

2009 IARU HF World Championship Results

Who Needs Sunspots . . . ?

By Carl Luetzelschwab K9LA

After publishing the results for the 2009 IARU HF World Championship, it was brought to our attention that the log-checking software that evaluates unique call signs was misconfigured. As a result, QSOs with many calls that were genuine uniques - and therefore good QSOs - were judged to be busted QSOs. Correcting this error required rescoring the contest logs.

The biggest change resulting from the rescoring is that DAØHQ is the correct winner of the HQ competition. While no other overall winners were changed in the major results tables, there were some shifts in the order of finish in the Top Ten, Division and Continental Leaders. The ARRL regrets this error.

The log-checking software has been re-configured and tested, and we are confident this matter has been resolved.

Note – this is a temporary publication pending conversion to the updated ARRL Web site.



In spite of being in the deepest solar minimum of our lifetimes, contesters came out in record numbers to participate in this increasingly popular summer event. The 2009 running ended up with 3404 log submittals, which is 6.4% more than the 2007 record. If the past trends continue, the 4000-log barrier should be broken in several years!

Gator N5RZ hard at work on 15 meters at W1AW/KL7 while station owner Rich KL7RA keeps 40 meters hopping in the background. (Photo – Ward Silver NØAX)

Participation Statistics

The three Low Power categories (Mixed, Low Power; Phone, Low Power; and CW, Low Power) continue to dominate the entries. In fact, the Low Power logs were 58% of all the logs. I've said it before in previous

results and I'll say it again – if you don't have an amplifier, the IARU HF World Championship is a great contest in which to participate.

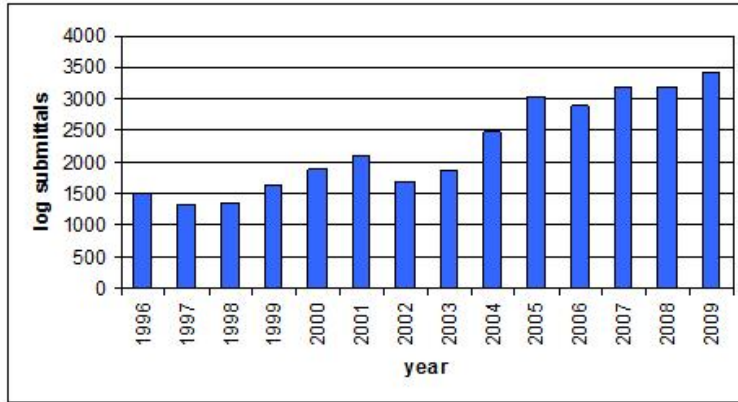


Figure 1 - Log Submittals by Year

Regarding zone participation, this year's contest had activity from 49 ITU zones. That's down one zone from last year and down two zones from 2007. For you traveling testers, think about activating some of the rare ITU zones next year.

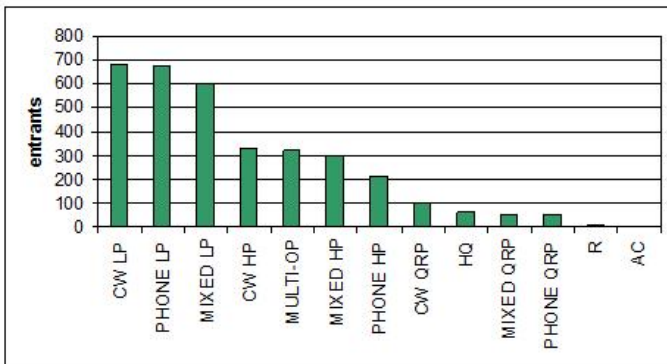
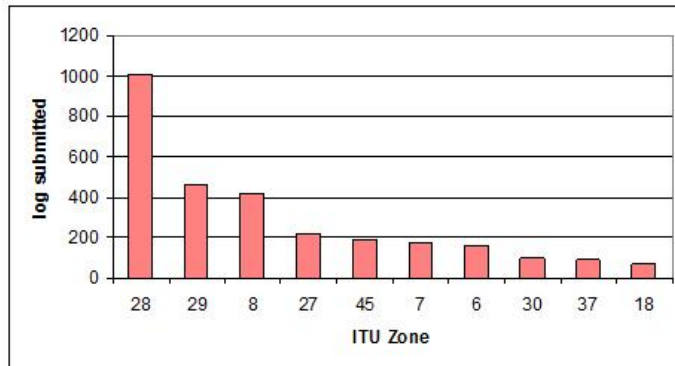


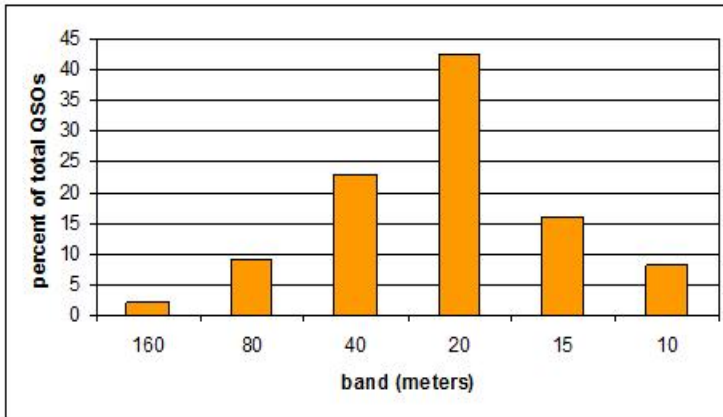
Figure 2 - Entrants by Category

As in previous years, Zone 28 (Eastern Europe) led the pack with the highest number of entries. Zone 29 entries came in second place, with less than half of the Zone 28 total. Zone 8 (North America, East Coast) rounded out the Top Three.

Figure 3 - Entrants by ITU Zone



Being at solar minimum, one would expect 20 meters to bear the brunt of the activity.



Indeed, 20 meters was the workhorse band – with almost 50% of the total number of QSOs. With the recent solar activity, though, it appears that Cycle 24 is finally starting its ascent. This should shift more of the QSOs to 15 meters and 10 meters next year. That will be a pleasant experience based on the past several years!

Figure 4 - QSOs by Band

New Records

The 2009 event resulted in four new records. As you can see in **Tables 1 and 2**, all of these came from W/VE stations (in **bold**). In Single-Op, Mixed, Low Power, **VE3DZ** bested the 2006 record of **K1XM** by 56%. In Single-Op, Phone, Low Power, **NIUR** narrowly beat his own 2008 record by 6.2%. In Multi-Op, the **K1LZ** team moved the old 2001 **KH6ND** record from 2,111,350 to 2,607,358 – up 23%. Finally, in Single-Op, CW, QRP, **W2GD** smashed the old 166,370 score set by **N2WN** in 2007, ending up with 427,064 points for a whopping 157% increase.

World	Call	Score	Year
HQ	R9HQ	26,342,498	2006
Single Op Mixed HP	3V1A	4,414,517	2007
Single Op Mixed LP	HG3M (HA3MY op)	2,095,522	2004
Single Op Mixed QRP	HG5Y	1,067,647	2007
Single Op Phone HP	CN2R (W7EJ op)	4,718,736	2005
Single Op Phone LP	D4C	2,975,632	2008
Single Op Phone QRP	HG1W (HA1WD op)	348,517	2007
Single Op CW HP	CT3EN (CT1BOH op)	3,829,848	2005
Single Op CW LP	HA8DU	2,278,782	2006
Single Op CW QRP	HA5KDQ (HA7ANT op)	1,412,260	2006
Multi-Op	P3A	7,008,176	2003

Table 2 – W/VE Records			
W/VE	Call	Score	Year
HQ	W1AW/4	10,720,370	2000
Single Op Mixed HP	KQ2M	2,810,088	2001
Single Op Mixed LP	VE3DZ	1,187,130	2009
Single Op Mixed QRP	NØKE	187,590	2008
Single Op Phone HP	KH6ND	2,257,190	2002
Single Op Phone LP	N1UR	516,436	2009
Single Op Phone QRP	KC5R	172,080	2007
Single Op CW HP	VY2ZM (K5ZD op)	2,631,694	2005
Single Op CW LP	W1RM	1,065,110	2006
Single Op CW QRP	W2GD	427,064	2009
Multi-Op	K1LZ	2,554,760	2009

Congratulations to all the new record holders! With more sunspots hopefully on the way, next year's event should provide more opportunities to set new records. Take a couple minutes, study the records, and set a course to best them next year.

HQ Results

There were 62 entries in the HQ category! After the last QSO was made, the **DAØHQ** team beat the **AØ8HQ** team by a meager 1.0%. Congratulations to the entire **DAØHQ** team in pulling off this win.

In the W/VE HQ competition, the crew at **NU1AW/KH6** bested the **W1AW/KL7** team by a good amount – 12.2% -- but remember that propagation in KL7 is usually worse than propagation in KH6. Under the circumstances, the KL7 crew did a commendable job. You can read more about the **W1AW/KL7** operation in the sidebar written by N1TX at the end of this article.

With the amount of HQ stations participating this year, KC2TA commented in the contest soapbox, “Worked a lot more HQ stations than in past attempts, but fewer sections overall.” WP3GW added “Low score and more multipliers = Lots of HQ’s!!!” Let’s hope the HQ participation trend continues – it adds excitement to the contest. (You can read all of the [Soapbox](#) entries online.)

