



ARRL International SSB DX Contest 2012 Results

by Ward Silver, NØAX (n0ax@arrl.net)

I exceeded last year's score so life is good - AA6K

This year's Phone weekend (March 3rd and 4th) of the ARRL International DX Contest was eagerly awaited by thousands around the world after 2011's oh-so-welcome return of the sunspots and the good conditions that graced the CW weekend fourteen days prior. Well, fourteen days is one-half of a solar spin on its axis and those good conditions must have been pointed somewhere else than Earth!

Musings on Propagation

Browsing Soapbox comments that came in with the logs, the strange and often-unexpected propagation was on the minds of many! 15 meter Single-Band competitor Mike, G4IUF wrote, "Weird day, struggled till one-half hour after sunset, then (the band) went mad for 45 minutes, then (it went) auroral, then died!"

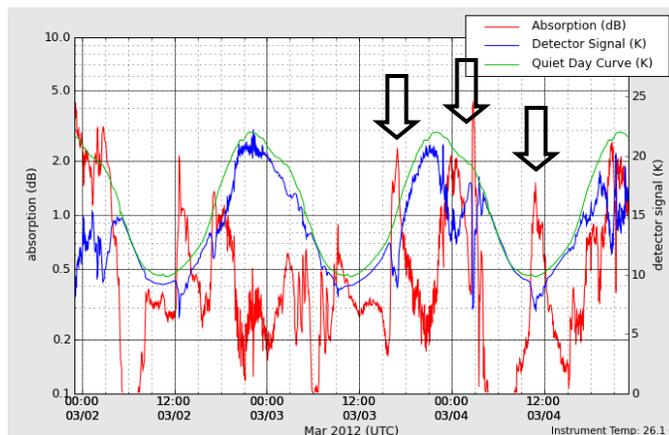
What's the deal? After having a look at the solar and geomagnetic data from NOAA (www.swpc.noaa.gov/ftpmenu/indices/old_indices.html) the answer is pretty clear – we were a little bit early...or maybe the bands were a little bit late. The very day after the contest (of course) the solar flux jumped a dozen points, staying above 130 for a week! Cycle 24 has been nothing if not erratic – the Sun can't quite make up its mind whether to make like the peak or the pits. **Table 1** tells the tale of conditions very similar to those of 2004 as Cycle 23 was headed for the bottom.

Table 1 - Propagation Indices for ARRL DX Phone

Year	Flux		Planetary Ap		Estimated K	
	Sat	Sun	Sat	Sun	Sat	Sun
2002	191	183	5	10	1.6	2.5
2003	138	147	14.5	11	2.8	2.6
2004	105	106	5	6	1.8	1.8
2005	81	84	10	3	2.5	4.3
2006	75	74	2	1	0.9	0.5
2007	73	73	2	3	0.5	0.8
2008	69	69	19	8	3.3	2.0
2009	69	69	1	8	0.3	2.6
2010	78	77	3	4	0.8	1.0
2011	135	143	5	5	1.1	1.2
2012	116	120	8	1	2.0	2.6

How did that play out on the bands? As you can see in the QSOs and multiplier charts on pages 4 and 5, 15 meters was definitely up to speed and 20 wasn't bad but 10 meters overpromised. Compared to 2004, Single-Band log counts showed a shift from 40 meters to 10

meters. 2004 was a post-peak year and many had anticipated the lower MUF in that by switching to 40.



The HAARP VHF Riometer in Gakona, Alaska (www.haarp.alaska.edu/haarp/Rio.html) has another view of conditions in the polar region (see VE8EV's blog listed below for the ground level view). Listening at 38.2 MHz, the riometer measures absorption of signals passing through the ionosphere from outer space. You can see a pair of absorption "events" (shown by arrows) on Saturday (03/03), a smaller event on Sunday (03/04) and then building up again though the end of the contest. If you were wondering about the polar paths – at least to the Pacific Rim from the US and Canada – this gives you an idea of what was happening along the way!

The odd conditions manifested themselves in unexpected ways at stations large and small. Contest veteran John, K1AR relates his experience at K3LR on 20 meters: "On Saturday...one unanswered CQ after another. Then, literally like someone turned on a switch, in the course of one CQ I had an instant pileup and a 225-hour after that. I've never heard anything like it. Usually, the rate builds over a 15-20 minute period, but this time it just started like someone turned on a light. Very strange indeed."

Under the Sun's Thumb

What is it like to operate from one of the rarest of all domestic multipliers during a DX contest? Surely it must be non-stop pileup action with the DX rolling in! Well, not quite, as John, VE8EV writes online in "ARRL DX - The Best of Times, The Worst of Times..." (ve8ev.blogspot.com/2012/03/arrl-dx-best-of-times-worst-of-times.html)

Meanwhile, on a nearby band, 10 meter operators reported openings on Friday evening that heightened anticipation of bigger things to come but even though the multiplier totals were good, deep openings with large numbers of stations just didn't materialize.

George, N3GJ is another long-time 10 meter op and was looking forward to some more interesting openings as described in the 2012 ARRL DX CW contest writeup. "10 meters behaved about the same as it did for the CW weekend only without the cool polar opening on Saturday night." The openings from WPA to EU and JA were mostly skew paths except for Sunday afternoon. "The band was open on Friday night at the start of the contest very strong into South America. We logged about 40 stations in the first hour which is the best opening hour at K3LR on 10 meters in a long time." We're close, folks, we're definitely close, but oh, so far!

Box Office Report

Participation was quite lively, regardless, with a record 3527 logs submitted (1869 W/VE logs and 1658 DX logs) that exceeded last year's 3343 logs by a few percent. No doubt this is at least partially an aftereffect of the awesome 2011 10 Meter Contest conditions that saw a surge to more than 5000 submitted logs. Well, as many stations found out, even if conditions aren't at their peak, just being on the bands is a lot of fun!

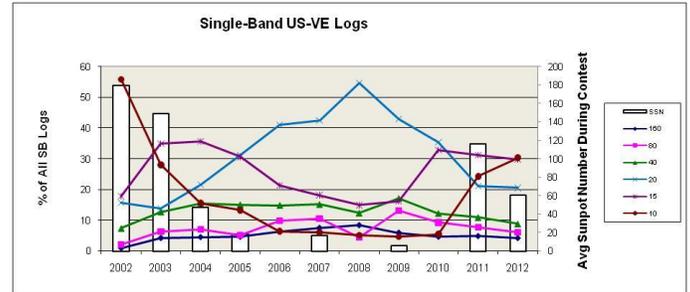
The number of logs contributed to club totals in the ARRL Affiliated Club Competition was also up – to 2009 from last year's 1978. Overall, club log submissions jumped by about 12% with all of the increase in the rapidly-growing Medium and Local categories. The word must be getting around that contesting is a lot of fun and participating as a club makes it even more fun!

Yeah, yeah...but were we making more QSOs? Despite all of the propagational hand-wringing, DX stations logged 815,208 QSOs with us and we logged 669,554 with them. That's a little more activity on our side and a little less activity on their side – just 4000 QSOs below last year's totals. Once again, about 10% of the QSOs "went missing" between the log sheets and the log checking – a fraction we should work on reducing. Offering to help others send in a log is a good way to help a potential contester become more active, whether they are new to HF or haven't done it before.

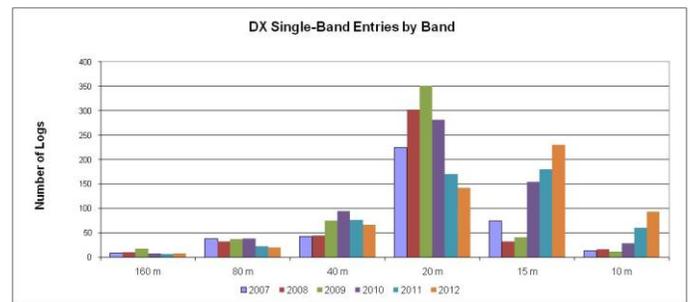
Categorically Speaking

A good measure of the activity of different stations is to look at the top single-band QSO totals from DX and domestic stations. The 2011 10 Meter Contest's long coattails were in evidence as Sergio, PP5JR logged a

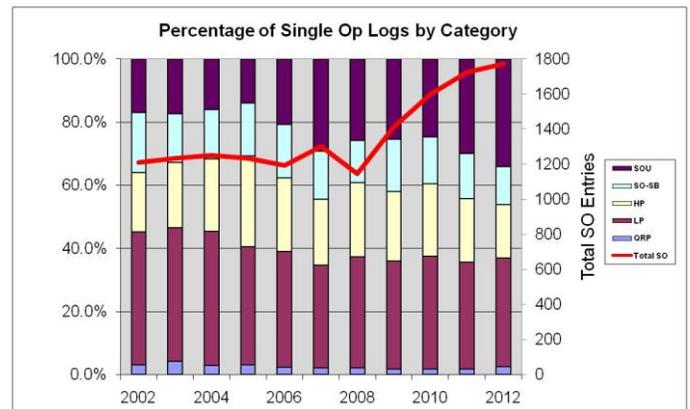
whopping 3888 QSOs on 10 meters as PX5E. In addition, HK1T logged 3449 stations on 20 meters and the gang at TI5N pulled in 3412 different calls. From here at home, the K3LR 20 meter stack was able to hear 2323 different DX stations while the nearby 15 meter array at W3LPL found 2176 callers. The top single-band DXCC hunters were once again at K3LR as the 20 meter team of K1AR and N2NT bagged 140 multipliers.



Single-Band log totals from W/VE stations shown above were down from last year (214 compared to 247) but the 10 meter count was up to 65 – the only band to show an increase in the number of submitted logs.



Recovering nicely from last year's single-band slump, 560 SOSB logs were received from DX call signs. As the preceding chart shows, DX stations got busy on 15 and 10 meters. DXCC band-entity chasers, take note!

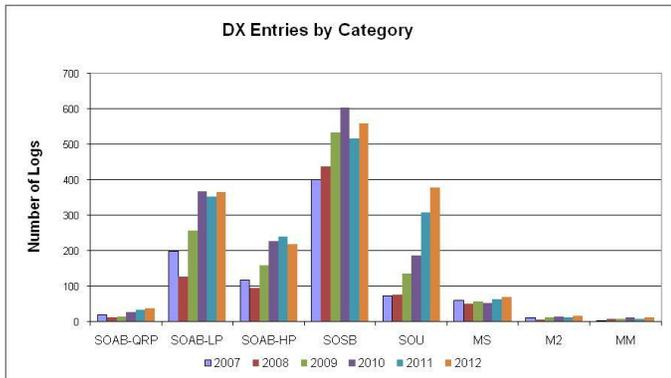


Another clear trend is the growing number of entries in the Single-Op, Unlimited (SOU) category both here in the US and Canada (above) and around the world (below). The red line shows that the total number of

W/VE Single-Operator logs is steadily increasing and more of them are in the growing fraction of SOU logs. While SOAB-LP representation is holding steady, SOAB-HP and SOSB are not as more stations are moving to the online-enabled category to make use of information about the contest from other participants.

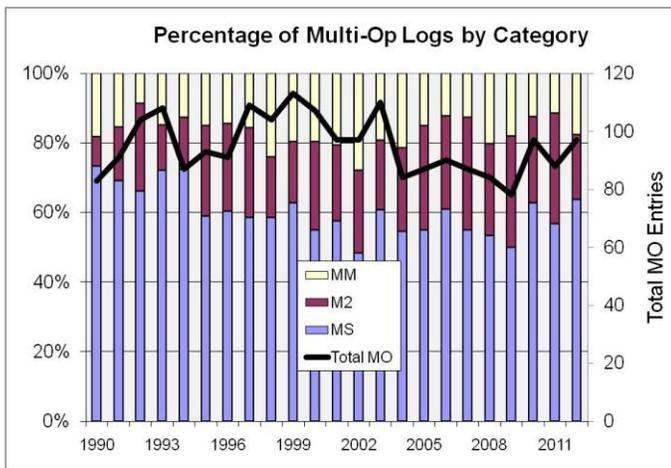


Two weeks after activating M5E in England during the CW weekend, Seppo, OH1VR and Kazu, JK3GAD traveled to California where they helped activate W6NV's station as W6WB. From left to right are Seppo, OH1VR; Kazu, JK3GAD; and Al, AD6E. Host Oliver, W6NV and Denny, KX7M are not in the picture. (Photo by OH1VR)



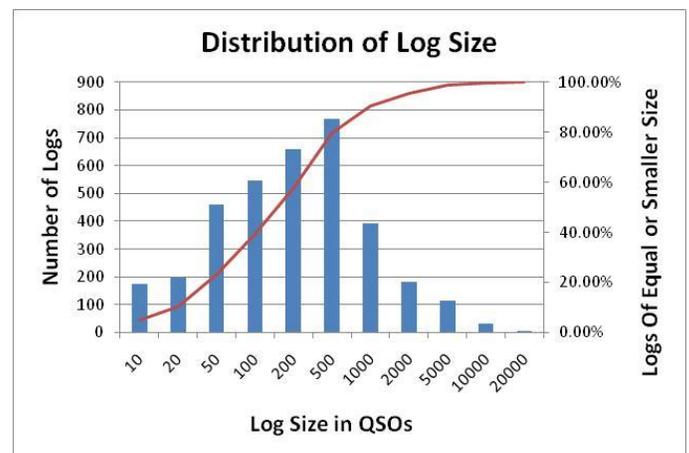
The distribution of Multi-Operator category entries seems to ebb and flow through the years. The M2 category looked like it was poised for a major breakout but a few stations such as WE3C moved from M2 to MM and the new MS-LP apparently attracted some participation, too.

