	CO2A (CT1ESV,ops)	521,934	1307	102	D	ZL3OO	705,698	1205	122	C
Bosnia Herzegovina					JH1BNW	81,904	204	64	C	Zone 38					Zone 61				
TY1DNO (TY4LP,op)	122,175	337	75	C	JH1BNW	81,904	204	64	C	Egypt					Hawaiian Islands				
Romania					JH1BNW	81,904	204	64	C	CT4NH	1,348,032	1684	168	B	VK8VM	103,380	365	60	A
YQ3FF/P	54,720	261	76	A	JH1BNW	81,904	204	64	C	CO2A (CT1ESV,ops)	521,934	1307	102	D	NH6XM	63,319	291	45	B
YQ5BG	44,072	155	56	A	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	NH6GMP	35,516	224	34	B
YQ4AAC	10,265	166	90	A	JH1BNW	81,904	204	64	C	JA1IOS	26,785	98	81	C	AH6JF	85,800	322	55	C
YQ7LPV	128,256	590	96	B	JH1BNW	81,904	204	64	C	JH2OJ	15,120	101	34	C	AH6LV (+AH8IO,WH6BC,JB0U)	405,748	972	86	D
YQ3PR	121,360	505	89	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C					
YQ9FNH	38,562	243	62	B	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	Zone 63				
YQ4DQH	13,299	199	31	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	French Polynesia				
YQ2BLM	16,744	164	34	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	F05IW	444,904	1194	75	B
YQ8FW	8,800	164	25	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C					
YQ2LIN	4,464	122	24	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	Zone 65				
YQ8FW	3,784	92	22	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	Tuvalu				
YQ9CJX	380	40	5	C	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C					
YQ4KCC (YQ4 FTO,ZG2,ops)	14,904	150	46	D	JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	Marshall Islands				
Yugoslavia					JH1BNW	81,904	204	64	C	JH1BNW	81,904	204	64	C	V73SG	57,091	263	29	B
Y17YY	550,788	1148	158	A	JH1BNW	81,904	204	64	C	Zone 75					Northwest Territories				
Y17YY (YZ7UN,ops)					JH1BNW	81,904	204	64	C	Checklogs					VE3UNVG/VEB	21,230	209	22	A
YT1IMI	758,090	1508	161	B	JH1BNW	81,904	204	64	C	JH0HQ	33,949	708	114	D	4L1UN, AA4WXB, AB6ED, CR3R, DF11AZ, DI3OL, DF5WN, UK0DCS (DJ1XT,op), DL1AR1, DL1JE1, DL2SZA, DL3A2M, DL4LXM, DL5ANS, DL5AWJ, DL5LRA, DL6LCHG, DL6RDE, DL7VEE, DL8ZWD, FATEMZ, EA2ABM, EA4AKA, EA7GBD, EA8BXQ, ER7Z, GF6GZ, G4UOL, GO0HW, HA1K, HL5BV, IK9SCB, IK41VQ, IK5TBK, IK8LWA, I19NVA, JA1JPK, JA1KXW, K1RL, K1UUA, LA1CCA, LA2GCA, LA2IZ, LA2MV, LA4JHA, LA7W, LABCE, LA8DY, LA9FFA, LA9CX, LU3HAT, LY2BIP, N6TCL, NS0B, NS0AZV, OJ6IM, OJ6LMB, OK1DWJ, ON5FW, OX32M, OZ1EUD, OZ2JL, OZ5PA, PY2EYE, PY2ETB, SM5CL, SM6FPZ, SM7TV, SM0CSKL, SM0-189-GD, SP2EWL, SP4SHV, SP6F				