IARU HEADQUARTER STATIONS

CALL	SCORE	QSO	MULTS
DAØHQ	25,508,500	26131	500
AØ8HQ	25,263,261	11461	461
SNØHQ	23,403,215	19899	505
OL9HQ	23,156,095	17079	499
GB7HQ	22,657,658	15738	479
TMØHQ	22,467,320	16744	460
9AØHQ	20,882,073	16347	487
IUxHQ	20,732,266	16453	482
S5ØHQ	18,396,669	14107	489
E7HQ	17,867,024	14536	469
YTØHQ	17,735,760	15194	459
LYØHQ	17,420,838	12950	463
YRØHQ	16,237,134	13951	482
PA6HQ	15,909,894	11634	429
HGØHQ	15,717,930	12982	465

YL4HQ	15,520,960	11502	455
OE1A	15,343,384	12806	454
LXØHQ	14,422,980	10956	410
OH2HQ	13,608,720	9986	410
CR5HQ	13,499,660	9955	404
H2Q	13,325,860	7409	388
EM5HQ	13,249,810	10518	427
LZ7HQ	10,811,701	11127	421
SK9HQ	9,009,024	7824	348
8NxHQ	7,993,908	10137	372
ZW5HQ	7,684,430	4951	338
SXØHQ	6,813,924	8571	372
OPØHQ	6,530,150	6285	310
OZ1HQ	6,375,187	6245	317
NU1AW/KH6	6,247,302	4964	263
RØHQ	6,129,585	5519	315
W1AW/KL7	5,567,142	5804	249
HB9HQ	4,770,540	6289	340
ER7HQ	4,739,915	5053	335
EIØHQ	4,140,486	4449	306
BxHQ	3,883,977	3985	291
A71A	3,853,080	2836	315
9K9HQ	3,656,332	3024	271
CX1AA	2,849,448	2224	294
Z3ØHQ	2,701,292	4389	292
EKØHQ	2,686,306	3111	238
LN2HQ	2,671,074	3216	261
ZL6HQ	2,413,629	2467	211
P4ØHQ	1,964,690	1968	221
9Y4HQ	1,733,508	1994	189
5NØHQ	1,460,228	1972	154
ES9A	1,196,030	1761	262
TC7HQ	1,190,220	1566	166
ZF1A (ZF2AH, op)	809,380	1656	143
AT1HQ	684,907	1013	173
LR4D	582,073	843	163
VR2HK	523,440	1087	144
VK7WI	489,813	873	129
T4ØC	426,492	1087	132
YB41AR	395,937	715	123
BVØHQ	360,255	1063	105
HSØAC (HSØ/OZ1HET, op)	193,600	454	121
HQ2W	105,544	410	79
XE1LM	94,122	390	81
YS1YS	66,150	294	63
DX1HQ (DU1BP, op)	53,630	203	62
ZSØHQ	10,794	121	42

ADMINISTRATIVE COUNCIL STATIONS

CLASS	CALL	SCORE	QSO	MULTS
AC	K1ZZ	1,577,760	2,110	240
R1	9A5W	695,520	1,194	184
R2	YV5AMH	647,186	938	151
R2	JA1TRC	497,232	949	144
AC	XE1KK	399,483	847	153
R1	G3PSM	200,241	451	171
AC	VE6SH	56,980	276	70
R1	HB9JOE	35,685	201	117
R1	OD5TE	23,400	266	18
R2	9Y4NED	4,773	51	37
R1	LZ1US	1,360	40	20

Mixed Results

The winners in the Single-Op, Mixed categories for the World were **OK7CM**, **UT2UZ**, and **4LØA** (UUØJM, op) in QRP, Low Power, and High Power, respectively. The W/VE winners were **N5DO** (QRP), **VE3DZ** (Low Power), and **VE3EJ** (High Power).

Phone Results

In the Single-Op, Phone-only category, the World winners for QRP, Low Power, and High Power were **HA5KDQ** (HA5NB, op), **IZ2FOS**, and **UT5UGR**, respectively. Likewise for W/VE, the top performers were **N1YWB** in QRP (See the second sidebar at the end of this article for N1YWB's narration of his operation in this extremely tough category in which only 50 logs were received.), **N1UR** in Low Power, and **W7WA** in High Power.

CW Results

In the Single-Op, CW-only races, World first place went to **HG5A** (HA5IW, op) for QRP, **HG7T** (HA7TM, op) for Low Power, and **OHØR** (OH2PM, op) for High Power. For W/VE, **W2GD** came out on top in QRP, **VE3NE** ended up in first for Low Power, and **VY2ZM** topped the list for High Power.

Multi-Op Results

In the well-represented Multi-Op category, the top World score was turned in by the crew at **P33W**. Although they had fewer QSOs, they found more than enough multipliers to beat the **CN3A** team.

In the W/VE Multi-Op competition, the **K1LZ** team beat out the **NØNI** team by a sizable amount. Of course, this is not too surprising with K1LZ being on the East Coast (EMA) and NØNI in the Midwest (IA).

Scoring Table Abbreviations

Power Abbreviation	Power
A	QRP
B	Low Power
C	High Power
Category Abbreviation	Category
A	Single-Operator, Mixed Mode
B	Single-Operator, Phone Only
C	Single-Operator, CW Only
D	Multioperator

Continental Leaders

AFRICA

Call	Score	Power	Category
EA8OM	327,120	A	B
CT3HF	128,920	A	B
EA8BQM	12,296	A	B
EA8CQW	12,150	A	B
EA8ANE	2,924	A	B
5R8KD	145,376	A	C
CN8YE	55,775	B	B
EC8ADS	14,178	B	B

EA8CNR	3,706	B	B
EA8CER	60,784	B	C
CT9/DK7TM	39,366	B	C
ZS5NK	9,030	B	C
EA8NQ	38,415	C	B
V55X (V51YJ, op)	10,863	C	B
ZS6WR (ZS6C, op)	9,954	C	B
ZS1JY	377	C	B
AN8A (EA8MQ, op)	558,752	C	C
ZS4U	153,538	C	C
AN8X (EA8AY, op)	55,620	C	C

ASIA

Call	Score	Power	Category
JR3RWB	104,432	A	A
RAØAY	60,839	A	A
RK9DO	28,830	A	A
JK1TCV	10,950	A	A
JH1HGI	9,266	A	A
JM1NKT	386,694	A	B
RV9UP	327,060	A	B
RL9AA	310,437	A	B
UA9AX	268,920	A	B
JR4GPA	230,868	A	B
4LØA (UUØJM, op)	3,239,784	A	C
RG9A (UA9AM, op)	2,888,291	A	C
RX9FM	1,587,069	A	C
JF1SQC	942,900	A	C
JJ5GMJ	611,028	A	C
JA2MWV	6,864	B	A
4L1FP	1,092	B	A
BD4EXL	696	B	A
BD6QDR	476	B	A
JO7FGZ/1	24	B	A
UA9QA	315,639	B	B
A61BK	310,216	B	B
7Z1SJ	271,719	B	B
RU9CD	235,024	B	B
TA3GO	228,744	B	B
RU9AC	1,157,166	B	C

US/VE Top Ten

Single Operator, Mixed Mode, QRP

Call	Score
N5DO	124315
NØKE	119952
NØLY	21645
W5ESE	9430
VE3MGY	5698
VA3JFF/W1	2226
N7FG	192

Single Operator, Mixed Mode, Low Power

Call	Score
VE3DZ	1187130
W5ZL	779736
VE2XAA	567486
NR3X (N4YDU, op)	498945
K9OM	479493
KØAD	347136
WØVX	278460
KB9OWD	269512
W9IU	251937
VE3FDT	242423

Single Operator, Mixed Mode, High Power

Call	Score
VE3EJ	2202720
NN1N	1839548
VE3AT	1795702
K6XX	1273938
K3ZO	1212399
NR4M (N2YO, op)	1029210
N4PN	983475
AA4NC	929460
K4ZW	914880
WØEWD	877289

Single Operator, Phone Only, QRP

Call	Score
N1YWB	15300
W2EVL	10848
WD9FTZ	7872
VA3WPV	6076
WBØIWG	4752
WB7OCY	4379
NDØC	3993
N1TM	2600
NN7SS (K6UFO, op)	420
KC9AMM	215

UA9QCQ	1,095,446	B	C
RA9CB	429,744	B	C
EK3SA	426,844	B	C
JA7NVF	363,264	B	C
RA9CEX	108,288	C	A
JR1NKN	38,554	C	A
RA9MU/QRP	9,000	C	A
UAØSBQ	3,025	C	A
E21AOY/QRP	986	C	A
ZC4LI	1,365,298	C	B
RX9AF	976,825	C	B
RA9AP	960,466	C	B
UA9SP	898,875	C	B

RA9DZ	827,377	C	B
RX9AM	1,801,048	C	C
RX9TL/9	1,785,238	C	C
RX9SA	1,084,608	C	C
JF1NHD	1,043,469	C	C
RXØAW	717,332	C	C
P33W	5,388,692	D	C
5B4AII (RW3QC, op)	4,232,390	D	C
RC9O	3,091,041	D	C
RK9CWW	2,746,089	D	C