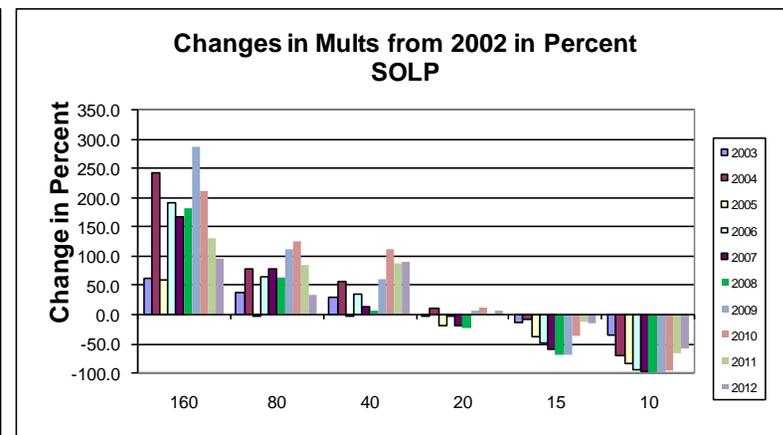
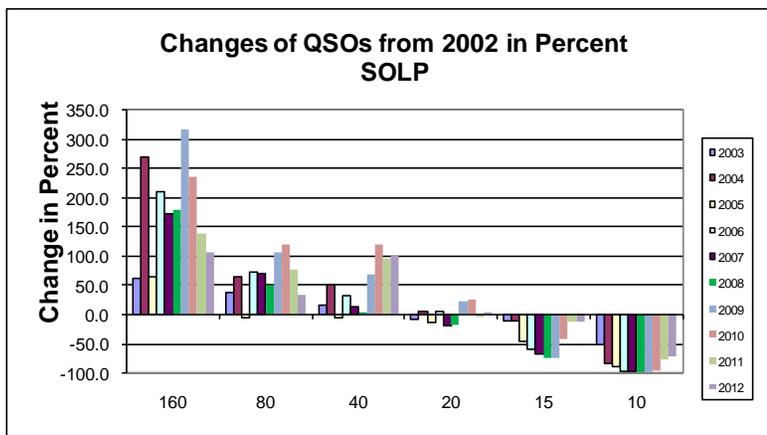
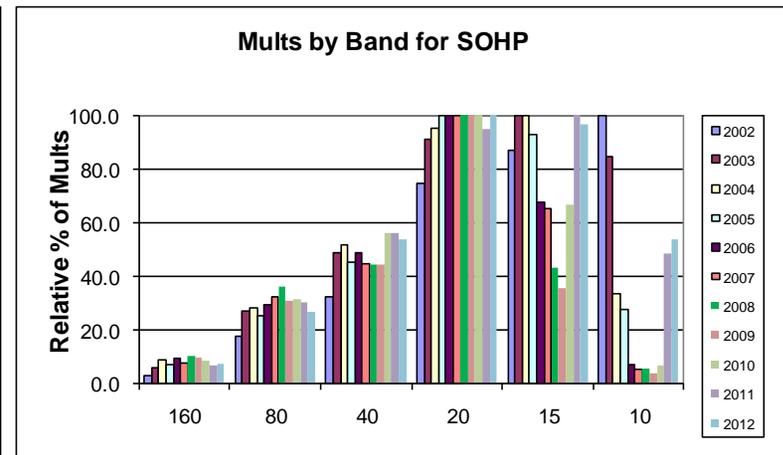
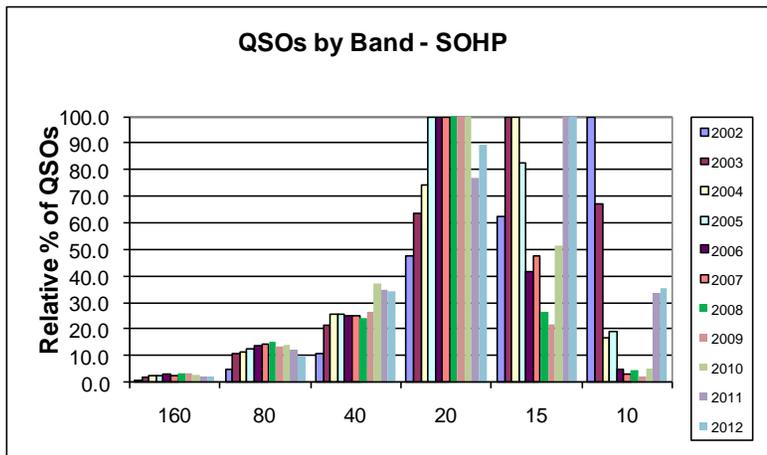
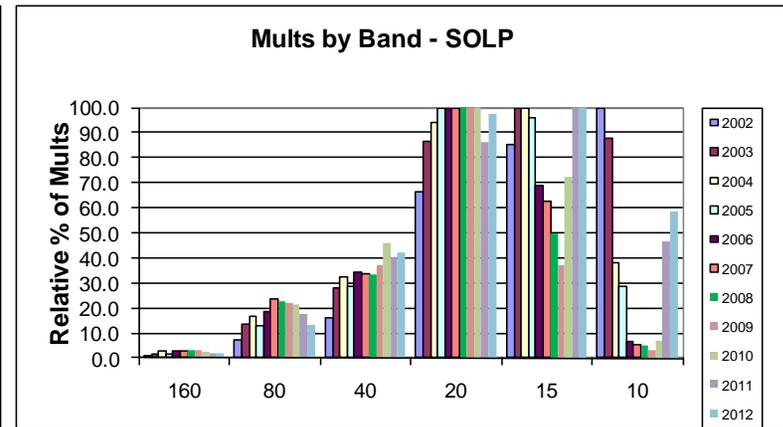
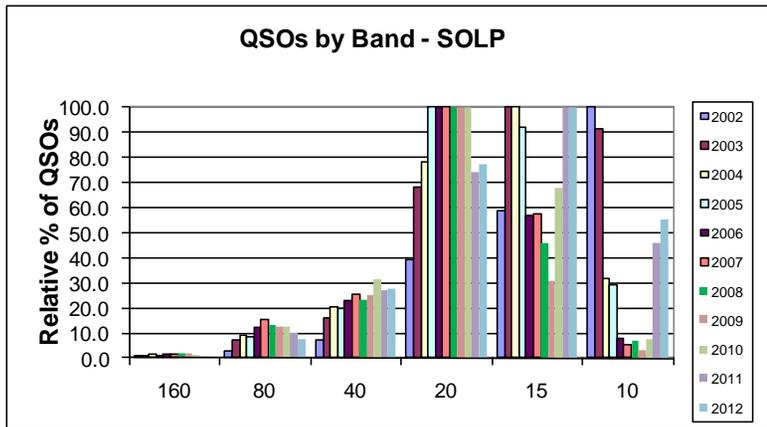
- Category Abbreviations**
- SO: Single Operator (SOAB – All Band, SOSB – Single Band, SOU - Unlimited)
 - HP/LP/QRP: High Power, Low Power, QRP
 - MS: Multi-operator, Single-Transmitter
 - M2: Multi-operator, Two-Transmitter
 - MM: Multi-operator, Multiple Transmitters

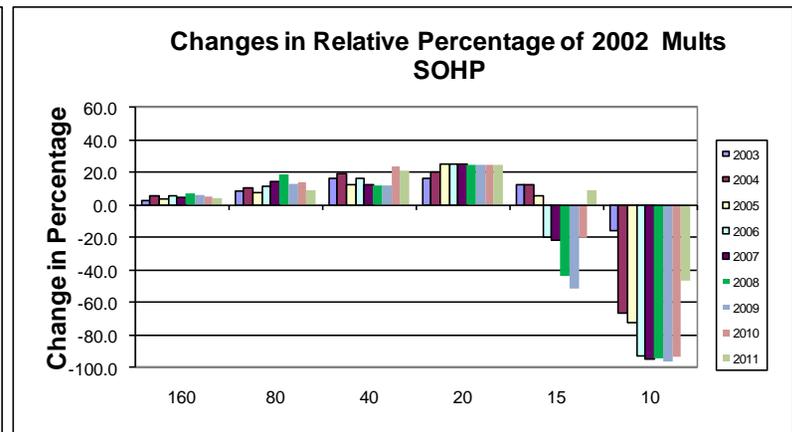
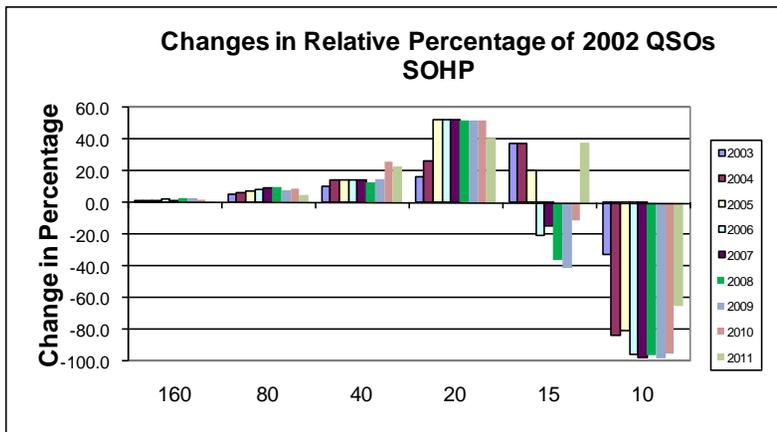
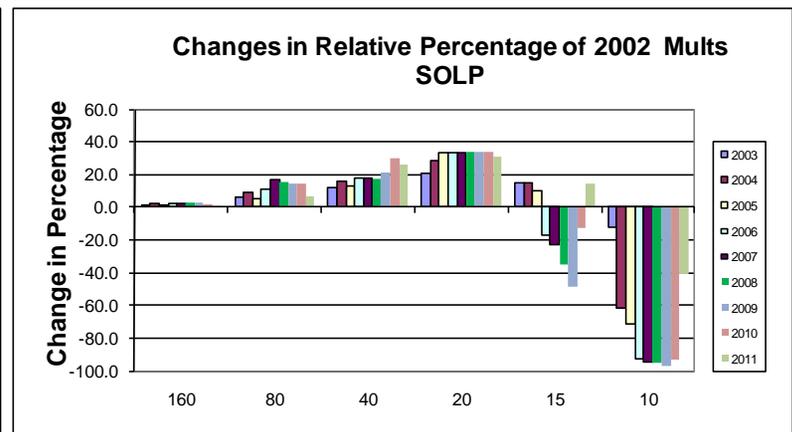
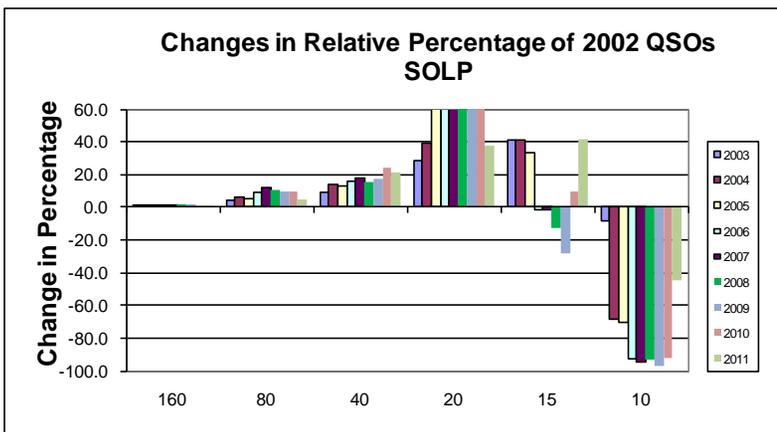
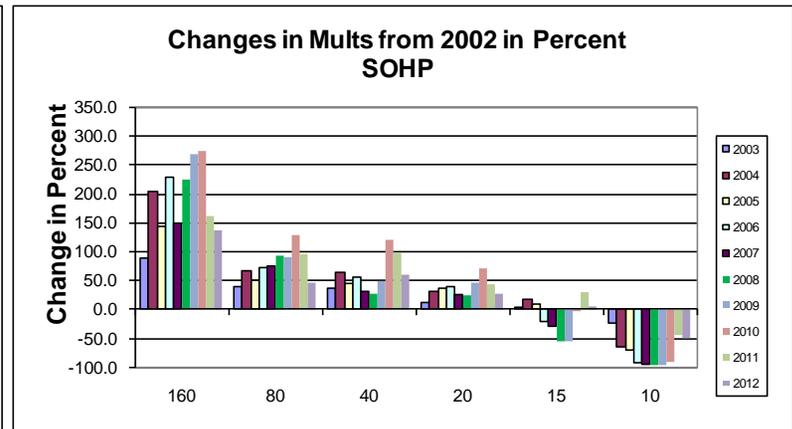
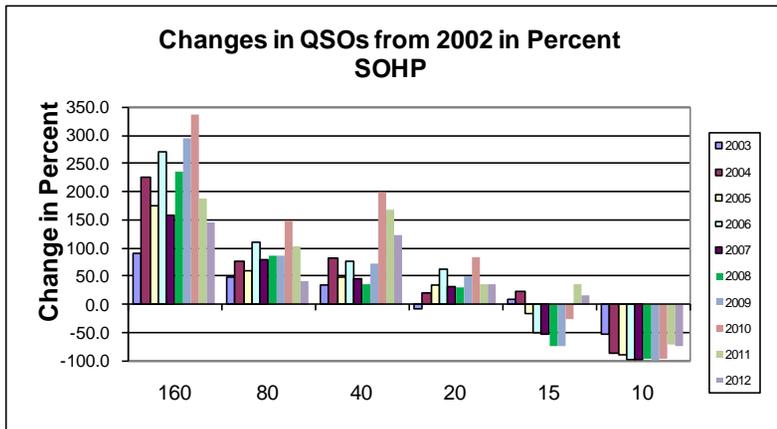


Little Pistols and part-time or casual operators are the often-unsung majority of contest activity. The figure below shows that almost 58% of all logs received contained 200 or fewer QSOs. This fraction is steadily increasing, which I believe is a healthy trend for radiosport in general. The operators sending in small logs represent the vital “new blood” that any competitive activity needs to stay healthy. Welcome!

Station owners build teams that ebb and flow, too, making it possible to do M2 this year but just a healthy MS effort the next. For example, Oliver, W6NV is putting together a capable multi-operator station in northern California. In 2008 and 2009, the team entered MS, then gave MM a try in 2010. They seem to have found their stride in M2 – last year they placed fifth and the team (see photo) jumped to third this year. Overall, Multi-Operator participation is growing along with the contest and that’s a Good Thing. (Read Seppo, OH1VR’s article “Experiencing Both Dimensions” on in the upcoming issue of the *National Contest Journal*.)







The most popular log size is between 200 and 500 QSOs – that certainly represents a good day or two’s work. You can also see the contesting bug bite right around 20 QSOs – bet you can’t work just one more! – and there is consequently a jump to more than 400 logs between 20 and 50 QSOs. The sharp-eyed reader will note the tiny bar representing the rarified air of 10,001-20,000 QSOs at the right of the chart. 6Y1V (11,416) and TI5N (10,449) both cracked the 10,000-QSO barrier category – the only stations to accomplish that feat this year.

The computer says I spent only 30.5 hours at the rig this weekend. Tell that to my family and they would laugh in your face! - W6QU.

Records

The table at right shows all of the records that made it onto the books this year and, as in 2011 another pair of all-time records was set. Jeff, K1ZM decided to tackle 160 meters from his station on Prince Edward Island, VY2ZM. He was rewarded with not only the Canadian record but the all-time W/VE record for SOSB-160.

Whatever he puts his mind to the VY2ZM hardware is ready and able to contend...IF he can make it through the snowdrifts! Jeff owns five ARRL DX Phone records as either VY2ZM or K1ZM including a second all-time record (SOAB-QRP in 2001).

The other new all-time record reflects a really exceptional effort. Not only did Dan, W7WA win the SOSB-40 W/VE title, he set the all-time record for 40 meters and turned in a Golden Log (a log with no detected errors)! And not only that, at 965 QSOs, it’s the

largest Golden Log that I’ve seen in my ten years of writing up these contest results. When you consider how difficult 40 meter phone can be, the only appropriate response is, “We are not worthy!” Dan now owns the 7th district’s 15, 20, and 40 meter records.

Even though the new SOU-LP and MS-LP categories have generated a big pile of records in the past two years (28 records were set in both 2011 and 2012), the monstrously excellent year 2002 still holds the title as the best year for records with 32. The oldest record broken was an old-timer from 1982 as the KH7X team added

some more walnut as they overtook the KH6XX MS-HP record by 37%. Patrick, K6AAX was sharing the VY2ZM station and used the 80 meter antenna farm to nearly triple the SOSB-80 Canadian record set in 1996 by VE9ST. The venerable 1979 KØRF MM record for the 10th district is still the oldest on the books.

What would a table of records be without some close calls? These records may not have been broken but they were seriously challenged. Even the 20-year-old

1992 M2 record in the 8th district was within 7% of falling to an aggressive challenge by the K8AZ group. As technology continues to improve, we’ll see more of these records toppled before Cycle 24 decides to call it a day.

New Records for 2012

***Bold** indicates an all-time record for the category*

W-VE Records

Category	District	Call	New Record	Old Record	Held By	Year Set
SOSB-160	VE	VY2ZM	44,286	4,416	VE2DWA	2010
SOSB-40	6th	W6YI	257,928	238,140	W6YI	2011
SOSB-40	7th	W7WA	283,710	268,761	K4XS	2004
SOSB-80	VE	K6AAX/VY2	152,460	56,019	VE9ST	1996
SOU-LP	3rd	W3KB	748,584	687,960	W3KB	2011
SOU-LP	5th	N5DO	974,133	430,155	WØVX	2011
SOU-LP	6th	WN6K	525,930	375,066	WN6K	2011
SOU-LP	7th	K7JE	227,688	161,163	W7SO	2011
SOU-LP	8th	W8KTQ	394,212	310,776	K8LY	2011
SOU-LP	9th	WE9R	609,150	84,600	N9YKE	2011
SOU-LP	10th	KØUK	1,016,565	942,645	KØKX	2011
MS-LP	8th	W8LRC	35,802	1,764	K8DAC	2011
MS-LP	VE	VE7NA	13,608	1,875	VE2CJR	2011

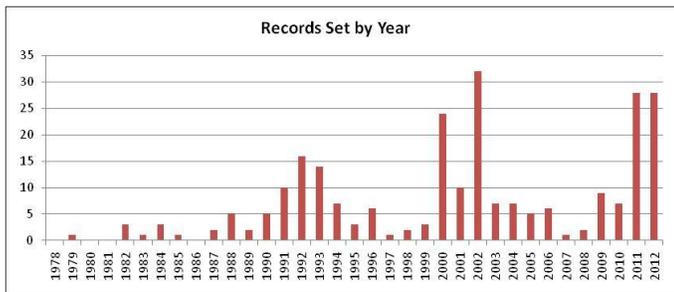
DX

Category	Cont	Call	New Record	Old Record	Held By	Year Set
SOAB-HP	EU	CR6K (CT1ILT, op)	5,119,821	3,942,576	SN2B (SP2FAX, op)	2002
SOAB-HP	NA	8P5A (W2SC, op)	9,722,772	9,650,745	WP3R (K9PG, op)	2003
SOSB-20	OC	KH7Y	521,460	559,143	KH7B	2008
SOU-HP	SA	PJ4G (K2NG, op)	6,471,075	6,176,928	PJ2T	2008
MS-HP	EU	CR2X	6,912,948	5,609,496	TM5C	2001
MS-HP	OC	KH7X	6,626,124	4,834,392	KH6XX	1982
M2	OC	KH6LC	8,036,280	6,265,896	KH7X	2007
SOU-LP	EU	IB1B	565,728	506,760	EF1W (EA1WS, op)	2011
SOU-LP	AS	HSØZJU	91,884	45,570	JH1DGQ	2011
MM	AF	EF8R	8,961,225	4,882,500	EA8ZS	2002

Close Calls

Category	District or Cont	Call	Score	Existing Record	Set By	Year Set
SOAB-HP	7th	N9RV	2,966,301	3,240,900	W7EJ	2002
M2	8th	K8AZ	4,071,858	4,346,424	K8CC	1992
SOSB-20	SA	HK1T	627,324	670,299	P4ØV (AI6V, op)	2008
SOU-LP	4th	KT4ZB	977,499	1,009,014	KT4ZB	2011
SOU-LP	NA	8P6NW	949,905	987,840	HH2/PY1ZV	2011
SOU-LP	OC	YB1ALL	31,248	32,724	AH6NF	2011

Are you record-breaking material? Have a look at the K5TR Contest database (www.kkn.net/~k5tr/scoredb) where more than 400,000 published scores have been entered by volunteers for you to pick out a target – then go for it!



You can really see the effects of sunspot cycles in this chart of records set each year. The new LP categories that appeared last year make 2011 and 2012 look like conditions were better than they really were.

Three-peats and Beyond

The table below shows the active winning streaks of three or more category wins in a row, both at home and on the road as they say in baseball. If you've been following this part of the writeup for a few years, you may have noticed fewer and shorter winning streaks. The contest is getting more competitive and fewer stations have a "lock" on a band or category any more – this is a Good Thing! In fact, there's only one current DX winning streak as W2SC continues to dominate SOAB-HP from 8P5A. A PDF file of the Top Ten since 2002 for both W/VE and DX stations in all categories is available for download from the ARRL Contest Results website.

Active Winning Streaks (3 or More Wins)

W-VE

Call	Number	Category
N1UR	4	SOAB-LP
W5PR	4	SOSB-10
K1LZ	4	MS-HP
K3LR	3	MM (new)

DX

Call (@ QTH)	Number	Category
W2SC (@8P5A)	3	SOAB-HP (new)

Some notable streaks ended this year – M2 regular WE3C decided to try MM and the team came in an impressive 3rd place. W2MF (SOSB-160) and W2RE (SOU-HP) both ended streaks of three wins. Of the DX streaks, perennial 15 meter winner PP5JR moved to 10 meters as PX5E for a double ending – his own streak of four wins ended and he also ended LU1HF's 5-year run on 10 meters!

Here on the home field, N1UR is way out in front of the SOAB-LP crowd again this year and W5PR keeps finding more stations to work on 10 meters than anybody else. The K1LZ team has MS-HP pretty much figured out with a fourth victory and the K3LR operators have managed to stay on top of the MM log-rolling for a third year, beginning another streak after the five-in-a-row-streak was halted by W3LPL in 2009.

W/VE Results

In the western movies of yore, after the shooting stops and the gunpowder smoke clears, timid townsfolk venture back into the streets to tally the vanquished and victors. Here in radio land, the Big Guns in the highly competitive SOAB-HP category patiently stand by for the umpire's call – Clint Eastwood never had to wait for log checking! Of course, I'm not sure I'd want to be the one telling Clint that he had a few busted QSOs...

After a string of Top Ten finishes that ended in 2008, John, VE3EJ took three years off before riding back into town in first place this year. 2012 was the first year since 2002 that the top SOAB-HP score wasn't made from Prince Edward Island at VY2ZM. Nevertheless, Canada has held the top position in this contest for a decade and Ontario has been a sweet spot for SOAB for a long time.

There is plenty of top-scoring action all across the North American continent however as the Top Ten veers from the Northeast to the West, Southeast, and Midwest before returning to the East Coast. In fact, this is the first year since K7RL placed 10th in 2007 that the Top Ten included a station farther west than Indiana! This year, we have a pair – N2IC in New Mexico at number five and N9RV in Montana at number seven, just squeezing past his former wingman, W9RE in Indiana at number eight. Let's have a look at how they did it.

CALL - QSOs	SEC	160 Q	80 Q	40 Q	20 Q	15 Q	10 Q
VE3EJ	ON	38	111	513	1192	1368	142
W2RE	NNY	31	236	525	1270	1058	123
VC3A (VE3AT, op)	ON	26	104	476	1289	1221	144
VY2TT (K6LA, op)	MAR	36	94	616	1188	1335	119
N2IC	NM	26	86	714	440	1316	324
K1TO	WCF	19	79	299	995	1139	273
N9RV	MT	20	81	628	1021	917	165
W9RE	IN	29	116	345	755	1013	176
W3BGN	EPA	36	121	419	894	808	183
AA1K	DE	50	118	290	875	865	170

CALL - MULTs	SEC	160 M	80 M	40 M	20 M	15 M	10 M
VE3EJ	ON	29	57	86	104	109	50
W2RE	NNY	28	66	87	99	103	57
VC3A (VE3AT, op)	ON	22	56	85	102	97	53
VY2TT (K6LA, op)	MAR	25	49	78	98	91	46
N2IC	NM	22	42	74	90	99	58
K1TO	WCF	16	45	78	97	95	57
N9RV	MT	18	42	66	102	81	42
W9RE	IN	22	59	79	96	100	50
W3BGN	EPA	28	59	74	97	82	52
AA1K	DE	34	52	77	99	91	52

160: There is no doubt who was Top Dog on Top Band in the Top Ten – 160 meter maven Jon, AA1K had the most QSOs (50) and the highest mult total (34) by a substantial margin.

80: Similarly, Ray, W2RE who moved over from SOU-HP without missing a beat had 80 meters locked up with nearly double the QSOs (236) and over 10% more mults (66) than his closest competitor on this band.

40: Only 70 miles from Mexico, Steve, N2IC's 4-element 40 meter beam at 105 feet seems to be working pretty well, leading the way by a substantial margin with 714 QSOs. W2RE was able to bag the top total of 87 multipliers, though.

20: VE3 was the place to be on the Queen of the Bands as Ron, VE3AT found the most QSOs on the band (with W2RE right on his heels) and category winner VE3EJ appears for the first time with four more multipliers than DXCC.

15: VE3EJ put a solid lock on this money band with 3138 QSOs and 109 multipliers, both the maximum for the category. Ken, K6LA and N2IC both made more than 1300 QSOs and W2RE was right there with 103 multipliers, too.

10: The sweet spot obviously moved south as N2IC (NM) was the category leader in both QSOs (324) and multipliers (58) and from the southeast corner of North America in WCF, Dan K1TO was a close second in both totals.

Elsewhere around the Single-Op continent...

In SOAB-LP, Ed, N1UR kept far ahead of the pack in VT while Marv N5AW (STX) and Jim K9JF (WWA) elbowed their way into the Top Ten from the southern and western edges of North America

John, W2ID turned in a very nice SOAB-QRP score from NNJ to win the category, wresting the title from two-time winner VA3DF. W6QU with W8QZA operating continues to surprise from the San Diego section with another in his string of Top Ten finishes.

Chas, K3WW (EPA) finished first in SOU-HP this year, in the driver's seat after five Top Ten finishes. This is the mid-Atlantic seaboard's turf with 1st through 7th going to PA, MD, or NJ.

The opposite of closely-packed SOU-HP, the SOU-LP Top Ten are all over the map. Winner Bill, KØUK hails from CO but fended off challengers from GA (KT4ZB) and WTX (N5DO) – calls from VE2 to SDG fill out the rest.

As mentioned elsewhere, the VY2ZM station clobbered the rest of the low band competition, piloted by Jeff, K1ZM (SOSB-160) and Patrick, K6AAX (SOSB-80). Dan, W7WA's big SOSB win on 40 meters is also quite noteworthy as he nosed by W6YI in 2nd place.

SOSB-20 was captured by Murray, W3FW (EPA) ahead of four very closely-packed but widely-separated challengers - K6HNZ (SCV), VE9HF (MAR), K7AWB (EWA), and WR2G (NNJ).

SOSB-15 was the hottest SOSB band with Larry, N7DD (AZ) powering by competition from K8PO in ME. This was another anyplace-could-win band.

You clearly had to be in a southerly location to take SOSB-10 and Chuck, W5PR made it four in a row from STX. The next four finishers were all at least as far south as Chuck, as well.

The Multi-op categories were just as competitive as ever:

Krassy, K1LZ has assembled quite a team and station, taking the MS-HP title for a fourth straight year from EMA. Six of the Top Ten entries were new calls this year.

In MS-LP, Jim WØUO's NTX squad proved they were no fluke, taking top spot for the second year of this category's existence. This category has a lot of turnover, as well, with seven new calls in the Top Ten this year.

After chasing WE3C for four years, the W4RM team grabbed the brass ring in the M2 category from VA. Just as last year, they edged out KB1H in CT.

As mentioned above, Tim, K3LR's big station in WPA was driven to another win in MM by a crackerjack team of operators, only one mult ahead of 2nd-place W3LPL (MDC). WE3C (EPA) moved up from M2 last year to take 3rd.

2012 ARRL DX Phone - US-Canada Top Ten

Call	Score	Call	Score	Call	Score	Call	Score
Single-Op, All Band, High Power		Single-Op Unlimited, Low Power		Single-Op, Single Band, 40 Meters		Multi-op, Single Transmitter, Low Power	
VE3EJ	4,374,360	KØUJ	1,016,565	W7WA	283,710	WØUO	797,268
W2RE	4,246,440	KT4ZB	977,499	W6YI	257,928	W2TZ	653,112
VC3A (VE3AT, op)	4,043,760	N5DO	974,133	N4NW	42,402	W6YX	534,540
VY2TT (K6LA, op)	3,902,121	W3KB	748,584	K8DJC	36,186	W3ZGD	512,472
N2IC	3,349,500	KA2KON	741,150	VE3FU	28,500	AB1OD	320,016
K1TO	3,258,036	WE9R	609,150	AD8C	19,110	N6DZR	180,387
N9RV	2,966,301	N2KPB	578,160	KJ4EX	16,200	K5KDX	153,972
W9RE	2,951,214	W1KT	566,352	VE3SWS	12,972	W3WVN	116,130
W3BGN	2,877,672	VA2SS	547,560	W6RKC	12,882	NO2J	103,875
AA1K	2,847,960	WN6K	525,930	K3NK	11,781	W8LRC	35,802
Single-Op, All Band, Low Power		Single-Op, Single Band, 10 Meters		Single-Op, Single Band, 80 Meters		Multi-op, Two Transmitter	
N1UR	2,146,506	W5PR	166,608	K6AAX/VY2	152,460	W4RM	4,611,963
AD4Z	1,835,856	W4SVO	120,978	ND8DX	40,257	KB1H	4,400,928
N5AW	1,186,500	K5KG	103,248	KM1R	19,032	W6WB	4,244,448
N4TZ	989,712	K5RR	87,750	KU1T	18,408	K8AZ	4,071,858
K9JF	815,298	NA4CW	62,568	W4QNW	12,546	KØTV	3,275,616
N8AA	697,248	K1WHS	60,279	WA8UEG	12,240	K9CT	2,937,768
N4XL	688,371	W7RN (K5RC, op)	59,472	KØKT	5,328	W5RU	2,920,680
N8AV	642,930	K2SSS	52,800	W8JMF	5,145	K2AX	2,726,844
NA4K	555,894	W3EP	52,428	W19H	4,320	W7IV	2,646,900
W2TF	485,685	K9BGL	37,026	W8TM	3,393	K1KP	2,629,536
Single-Op, All Band, QRP		Single-Op, Single Band, 15 Meters		Single-Op, Single Band, 160 Meters		Multi-op, Multi-Transmitter	
W2ID	423,360	N7DD	612,066	VY2ZM	44,286	K3LR	11,762,118
VA3DF	320,100	K8PO	516,006	W2MF	12,126	W3LPL	11,210,844
N1TM	273,936	N4PN	431,310	W2VO	3,360	WE3C	9,006,795
W1MR	256,608	KU2M	399,324	K5RX	3,108	KM1W	6,031,341
KO1H	246,024	NA2U	338,451	K1HAP	2,700	K1RX	5,725,008
W6QU (W8QZA, op)	199,950	N2PP	274,428	W3GH	1,794	NR5M	5,645,184
NDØC	191,484	AG4W	232,098	ACSO	714	W2PV	4,756,752
NT4TS	167,322	N8BJQ	188,670	WD8DSB	147	WØAIH	2,666,166
N8XA	115,773	W4DXX	181,656	N5JDT	27	NE3F	2,652,507
KS4X	85,260	WB2REM	172,866			AK7AZ	908,418
Single-Op Unlimited, High Power		Single-Op, Single Band, 20 Meters		Multi-op, Single Transmitter, High Power			
K3WW	3,839,136	W3FW	259,671	K1LZ	4,570,146		
N3RR	2,799,357	K6HNZ	154,704	K1KI	3,774,378		
AA3B	2,772,540	VE9HF	153,120	KØRF	3,495,270		
N3RS	2,594,469	K7AWB	153,090	K9RS	3,447,900		
N2MM	2,246,874	WR2G	149,640	N1MM	3,433,608		
W1GD	2,177,412	W1AVK	86,856	N1BA	2,823,246		
N4ZC	2,051,322	WF1G	61,200	W3MF	2,195,856		
W8MJ	1,895,820	KC2NB	55,350	K3MD	1,874,964		
W2IRT	1,720,488	NZ9Y	54,054	W2MU	1,848,432		
N1DG	1,689,639	K4TRH	51,903	W4HZ	1,593,108		

2012 ARRL DX Phone Contest

Regional Leaders by Category

Boxes list call sign, score, and category (M SH/L-Multi-Single HP/LP; M2-Multi-Two; MM-Multi-Multi; QRP-Single-Op, QRP; LP-Single-Op, Low Power; HP-Single-Op, High Power; SUH/L - Single-Op, Unlimited HP/LP)

Northeast Region			Southeast Region			Central Region			Midwest Region			West Coast Region		
New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections			Delta, Roanoke and Southeastern Divisions			Central and Great Lakes Divisions; Ontario Section			Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections			Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections		
W2RE	4,246,440	HP	K1TO	3,258,036	HP	VE3EJ	4,374,360	HP	N2IC	3,349,500	HP	N9RV	2,966,301	HP
VY2TT (K6LA, op)	3,902,121	HP	N4RV (KE3X, op)	2,533,638	HP	VC3A (VE3AT, op)	4,043,760	HP	K5TR	2,830,449	HP	K7RL	2,834,895	HP
W3BGN	2,877,672	HP	K4AB	2,294,784	HP	W9RE	2,951,214	HP	KU1CW	2,107,092	HP	VE7CC	1,997,730	HP
AA1K	2,847,960	HP	W5WMU	1,230,552	HP	VE3TA	1,817,091	HP	K7KU (K0KR, op)	760,383	HP	K6XX	1,700,460	HP
NC1I (K9PW, op)	2,721,360	HP	NR3X (N4YDU, op)	1,192,464	HP	K8GL	1,619,085	HP	N0KE	757,161	HP	NC7M	843,453	HP
N1UR	2,146,506	LP	AD4Z	1,835,856	LP	N4TZ	989,712	LP	N5AW	1,186,500	LP	K9JF	815,298	LP
W2TF	485,685	LP	N4XL	688,371	LP	N8AA	697,248	LP	NR9A	341,925	LP	NN3V	329,640	LP
WA2JQK	422,154	LP	NA4K	555,894	LP	NA8V	642,930	LP	W5GFI	290,037	LP	VE6EX	314,340	LP
N1SV	314,682	LP	W4PFM	400,803	LP	KD9MS	484,962	LP	K5ZCJ	262,971	LP	N7IR	303,615	LP
KD3HN	300,381	LP	W4FT	352,350	LP	VA3SWG	417,024	LP	KY0K	239,259	LP	K7ACZ	280,350	LP
W2ID	423,360	QRP	NT4TS	167,322	QRP	VA3DF	320,100	QRP	ND0C	191,484	QRP	W6QU (W8QZA, op)	199,950	QRP
N1TM	273,936	QRP	KS4X	85,260	QRP	N8XA	115,773	QRP	KA5PVB	64,800	QRP	W7YAQ	66,150	QRP
W1MR	256,608	QRP	K9ES	82,404	QRP	KT8K	78,690	QRP	K0OU	53,295	QRP	N6LB	19,824	QRP
KO1H	246,024	QRP	K3TW	77,268	QRP	VA3WPV	30,996	QRP	N0UR	24,768	QRP	N6HI	11,400	QRP
W2WGK	26,265	QRP	KC5WA	71,757	QRP	AJ4A	29,889	QRP	KB7QOS	11,850	QRP	AE9F	8,568	QRP
K3WW	3,839,136	SUH	N4ZC	2,051,322	SUH	W8MJ	1,895,820	SUH	K0KX	1,227,519	SUH	N6QQ	1,293,306	SUH
N3RR	2,799,357	SUH	N8PR	1,667,328	SUH	K9NW	1,414,419	SUH	N5JR	1,093,332	SUH	KG7H	997,038	SUH
AA3B	2,772,540	SUH	WX4G	1,397,250	SUH	VE3FWA	1,027,971	SUH	K5QXR	993,537	SUH	N6JV	846,153	SUH
N3RS	2,594,469	SUH	KT4Q	1,295,658	SUH	WO9Z	976,131	SUH	K0RC	684,936	SUH	AA6PW	797,160	SUH
N2MM	2,246,874	SUH	W3OA	1,276,644	SUH	N2BJ	867,399	SUH	W0SHL	587,571	SUH	WE6DX	769,824	SUH
W3KB	748,584	SUL	KT4ZB	977,499	SUL	WE9R	609,150	SUL	K0UK	1,016,565	SUL	WN6K	525,930	SUL
KA2KON	741,150	SUL	WB4OMM	416,472	SUL	W8KTQ	394,212	SUL	N5DO	974,133	SUL	VA7BEC	322,074	SUL
N2KPB	578,160	SUL	W0PV	372,744	SUL	WD8S	331,044	SUL	N1CC	258,084	SUL	K7JE	227,688	SUL
W1KT	566,352	SUL	N4HXI	211,770	SUL	W4HK	265,527	SUL	K0MPH	219,144	SUL	VA7FC	147,375	SUL
VA2SS	547,560	SUL	W4ZAO	174,384	SUL	KD8GOX	214,758	SUL	WB0SOK	169,641	SUL	KB7KYK	84,810	SUL
K1WHS	60,279	SO10	W4SVO	120,978	SO10	K9BGL	37,026	SO10	W5PR	166,608	SO10	K5RR	87,750	SO10
K2SSS	52,800	SO10	K5KG	103,248	SO10	KG9Z	8,928	SO10	KB0YH	11,430	SO10	W7RN (K5RC, op)	59,472	SO10
W3EP	52,428	SO10	NA4CW	62,568	SO10	K8GVK	7,254	SO10	VE5KS	8,910	SO10	NU6S	33,813	SO10
W2AW	25,599	SO10	K4WI	32,292	SO10	WN9MFC	5,046	SO10	WA0FQK	8,610	SO10	W7BJN	30,774	SO10
K1VSJ	19,740	SO10	K4TMC	19,305	SO10	N9JZN	2,886	SO10	W0PI	7,533	SO10	N7BK	16,188	SO10