EUROPE

Call	Score	Power	Category
OK7CM	495,444	A	A
HA5BKV/P (HA1CW, op)	476,000	A	A
HG1W (HA1WD, op)	462,738	A	A
OK2BYW	281,952	A	A
OM7DX	232,854	A	A
UT2UZ	1,332,954	A	B
RU6CQ	1,193,084	A	B
F6HKA	983,178	A	B
OK6Y (OK2PTZ, op)	732,978	A	B
RA3AWW (YT1NT, op)	651,248	A	B
RA3CO	2,996,266	A	C
RS3A (RA3CW, op)	2,338,635	A	C
RG6G (RW6HX, op)	2,261,136	A	C
RG3K	2,181,235	A	C
RO4W (RD4WA, op)	1,687,018	A	C
HA5KDQ/P (HA5NB, op)	203,010	B	A
PE2KP	92,225	B	A
SQ2DYF	45,506	B	A
RA3AD	39,795	B	A
YO2LYN	39,312	B	A
IZ2FOS	789,504	B	B
UV8M (UX3MR, op)	761,172	B	B
EF1W (EA1WS, op)	649,080	B	B
RW1CW	557,504	B	B
SP4XQN	470,850	B	B
UT5UGR	2,234,581	B	C
UW5Q	1,857,910	B	C

Single Operator, Phone Only, Low Power

Call	Score
N1UR	516436
N2QT	218686
KK1KW	177372
K1PLX	156712
VE9ZX	143262
KA2KON	78068
W5GFI	63609
N3TR	54590
KS4X	49588
VE9JT	46460

Single Operator, Phone Only, High Power

Call	Score
W7WA	1595104
K5TR	1241080
WB9Z	1206612
KØRH	530506
K5ER	367920
W4SVO	309894
W6AFA	176619
WA5ZUP	165040
NX9T	158200
WA4TII	135468

Single Operator, CW Only, QRP

Call	Score
W2GD	427064
N2WN	182574
AA1CA	48590
K4MF	46547
VA3SB	42704
N4PSE	41310
W5JBV	33900
VA3RKM	24882
NVØU	19270
VE6BIR/3	18753

Single Operator, CW Only, Low Power

Call	Score
VE3NE	714340
W1RM	674240
W7YAQ	391170
WB4TDH	363952
W1NN	334888
W5EK	326669
WD4AHZ	307992
W2/E78WW	290601
WI2E	276750
KTØK	264864

US5D (UT7DX, op)	1,800,844	B	C
ES5RW	1,791,837	B	C
YL7A	1,707,573	B	C
HG5A (HA5IW, op)	530,190	C	A
OK3C (OK2ZC, op)	379,055	C	A
RA3AN	340,527	C	A
HA6IAM	309,468	C	A
UA1CUR	270,972	C	A
HG7T (HA7TM, op)	1,986,640	C	B
EF3A (EA3KU, op)	1,308,300	C	B
EA7RM	1,228,430	C	B
OL6P (OK2PP, op)	995,775	C	B
RK1AM	922,500	C	B
OHØR (OH2PM, op)	2,744,928	C	C
4O3A (UT5UDX, op)	2,414,548	C	C
OL3A (OK1DRQ, op)	1,960,497	C	C
UU5WW	1,911,621	C	C
YU1LA	1,902,892	C	C
UZ2M	3,970,941	D	C
HG6N	3,631,264	D	C
RK4FWX	3,373,755	D	C
ED5T	2,526,810	D	C

NORTH AMERICA

Call	Score	Power	Category
NP3CW	3,968	A	B
FG1PP	2,822	A	B
AL9A	159,948	A	C
XE1V	42,840	A	C
TI5N (W8QZA, op)	68,052	B	A
CO7PH	37,734	B	A
KP2/AA1BU	487,485	B	B
TG9ANF	86,668	B	B
WP3GW	27,222	B	B
XE2YOM	4,587	B	B
HP3FTD	3,434	B	B
J39BS	225,968	C	B
KP2B (WP3A, op)	35,510	C	B
HP1AC	25,740	C	B
XE2MX	14,357	C	B
VP94ØØI (WA4PGM, op)	7,902	C	B
XE2WWW	26,474	C	C
XE1EE	228	C	C
XE2WK	17,877	D	C

OCEANIA

Call	Score	Power	Category
DV1UBY	2,006	A	A
KH7T	10,763	A	B
VK4XES	10,626	A	B
YC6JRT	1,525	A	B
VK3TDX	134,640	A	C
WH2X	121,920	A	C
KH6FI	68,322	A	C
YB4IR	27,544	A	C

Single Operator, CW Only, High Power

Call	Score
VY2ZM	2599324
K3CR (LZ4AX, op)	1898775
N2IC	1688640
N4AF	1596540
VE2EKA (VA2WDQ, op)	1351668
NR5M (N5NU, op)	1330483
W5KFT (K5PI, op)	1307326
N4OGW	1265424
N3BB	1256312
AA3B	1127910

Multioperator

Call	Score
K1LZ	2607358
NØNI	1705075
NX5M	1584198
WE3C	1455988
KD4D	1356906
VE3UTT	1231560
W5XZ	1135048
KB1H	1122730
WØSD	1095984
K2LE	1089840

DV1JM	113,157	B	B
YB1TJ	42,712	B	B
YC9MDX	36,088	B	B
DW1VSR	15,588	B	B
9M6TMT	13,068	B	B
KH7XS	2,074,642	B	C
YBØNDT	65,670	B	C
DU1AV	44,820	B	C
YBØNFL	35,496	B	C
NH6WZ	20,664	B	C
VK2AYD	123,772	C	B
ZL1TM	109,536	C	B
VK4TT	25,774	C	B
ZL3AB	10,742	C	B
VK5SW	9,310	C	B
9M6BG	789,276	C	C
KG6DX	310,210	C	C
VK6DXI	165,890	C	C
KH6ZM	98,910	C	C
ZL3TE (W3SE, op)	91,087	C	C
9M6BRC	967,980	D	C
VK6AA	723,564	D	C
WH2DX	386,628	D	C
ZL1T (ZL1ANH, op)	37,840	D	C

SOUTH AMERICA

Call	Score	Power	Category
PY2SEX	272,300	A	B
LQØF	153,500	A	B
PP5JY	16,320	A	B
PY2HL	4,256	A	B
PY4FQ	2,375	A	B
PJ2T (K8LEE, op)	1,245,780	A	C
PY2WC	464,695	A	C
PV8AA (PV8DX, op)	435,204	A	C
AY8A (LU8ADX, op)	106,118	A	C
PY2WAS	90,558	A	C
PY2BN	5,214	B	A
PY2SF	1,302	B	A
PY5AP	112	B	A
ZX2B (PY2MNL, op)	251,120	B	B
PW2P	90,364	B	B
LU2UF	74,354	B	B
YY5LI	60,027	B	B
HC2GF	47,478	B	B
LV5V (LU5VV, op)	232,092	B	C
LU1FDU	170,251	B	C
LR2F	53,720	B	C
LTØH (LU3HY, op)	26,520	B	C
LW3EWZ	24,240	B	C
PY2QA	378	C	A

LU3FID	57,998	C	B
XR3A (CE3DNP, op)	26,325	C	B
YV1FM	26,075	C	B
LU4MHQ	11,594	C	B
PY5MJ	9,856	C	B
PYØFF	30,150	C	C
LU1DZ	12,204	C	C
HC2A	6,952	C	C
PY3AU	4,480	C	C
ZY7C	1,913,520	D	C
LP1H	1,720,722	D	C
LT1F	1,288,854	D	C
CE4CT	1,270,030	D	C
LS1D	847,197	D	C

World Top Ten

Single Operator, Mixed Mode, QRP

Call	Score
OK7CM	495444
HA5BKV/P (HA1CW, op)	476000
HG1W (HA1WD, op)	462738
OK2BYW	281952
OM7DX	232854
RW3AI	230985
LY4BF	182223
IKØXBX	176571
SP9RQH	130857
N5DO	124315

Non W/VE Top Ten

Single Operator, Mixed Mode, QRP

Call	Score
OK7CM	495444
HA5BKV/P (HA1CW, op)	476000
HG1W (HA1WD, op)	462738
OK2BYW	281952
OM7DX	232854
RW3AI	230985
LY4BF	182223
IKØXBX	176571
SP9RQH	130857
JR3RWB	104432

Single Operator, Mixed Mode, Low Power

Call	Score
UT2UZ	1332954
RU6CQ	1193084
VE3DZ	1187130
F6HKA	983178
W5ZL	779736
OK6Y (OK2PTZ, op)	732978
RA3AWW (YT1NT, op)	651248
VE2XAA	567486
UX1UX	559793
RV9WZ/2	529074

Single Operator, Mixed Mode, Low Power

Call	Score
UT2UZ	1332954
RU6CQ	1193084
F6HKA	983178
OK6Y (OK2PTZ, op)	732978
RA3AWW (YT1NT, op)	651248
UX1UX	559793
RV9WZ/2	529074
AM1S (EA1OS, op)	460556
UT8IM	443718
RA3NC	430860