Regional Leaders by Category - Continued

K8PO	516,006	SO15	N4PN	431,310	SO15	N8BJQ	188,670	SO15	N5MV	141,696	SO15	N7DD	612,066	SO15
KU2M	399,324	SO15	AG4W	232,098	SO15	KE9I	172,530	SO15	KZ5J	87,897	SO15	NA2U	338,451	SO15
N2PP	274,428	SO15	W4DXX	181,656	SO15	WA8RCN	120,456	SO15	W0HBH	39,537	SO15	WA7LT	148,740	SO15
N1PGA	127,755	SO15	WB2REM	172,866	SO15	N9TGR	102,885	SO15	AD0H	26,196	SO15	WA6KHK	80,028	SO15
K1NYK	114,048	SO15	KM4HI	165,600	SO15	W9ILY	56,700	SO15	AF5CC	15,606	SO15	VA6MA	50,091	SO15
W3FW	259,671	SO20	K4TRH	51,903	SO20	W9WJ	48,840	SO20	NZ9Y	54,054	SO20	K6HNZ	154,704	SO20
VE9HF	153,120	SO20	K4AMA	16,005	SO20	VE3TL	30,885	SO20	N7IV	45,738	SO20	K7AWB	153,090	SO20
WR2G	149,640	SO20	NY4JB	6,216	SO20	K9IDQ	28,116	SO20	W0PPF	13,200	SO20	K7ABV	28,161	SO20
W1AVK	86,856	SO20										KB7QFE	17,967	SO20
WF1G	61,200	SO20										KB7HFH	4,785	SO20
K3NK	11,781	SO40	N4NW	42,402	SO40	K8DJC	36,186	SO40	VE5CPU	5,394	SO40	W7WA	283,710	SO40
W3EH	4,512	SO40	KJ4EX	16,200	SO40	VE3FU	28,500	SO40	NA0BR	5,244	SO40	W6YI	257,928	SO40
			K5OMC	1,596	SO40	AD8C	19,110	SO40				W6RKC	12,882	SO40
						VE3SWS	12,972	SO40				W7ON	5,088	SO40
						W9QL	10,458	SO40				KI7BP	1,566	SO40
K6AA X/VY2	152,460	SO80	W4QNW	12,546	SO80	ND8DX	40,257	SO80	K0KT	5,328	SO80	no entry		SO80
KM1R	190,320	SO80	K4MTI	540	SO80	W8JMF	5,145	SO80	AA5B	2,850	SO80			
KU1T	184,080	SO80				W19H	4,320	SO80						
WA8UEG	12,240	SO80				W8TM	3,393	SO80						
WB1EAZ	3,348	SO80												
VY2ZM	44,286	SO160	AC5O	714	SO160	WD8DSB	147	SO160	K5RX	3,108	SO160	no entry		SO160
W2MF	12,126	SO160							N5JDT	27	SO160			
W2VO	3,360	SO160												
K1HAP	2,700	SO160												
W3GH	1,794	SO160												
K1LZ	4,570,146	MSH	W4HZ	1,593,108	MSH	KD9ST	1,323,252	MSH	K0RF	3,495,270	MSH	NX6T	1,410,825	MSH
K1KI	3,774,378	MSH	AD4ES	345,060	MSH	VE3MIS	1,240,272	MSH	N5YA	1,034,892	MSH	K7ZS	1,229,256	MSH
K9RS	3,447,900	MSH	KD4RF	276,864	MSH	WN9O	1,238,733	MSH	WC7WB	460,845	MSH	K6MMM	614,925	MSH
N1MM	3,433,608	MSH				KC8IMB	200,301	MSH	K0JE	341,172	MSH	N7VF	527,040	
N1BA	2,823,246	MSH							KO7X	1,326,060	MSH	WX7P	301,920	
W2TZ	653,112	MSL	K5KDX	153,972	MSL	W8LRC	35,802	MSL	W0UO	797,268	MSL	W6YX	534,540	MSL
W3ZGD	512,472	MSL	AD5XM	7,056	MSL	K8DAC	4512	MSL				N6DZR	180,387	MSL
AB1OD	320,016	MSL										VE7NA	13,608	
W3WN	116,180	MSL												
NO2J	103,875	MSL												

Regional Leaders by Category - Continued

KB 1H	4,400,928	M2	W4RM	461963	M2	K8AZ	4,071,858	M2	NØMA	979506	M2	W6WB	4,244,448	M2
KØTV	3,275,616	M2	W5RU	2920680	M2	K9CT	2,937,768	M2				W7IV	2,646,900	M2
K2AX	2,726,844	M2				NØUJ	1,980,180	M2				K9YC	807,534	M2
K1KP	2,629,536	M2				K9IU	213,144	M2						
WA3EKL	1,869,462	M2				N9KK	73728	M2						
K3LR	1,176,218	MM				WØAIH	2,666,166	MM	NR5M	5645184	MM	AK7AZ	908,418	MM
W3LPL	1,121,844	MM				WA8RRA	11795	MM	KBØHH	572448	MM	VE7IO	313,020	MM
WE3C	9,006,795	MM				N9KY	24948	MM	N5AA	399,186	MM			
KM 1W	6,031,341	MM							KB5TX	144,480	MM			
K1RX	5,725,008	MM							KE5FXE	54,468	MM			

2012 ARRL DX Phone Contest Division Winners

Single Operator, All-Band, High Power			Single Operator Unlimited, Low Power			Single Operator, 40 Meters			Multioperator, Single Transmitter, High Power		
Atlantic	W2RE	4,246,440	Atlantic	W3KB	748,584	Atlantic	K3NK	11,781	Atlantic	K9RS	3,447,900
Canada	VE3EJ	4,374,360	Canada	VA2SS	547,560	Canada	VE3FU	28,500	Canada	VE3MIS	1,240,272
Central	W9RE	2,951,214	Central	WE9R	609,150	Central	W9QL	10,458	Central	KD9ST	1,323,252
Dakota	NEØU	432,054	Dakota	KØMPH	219,144	Delta	K5OMC	1,596	Dakota	KØJE	341,172
Delta	W5WMU	1,230,552	Delta	N4MIK	43,326	Great Lakes	K8DJC	36,186	Great Lakes	KC8IMB	200,301
Great Lakes	K8GL	1,619,085	Great Lakes	W8KTQ	394,212	Hudson	W3EH	4,512	Hudson	W2MU	1,848,432
Hudson	K2XA	2,190,462	Hudson	N2KPB	578,160	Northwestern	W7WA	283,710	New England	K1LZ	4,570,146
Midwest	KU1CW	2,107,092	Midwest	KCØDEB	150,075	Pacific	W6RKC	12,882	Northwestern	K7ZS	1,229,256
	NC1I (K9PW, op)		New England	KA2KON	741,150	Roanoke	N4NW	42,402	Pacific	K6MMM	614,925
New England	op	2,721,360	New England	KA2KON	741,150	Southeastern	KJ4EX	16,200	Roanoke	W4HZ	1,593,108
Northwestern	N9RV	2,966,301	Northwestern	KB7KYK	84,810	Southwestern	W6YI	257,928	Rocky Mountain	KØRF	3,495,270
Pacific	K6XX	1,700,460	Pacific	K6MMU	79,242				Southeastern	AD4ES	345,060
	N4RV (KE3X, op)		Roanoke	N4HXI	211,770				Southwestern	NX6T	1,410,825
Roanoke	op	2,533,638	Roanoke	N4HXI	211,770				West Gulf	N5YA	1,034,892
	K7KU (KØKR, op)		Rocky Mountain	KØUK	1,016,565						
Rocky Mountain	op	760,383	Rocky Mountain	KØUK	1,016,565						
Southeastern	K1TO	3,258,036	Southeastern	KT4ZB	977,499						
Southwestern	K6NA	604,443	Southwestern	WN6K	525,930						
West Gulf	K5TR	2,830,449	West Gulf	N5DO	974,133						
Single Operator, All-Band, Low Power			Single Operator, 10 Meters			Single Operator, 80 Meters			Multioperator, Single Transmitter, Low Power		
Atlantic	W2TF	485,685	Atlantic	K2SSS	52,800	Atlantic	KU1T	18,408	Atlantic	W2TZ	653,112
Canada	VA3SWG	417,024	Canada	VE5KS	8,910	Canada	K6AA/VY2	152,460	Canada	VE7NA	13,608
Central	N4TZ	989,712	Central	K9BGL	37,026	Central	W19H	4,320	Delta	K5KDX	153,972
Delta	NA4K	555,894	Dakota	WØPI	7,533	Great Lakes	ND8DX	40,257	Great Lakes	W8LRC	35,802
Great Lakes	N8AA	697,248	Delta	KE5SNJ	3,024	Midwest	KØKT	5,328	Hudson	K1NSS	7,869
Hudson	WA2JQK	422,154	Great Lakes	KG9Z	8,928	New England	KM1R	19,032	New England	AB1OD	320,016
Midwest	NR9A	341,925	Hudson	W2AW	25,599	Roanoke	W4QNW	12,546	Pacific	W6YX	534,540
New England	N1UR	2,146,506	Midwest	WAØFQK	8,610	Rocky Mountain	AA5B	2,850	West Gulf	WØUO	797,268
Northwestern	K9JF	815,298	New England	K1WHS	60,279	Southeastern	K4MTI	540			
Pacific	K7ACZ	280,350	Northwestern	W7BJN	30,774						
				W7RN (K5RC, op)							
Roanoke	N4XL	688,371	Pacific	op	59,472						
Rocky Mountain	KIØJ	171,465	Roanoke	K4TMC	19,305						
Southeastern	AD4Z	1,835,856	Rocky Mountain	KBØYH	11,430						
Southwestern	NN3V	329,640	Southeastern	W4SVO	120,978						
West Gulf	N5AW	1,186,500	Southwestern	K5RR	87,750						
			West Gulf	W5PR	166,608						

2012 ARRL DX Phone - DX Top Ten

Call	Score	Call	Score	Call	Score	Call	Score
Single-Op, All Band, High Power		Single-Op Unlimited, Low Power		Single-Op, Single Band, 40 Meters		Multi-op, Single Transmitter, Low Power	
8P5A (W2SC, op)	9,722,772	P43E	1,035,567	ZF2AH	394,710	H13K	4,805,097
V26M (N3AD, op)	6,676,425	8P6NW	949,905	TM9R	269,820	VP9I	4,483,800
KP2M (N2TK, op)	6,500,556	3G1D (CE1VIL, op)	748,659	OK1FFU	230,040	T48K	2,402,529
T05A	5,764,011	PY2VZ	602,832	PR7AP	167,067	LU1UM	1,390,800
9Y4W	5,188,320	IB1B (IW1QN, op)	565,728	CE3EEA	140,391	ZV2K	735,504
CR6K (CT1ILT, op)	5,119,821	HK3JJB	336,168	HC2AQ	138,168	KP4MM	659,088
LT1F (LU1FAM, op)	4,425,516	KP2BH	327,990	IO6A	131,904	CV5K	556,365
OA4SS	3,675,951	PY2ZR	319,422	IR2C (HB9DUR, op)	113,886	PR5A	447,447
LX7I (LX2A, op)	3,521,700	EI/W5GN	263,451	XE2S	99,528	PS2R	216,144
CO2GG	3,008,448	EF1W (EA1WS, op)	204,702	ED3B (EA3BOX, op)	98,784	EE5W	86,496
Single-Op, All Band, Low Power		Single-Op, Single Band, 10 Meters		Single-Op, Single Band, 80 Meters		Multi-op, Two Transmitter	
P4ØV (W5AJ, op)	5,295,528	PX5E (PP5JR, op)	673,554	YW5T (YV5JBI, op)	123,144	6Y1V	11,719,305
H13TEJ	5,039,685	LU5FC	585,162	4M5W (YV5MSG, op)	115,344	T15N	10,550,358
J88DR	4,002,900	PY2LED	419,580	GM3PPG (G4BYB, op)	79,110	KH6LC	8,036,280
V31YK (DL2AYK, op)	2,925,252	HQ2GL	411,840	CL8AKY	50,055	PT5T	7,361,070
J7Y (K1LI, op)	2,218,878	CE1DY	284,439	EA7EU	32,760	ED1R	4,455,360
TG7/N6HD	2,151,279	PU2LEP	271,695	UU7J (JU1AZ, op)	26,532	I19P	2,082,816
EA8MT	1,169,136	XE1BY	260,010	SP3GTS	5,772	PI4DX	2,030,742
V51YJ	1,132,509	LU8EOT	258,552	UT2II	3,876	HG7T	1,612,995
XE1XOE	1,120,290	KP4JRS	245,268	EA1AAW	1,920	JA1YPA	1,241,460
8P6EX	1,118,988	LW7DUC	240,816	G4I1Y	1,485	GM7R	1,143,990
Single-Op, All Band, QRP		Single-Op, Single Band, 15 Meters		Single-Op, Single Band, 160 Meters		Multi-op, Multi-Transmitter	
LU7HZ	136,479	PR5B (PY2LSM, op)	522,660	KV4FZ	72,072	EF8R	8,961,225
F5BEG	88,452	KH7Y	521,460	LU2DVI	468	LP1H	7,469,304
IV3AOL	28,539	KP2MM (N2TTA, op)	497,943	GWØGEI	432	T18M	7,285,140
JH1APZ	24,624	F6KHM (F8DBF, op)	450,729	YV5IAL	192	C6ANM	5,081,076
LU1VK	18,819	TM1W (F5HRY, op)	450,180	EU3AR	12	9A1A	3,743,250
JA2MWW	18,669	CE3CT (CE4CT, op)	434,625	EU2EU	3	JA3YBK	2,340,831
DL8LR	14,964	WH7Z (WØCN, op)	363,912	SP5CIY	3	HG1S	1,942,920
IK1BBC	14,553	EI7M (EI8IR, op)	348,480			JE12WT	1,098,279
PY2BN	13,221	CM8AKD	316,476			S5ØXX	334,314
PUSATX	12,084	TM7F (F6GLH, op)	306,033			PY2PT	17,766
Single-Op Unlimited, High Power		Single-Op, Single Band, 20 Meters		Multi-op, Single Transmitter, High Power			
PJ4G (K2NG, op)	6,471,075	HK1T	627,324	PJ2T	8,998,236		
ZZ2T (PY2MNL, op)	3,063,294	YW4D (YV1DIG, op)	538,752	P4ØL	8,880,270		
G6PZ (I21LBG, op)	2,750,814	TM6M (F1AKK, op)	505,263	VP5H	8,158,941		
PR2X (PY2ADR, op)	2,419,308	PX5C (PY2BK, op)	352,458	CR2X	6,912,948		
DR1D (PY2SEX, op)	2,146,188	C6AZZ (K4IIO, op)	325,620	KH7X	6,626,124		
CE1TT	1,493,790	WP3A	314,280	TO11A	5,653,935		
ZL3IO	1,311,177	DLØWW	250,527	NP2B	5,386,605		
EE7E (EA7RU, op)	1,148,295	TG9ANF	245,220	CW5W	4,762,812		
HF8N (SP8BRQ, op)	980,958	OL9Z (OK2PVF, op)	214,659	CS2C	4,348,050		
PY5ARP (PY5ZD, op)	839,460	OHØX (OH2TA, op)	213,480	LS1D	4,251,708		

Continental Leaders

QRP/LP/HP = Single-Op All-Band, SUH/SUL = Single-Op Unlimited/Low-Power, MSH/MSL = Multioperator, Single Transmitter/Low-Power

Africa			Asia			Europe		
5H3EE	211,014	HP	JAØJHA	1,918,938	HP	CR6K (CT1ILT, op)	5,119,821	HP
EA8MT	1,169,136	LP	JH4UYB	348,984	LP	EA6AZ	217,251	LP
CT3BD	63,648	SUH	JH1APZ	24,624	QRP	F5BEG	88,452	QRP
EA8BZH	36,000	SUL	JAØFVU	365,442	SUH	G6PZ (IZ1LGB, op)	2,750,814	SUH
EA8LS	38,367	SO20	HSØZJU	91,884	SUL	IB1B (IW1QN, op)	565,728	SUL
CT3DZ	237,858	SO15	JE1SPY	858	SO80	GWØGEI	432	SO160
CR3L	2,884,260	MSH	A65BP (RV6LNA, op)	13,440	SO40	GM3PPG (G4BYB, op)	79,110	SO80
EF8R	8,961,225	MM	RK9QWM (RW9QU, op)	50,388	SO20	TM9R	269,820	SO40
			JR1CBC	227,136	SO15	TM6M (F1AKK, op)	505,263	SO20
			JA7OWD	73,710	SO10	F6KHM (F8DBF, op)	450,729	SO15
			RUØFM	1,665,102	MSH	CR2T (CU2AF, op)	56,745	SO10
			RK9CZO	6,720	MSH	CR2X	6,912,948	MSH
			JA1YPA	1,241,460	M2	EE5W	86,496	MSH
			JA3YBK	2,340,831	MM	ED1R	4,455,360	M2
						9A1A	3,743,250	MM
North America			Oceania			South America		
8P5A (W2SC, op)	9,722,772	HP	VK7ZE	437,031	HP	9Y4W	5,188,320	HP
HI3TEJ	5,039,685	LP	KH6CJJ	459,576	LP	P4ØV (W5AJ, op)	5,295,528	LP
V47JA	754,200	SUH	DU1AJ	897	QRP	LU7HZ	136,479	QRP
8P6NW	949,905	SUL	ZL3IO	1,311,177	SUH	PJ4G (K2NG, op)	6,471,075	SUH
KV4FZ	72,072	SO160	YB1ALL	31,248	SUL	P43E	1,035,567	SUL
CL8AKY	50,055	SO80	KH6QJ	1,302	SO80	LU2DVI	468	SO160
ZF2AH	394,710	SO40	DU9XO	20,160	SO40	YW5T (YV5JBI, op)	123,144	SO80
C6AZZ (K4IIO, op)	325,620	SO20	WH7GG	105	SO20	PR7AP	167,067	SO40
KP2MM (N2TTA, op)	497,943	SO15	KH7Y	521,460	SO15	HK1T	627,324	SO20
HQ2GL	411,840	SO10	KG6DX	103,824	SO10	PR5B (PY2LSM, op)	522,660	SO15
VP5H	8,158,941	MSH	KH7X	6,626,124	MSH	PX5E (PP5JR, op)	673,554	SO10
HI3K	4,805,097	MSH	KH6LC	8,036,280	M2	PJ2T	8,998,236	MSH
6Y1V	11,719,305	M2				LU1UM	1,390,800	MSH
TI8M	7,285,140	MM				PT5T	7,361,070	M2
						LP1H	7,469,304	MM

DX Results

If you were hanging out on the beaches of the Caribbean during the first weekend of last March, you might have felt a little extra warm from all that HF RF saturating the airwaves! The Caribbean was definitely the place to be as you can see from the SOAB-HP results. (Please read W9VA's Regional writeup of the Caribbean results.)

Holder of the only surviving winning streak in the DX results, Tom, W2SC operated his 8P5A station to a big win. When he's been able to operate in this contest, he has placed 1st or 2nd eight out of the past 11 years in SOAB-HP. Second and third place was a dogfight between Alan, N3AD at VP2M and Tony, N2TK at KP2M – they were only separated by 2.7%.

The DX Single-Op results are full of great stories as traveler and resident alike took up their microphones and battled the pileups and propagation all weekend long:

The P4ØV station just continues to win and win and win. This year, Robert, W5AJ took home the bacon from this historic Aruba QTH. Ted, HI3TEJ came up just short in 2nd place. Andrew, V51YJ was a welcome addition to the Top Ten from Windhoek, Namibia in 7th place!



"Honey, would you pass the 5/8ths socket?" This Mr-and-Mrs pair of climbers – Carl, P4ØV and Sue, P4ØYL – were snapped doing a little pre-contest antenna repair on the lower TH7 tribander that turned out to be a crucial element, so to speak, of Robert, W5AJ's SOAB-LP win from the DX side of the contest. (Photo by W5AJ)

Pedro, LU7HZ ran away with the SOAB-QRP category from Cordoba, Argentina. Pedro focused on 10 and 20 meters, making no contacts at all on 40 through 160. Congratulations to Gerard, F5BEG for an 11th straight Top Ten finish (as long as I've been writing up the contest results, anyway), finishing #1 or #2 in each of the past 5 years.

In SOU-HP, the Caribbean Cavalcade continued with Noah, K2NG taking the title at PJ4G. Europe and South America traded places until Holger, ZL3IO appears in the 7th spot from New Zealand.

Running barefoot, Emily, P43E took 1st in SOU-LP with a very nice score from Aruba and her first Top Ten finish in this contest.

Herb, KV4FZ lives for the low bands and trounced the SOSB-160 competition from the Virgin Islands. Venezuela was the 80 meter hot spot as countrymen Juan, YV5JBI (at YW5T) and Werther, YV5MSG (at 4M5W) finished 1st and 2nd. As described in the sidebar by K9LA, Joe, ZF2AH was the winner in SOSB-40.

On the high bands, SOSB-20 was the prize for Salim, HK1T from Colombia. Brazil was home to the winner on 15 meters as PR5B operated by Alan, PY2LSM was the SOSB-15 champion. Sergio, PP5JR was able to move the SOSB-10 trophy to Brazil from Argentina this year using the call PX5E.

The DX Multi-Operator results are an interesting mixture of local club stations that are active all year long and vacation operations by a team of travelers. That doesn't stop any of the categories from being closely contested!

Pushing their MS-HP abilities to the limit, PJ2T managed to just barely elude P4ØL with just 15 more QSOs and 5 multipliers – these teams know how to get the most out of that one transmitter! VP5T was not far off the pace in 3rd.

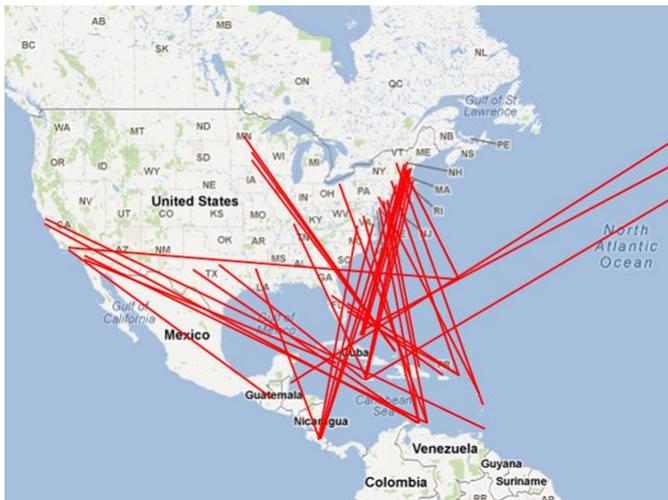
In MS-LP, the HI3K team was able to turn their 15 and 10 meter advantage into a victory over the big 160 through 20 meter numbers from VP9I.

M2 turned out to be the hot spot in DX Multi-op this year with winner 6Y1V and challenger TI5N both breaking 10,000 QSOs and 10M points. KH6LC did a great job from Oceania with a record-setting effort in 3rd.

The EF8R team is the first African MM winner in a long time (if ever) and set a big record, too – good job! LP1H and TI8M had a pretty good battle for 2nd and 3rd places, respectively.

Tickets, Please

“All the operators, where do they all come from?” That might have been the Beatles’ line had they only known about the peregrinations of contest operators to favorable DX locations. The following figure shows the flights taken by operators in the Top Ten who traveled to the Caribbean. Three came all the way from Europe! Do you think those Minnesota operators were pining for the March weather? Take a look at the Top Ten listings and see if you can match the calls at home and abroad!



It was nice to mix again the young generation with the old guys - PT5T

Club Competition

They’re up! They’re down! They’re up again! The knock-down, drag-out slugfest between the Frankford Radio Club (FRC) and Yankee Clipper Contest Club (YCCC) reversed again this year, scrambling the Club Competition table score card. YCCC was edged out of the top Unlimited club position by the slimmest of margins but jumped back up off the mat and delivered a slobber-knocker of 245 Mpoints to FRC’s 214 Mpoints. YCCC’s log totals jumped from 184 last year to 201 this year and those 17 extra logs made a lot of difference. Congratulations to the Florida Contest Group as they jumped from 8th place to 4th by doubling their total score with only 4 additional logs. What will next year bring?

Among the Medium clubs, the North Coast Contesters looked a little vulnerable last year...but not in 2012 as they won the gavel going away. The Hudson Valley Contesters and DXers club put 50% more points on the board to overtake the competition and place second. Out west, the Orca DX and Contest Club made a big jump and more than doubled their totals – this will play well in the annual Pacific Northwest Challenge Cup competition (click “PNW Traveling Trophy” at www.wwdxc.org) as

all three of the major Northwestern Division clubs are closely-spaced.

Holy smokes, the Local clubs are coming out of the woodwork with 37 different entries this year – excellent! Last year’s winner, the Iowa DX and Contest Club was dethroned by the Central Virginia Contest Club’s strong surge in points and logs. The Hilltop Transmitting Association (love that name!) stole a march on everybody to place 3rd. Watch out for the Kansas City operators – the two KC clubs combined would have placed 3rd easily!

Affiliated Club Competition 2012

	Score	Entries
Unlimited Category		
Yankee Clipper Contest Club	245,487,258	201
Frankford Radio Club	214,570,917	150
Potomac Valley Radio Club	187,702,503	192
Florida Contest Group	82,517,496	113
Northern California Contest Club	60,067,215	103
Minnesota Wireless Assn	48,775,248	108
Society of Midwest Contesters	44,822,133	81
Contest Club Ontario	44,266,113	67
Tennessee Contest Group	28,268,769	61
Southern California Contest Club	27,449,376	56
Arizona Outlaws Contest Club	16,023,492	65

Medium Category

North Coast Contesters	61,423,068	22
Hudson Valley Contesters and DXers	39,058,104	43
South East Contest Club	33,631,356	33
Carolina DX Association	23,932,758	47
Mad River Radio Club	21,296,601	24
Alabama Contest Group	18,482,925	41
Central Texas DX and Contest Club	18,391,008	17
Willamette Valley DX Club	14,726,088	35
ORCA DX And Contest Club	11,586,411	25
CTRI Contest Group	10,672,080	10
Western Washington DX Club	10,414,629	24
Rochester (NY) DX Assn	9,957,549	20
Northern Rockies DX Association	9,888,291	7
Maritime Contest Club	8,097,726	22
Order of Boiled Owls of New York	8,098,152	14
Lone Star DX Assn	7,999,125	10
Grand Mesa Contesters of Colorado	6,981,882	24
Louisiana Contest Club	5,838,624	9
Contest Group Du Quebec	5,179,047	13
Utah DX Assn	4,388,613	21
Mother Lode DX/Contest Club	4,354,866	16
Delara Contest Team	4,103,055	12
Western New York DX Assn	3,938,868	11
North Texas Contest Club	3,484,323	11
Bristol (TN) ARC	2,220,534	12
Spokane DX Association	2,124,741	20
Metro DX Club	2,104,005	14
Bergen ARA	2,035,602	15
Allegheny Valley Radio	1,912,527	10
Alberta Clippers	1,668,192	3
Eastern Iowa DX Assn	1,138,629	5
Saskatchewan Contest Club	1,072,644	8
West Park Radiops	1,063,446	18
Kentucky Contest Group	956,013	6
Mississippi Valley DX/Contest Club	923,952	6
Radio Club of Redmond	221,172	4
Texas DX Society	191,034	3
Mt Airy VHF Radio Club	127,338	3
Central Arizona DX Assn	50,151	3

Affiliated Club Competition 2012 (continued)

Local Category

Central Virginia Contest Club	6,687,126	10
Iowa DX and Contest Club	4,787,178	3
Hilltop Transmitting Assn	2,604,204	8
Southwest Ohio DX Assn	2,472,951	6
Blue Ridge ARC	1,902,990	6
Kansas City Contest Club	1,833,654	6
Kansas City DX Club	1,571,532	9
CorTek Radio Association	1,159,731	6
Sterling Park ARC	1,061,367	7
San Diego DX Club	1,013,304	3
Northern Arizona DX Assn	910,239	4
Salt City DX Assn	669,504	3
Meriden ARC	659,280	5
599 DX Association	509,736	5
DFW Contest Group	480,087	6
Hazel Park ARC	428,445	3
Wireless Association of South Hills	423,315	4
Skyview Radio Society	339,834	3
Granite State ARA	313,053	5
New Mexico Big River Contesters	312,093	5
Lincoln ARC	296,022	3
South Jersey DX Assn	280,035	4
Midland ARC	264,798	3
Fort Wayne Radio Club	263,286	4
10-70 Repeater Assn	257,697	4
Portage County Amateur Radio	201,111	4
Southern California DX Club	179,793	4
Brazos Valley ARC	176,715	3
Albuquerque DX Assn	162,366	3
Low Country Contest Club	156,738	3
Southern Berkshire ARC	152,547	3
Great South Bay ARC	150,081	5
Heartland DX Association	143,046	5
Long Island Mobile ARC	86,703	3
Saginaw Valley ARA	76,047	5
Fox River Radio League	28,794	4
Hays-Caldwell ARC	3,222	3

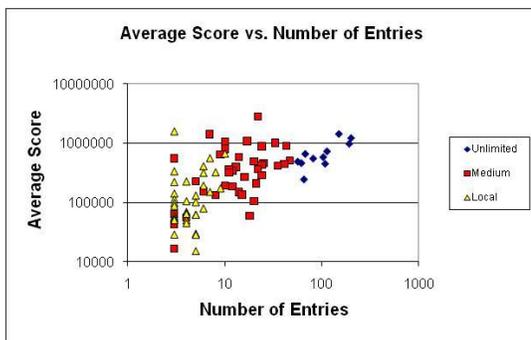
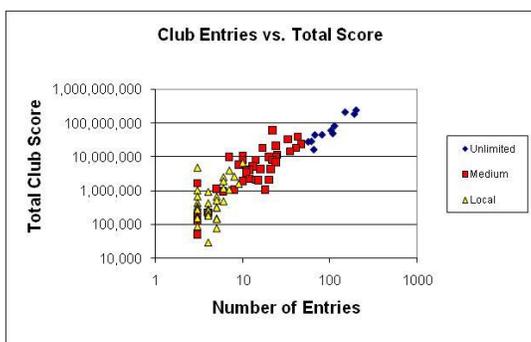
Down to the Wire(less)

Would you take a look at the W/VE SOAB-HP Top Ten! The race was decided by just 3% and the first four places were separated by a very competitive 12% top to bottom. (See the section on Competitive Categories below.) In W/VE SOSB-20, the 2nd-3rd-4th race for place and show was extremely tight – all three stations were within 1% of each other and from opposite sides of the continent. The W/VE M2 Top Ten was also tightly packed with about 4% separating the first few places. K3LR and W3LPL roared through the entire race neck-and-neck with the K3LR team managing to hang on for a slim 5% victory.

Down in the Caribbean, 2nd and 3rd place in SOAB-HP was decided by only 3% as N3AD piloted V26M ahead of N2TK at KP2M. The SOAB-LP race was just as tight – W5AJ at the P4ØV station eked out a 5% win over HI3TEJ. One of the tightest races in the whole contest turned out to be in the DX SOSB-10 category – 0.2% was the difference between competitors on nearly opposite sides of the planet as PR5B with PY2LSM at the mike broke the tape just ahead of KH7Y. The big DX multi-op teams were just as competitive as here at home – was only 1.3% ahead of P4ØL when the scoring was over with VP5H hot on their tails.

Sponsored Plaque Winners

Here's the wide world of walnut for the contest – congratulations to all of these plaque winners listed in the following table! If you are a plaque winner, be sure to drop a thank-you note in the mail to the sponsors – it's the proper thing to do and lets them know you appreciate their donation. If your club would like to support the ARRL Contest Program, what better way than to sponsor one or more plaques? You can sponsor one for an existing category or make up your own!