Single Operator, Mixed Mode, High Power

Call	Score
4LØA (UUØJM, op)	3239784
RA3CO	2996266

Single Operator, Mixed Mode, High Power

Call	Score
4LØA (UUØJM, op)	3239784
RA3CO	2996266

RG9A (UA9AM, op)	2888291	RG9A (UA9AM, op)	2888291
RS3A (RA3CW, op)	2338635	RS3A (RA3CW, op)	2338635
RG6G (RW6HX, op)	2261136	RG6G (RW6HX, op)	2261136
VE3EJ	2202720	RG3K	2181235
RG3K	2181235	RO4W (RD4WA, op)	1687018
NN1N	1839548	LZ3FN	1664664
VE3AT	1795702	MDØCCE	1653985
RO4W (RD4WA, op)	1687018	YT3M (YU1YV, op)	1613052

Single Operator, Phone Only, QRP

Call	Score
HA5KDQ/P (HA5NB, op)	203010
PE2KP	92225
TI5N (W8QZA, op)	68052
SQ2DYF	45506
RA3AD	39795
YO2LYN	39312
CO7PH	37734
F5BEG	35464
HB9EGA/P	17920
N1YWB	15300

Single Operator, Phone Only, QRP

Call	Score
HA5KDQ/P (HA5NB, op)	203010
PE2KP	92225
TI5N (W8QZA, op)	68052
SQ2DYF	45506
RA3AD	39795
YO2LYN	39312
CO7PH	37734
F5BEG	35464
HB9EGA/P	17920
IV3AOL	10528

Single Operator, Phone Only, Low Power

Call	Score
IZ2FOS	789504
UV8M (UX3MR, op)	761172
EF1W (EA1WS, op)	649080
RW1CW	557504
N1UR	516436
KP2/AA1BU	487485
SP4XQN	470850
YO7LFV	457968
8SØC	457864
MIØM (MIØSAI, op)	449792

Single Operator, Phone Only, Low Power

Call	Score
IZ2FOS	789504
UV8M (UX3MR, op)	761172
EF1W (EA1WS, op)	649080
RW1CW	557504
KP2/AA1BU	487485
SP4XQN	470850
YO7LFV	457968
8SØC	457864
MIØM (MIØSAI, op)	449792
F5OWT	437382

Single Operator, Phone Only, High Power

Call	Score
UT5UGR	2234581
KH7XS	2074642
UW5Q	1857910
US5D (UT7DX, op)	1800844
ES5RW	1791837
YL7A	1707573
W7WA	1595104
SP9LJD	1594192
DP4K (DL8OBQ, op)	1291008
K5TR	1241080

Single Operator, Phone Only, High Power

Call	Score
UT5UGR	2234581
KH7XS	2074642
UW5Q	1857910
US5D (UT7DX, op)	1800844
ES5RW	1791837
YL7A	1707573
SP9LJD	1594192
DP4K (DL8OBQ, op)	1291008
RU9AC	1157166
UA9QCQ	1095446

Single Operator, CW Only, QRP

Call	Score
HG5A (HA5IW, op)	530190
W2GD	427064
OK3C (OK2ZC, op)	379055
RA3AN	340527
HA6IAM	309468
UA1CUR	270972
UA6LCJ	231040
N2WN	182574
SP4GFG	181984
DD1IM	178118

Single Operator, CW Only, QRP

Call	Score
HG5A (HA5IW, op)	530190
OK3C (OK2ZC, op)	379055
RA3AN	340527
HA6IAM	309468
UA1CUR	270972
UA6LCJ	231040
SP4GFG	181984
DD1IM	178118
UX8ZA	160227
OZ7BQ	128880

Single Operator, CW Only, Low Power

Call	Score
HG7T (HA7TM, op)	1986640
ZC4LI	1365298
EF3A (EA3KU, op)	1308300
EA7RM	1228430
OL6P (OK2PP, op)	995775
RX9AF	976825
RA9AP	960466
RK1AM	922500
UA9SP	898875
DJ6BQ	854095

Single Operator, CW Only, Low Power

Call	Score
HG7T (HA7TM, op)	1986640
ZC4LI	1365298
EF3A (EA3KU, op)	1308300
EA7RM	1228430
OL6P (OK2PP, op)	995775
RX9AF	976825
RA9AP	960466
RK1AM	922500
UA9SP	898875
DJ6BQ	854095

Single Operator, CW Only, High Power

Call	Score
OHØR (OH2PM, op)	2744928
VY2ZM	2599324
4O3A (UT5UDX, op)	2414548
OL3A (OK1DRQ, op)	1960497
UU5WW	1911621
YU1LA	1902892
K3CR (LZ4AX, op)	1898775
UW1M (UR5MW, op)	1895751
UA6LV	1858059
LY4L	1840370

Single Operator, CW Only, High Power

Call	Score
OHØR (OH2PM, op)	2744928
4O3A (UT5UDX, op)	2414548
OL3A (OK1DRQ, op)	1960497
UU5WW	1911621
YU1LA	1902892
UW1M (UR5MW, op)	1895751
UA6LV	1858059
LY4L	1840370
RX9AM	1801048
UWØK (USØKW, op)	1793790

Multioperator

Call	Score
P33W	5388692
CN3A	5061240
5B4AII (RW3QC, op)	4232390
U22M	3970941
HG6N	3631264
RK4FWX	3373755
CR3A	3117744
RC9O	3091041

Multioperator

Call	Score
P33W	5388692
CN3A	5061240
5B4AII (RW3QC, op)	4232390
U22M	3970941
HG6N	3631264
RK4FWX	3373755
CR3A	3117744
RC9O	3091041

RK9CWW	2746089		RK9CWW	2746089
K1LZ	2607358		RN9S	2582157

Regional Leaders

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)

Call	Score	Power	Category
VA3JFF/W1	2,226	A	A
VE2XAA	567,486	A	B
VE2AWR	114,363	A	B
WA2MCR	89,650	A	B
K3TN	71,388	A	B
W3DQN	41,325	A	B
NN1N	1,839,548	A	C
K3ZO	1,212,399	A	C
K5ZD	777,450	A	C
W1EBI	502,645	A	C
K1AR	280,945	A	C
N1YWB	15,300	B	A
W2EVL	10,848	B	A
WBØIWG	4,752	B	A
WB7OCY	4,379	B	A
N1TM	2,600	B	A
N1UR	516,436	B	B
KK1KW	177,372	B	B
K1PLX	156,712	B	B
VE9ZX	143,262	B	B
KA2KON	78,068	B	B
AD1DX	61,710	B	C
N1BCL	54,924	B	C
AD1L	46,102	B	C
WA1OUI	24,790	B	C
N2MUN	24,192	B	C
W2GD	427,064	C	A
AA1CA	48,590	C	A
W1IG	9,165	C	A
K8CN	3,565	C	A
N3XRV	2,720	C	A
W1RM	674,240	C	B
W2/E78WW	290,601	C	B
WI2E	276,750	C	B
VE9HF	239,065	C	B
AI2N	122,330	C	B
VY2ZM	2,599,324	C	C
K3CR (LZ4AX, op)	1,898,775	C	C
VE2EKA (VA2WDQ, op)	1,351,668	C	C
AA3B	1,127,910	C	C
WC1M	849,394	C	C
K1LZ	2,607,358	D	C
WE3C	1,455,988	D	C
KD4D	1,356,906	D	C

Division Winners

Single Operator, Mixed Mode, QRP

Division	Call	Score
MIDWEST	NØLY	21,645
NEW ENGLAND	VA3JFF/W1	2,226
ROCKY MOUNTAIN	NØKE	119,952
SOUTHWESTERN	N7FG	192
WEST GULF	N5DO	124,315
CANADA	VE3MGY	5,698

Single Operator, Mixed Mode, Low Power

Division	Call	Score
ATLANTIC	K3TN	71,388
CENTRAL	K9OM	479,493
DAKOTA	KØAD	347,136
DELTA	AD5WI	68,302
GREAT LAKES	KD8GOX	38,850
HUDSON	WA2MCR	89,650
MIDWEST	NR9A	144,780
NEW ENGLAND	KV1J	14,091
NORTHWESTERN	W7QN	68,292
PACIFIC	KD4HXT NR3X (N4YDU, op)	79,618 498,945
ROANOKE	N7BAN	28,717
ROCKY MOUNTAIN	NN4DF	28,372
SOUTHEASTERN	WA6FGV	99,830
SOUTHWESTERN	W5ZL	779,736
WEST GULF	VE3DZ	1,187,130

Single Operator, Mixed Mode, High Power

Division	Call	Score
ATLANTIC	K3ZO	1,212,399
CENTRAL	N9KO	3,675
DAKOTA	KDØS	46,325
DELTA	WO4O	619,650
GREAT LAKES	W8MJ	405,594
HUDSON	KD2RD	146,055
MIDWEST	WØEWD	877,289
NEW ENGLAND	NN1N	1,839,548
NORTHWESTERN	K7RL	187,187
PACIFIC	K6XX NR4M (N2YO, op)	1,273,938 1,029,210
ROANOKE	KEØUI	212,976
ROCKY MOUNTAIN	N4PN	983,475
SOUTHEASTERN	KC6X	311,952
SOUTHWESTERN	N5XZ	388,455
WEST GULF	VE3EJ	2,202,720