Sponsored Plaque Winners		
Plaque Category	Plaque Sponsor	Winner
W/VE Single Operator High Power Phone	Frankford Radio Club	VE3EJ
W/VE 1.8 MHz Phone	Butch Greve, W9EWC Memorial	VY2ZM
W/VE 3.5 MHz Phone	Jeffrey Briggs, VY2ZM	K6AAVY2
W/VE 7 MHz Phone	Charles Wooten, NF4A	W7WA
W/VE 21 MHz Phone	Northern Illinois DX Association	N7DD
W/VE 28 MHz Phone	Ralph Fontaine AF7DX	W5PR
W/VE Single Operator QRP Phone	Jeffrey Briggs, K1ZM	W2ID
W/VE Single Operator Assisted, High Power Phone	Pete Carter, K3VW Memorial	K3WWW
World Single Operator High Power Phone	North Jersey DX Association	8P5A (W2SC, op)
World 1.8 MHz Phone	Fred Race, W8FR, In Memory of ZL2BT	KV4FZ
World 7 MHz Phone	Jim Rafferty, N6RJ Memorial - Cayman ARS	ZF2AH
World 14 MHz Phone	Don Wallace, W6AM, Memorial Award	HK1T
World 28 MHz Phone	North Shenandoah DX Association NS4DX	PX5E (PP5JR, op)
Asia Multioperator Single Transmitter, High Power Phone	Yankee Clipper Contest Club	RUØFM
North America Multioperator Single Transmitter, High Power Phone	Nick Lash, K9KLR	VP5H
World Multioperator Two Transmitters Phone	W6NL and K6BL	6Y1V
Japan Single Operator Low Power Phone	Western Washington DX Club	JH4UYB
Seventh Call Area Single Operator High Power Phone	Willamette Valley DX Club	N9RV
World Multioperator Unlimited Phone	Stanley Cohen, W8QDQ	EF8R
Asia Single Operator QRP Phone	Sean Kutzko, KX9X	JH1APZ
World Single Operator Phone Low Power	Arizona Outlaws Contest Club	P4ØV (W5AJ, op)
Canada Single Operator Low Power Phone	Contest Club Ontario	V43SWG
Great Lakes Division Single Operator Unlimited, High Power Phone	Northern Ohio DX Association	W8MJ

Accuracy

Accurate operating – as the preceding section indicates – is deciding more and more races around the world. Highly prized, the skill of pulling an entire correct call out of the pileups is something to which we should all aspire – Big Gun and Little Pistol alike. With over 90% of all contacts being checked by software, being able to complete the QSO with all the information correct has never been more important. And isn't that one of the reasons for having contests, anyway – to hone our operating skills for when more than a Top Ten finish is riding on accurate communication? Improving your own accuracy index from year to year is an excellent goal. Golden Logs are logs that incurred no log-checking penalties. (See the **Records** section for more about W7WA's achievement.)

Accuracy Leaders

W-VE

Single-Op

Call	Category	QSOs	Error %	Index
VC3A (VE3AT, op)	SOAB-HP	3260	0.4	13.473
VE3EJ	SOAB-HP	3364	0.6	13.467
VY2TT (K6LA, op)	SOAB-HP	3388	1	13.430
K1TO	SOAB-HP	2804	0.4	13.408
N2IC	SOAB-HP	2906	0.6	13.403

Single-Op Unlimited

Call	Category	QSOs	Error %	Index
K3WW	SOU-HP	2792	1.4	13.306
AA3B	SOU-HP	2118	0.9	13.236
N3RS	SOU-HP	1995	0.9	13.210
W1GD	SOU-HP	1738	1	13.140
N3RR	SOU-HP	2099	1.9	13.132

Multi-Op

Call	Category	QSOs	Error %	Index
K3LR	MM	6536	0.9	13.725
W3LPL	MM	6238	1.2	13.675
WE3C	MM	5330	0.9	13.637
KM1W	MM	3947	1.2	13.476
W2PV	MM	3407	1	13.432

DX

Single-Op

Call	Category	QSOs	Error %	Index
8P5A (W2SC, op)	SOAB-HP	9367	0.6	13.912
KP2M (N2TK, op)	SOAB-HP	6842	0.4	13.795
V26M (N3AD, op)	SOAB-HP	7129	1	13.753
P4ØV (W5AJ, op)	SOAB-LP	5620	0.7	13.680
LT1F (LU1FAM, op)	SOAB-HP	5693	0.8	13.675

Single-Op Unlimited

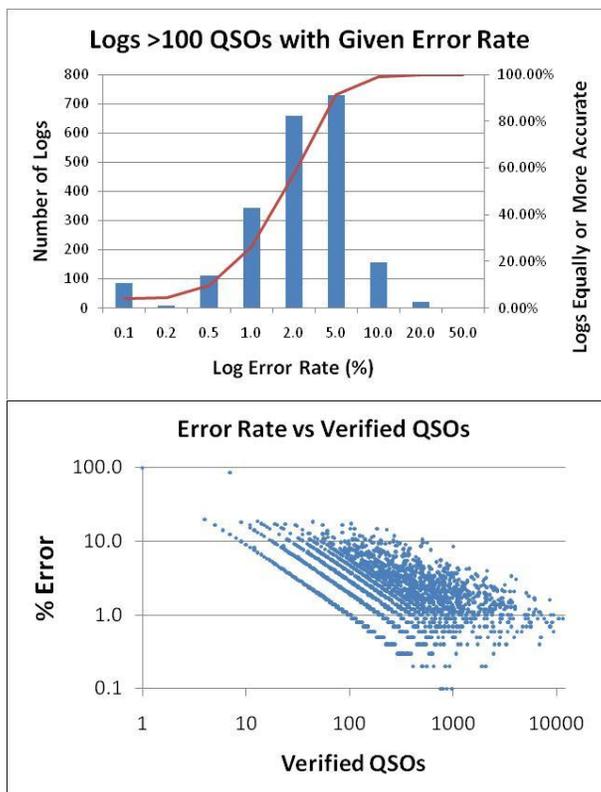
Call	Category	QSOs	Error %	Index
PJ4G (K2NG, op)	SOU-HP	6706	1.1	13.716
ZZ2T (PY2MNL, op)	SOU-HP	4156	0.6	13.559
G6PZ (I21LBG, op)	SOU-HP	3822	0.9	13.492
PR2X (PY2ADR, op)	SOU-HP	3579	1.6	13.394
DR1D (PY2SEX, op)	SOU-HP	3162	1.2	13.380

Multi-Op

Call	Category	QSOs	Error %	Index
6Y1V	M2	11416	0.9	13.968
T15N	M2	10449	0.9	13.929
LP1H	MM	9019	0.8	13.875
P4ØL	MS-HP	8690	0.7	13.869
EF8R	MM	9270	1	13.867

Accuracy Index All-Time Records

Call	Category	QSOs	Error Rate	Index	Year
W/VE					
SO VY2ZM	SOAB-HP	4084	0.5	13.561	2010
SOU W2RE	SOU-HP	3541	0.7	13.479	2011
MO K3LR	MM	7894	0.6	13.837	2011
DX					
SO 8P5A (W2SC, op)	SOAB-HP	9292	0.5	13.918	2011
SOU PJ4G (K2NG, op)	SOU-HP	6706	1.1	13.716	2012
MO PJ4G	M2	12197	0.6	14.026	2011



Error rate equals the total of “bad” QSOs in your Log Checking Report, those with a “busted” call (B) or exchange (X) or that are “Not In Log” (N) – divided by the number of good QSOs remaining.

$$\text{Error Rate (\%)} = 100\% \times (\text{B} + \text{X} + \text{N}) / \text{QSOs}$$

The Accuracy Index rewards lower error rates for large logs. For two logs with equal error rates, the log with more verified contacts has a higher index.

$$\text{Accuracy Index} = \log_{10}(\text{Good QSOs}) + 10 \times (1 - \text{Error Rate})$$

Top Ten Largest Golden Logs

Call	QSOs	Call	QSOs
W7WA	965	N6DZR	393
K7UA	500	VE4YU	323
VA3DF	485	EA3NO	305
K3OO	454	W8BFX	265
ZS2NF	406	KS4X	245

Which Categories are Competitive?

Looking over the Top Ten for many categories for a number of years develops a sense of which categories bring out the competition. Some categories seem to be competitive year-in and year-out, regardless of the number of sunspots or whether conditions were good. Other categories only seem to be competitive when conditions are good or in the case of single-band categories, when the conditions favor that band. Naturally, I decided that it would be interesting to measure competitiveness.

Sensing competitiveness is not at all the same as being able to measure it. If there was competition, the place to look would be in the Top Ten and not worry about the casual or part-time scores, so only the Top Ten scores would be used. After ruining a few napkins and fooling around with a spreadsheet, I decided that by “competitive” I meant that the scores were tightly grouped and close to the top score. There are various statistics that measure “tightly grouped” but I settled for a simple measure of the ratio of the average score in the Top Ten to the top score. Using that method, the most competitive a category could ever be is to have a ten-way tie, so the highest Competitive Index would be 1.0. The least competitive category would have a single score and a Competitive Index of 0.1.

For each category I had a spreadsheet calculate the value:

Competitive Index = Average Top Ten Score / Highest Top Ten Score

The results for both W/VE and DX categories are in the table at right.

Are there surprises here? There shouldn't be too many or else the formula isn't calculating what I stated competitiveness to be! The most competitive SOAB W/VE categories turn out to be SOAB-HP and SOU-LP. Of the SOSB categories, 15 meters was the most competitive, while M2 and MS-HP saw the most heated Multi-Op competition. On the DX side, the same two SOAB categories and SOSB-15 were the most competitive. In fact, the DX SOSB-15 category was the most competitive in the whole contest! DX MS-HP was more a little more competitive than on the W/VE side, as well. The Competitive Index bears watching over time – it would be possible to go back and compute it for years past using the published data. Any takers?

Category Competitiveness

W/VE Category	Competitive Index
Single-Op, All Band, High Power	0.80
Single-Op, All Band, Low Power	0.47
Single-Op, All Band, QRP	0.54
Single-Op Unlimited, High Power	0.62
Single-Op Unlimited, Low Power	0.72
Single-Op, Single Band, 10 Meters	0.48
Single-Op, Single Band, 15 Meters	0.55
Single-Op, Single Band, 20 Meters	0.45
Single-Op, Single Band, 40 Meters	0.25
Single-Op, Single Band, 80 Meters	0.18
Single-Op, Single Band, 160 Meters	0.17
Multi-op, Single Transmitter, High Power	0.64
Multi-op, Single Transmitter, Low Power	0.43
Multi-op, Two Transmitter	0.75
Multi-op, Multi-Transmitter	0.51

DX Category	Competitive Index
Single-Op, All Band, High Power	0.55
Single-Op, All Band, Low Power	0.49
Single-Op, All Band, QRP	0.27
Single-Op Unlimited, High Power	0.35
Single-Op Unlimited, Low Power	0.52
Single-Op, Single Band, 10 Meters	0.54
Single-Op, Single Band, 15 Meters	0.81
Single-Op, Single Band, 20 Meters	0.57
Single-Op, Single Band, 40 Meters	0.45
Single-Op, Single Band, 80 Meters	0.36
Single-Op, Single Band, 160 Meters	0.15
Multi-op, Single Transmitter, High Power	0.71
Multi-op, Single Transmitter, Low Power	0.33
Multi-op, Two Transmitter	0.43
Multi-op, Multi-Transmitter	0.43

I enjoyed the contest. U.S. is long distance....JA2HNP.

DXing

We had a rare occurrence of a Single-Operator station out-multiplier-ing a Multi-Operator team as VY2ZM found another couple of multipliers on 160 meters from Prince Edward Island that Frank W3LPL's Maryland Beverages couldn't pull in. Jeff's son Patrick had the top Single-Op entity total on 80 meters, second to the K3LR squad. Conditions on 80 meters just weren't good enough for any station to make the coveted 5-Band DXCC in a weekend. I'm sure the 10 meter operators are not complaining, though, with a second straight year of high multiplier totals. The best DXCC entity totals by a Multi-Op and Single-Op entry are listed below:

160: VY2ZM (SOAB-160) 61, W3LPL (MM) 59

80: K3LR (MM) 88, K6AAX/VY2 (SOSB-80) 84

40: K3LR (MM) 112, W7WA (SOSB-40) 98, 3 stations made DXCC

20: K3LR (MM) 140, W8TA (SOAB-HP) 110, 41 stations made DXCC

15: W3LPL (MM) 128, N7DD (SOSB-15) 118, 49 stations made DXCC

10: W3LPL (MM) 93, W5PR (SOSB-10) 89

Once again in the DX multiplier leader list, all of the calls are from the Caribbean or north shore of South America. We do have an unusual achievement this year in that there is a tie at 348 multipliers between the PJ2T MS-HP team and W2SC operating at 8P5A (SOAB-HP) – nice work by a single operator to not only make all the QSOs but find as many multipliers as the leading Multi-Op station! 6Y1V in M2 was next with 345 and the MS-HP teams at P4ØL and VP5H also tied with 343 multipliers apiece.

Going for the Sweep

By Carl Luetzelschwab K9LA

When we hear the word “sweep” we normally think of the November Sweepstakes and working all the US and Canadian sections but for the ARRL DX contests, this “sweep” means winning on all six bands as a Single-Band entrant. No one has ever done this. Larry, K1UO in Maine has won on five of the six bands in W/VE Phone, only missing a 160 meter title, and Joe, W6VNR has been getting closer and closer as ZF2AH.

Joe started his quest with a 10 meter win in 2000. In 2004 he picked up the 20 meter trophy and repeated on 20 meters in 2007. In 2008 he won 80 meters and followed up in 2009 with first place on 160 meters to have won on four of the six bands. He’s tried 15 meters over the years but so far has lost to a South American station every time.

In 2010 he placed second behind CR2X on 40 meters and in 2011 he ended up second again but this time to HK1T. In 2012 he came back to 40 meters, figuring there would be less competition due to more people being on 15 meters to take advantage of Cycle 24’s ascent. As you can see by the Single-Band DX results, not only did ZF2AH win but he clobbered the competition on 40!

With only 15 meters remaining for the full six-pack, will Cycle 24 finally put ZF in the sweet spot before the peak is past? Will K1UO beat him to the finish line on 160 meters? Only time and Ol’ Sol can tell! – K9LA

Good Practices, Please

There is always room for improvement on our operating practices – maybe that’s why they call it “practice”! Well, not really, but if you’re wondering how to improve your score and how the Big Guns make so many QSOs, it’s likely that the least expensive station accessory to improve is the one between your headphones.

- Efficiency – no extra words or comments.
- Full calls – use them on transmit and pull them out when called.
- High-quality audio – put your watts where they count: information not distortion.
- Identification – don’t waste the time of others, give your call!
- Accuracy – no guessing, get it right or don’t log it.

If you get a chance, watch for a Contest University (contestuniversity.com) or similar program coming to a convention or hamfest near you. These one-day packages of contest courses are a focused way of gaining a lot of know-how very quickly – kind of like a contest!

A New Voice in the Pileups

It’s always great to learn of a new operator making a splash on the bands. This year, we heard of a new voice from the far Northwest – Alaska, in fact, as related by Larry, KL7/N1TX. *“We were no match for Mother Nature this weekend, but the team refused to cave and spirits remained high throughout the ups and downs of propagation. KL1AZ’s 12-year-old granddaughter, Dale, proved to be an incredible contester-in-the-making. She quickly learned the ropes of running and Search-and-Pounce with Win-Test. She may end up being better suited for CW and RTTY contests, though, because her high-energy requires a lot of stoking. A mouth full of sunflower seeds is incompatible with a phone contest.”* Maybe there are other Dales near your contest club? Why not offer them some chair time and be prepared for a surprise!



Dale Slater is 12 years old and took to contesting at KL2R like a snow goose to water. She’s being assisted by Carl, W7BDO. (Photo by KL7/N1TX)

But Wait, There's More!

Look on the ARRL Contest Results web page (www.arrl.org/contest-results-articles) for the following additional helpings of Contest Goodness:

- PDF files of Top Ten history and current records
- OH1VR's "Experience Both Dimensions"
- Soapbox comments from W/VE and DX logs

The Soapbox comments are great fun to read. Some are a simple "thanks, had fun" and others are detailed observations about the contest and the equipment used to participate. The ARRL Soapbox web pages (www.arrl.org/soapbox) contain more photos and stories, too. Even more Soapbox commentary is compiled by Dink, N7WA from the popular 3830 score posting website. (www.eskimo.com/~mwdink/3830/) Browsing through all of these comments, you can find yourself thinking, "Were all of these people in the same contest?"

Friends Working Friends

While that would be a good theme for any contest – especially one involving so many around this planet – I'll close the writeup with a good story from the Northwest Division's Regional Editor, Scott Tuthill, K7ZO. You may have logged him at YN5ZO during the contest. Scott and Jim, K7MK are both from Boise and part of the regular NK7U multi-op contesting team. During ARRL DX SSB, K7MK (left) was operating out in the desert because of antenna restrictions at home and had a good excuse to experiment with a Field Day-type setup. K7ZO (right) was visiting his son who lives in Nicaragua and decided to see what it was like to be on the DX side of things with a station he could fit in his luggage.