KB1H	1,122,730	D	C
K2LE	1,089,840	D	C

Single Operator, Phone Only, QRP

Division	Call	Score
ATLANTIC	W2EVL	10,848
CENTRAL	KC9AMM	215
DAKOTA	NDØC	3,993
GREAT LAKES	WD9FTZ	7,872
MIDWEST	NØAT	14
NEW ENGLAND	N1YWB	15,300
NORTHWESTERN	NN7SS (K6UFO, op)	420
PACIFIC	N1MMY	102
WEST GULF	W4PJP	18
CANADA	VA3WPV	6,076

Southeast Region (Delta, Roanoke and Southeastern Divisions)

Call	Score	Power	Category
NR3X (N4YDU, op)	498,945	A	B
NN4F	204,516	A	B
K3AN	175,942	A	B
WJ2D	80,040	A	B
AD5WI	68,302	A	B
NR4M (N2YO, op)	1,029,210	A	C
N4PN	983,475	A	C
AA4NC	929,460	A	C
K4ZW	914,880	A	C
NF4A	785,780	A	C
N2QT	218,686	B	B
KS4X	49,588	B	B
K4AOC	38,868	B	B
K4MDX	35,700	B	B
K4WES	24,548	B	B
K5ER	367,920	B	C
W4SVO	309,894	B	C
NX9T	158,200	B	C
WA4TII	135,468	B	C
KA8Q	80,073	B	C
N2WN	182,574	C	A
K4MF	46,547	C	A
N4PSE	41,310	C	A
W5JBV	33,900	C	A
K4OSO	17,155	C	A
WB4TDH	363,952	C	B
WD4AHZ	307,992	C	B
WA1FCN	247,616	C	B
KR4F	174,736	C	B
AA4FU	170,684	C	B
N4AF	1,596,540	C	C
N4OGW	1,265,424	C	C
K5GO	1,084,336	C	C
K4RO	900,900	C	C
K4BP (NA4K, op)	791,359	C	C
W5XZ	1,135,048	D	C
N1LN	919,996	D	C
K4PB	192,942	D	C
N4TCP	157,035	D	C
W4QM	125,400	D	C

Single Operator, Phone Only, Low Power

Division	Call	Score
ATLANTIC	N3TR	54,590
CENTRAL	KC9GZB	8,910
DAKOTA	WBØTSR	41,958
DELTA	KS4X	49,588
GREAT LAKES	W8KNO	41,712
HUDSON	KS2G	24,354
MIDWEST	KBØNHV	19,916
NEW ENGLAND	N1UR	516,436
NORTHWESTERN	N7FLT	11,094
PACIFIC	N3WG	42,180
ROANOKE	N2QT	218,686
ROCKY MOUNTAIN	K7RFW	3,328
SOUTHEASTERN	N2ESP	20,167
SOUTHWESTERN	K7MY	11,880
WEST GULF	W5GFI	63,609
CANADA	VE9ZX	143,262

Single Operator, Phone Only, High Power

Division	Call	Score
ATLANTIC	WA2ETU	22,836
CENTRAL	WB9Z	1,206,612
DELTA	K5ER	367,920
GREAT LAKES	N8KOJ	5,440
HUDSON	N2MUN	24,192
MIDWEST	KØRH	530,506
NEW ENGLAND	AD1DX	61,710
NORTHWESTERN	W7WA	1,595,104
PACIFIC	K6JAT	36,432
ROANOKE	NX9T	158,200
ROCKY MOUNTAIN	WA5ZUP	165,040
SOUTHEASTERN	W4SVO	309,894
SOUTHWESTERN	W6AFA	176,619
WEST GULF	K5TR	1,241,080
CANADA	VA3XH	54,684

Central Region (Central and Great Lakes Divisions; Ontario Section)

Call	Score	Power	Category
VE3MGY	5,698	A	A
VE3DZ	1,187,130	A	B

K9OM	479,493	A	B
KB9OWD	269,512	A	B
W9IU	251,937	A	B
VE3FDT	242,423	A	B
VE3EJ	2,202,720	A	C
VE3AT	1,795,702	A	C
W8MJ	405,594	A	C
VE3XN	143,260	A	C
VE3TW	60,590	A	C
WD9FTZ	7,872	B	A
VA3WPV	6,076	B	A
KC9AMM	215	B	A
W8KNO	41,712	B	B
KB8UJZ	41,448	B	B
VA3TPS	15,708	B	B
AB8JR	11,700	B	B
VA3SWG	9,575	B	B
WB9Z	1,206,612	B	C
VA3XH	54,684	B	C
K9JIG	25,155	B	C
K9DN	13,440	B	C
N9UY	10,340	B	C
VA3SB	42,704	C	A
VA3RKM	24,882	C	A
VE6BIR/3	18,753	C	A
KA6SGT	8,568	C	A
AI9K	2,940	C	A
VE3NE	714,340	C	B
W1NN	334,888	C	B
NS9I	127,846	C	B
K9QVB/9	120,972	C	B
VE3XD	110,096	C	B
K9NW	1,123,650	C	C
VE3OI	749,160	C	C
N8PW	488,270	C	C
N8BJQ	301,392	C	C
K8GL	297,675	C	C
VE3UTT	1,231,560	D	C
VE3YAA	475,008	D	C
NV8N	220,080	D	C
N2BJ	174,824	D	C
W8ZHO	129,759	D	C

Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)

Call	Score	Power	Category
N5DO	124,315	A	A
NØKE	119,952	A	A
NØLY	21,645	A	A
W5ESE	9,430	A	A
W5ZL	779,736	A	B

Single Operator, CW Only, QRP

Division	Call	Score
ATLANTIC	N3XRV	2,720
CENTRAL	KA6SGT	8,568
DAKOTA	KEØG	16,769
DELTA	N2WN	182,574
HUDSON	W2GD	427,064
MIDWEST	NVØU	19,270
NEW ENGLAND	AA1CA	48,590
NORTHWESTERN	N7OU	2,840
PACIFIC	KZ2V	910
ROANOKE	K4OSO	17,155
ROCKY MOUNTAIN	KIØG	3,633
SOUTHEASTERN	K4MF	46,547
SOUTHWESTERN	N7IR	16,700
WEST GULF	AA5TB	1,840
CANADA	VA3SB	42,704

Single Operator, CW Only, Low Power

Division	Call	Score
ATLANTIC	W2/E78WW	290,601
CENTRAL	NS9I	127,846
DAKOTA	KØHB	57,120
DELTA	WQ5L	149,467
GREAT LAKES	W1NN	334,888
HUDSON	K2ZC	89,345
MIDWEST	KTØK	264,864
NEW ENGLAND	W1RM	674,240
NORTHWESTERN	W7YAQ	391,170
PACIFIC	K6VVA	71,297
ROANOKE	AA4FU	170,684
ROCKY MOUNTAIN	NG7M (@ W7CT)	220,313
SOUTHEASTERN	WB4TDH	363,952
SOUTHWESTERN	K7WP	167,325
WEST GULF	W5EK	326,669
CANADA	VE3NE	714,340

Single Operator, CW Only, High Power

Division	Call	Score
ATLANTIC	K3CR (LZ4AX, op)	1,898,775
CENTRAL	K9NW	1,123,650
DAKOTA	KØJJR	60,119

DELTA	N4OGW	1,265,424
GREAT LAKES	N8PW	488,270
HUDSON	NO2R	631,274
MIDWEST	NØAV	612,794
NEW ENGLAND	WC1M	849,394
NORTHWESTERN	K7RAT (N6AN, op)	839,460
PACIFIC	N6RO	1,016,610

KØAD	347,136	A	B	ROANOKE	N4AF	1,596,540
WØVX	278,460	A	B	ROCKY MOUNTAIN	N2IC	1,688,640
NR9A	144,780	A	B	SOUTHEASTERN	N4BP	634,068
VE4YU	126,360	A	B	SOUTHWESTERN	K6NA	938,604
WØEWD	877,289	A	C	WEST GULF	NR5M (N5NU, op)	1,330,483
N5XZ	388,455	A	C	CANADA	VY2ZM	2,599,324
KEØUI	212,976	A	C			
K7IA	194,134	A	C			
KØDEQ	133,224	A	C			
NDØC	3,993	B	A			
W4PJP	18	B	A			
NØAT	14	B	A			
W5GFI	63,609	B	B			
KJ5T	42,336	B	B			
WBØTSR	41,958	B	B			
WAØLJM	34,650	B	B			
AB5NX	32,760	B	B			
K5TR	1,241,080	B	C			
KØRH	530,506	B	C			
WA5ZUP	165,040	B	C			
K9MWM	50,880	B	C			
AD5XD	40,576	B	C			
NVØU	19,270	C	A			
KEØG	16,769	C	A			
KIØG	3,633	C	A			
AA5TB	1,840	C	A			
AC7AF	1,768	C	A			
W5EK	326,669	C	B			
KTØK	264,864	C	B			
NG7M (@ W7CT)	220,313	C	B			
N5AW/Ø	143,360	C	B			
K6XT	124,441	C	B			
N2IC	1,688,640	C	C			
NR5M (N5NU, op)	1,330,483	C	C			
W5KFT (K5PI, op)	1,307,326	C	C			
N3BB	1,256,312	C	C			
NØAV	612,794	C	C			
NØNI	1,705,075	D	C			
NX5M	1,584,198	D	C			
WØSD	1,095,984	D	C			
K5CM	415,776	D	C			
KØKX	249,612	D	C			

**Multioperator
Division**

Division	Call	Score
ATLANTIC	WE3C	1,455,988
CENTRAL	N2BJ	174,824
DAKOTA	WØSD	1,095,984
DELTA	W5XZ	1,135,048
GREAT LAKES	NV8N	220,080
HUDSON	K2LE	1,089,840
MIDWEST	NØNI	1,705,075
NEW ENGLAND	K1LZ	2,607,358
NORTHWESTERN	N7WA	607,662
PACIFIC	K6LRG	684,000
ROANOKE	N1LN	919,996
ROCKY MOUNTAIN	KE7FBY	1,818
SOUTHEASTERN	K4PB	192,942
SOUTHWESTERN	N7AT	854,274
WEST GULF	NX5M	1,584,198
CANADA	VE3UTT	1,231,560

**West Coast Region (Pacific, Northwestern and
Southwestern Divisions; Alberta, British Columbia
and NWT Sections)**

Call	Score	Power	Category
N7FG	192	A	A
WA6FGV	99,830	A	B
KD4HXT	79,618	A	B
W7QN	68,292	A	B
K6RAD	51,436	A	B
AA6YX	48,484	A	B

K6XX	1,273,938	A	C
KC6X	311,952	A	C
VA7ST	290,864	A	C
K7RL	187,187	A	C
W6TK	165,094	A	C
NN7SS (K6UFO, op)	420	B	A
N1MMY	102	B	A
N3WG	42,180	B	B
K6EGF	16,536	B	B
K7MY	11,880	B	B
KI6JJW	11,174	B	B
N7FLT	11,094	B	B
W7WA	1,595,104	B	C
W6AFA	176,619	B	C
NB7V	111,680	B	C
N6IFR	78,540	B	C
KB6FB	60,513	B	C
N7IR	16,700	C	A
N6MA	8,640	C	A
N7OU	2,840	C	A
KZ2V	910	C	A
KX7L	627	C	A
W7YAQ	391,170	C	B
VA7KO	201,960	C	B
K7QQ	186,147	C	B
K7WP	167,325	C	B
WN6K	127,204	C	B
N6RO	1,016,610	C	C
K6NA	938,604	C	C
K7RAT (N6AN, op)	839,460	C	C
KC7V	605,895	C	C
K4XU	373,406	C	C
N7AT	854,274	D	C
K6LRG	684,000	D	C
N7WA	607,662	D	C
N7BV	603,896	D	C
NX6T	360,844	D	C

Close Races

The closest race this year involved the HQ stations. As previously reported, the **DAØHQ** team beat the **AØ8HQ** team by a mere 1.0%. The **DAØHQ** team more than doubled the number of QSOs made by **AØ8HQ**. And coupled with their 39 more multipliers, the **DAØHQ** team just made up for the fact that the **AØ8HQ** QSOs with European Zones from Zone 36 location in Africa were worth five points compared to three points for **DAØHQ** working other European Zones. That point differential is tough to overcome, but the **DAØHQ** team did it.

The second race this year was between two W/VE stations in the Single-Op, Mixed QRP category. In this tight race, **N5DO** squeaked by **NØKE** by 3.6%. Interestingly, **N5DO** had 35 fewer QSOs than **NØKE**, but **N5DO** managed to find 13 more multipliers. There's a good lesson here – don't sacrifice multipliers for rate.

The third closest race was between **IZ2FOS** and **UV8M** (UX3MR) in the Single-Op, Phone Low Power category. **IZ2FOS** edged out **UV8M** by 3.7%. **IZ2FOS** ended up with enough QSOs more than **UV8M** to make up for somewhat fewer multipliers than **UV8M**.

A West Coast Horse Race

Although this write-up focuses on the winners of the various categories, the majority of the entrants in this contest do not expect to come out on top. They enter for other reasons. One such reason is for the sheer fun of it. Another reason is to participate in a local competition. One such local competition was between the Multi-Op teams of **N7WA** and **N7BV**.



A friendly competition between multi-single entries by Chuck N7BV (left) and Mike N7WA (right) turned into a real Washington horse race! (Photo – Carl Luetzelschwab K9LA)

A friendly competition between multi-single entries by Chuck N7BV (left) and Mike N7WA (right) turned into a real Washington horse race! (Photo – Carl Luetzelschwab K9LA)

After log checking, the N7WA crew squeezed by (and I really mean squeezed by) the N7BV crew by 0.6%.

As is seen in other close races, the N7WA team made 40 fewer QSOs, but their multiplier total (162 compared to N7BV's 152) allowed them to come out on top. Note the comparison of QSOs, mults, points, and score in N7WA's sidebar. This indeed was a photo finish and you can read more about it in the sidebar.

Propagation

The 2009 contest appears to have been blessed with some great sporadic-E openings in both Europe and North America. This resulted in several European HQ stations making close to 3000 QSOs on 15 meters and close to 2000 QSOs on 10 meters. Not bad at the solar minimum, huh?

For more details on propagation during the contest, check out the "Propagation" column in the January/February 2010 issue of the *National Contest Journal* (NCJ).

The 2010 Contest

Mark your calendars for the weekend of July 10 and 11 this year. Remember that WRTC-2010 (with the participants located in Russia) will run concurrently with the IARU contest – this should make for a very interesting event.

W1AW Takes to the North for IARU 2009

by Larry Ledlow, Jr. N1TX

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When Rich Strand KL7RA first suggested a W1AW operation from Alaska to a core group of KL7 contesters, the response was a resounding “YOU BETCHA!” Some may have used more colorful terms but were equally supportive. A lot of hard work ensued, but the results were astounding, and the experience for the operators was very enriching.

The seed for W1AW/KL7 had been planted several years ago when Ralph “Gator” Bowen N5RZ traveled to Alaska to help Rich build a new multi-multi contest station on the Kenai Peninsula. During a discussion about contest plans, Gator mentioned it would be a great idea for KL7RA to host W1AW for the IARU, which Gator later suggested to Dave Patton NN1N at ARRL Headquarters. At the time, Rich's station was in early stages of construction, but the story in 2009 would be quite different.

In the fall of 2008, Dave NN1N sent an e-mail to Rich asking if the KL7RA multi-op station was ready. Dave Sumner K1ZZ apparently hoped Alaska and Hawaii would get on during IARU in conjunction with their 50 years of statehood celebrations. Rich then asked Frank Hurlburt KL7FH, Corliss Kimmel AL1G, Wigi Tozzi AL7IF, and the gang at KL2R if they would help, along with the three owners of HC8N and all their CW crew. The head count seemed promising, so Rich replied to ARRL, “We are pleased to do this.”

The Plan and Preparations

KL7RA would form the core of IARU operations with all-band CW, but the IARU contest rules also permit headquarters operations to network multiple station locations. Alaska covers a vast geographic area with widely varying propagation conditions, and contestants trying to work W1AW/KL7 would benefit from SSB operations scattered across the state. Ideally, other stations would be located in the southeastern panhandle, in the south-central region near Anchorage, and finally in the interior near Fairbanks. In the end, no southeastern stations were activated, but W1AW/KL7 was radiated from Kenai, Anchor Point, Willow, Big Lake, and Fairbanks

Table 1 – Radio Resources used in W1AW/KL7 operations

Band	Radio	Amp	Antennas
Kenai			
160	TS-850	Alpha	1/4-wave vertical
80	IC-781	Alpha	Four-square
40	IC-781	QRO	Full-size, three-element yagi (from <i>ARRL Antenna Handbook</i>)
20	IC-781	QRO	5/4 stacked mono-banders; three-element fixed JA
15	IC-781	Alpha	4/4/4 and 5/5 stacked mono-banders
10	TS-850	Alpha	5/5/5 stacked mono-banders
Two Rivers			
20-10	FT-950	ACOM A1000	Force 12 C3 at 55 feet fixed on Americas
Willow			
20-10	MkV Field	Drake L7	TH7 at 130 feet; TH6 at 90 feet; TH6 at 50 feet
Big Lake			
20	FT-1000MP	4-1000 tube	4-element Hygain at 90 feet
40	IC-756Pro	3-500Z tube	3-element Hygain at 132 feet
Anchor Point			
80	FT-857D	SB200	TET 43-ft vertical with 60 radials



Frank KL7FH set about immediately for plans to improve his contest shack in the small community of Willow about an hour north of Anchorage. Sadly, though, Frank went Silent Key suddenly in mid-November. Nevertheless, his widow Corliss AL1G immediately promised to press on and to see Frank's dream come alive. As she said, "He'd been contesting for over 30 years and really enjoyed it, but this was something extra special to him."