K7MK operating in SOU connected to the NC7J PacketCluster over a 3G network using his Galaxy Nexus phone. That allowed him to find YN5ZO's running frequency on 10 meters and make the QSO. 45 minutes after the QSO during operating breaks on both ends, K7MK and YN5ZO communicated live via Google Chat - an equally amazing modern contact. (Photos courtesy K7MK and K7ZO)

YN5ZO: "Where were you when you called me? I heard Portable"

K7MK: "South of Boise. Out in desert. Operating assisted using my phone."

And there you have it – we are connected in so many ways during the contest but still, the magic of radio wins the day. That's our compelling story as it has been for more than 100 years and will be in the future. Turn on your radio and listen to the world turning!

Waiting For the Sun

Next year – even with a slowing solar cycle predicted – should be even better, particularly on the high bands if Ol' Sol cooperates. Will the fabled 10 meter openings of yore return or remain a contesters' fantasy? Put the ARRL DX Phone contest on your refrigerator calendars for March 2nd and 3rd – I'll see you in the pileups!

73, Ward Silver NØAX

Regional Analysis

As I write each year, I believe that most of the participants whose calls do not appear in any of the "boxes" or leader lists compete against themselves and their local and regional peers. It is recognition among those peers that brings them back to the game again and again. That's why it's so important to have regional write-ups that look beyond the top scores, looking for an operator moving up in the standings, making the most of a modest station, or taking advantage of smart strategy.

In a DX contest spread across the world, the variations at smaller scales are often what hold our personal interest. It's definitely worth taking a minute to read the analysis for your region about the contest from your area.

Please welcome the following new editors this year:

Roanoke Division – Ryan Cairnes, K3XC

Rocky Mountain Division – Dan Norman, NØHF

Southwestern Division – Larry Weaver, N6TW

Europe – Bob Naumann, W5OV

Your regional editors are often limited by a lack of information about stations and operators. You can help them by uploading your contest stories to the ARRL Soapbox pages. Soapbox comments from your Cabrillo-formatted log are gleaned for them to use, too. Alternatively, contact the editor for your Division or Continent directly--they will appreciate it! Don't be shy about contributing photos and comments – we would love to see them, no matter what the capabilities of your station may be. Your fellow contesters are waiting!

Atlantic Division

By Chas Fulp, K3WW

One of the best places to work the ARRL DX Phone Contest from!

Atlantic Division activity held steady with 213 entries and a total of about 281 operators participating. Scores were down from last year but as is often the case, Atlantic Division participants did well in the overall standings.

This year the SOU-HP class returned to the top in popularity with 60 entrants. Chas K3WW led the division and was the overall winner thanks to Ray W2RE moving to the SO-HP class this year. Bill N3RR is making a strong come back with a close second place finish over Bud AA3B, Sig N3RS, and Carol N2MM. These were the top 5 in the division and top 5 in the overall results. Mike AB3CX, Morris N1IBM, Pat WB3FIZ, Moe N3ZA, Joe K3NM, Ed W3EKT and Steve K4IKM all joined the Million Point Club in the SOU-HP class.

The most popular class last year was the SOAB-LP, which dropped to second this year with 52 entrants. Tom W2TF was the division leader this year, and just made it into the overall Top Ten. He was followed by Mike KD3HN, Dean NW2K, Josef KB3OK and Bill KB3LIX.

The big gun SOAB-HP class had 30 entries this year. Ray W2RE led the division and all US phone operators this year. Steve W3BGN edged out Jon AA1K to reverse last year's finish. Both made the overall Top Ten as well. They were closely trailed by Fred K3ZO. Vitaly KB3WD also broke the million point barrier.

This year 26 operators entered the single band categories with SO-20 meters being the most popular with 10 entrants. Murray W3FW was number one on 20 in both the division and overall with a nice 259K score. SO-10 was next with 6 hopefuls led by Zeljko K2SSS who had 52K points, good for number 8 overall. We had 4 entrants in the SO-15 class, with Victor N2PP leading the division and number 6 overall. Three operators slugged it out on SO-160, with Manny W2MF repeating his division win by a wide margin and finishing number 2 overall. Two entrants braved SO-80 with Zbigniew KU1T piloting the K3HBX super station to finish ahead of Steve WA8UEG in a close race. Our single SO-40 entrant was Jim K3NK.

There were 21 SOU-LP entrants this year. Keith W3KB had a convincing first place finish over Alan N3ALN, Randy W2RDM, and Scott KN3A.

There were 9 entrants in the MS-HP class with team K9RS finishing first again with 3.4 million points followed by W3MF, K3MD, and N3BNA all with over a million points.

There were 6 MS-LP entrants. W2TZ was our leader with 653K, followed closely by the crew at W3ZGD.

Multi-Multi was won again by K3LR, followed by W3LPL for an overall and divisional repeat of last year's result. WE3C moved into the MM class and finished third in the division and overall as well. The Atlantic division continues its lock on the M/M class in this event.

Only 3 teams tried M2 this year and K2AX finished with a solid division win over WA3EKL and W2YC.

Paul N8HM was our only QRP entrant winning the division with 5 QSOs for 75 points.

Central Division

By Ralph Bellas, K9ZO

Good Results from the Black Hole – The 2012 ARRL DX Phone Contest from the Central Division

It was a year when nobody had to worry about travelling in a snowstorm to join a multi-op effort! The ground barely froze solid in my neck of the woods. There were no antennas destroyed by ice, and nobody had to walk through snowdrifts to make it to the shack. It was dull and dreary. What a perfect time for a contest!

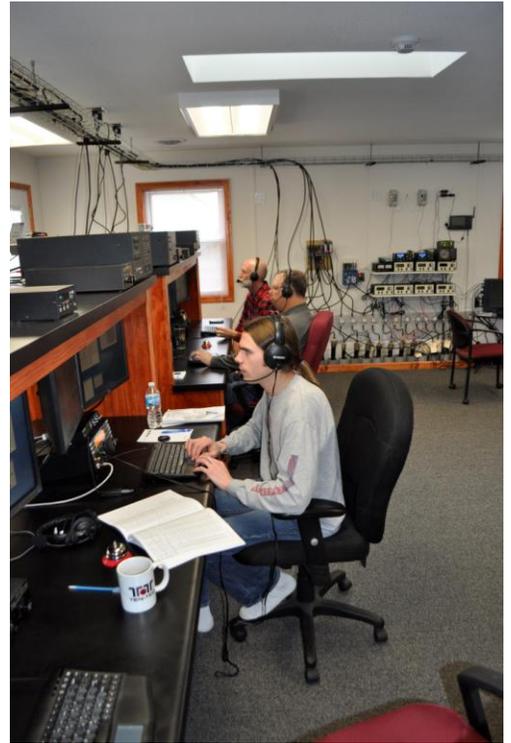
Multi-Multi

The crew at WØAIH consisting of VE3CX, K9MU, KØYR, KB9OWD, NM7X, KØTI, NRØT, OA4ABC, ACØW, KB9AZZ, WØBM, WØERP, and KØTG had an impressive score of 2.666 million points, finding 2102 contacts and 431 multipliers. Both their 160 and 10 meter band totals looked good, considering the conditions. This placed them at number 8 nationwide in the Multi-Multi category.

Multi-Two

I had the pleasure of operating from the new K9CT station in central Illinois with Craig, K9CT; Matt, KB9UWU; Chuck, KG9N; Mike, N7MB; and Zack, W9SZ. Some of the CW crew were too timid to speak in front of the calling masses and bowed out before the contest even started. There was plenty of chair time and lots of good multipliers to find.

Since the first contest about six months ago there have been successive antenna and station improvements. Even though the conditions did not sparkle, we managed 2275 QSOs and 436 multipliers for a score of 2.937 million. This was good for number 6 nationally. Ten meters even opened for a couple hours, and 15 yielded some juicy multipliers. This was the first ARRL DX Phone effort from the station and everything worked well. Technically it's easy to chase the multipliers because the antennas are so far from each other that you don't even know there is another transmitter. The rigs are interlocked and you can even chase multipliers on the same band as the running station. It was an enjoyable effort and we look forward to the next year with continued antenna tweaking and yet another set of antennas. We enjoyed companionship and hospitality with pizza and beverages at a local restaurant after the contest.



KB9UWU, N7MB, and station host K9CT. (Photo K9ZO)



Here's K9ZO searching for multipliers. (Photo KB9UWU)

Second place with 1.980 million points went to NØIJ who hosted AF9T, KØJJR, and NXØX. They did well on 10 and 20 meters and must have been totally exhausted at the end. There was plenty of seat time at that station!

Third place went to K9IU with 213,000 points. They had a good crew including K9SQL, KB9WRA, KC9EVU, KC9UUS, KC9VIM, KC5CFX, and N9VKU. Their effort was primarily on the HF bands.

N9KK, operated by K9WMS and K9PEG, placed fourth with 73,000 points. They operated 10, 15, and 20 meters only.

Multi-Single, High Power

KD9ST (with KA9SQR, KB9EXE, KC9PAT, WY9D) and WN9O (with W9IU) battled it out, but the southern advantage, more and undoubtedly fresh operators, and lower error rate gave the crew at KD9ST the edge by just 85,000 points.

Single-Band 10 Meters

K9BGL, Karl placed number 10 nationally, and there really were only a few hours of good openings for the entire weekend. Being in the southern part of the district seems to help. His low error rate was impressive compared to all operators. Those of who have operated with Karl know that he is a contest machine so it really is not fair to compete against him. Loud everywhere!



The 10 meter stack and VHF antennas on the rotating tower near the K9CT shack. (Photo KB9UWU)

KC9ULA noted that: *“I earned my Tech license last June and this is my second contest. I had fun! It sure made my trip on the road a lot quicker by operating 10 meter mobile even in spite of a March snowstorm! 73!”*

Single-Band 15 Meters

KE9I is in the country on a slight rise that can be seen for miles. It's quiet, too. Team that location with an excellent operator and you have a winning combination. He had an impressive QSO count with 645, and 90 multipliers.

N9TGR placed second with 366 QSOs and 95 multipliers. DXCC might just have been available. He needed a few more hours of openings during the weekend.

Single-Band 20 Meters

W9WJ had 220 contacts and 74 multipliers for a score of 48,840.

K9IDQ placed second with a score of 28,116 resulting from 147 contacts and 66 multipliers. He provided these comments:

“40dB Friday storm noise on 75m led me to work only 20M with a broken 2-el beam from earlier storms instead of 3 elements. AWESOME CONTEST, LOTS OF FUN with only 400 watts. Some DX blocked by music at 14.313.15 Band geo-shifts dropped ZL's & VK's before I could work them. CONTACTS: #65 EA4EER- #77 YT1A & #145 ER4DX - responded quickly, and moved swiftly.”

Single-Band 40 Meters

W9QL made 83 contacts and 42 multipliers for a score of 10,458. He said, *“I had some antenna challenges, as heavy wet snow kept changing the loading on my G5RV. Fortunately, my tuner kept up, but I do not think I was getting out as good as normal. I still managed to do a little better than last year and had fun. Thanks to all the DX stations who somehow managed to pull me out of the noise.”*

WO9S made 40 contacts and had 26 multipliers. Jon relayed the following: *“Submitting log as single band 40. Other bands for check log only.”*

Single-Band 80 Meters

WI9H placed number 9 nationally and had 45 contacts in 32 countries.

Single-Band 160 Meters

WD8DSB placed number 9 nationally. He had 147 QSOs and 7 multipliers.

Single-Op All Band QRP

AI9K had 108 contacts and 73 multipliers to take the QRP category.

Single-Op Unlimited High Power

K9NW doesn't leave many contacts on the table when he is done. Mike made 1238 contacts with an impressive 383 multipliers. Fifteen meters was the best band. There were 30 entries from the Central Division alone so this was a popular category.

Single-Op Unlimited Low Power

WE9R placed number 6 nationally. In doing so Lyle set a new record for the 9th District with 609,150 points. He has a good selection of antennas with a KT34 @80 feet, a 402BA @ 72 feet, an 80 meter loop, and a shunt fed tower for 160. This provided 784 contacts and 262 multipliers. He commented, *“What great fun - I learn something new about propagation in every contest!”*

NR9Q made 76 contacts and thought *“This was a great contest. First time I have worked it. Still new to radio and contesting. Was a lot of fun.”*

Single-Op All-Band Low Power

N4TZ was number four nationally, first in our area. He had 957 contacts and 348 multipliers. This guy really knows how to tune the band and dig out the multipliers!

KD9MS made 630 contacts and 262 multipliers for a nice second place.

KB9YGD made 140 comments and noted, *“TU all fb I dx ssb agn de yr es 73.”*

WB9LRK made 127 contacts and found 72 multipliers. He writes: *“Fun contest. Had a great time. Wish I could have done more.”*

Single-Op All-Band High Power

W9RE blasted away with 2434 contacts and 406 multipliers for a total of 2,951 million points. Fifteen meters alone was good for a fantastic 1013 contacts. Without a doubt, Mike was able to work weak Europeans which could not be heard further west. This might be a key strategy – to work out a marginal band that others in your general area cannot hear. These are points they will not be able to get, even if your rate is not as high as you

would like. Mike noted that *“Murphy hit me in several minor areas and disrupted my concentration! Very strange and interesting, nonetheless.”*

WB9FQS made 129 contacts and said, *“I only could put in a few hours on the air and was looking to contact and confirm some new DX especially on 10 and 15 meters. The pins are a nice little incentive for people to put in some time during the contest.”*

Club Competition

The SMC submitted 81 logs for 7th place in the Unlimited category.

Dakota Division

By Bill Lippert, ACØW

Mother Nature

What’s a contester to do when Mother Nature throws snow, ice, wind and low sun spots at you? What else, get on and operate a contest and leave the snow for later. Contesters in the hardy Dakota Division still got on to operate the contest while also cleaning up after Mother Nature and making antenna repairs. Dick NØIM estimates he had to move about 24” of snow throughout the weekend. When Dick did manage to get on Saturday he discovered high SWR on his 160 antenna as a result of damage from the weather. Others finding antenna issues due to the weather include NEØU losing his 80 meter antenna due to ice, KØVG losing his rotor, and the multi-op team of KØJA & KØJE reported losing their G5RV from a tree falling.

The award for most antenna problems in a weekend due to weather goes to Dave WØZF. Here is what Dave had to say about his weekend *“Spent part of Friday evening extricating the doublet from under some branches that crashed it to the ground in last week’s snow and ice. Got it back up but most of it no higher than 10 feet. Then the rotor froze up when it got down to about 20° F. It came alive for a while Saturday but stuck again in the afternoon.”*

Then others in the Dakota Division found other activities to pass away the time with the poor propagation. Jon WØZQ had this comment *“Nice thing about bad band conditions is that it lets you feel better about putting in a new bathroom fan.”* Bruce NØBK even managed to earn extra kitchen passes by installing an oven for the XYL during the weekend.

With the poor weather and propagation conditions participation by Dakota Division stations was down

roughly 15%. This was also noticeable in our scores. Here are some of the comments for Dakota Division stations concerning the conditions: *“Unfortunately the propagation didn’t show up. It was grueling trying to find stations to work”* KBØEO; *“This one was simply not much fun. Conditions turned it into 99% S&P effort”* KØAD; *“Conditions to most of Europe were pretty poor”* NEØU; and *“Conditions were really rough from here in the Upper Midwest. It really did seem like the Black Hole with 6’s working Europeans that I could barely hear”* NDØC,

Results

Despite the conditions and weather Randy still saw his score increase 25% over last year. How did Randy do this? I think his comments lend some insight *“I think I had fun – in a strange masochistic way. There’s always the perspective of “it will feel so good when the pain stops””*. Randy not only took the top SOAB-QRP spot in the Dakota Division he finished 7th overall in the category. He is the only Dakota Division station to make it into a national top ten box this year. Congratulations on the fine finish Randy.



Randy NDØC Wintery QTH (Photo NDØC)

This year only two Dakota Division stations made it into the Midwest Region Top Five box. The two stations are the top QRP stations in the area, Randy NDØC, finishing first, and Jim NØUR, finishing 4th.