Muskeg near the sea with radials make for a hot vertical ground plane on 75 meters. (Photo - Kris Kerce AL2F)

Pre-contest, the W1AW/KL7 team estimated 2400 contacts, but only if 20 meters would stay open to Europe in the evening for a few hours. Despite the continuing low sunspot numbers, Rich hoped for some decent propagation on 20 and 40 meters so that the team around the state would have some fun and any contacts on 15 would be a bonus. Propagation on 80 meters SSB to the West Coast would be likely, and Kris Kerce AL2F promised to keep that band alive after putting up a new antenna at his Anchor Point location about 60 miles south of KL7RA.



Meantime, Rich continued to update and shake down his shack to ensure comfortable, effective multi-multi operations.

Ken K1EA on 20 meters at W1AW/KL7 on the Kenai Peninsula (Photo - Ward Silver NØAX)

Ken K1EA on 20 meters at W1AW/KL7 on the Kenai Peninsula (Photo - Ward Silver NØAX)

Having recently retired his MS-DOS logging computers, the IARU contest required all new Windows XP PC's, flat-screen displays, Ethernet network, router, and server. Rich worked with Ben Buettner DL6RAI to determine Win-Test at all locations would support the network operation. Steve K6AW would wring out the new logging software during the WPX CW contest. Wigi AL7IF, Bob N6TV, and Herve F6HRY worked hard to ensure the server software and the virtual private network between stations were set up, tested, and reliable.

The 40 meter high beam at 180' and a 3-element 20 meter beam fixed on JA at W1AW/KL7 – the station of KL7RA. (Photo - Ward Silver NØAX)



Corliss AL1G originally planned to add a station from Anchorage, but she opted for a last-minute change to Willow. The Willow station had some challenges, but KL7FH had spent a lot of time there with help from Randy Vallee KL7Z and Bob Engberg KL5E to get the station ready. When Frank passed away in November, both continued to work on the station, contributing many hours and some of their own equipment.

Corliss offered, “My thanks to them for their contributions in helping Frank to make the Willow cabin the great station that it is.”

The Big Lake station of Frank Chamberlain WL7O and Debbie Underwood KL7OU was pushed into service for the long-haul on 40 meters SSB, which would require a new tower and antenna installation. When Rich first mentioned that he was taking on the IARU contest, WL7O states he “had no idea what was to be involved. Knowing that it would be a monumental task on Rich's part, I offered to help out.” Frank credits Debbie for the drive and inspiration. “Without her, none of this would have taken place. Debbie is the champ!” Kevin Forster NL7Z proved instrumental in the Big Lake project. He loaned extra rigging, labored in his spare time, and provided supplies to finish the 40-meter antenna at the eleventh hour when all the stores were closed. WL7O said, “Kevin has a real love of this hobby and his support in this project shows just that.” Steve Tolly KL7FZ assisted with parts and materials from his extensive inventory to ensure Big Lake was ready in time for the big event.

The Two Rivers Contest Club offered up the KL2R station located about 20 miles east of Fairbanks. Although plans for an additional tri-bander for Europe and the South Pacific went unfulfilled, Gary Pearse NL7Y loaned an ACOM 1000 amplifier for added kick behind the FT-950 transceiver. Elaine Larson N6PU delivered a five-kilowatt generator to power it all. Dan Wietchy KL1JP and I had only minor preparations to complete the RF and amplifier electrical cabling. We gathered spare equipment and double-checked antenna tuning and switching. Logging, control, and network software had been tested repeatedly during the previous two weeks and up to the final hours leading to the contest start. With three hours to go, the KL2R system was connected and synchronized with everyone else.

Three, Two, One...

Rich had the deck stacked in Kenai with world-class operators from the HC8N CW contest group. Those operators gave up their own IARU entry from the Galapagos Islands to support the Alaskan effort. KL7RA later told us, "If you think you are a good code man, work with these guys for a contest." Gator N5RZ, Ward NØAX, Ken K1EA, and Tom K1KI make an impressive team and have made significant contributions to contesting over the past three decades. They know how to work together as a team and exercise the technology at their fingertips.

At exactly 12:00:00 UTC on July 11th, the first calls went out. Immediately, all the bands were active. Even though 15 meters SSB netted only four contacts in as many hours at the beginning, someone was there calling, "CQ W1AW/KL7" to cover any possible contact. All the operators were excited to give out the special call. Despite a slow start in Fairbanks, the other stations racked up impressive rates. In the first hour,

450 contacts were in the log, and average rate for the entire 24 hours was around 250 per hour.



Left to right at W1AW/KL7: 15-meter stack, 160-meter vertical, 20-meter stack (Photo - Ward Silver NØAX)

Almost from the start, propagation far exceeded the team's collective expectations, and adrenaline flowed freely for the next 24 hours. As NØAX put it, "Conditions were simply fabulous. One guy from Washington said

the conditions were scary, they were so unexpectedly good. We thought it might be a 'two band' contest (meaning only two bands open at any time) but at one point the KL7RA CW team was on 80 through 10 and making QSOs! The hundreds of QSOs on 15 and 10 meters were the best anyone had done in the past four or five years in any DX contest (from Alaska). 20 and 40 were bottomless pits of QSOs. I worked Europe on 20 nearly all the time. So we got quite lucky and it was great to be giving out Alaska." This was Ward's second W1AW portable operation for IARU.

The special Win-Test configuration for headquarters stations worked flawlessly, despite some initial loading issues. The Cisco VPN client needed for connectivity proved fairly predictable and easy to set up. Everyone found the Win-Test gab feature a real boon to coordinating activity across the state. Dan KL1JP said, "It was truly amazing to watch the Win-Test gab window; stations being passed from one band and op to another, reports of changing band conditions and of course, the camaraderie, issued personal challenges and the humor that were often displayed."

Our lost colleague Frank KL7FH was on everyone's mind before and during the contest, but Corliss had a particularly touching moment: "As I worked the contest late into the night, I got the feeling that perhaps he was there in spirit, watching over me as was his usual way when I was on the radio—looking at the score, checking the amp and the radio. Then squeezing my shoulder, patting my back and a kiss on my head before

going back to whatever project he was working on.”

When the clock ran out, Win-Test showed more than 6000 contacts in the log. It had been an amazing 24 hours. Ward wrote soon after, “I think the goal of 5 million points was assumed to be impossibly high at this point in the solar cycle, but we got over 5.5M!”

The Internet soon began to run with comments about W1AW/KL7. Many hams like Kenny Silverman K2KW posted compliments for the impressive operation: “Thanks for such a great job representing W1AW! I was also amazed you were able to hear my signals using a 20-meter inverted-V with the apex up 10 feet, and I could touch the ends. It was supported by my wife’s feather duster! Running 100 watts.”

Dan KL1JP toughed out a fussy 15-meter band for the first 12 hours in Fairbanks, but he set a number of personal firsts. “First time I saw logging that rapid, first time as a multiop, first time I used an amplifier (thanks Gary!) and of course first time I used the W1AW/KL7 call sign.” Gary NL7Y ended his late shift with more personal determination. He said, “After over 12 hours of fun this weekend in the greatest hobby ever, I came home refreshed at 5 AM, and resolved to do more of the same and improve my operating.”

I personally had a huge sense of relief when I powered off the generator at 1201Z Sunday. I had slept barely three hours in the previous 48. But I drifted off an hour later feeling a great sense of accomplishment, tremendous



Tom K1KI after finishing the contest on 80 meters at W1AW/KL7 (Photo - Ward Silver NØAX)

pride in everyone’s teamwork, and above all, real honor in having been invited to participate in such a special event. Rich KL7RA was quick to recognize his XYL Jyl, who kept everyone fed and “fixed a super breakfast at 4:01 AM for the Kenai team.” Jyl generously hosted an excursion to Homer for the non-hams during the contest, so everyone benefitted. All our families deserve thanks.

W1AW/KL7 will definitely go down in the history books as a once-in-a-lifetime experience for most of us. We came together as a true, cohesive Alaskan community even though we were scattered hundreds of miles apart. The project might have required more duct tape than some others, but the fun we had was enough to fill a logbook many times over. You can read more details at the [KL2R blog](#).

N1YWB Single-Op Phone-only QRP

By Jeff Laughlin, N1YWB

I entered SO Phone QRP; always a brave decision. My contest station was quite modest, a K2 with an 80 meter dipole up about 40 feet. I awoke to discover my dipole had blown down in the night. I scrambled and got it back up a few feet higher than before (Am I the only one who uses a shore-casting rod with a 4-oz sinker to hang dipoles?) and got on the air literally one minute before the start.

Band conditions were mostly awful. Most signals were extremely weak the whole time. I started on 20 and it was fair. I made some good contacts on 15 meters while it was open. In the evening 20 meters became fairly good. When it shut down I switched to 40 meters which was ok but dropped off to poor by the end. I only made one contact on 80 meters; it never opened for me and had very high QRN. I made one QSO on 10 meters and I heard a few other stations in there but it never really opened.

With four hours left in the contest my rate dropped to four (per hour) and I started falling asleep at the dial; that's when I pulled the plug and went to bed. The funny thing was that I could still hear a few strong stations. I suspect perhaps the bands were open but I wasn't the only one who threw in the towel early. Overall 20 was my workhorse band with 15 and 40 both taking some share. I also lost about five hours due to thunderstorms.

I think I did pretty well, all things considered. 135 QSOs and 53 mults for a claimed score of 16,059; not bad for five watts into a dipole! Persistence and skill really do play a powerful role in contest performance. Somebody with big-gun antennas could probably clean up in this category, because there are so few serious entries.

The IARU Battle *Near* Seattle

by Michael Dinkelman, N7WA and Chuck Jones, N7BV

[We'll start with N7WA's perspective...]

In Washington State, when you say multi-op, the image of Rush Drake W7RM's station usually comes to mind. Since his passing, multi-ops have been pretty much limited to Chuck Jones N7BV's station up in the far Northwest corner of the state or the occasional rogue operation. This year, during the IARU contest, we were fortunate to have two multi-ops on the air that were fairly matched. In addition, both were on [Live Scores](#) which made for some interesting competition. The two stations were N7BV (near Port Angeles) and N7WA (situated between Seattle and Tacoma).

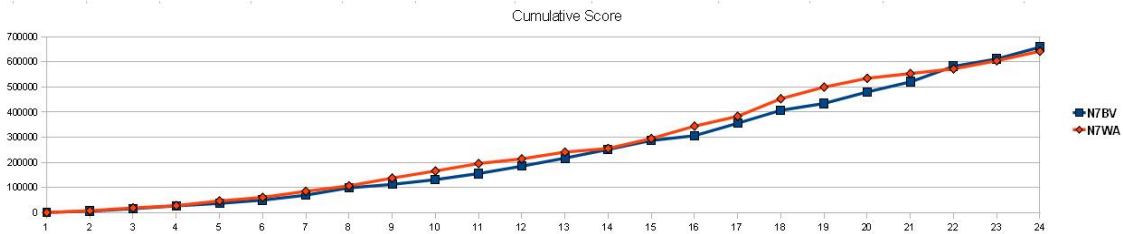


Figure 1 - Cumulative scores of N7WA (red) and N7BV (black)

The station at N7BV was manned by a combination of experienced ops (N7BV, K7WA, KQ7W) as well as some neophytes to the world of radio contesting (KE7DRT and WA7JEP). At N7WA, we had two operators (N7ZG and N7WA), as this is a traditional yearly operation for us. The stations are equipped somewhat differently in that N7BV uses several short towers with Yagis for the high bands and a number of wire arrays for high and low bands. N7WA has a single 100-foot tower with Yagis for 40 meters and up, plus wires on 80 and 160 meters. Neither station runs much more than 600 watts.

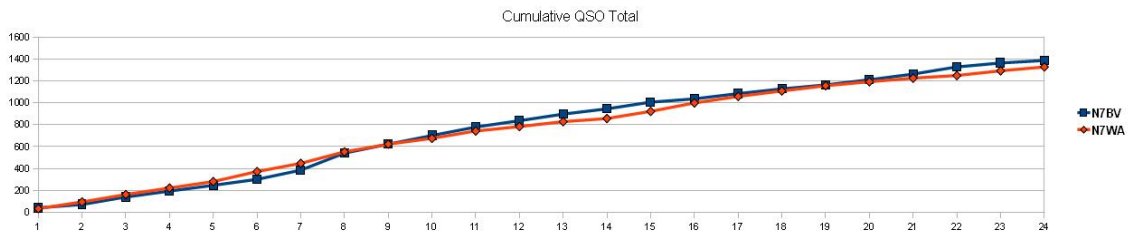


Figure 2 - Cumulative QSO Totals of N7WA (red) and N7BV (black)

I am not going to give an hour by hour breakdown of the battle. Looking at the graphs, you can see the tracking of the QSO, point, multiplier, and cumulative score totals. They're darn close. What made it fun was that we were also watching each other on *Live Scores* and the packet spotting network. At N7WA, I've used *Live Scores* several times in the past year but my "competition" has usually been someone thousands of miles away. That doesn't begin to compare to the fun of fighting live with someone in the same

state. As Jim K7WA noted, “it really helps to keep your butt in the chair”.

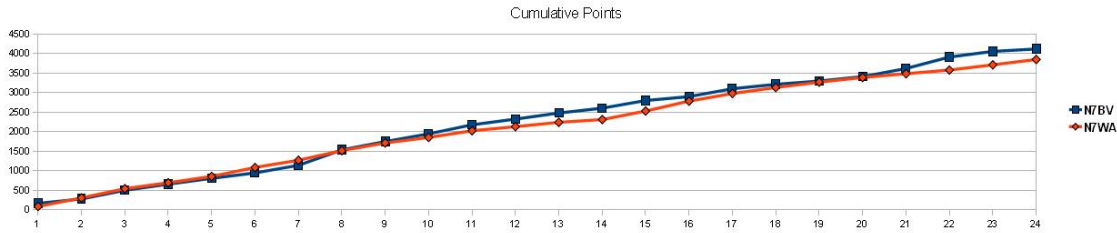


Figure 3 - Cumulative QSO Points of N7WA (red) and N7BV (black)

In the end, the difference may have come down to preparation and a bit of overconfidence. Both N7BV and KQ7W had been monitoring 10 meters all week prior to the test. How they knew something was going to happen up there I’ll never know, but when 10 meters opened up during the test they were able to take full advantage of the situation to the tune of 200 more contacts on that band. (In fact, they were able to use their two female contesting neophytes to great advantage on 10 meter SSB.) Down south of Seattle at N7WA, we had a hard time believing that 10 meters was really that good and stayed on 20 and 15 meters (which was unusually good as well) racking up multipliers but fewer contacts. When we did make it up to 10 meters, it was obvious we had been missing something when Japan called in.

A mistake in preparation occurred at N7WA. My inverted L can be adjusted for 160 meters, 80 meters, and 75 meters. Since I already had a dipole for 80, I adjusted the inverted-L for 75 meters thinking that would be a good band for racking up some low band Qs. It would have been much better to leave the antenna on 160 meters to grab a few additional multipliers. Frankly, 75 meter SSB was a bust at N7WA, producing only five contacts and one multiplier. There was no way to adjust the antenna once darkness had fallen and I expected it would have been futile to try and use the radio’s internal tuner to match the 75 meter antenna to 160 meters. (I should have tried anyway)

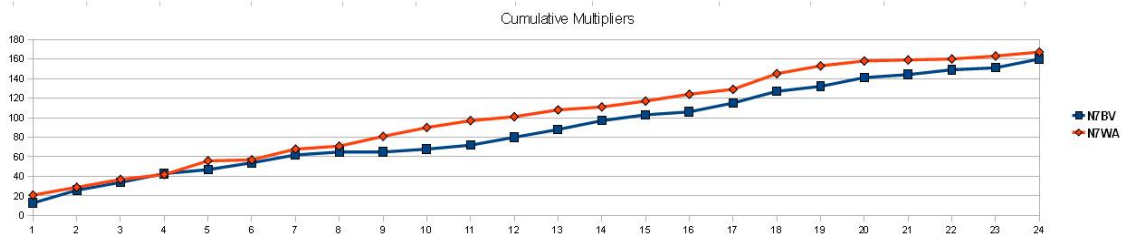


Figure 4 - Cumulative Multipliers of N7WA (red) and N7BV (black)

Finally, there was the overconfidence factor. At N7WA, I was feeling pretty good about our lead at about 1 AM local time (hour 20 on the Cumulative Score Chart). I even sent N7ZG off to get some sleep as he had to teach Sunday morning. Then, something was obviously wrong by 2 AM and I could see it on *Live Scores*. Somewhere in there, the team at N7BV had found a run of JAs on 40 meter SSB that I simply missed at N7WA. Maybe if I hadn’t sent N7ZG off to get some sleep, he may have found them on the second radio as well. We’ll never know but I feel that was a crucial mistake on my part. I really have to hand it to the team at N7BV for hanging in there in the early morning

hours. In the end, this competition may be decided by the log checkers as Chuck feels his team may have a higher busted call rate.

Either way, it was a lot of fun and I think that's why we play this game. I am looking forward to a rematch. Just remember that when you hear those big multi-ops on the East Coast battling it out, there may be another battle going on out West once in a while.

[And now a word from Mr Jones...]

This is the third year of running a multi-single with some of the newer hams from the local ham community. This year was Nita KE7DRT's first try at a contest and fourth for Janet, WA7JEP. Our goal is to do as well as possible and give the newer hams a chance to work a contest with some guidance to broaden their skills.



Jim K7WA is a regular operator at Chuck N7BV's multi-operator station near Port Angeles, WA. (Photo – Chuck Jones N7BV)

Like N7WA we were surprised by the reappearance of 10 meters, which we jumped on early and rode. KQ7W and I had been monitoring 10 all week using Faros and CQs on 28400, so we had a good feeling about the band. Additionally, the night before the contest when KQ7W and K7WA were testing the bands, they worked Alaska, Seattle, and Florida around 2145 local within a five-minute period. We also had an unexpected good JA run on 40 meter SSB. Later in the night we had a good run on 80 meters.

Our use of *Live Scores* provided the incentive to work harder. All five of us were checking and encouraging each other to keep the rate up and to find those darn multipliers that N7WA had already worked! The scores are so close that the log checking committee will no doubt make the difference as to which of us tops the other.

Thanks to K7WA and KQ7W, regulars at this QTH, who trekked up and brought their knowledge and expertise to the challenge.