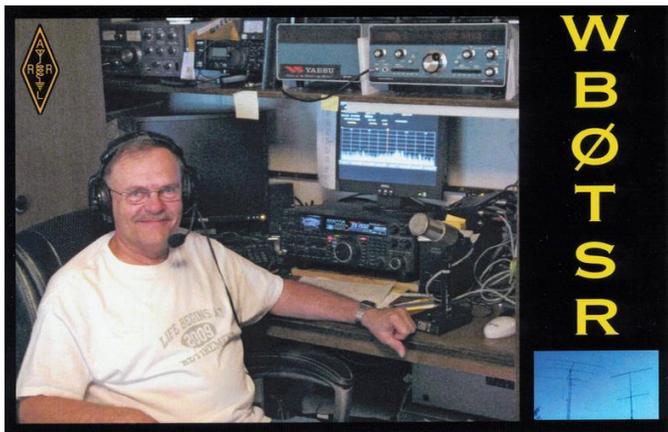
Dakota Division Stations in Midwest Region Top Five

Call	Category	Finish	Section	Score
NDØC	SOAB-QRP	1	MN	191,494
NØUR	SOAB-QRP	4	MN	24,768



Jim NØUR QTH (Photo NØUR)

While Minnesota stations were the majority of Dakota Division stations on the air, a few North and South Dakota stations did make it on during the weekend. Dave WBØTSR managed to return the SOAB-LP category title to South Dakota this year. This is now three out of the last four years for Dave to win this category in the Dakota Division. He is also the only station outside of Minnesota to win a Dakota Division title this year.



Dave WBØTSR SOAB LP Dakota Division Winner
(Photo WBØTSR)

Dakota Division Operators Outside the Region

We continue to have Dakota Division operators travel to other areas to operate the ARRL DX SSB contest. Some go to warmer climates to escape the snow. Others travel to multi-op stations in nearby states. Traveling to VP5 territory is the crew of WØGJ, KØMD and WAØMHJ. They finished third in the DX Multi-Single High Power category after taking the top spot last year.

Dakota Division Winners

Call	Category	Section	Score
NEØU	SOAB-HP	MN	432,054
WBØTSR	SOAB-LP	SD	173,961
NDØC	SOAB-QRP	MN	191,484
KØKX	SOU-HP	MN	1,227,519
KØMPH	SOU-LP	MN	219,144
WØPI	SO-10	MN	7,533
NZ9Y	SO-20	MN	54,054
KØJE	MS-HP	MN	341,172

Section-Only Winners Dakota Division

Call	Category	Section	Score
KØTT	SOAB-LP	MN	109,434
KTØA	SOU-LP	SD	17,955
N7IV	SO-20	ND	45,738

The other stations I know of include WØAIH and NØIJ both operating in Wisconsin. The team at WØAIH finished 8th overall in the Multi-Multi category this year. Looking at the US-VE Multi-Multi top ten box it is definitely noticeable how difficult things were in the black hole this for this contest. The 7th place station of W2PV score was about 80% larger than WØAIH score.

As I put the finishing touches on this article it is ironic that I am writing about a winter event while we are experiencing a heat wave with triple digit temperatures. Almost makes one wish for the colder temperatures to return. Hopefully things will be better for the 2013 event, both weather wise and propagation conditions and we will see some great scores again from the Dakota Division.

73, Bill ACØW

Delta Division

By Trent Fleming, N4DTF

NOT AVAILABLE THIS YEAR

Great Lakes Division

By Greg Surma, K8GL

Sunspots.....please call home!

The 2012 ARRL DX Phone contest is in the books. The hoped-for multiple hours of running stations on 10 meters never materialized. Old Man Sol had other plans over the weekend. Nevertheless, 15 meters and 20 meters were up to the task, and the low bands were not too bad either. W8TA found 20 meters to be "...open 24 hours a day...but very difficult over the poles". WD8S called 20 meter conditions "HOT HOT HOT". Depending on where you were and (probably) how much aluminum you had in the air determined your attitude about 15 meters. Hardware-endowed N8BJQ found 15 meters to be "...strange", with not one single Zone 16 in the log and more JA contacts than DL contacts.

Over 130 stations in the Great Lakes Division took the time to tally up their scores (and bruises!) and send in their logs, anchored by the 4 million point M2 effort of the Cleveland crew at K8AZ. Tom's team found 250 stations and 67 multipliers to work on 10 meters, a far cry from the 1000+ QSO efforts on the band that they enjoyed at the turn of the century. A salute to the crew for turning in the #4 W/VE score in the category.

Enthusiasm for the contest and individual triumphs are still what keeps us contesting. NA8V mentioned working RL3A and XP1A for new multipliers on 80 meters during the last hour of the contest as "Those 2 Q's (that) made the whole contest". Greg did well in his SOAB-LP effort by being #8 in the category in W/VE. To the south near Cinci John N8AA bested NA8V by an 8% margin and ended up #6 in W/VE. John mentioned having an adrenaline rush after snagging OA4SS on 80 meters on the first call.

Efforts of note in the Division include the 2nd place W/VE entry of ND8DX in his SO-80 operation, a performance that echoes Karl's fine efforts from years past. K8DJC found 74 multipliers to work in conjunction with his #4 finish as a SO-40 entrant. N8XA and KT8K turned in FB SOAB-QRP scores while W8MJ worked 1700 stations to bolster his #9 W/VE SOU-HP score.



W4HK (ex-N4NTQ) from KY battles it out! (Photo W4HK)

Contesting is not only about speed and endurance. Contesting is about accuracy. The following Great Lake operators in the 2012 ARRL DX Phone contest are commended because of <1% error rate in their logs: N8BJQ K8DJC ND8DX W8TM ND8L W8CAR K8MM N8OC K4FT KD8GOX K8BL NF8J K8TS NA8V W8ASA WB8MIW KE8FO W8FEM K4SPO KC8UNR N8GEO NF8M N8ZAK K8GL K2BET and K8ALM.



KD8MVI and KC8ODB on 20 at KC8IMB (Photo KC8IMB)

One of the more interesting crews to operate from the Great Lakes Division was the MS-HP crew at KC8IMB. "Team DXTech was out in full force" according to station owner Zack. A bit sobering was the fact that tornadoes had moved thru the area on Friday, resulting in some anxious moments in the storm shelter. Once the contest started their focus was on camaraderie and having a good time. Op KC8ODB opines "This year the contest was tough....the Mt Dew was warm....the gummy bears were hard....candy had sharp edges that irritated the

mouth. Eventually I switched over to a protein-enhanced candy (Read: Peanut M&M's) that gave me the energy to keep keying the microphone over and over again to get that next multiplier”.

Many of the contestants are looking forward to improvements for next year. AC8GX is already testing a 565 foot horizontal loop 60 feet in the air and plans to add a 40 foot tower. WA8Y is planning on adding a 3rd element to his 10 meter quad. NA8V wants more height on the higher bands and a louder European presence on 40. W4HK wants to Elmer a local friend and get him interested in contesting. N8RF mentions a need for extensive tower and tree trimming work.

The payoff for operating the contest for each of us is varied. W4HK list them as “...the beginning, the end, and my score”. AC8GX mentions the thrill of having stations call his 100 watt and wire antenna station as being the ultimate thrill. Whatever it is for you now is the time to plan for the 2013 Classic!

Hudson Division

By Ken Boasi, N2ZN

Another year and another great season of DX contesting is behind us, unfortunately! Even though solar conditions were down a bit from the previous highs seen during the CQ DX contests in November, there was still plenty of action for everyone to enjoy.

Within the Hudson Division, the upward trend in log submission continues; this year, 122 logs were submitted from the division, compared with 113 logs in 2011, 104 in 2010 and 97 in 2009. This may seem like a small increase, but it points to a hopefully continuing trend in all of contesting, in addition to just within the division.

As always, the Hudson Division is home to a number of Top Ten USA/VE finishers, and even one #1 USA/VE finisher. John, W2ID screamed his way to a #1 USA finish in the Single Op-QRP class! With only a modest setup of a quad at 45° and wires on the low bands, his full 40+ hour effort paid off with nearly 600 QSO's and a big win. “Many thanks to so many amazing ops who had the patience to pull me out through the QRM and QRN! Sure wish I had a voice keyer set up. I am sure I yelled my call sign at least 10,000 times over the 40+ hours. Really great condx the first day, and very weird condx the second day. Spent half the day rotating the beam around on 10m to try and figure out which direction the signals were coming from. Still had lots of fun though!” is what John posted to 3830 after the contest. Amazing

to see that he did it completely without a voice keyer of any kind...

In the Single Op, Single Band, 15 meter category, Peter, KU2M, finished #4 US, with over 1200 QSO's and 107 countries, good enough for #1 in the division and a DXCC award. Craig, WR2G, was #5 US in the Single Op, Single Band 20 meter category, and #1 within the division. Nearly 600 QSO's and over 80 countries got Craig into the top spot for the division. Also in the top 10 USA, in the #8 spot, was Charles, KC2NB, who managed 234 QSO's for 55k points to finish at #2 in the division.

The Unlimited category continues to grow each year, but a consistent entrant and successful operator over the years has been Gerry, W1GD, who was #6 USA in the Unlimited category with over 2 million points, and #1 division-wide. A bit of Gerry's story: “Propagation coupled with an awful cold made this a tough weekend. Almost quit several times. Low band noise from storms made the first night tough on the low bands. Of course, the inconvenience pales in comparison to the destruction and loss of life caused by the storms. I was constantly monitoring weather radar for the first 15 hours looking for T-storms springing up along the coast.” Congratulations, Gerry!

Peter, W2IRT, grabbed the #10 USA Unlimited position, which was good enough for #2 in the division. W2IRT, N2WKS, W2GDJ, KF2O, and N1EU all posted scores of over 1 million in the Unlimited category-all impressive efforts!

The W2MU team made the top 10 in the Multi-Single HP category, with a 1.8 million point effort from W2XL's great station. Finally, in the Multi-Two category, perennial division winners W2CG made another appearance this year and captured the plaque.

As with the past several years, there were no entries in the Multi-Multi category from within the division. Maybe next year? Hopefully next year!

Moving on to the division winners, (except for those categories listed above), it was a mix of familiar call signs that once again grabbed the top honors within the division. N2KPB was first in Single Op, Unlimited, Low Power; John had over 500k, and was followed by WA2MCR and KS2G.

Single Op, Low Power was won by Bob, WA2JQK from ENY, who finished with 422k; he was followed by David, K2DBK and Al, WB2ATZ.

The Single Op, High Power division winner was Saul, K2XA, who had an excellent score from his well equipped station near Albany with over 2 million points and 2000 QSO's. Most of Saul's QSO totals came from 20 and 15 meters, thus proving that even though conditions were good enough to support decent runs on 15, there was little joy to be had on 10 meters. Coming in second in the division was another familiar face, Dave, KM2O, who had over 700k in another fine effort.

A subject not often talked about too much, but which is very important to contest success, is the idea of error rate; that is, how accurate are you? It is known that the very best operators can maintain high rates and still maintain a low error rate. Of course, everyone wants to keep as many QSO's in the log as possible, but not everyone can always do that. Therefore, it is a special acknowledgement of the following stations that had 1% or less error rate:

AG2T, KC2JRQ, W2WGG, AA2U, W2JEK, WF2B, KJ4IC, WB2TPS, W2MRD, KG2AF, KJ2P, N2MUN, WB2ATZ, W2ID, WA2LXE, K2DBK, N2JJ, N2WKS, N2SQW, W2LE, WA2NLL, K2BBQ, W2IRT, N1EU, K2EP, N2MTG, W1GD, K2XA, and KC2KZJ.

You'll notice that many of the Top Ten USA and top Division finishers listed above also appear in the list of those with accurate logs. That is no accident! These fine operators prove that this one piece of operator skill is very important.

The Club competition continues to grow each year, and this year, the Yankee Clipper Contest Club ended up #1 in the Unlimited category, winning by a large margin over the #2 Frankfort Radio Club. In the Medium category competition, the Hudson Valley Contesters and DXers placed #2 with 43, entries, while the Order of Boiled Owls placed 15th in the Medium Club category, with 14 entries.

Well, with another year behind us, the number of logs growing, and some great scores posted once again, it is time to look forward to 2013. Will this finally be the year of great high band propagation and broken records in the single band 10 meter categories? We can only wait and see!

Midwest Division

By Toni Radebaugh, NØNI

I am typically part of a multi-op team, and that may be why I like to look at the entries from the 4 states in the Midwest Division like one big multi-op team and

compare our scores to prior years and see how we stacked up.

Once again activity was up this year. We had more than double the entrants from 2011. Missouri continues to turn in more logs with more entries than all 4 states combined in 2011. Even though the Midwest Division had 2 times as many scores turned in, the combined QSOs, mults and overall score was down from 2011. Total QSOs were only down by 120 from 2011. Multipliers were down by a whopping 887. Total score for 2011 was 10.2 million and this year we had 8.5 million. Multipliers are very important!

The table below shows our total QSOs by band when all entrants in our Division are added up.

Rank	Band	QSOs
1	15	6170
2	20	4463
3	10	2908
4	40	1550
6	160	49

Entry categories listed in order of popularity:

- Single Operator All Band Low Power - 30 entries
- Single Operator All Band High Power - 14 entries
- Single Operator Unlimited High Power - 14 entries
- Single Operator Single Band 10 - 4 entries
- Single Operator Unlimited Low Power - 3 entries
- Single Operator Single Band 15 - 3 entries
- Single Operator Single Band 80 - 1 entry
- Single Operator All Band QRP - 1 entry
- Multi-op 2 Transmitter - 1 entry
- Multi Single - None
- Multi-Multi - None
- Single Operator Single Band 40 - None
- Single Operator Single Band 160 - None

Division Leaders

Call	Category	Score	State
KU1CW	SOAB High	2,107,092	Iowa
NR9A	SOAB Low	341,925	Missouri
KCØDEB	SOU Low	150,075	Kansas
NCØO	SOU High	540,804	Iowa
KØOU	SOAB QRP	53,295	Missouri
KØKT	SO-80	5,328	Iowa
WØPPF	SO-20	13,200	Iowa
WØHBH	SO-15	39,537	Missouri
WAØFQK	SO-10	8,610	Missouri
NØMA	Multi-2	979,506	Iowa

Single Operator All Band Low Power Top 10 Scores

NR9A Jody earned 1st place in the Division as well as the Midwest Region. Jody also had the highest 10 meter multiplier total of any Division entry with 45.

Call	Score	QSOs	Mults	State
NR9A	340,925	491	235	Missouri
KYØK	239,259	466	173	Nebraska
KØBJ	163,989	400	137	Kansas
WBØLJK	97,812	231	143	Iowa
W9GHX	89,244	222	148	Missouri
KØVM	69,768	238	102	Iowa
KDØZZ	54,430	201	99	Missouri
KOØZ	48,960	163	102	Missouri
KIØI	37,152	145	86	Missouri
NØHTV	36,975	146	85	Nebraska

Single Operator All Band High Power Top 10 Scores

KU1CW Alex traveled to Iowa and operated station NØNI to win his class in the division as well as the Midwest Region. Alex's best band was 15 meters where he had a division leading 800 QSOs.

Call	Score	QSOs	Mults	State
KU1CW	2,107,092	2095	338	Iowa
WAØN	189,420	410	164	Kansas
KØDEQ	177,480	415	145	Missouri
NØUU	155,064	368	142	Kansas
WMØL	151,536	340	154	Nebraska
KIØHQ	113,652	291	132	Missouri
WØBH	71,928	224	108	Kansas
KIØHA	69,750	187	125	Missouri
KØARY	37,905	139	95	Missouri
NYØT	34,875	125	93	Kansas

Single Operator Unlimited High Power Top 10 Scores

NCØO Tom in Iowa had the 2nd highest 10 meter QSO total in the Division, which helped him get 1st place. KØVXU Russ landed 2nd place, and Russ had the highest 160 meter point total.

Call	Score	QSOs	Mults	State
NCØO	540,804	760	241	Iowa
KØVXU	495,312	612	272	Kansas
KUØG	461,472	623	253	Missouri
KDØFW	322,392	420	266	Missouri
WDØECO	213,120	386	185	Missouri
WØTT	157,356	281	188	Missouri
KØJPL	153,111	319	161	Missouri
KØAP	147,063	331	149	Kansas
KØHYD	95,700	233	145	Kansas
WØCEM	60,492	292	71	Kansas

Single Operator Unlimited Low Power

KCØDEB John made most of his points on 15 Meters and earned 1st place using a tribander mounted at 20 feet.

Call	Score	QSOs	Mults	State
KCØDEB	150,075	345	145	Kansas
NØAX	6,090	74	29	Missouri
NØSO	726	23	11	Missouri

Single Operator Single Band 10 meters

In 2011 all 4 states were represented. This year every entry was from Missouri with WAØFQK taking top spot.

Call	Score	QSOs	Mults	State
WAØFQK	8,610	82	35	Missouri
KFØIQ	3,750	53	25	Missouri
KB9SDX	1,530	30	17	Missouri
KDØLOS	12	2	2	Missouri

Single Operator Single Band 15 Meters

WØHBH won 15 meters, edging out ADØH and KAØP.

Call	Score	QSOs	Mults	State
WØHBH	39,537	193	69	Missouri
ADØH	26,196	151	59	Iowa
KAØP	216	9	8	Missouri

Single Operator Single Band 20 Meters

Iowa's WØPPF came out with the top spot over a close race with WDØGQA and AEØAR - both from Kansas.

Call	Score	QSOs	Mults	State
WØPPF	13,200	88	50	Iowa
WDØGQA	1,140	20	20	Kansas
AEØAR	768	18	16	Kansas

Single Operator Single Band 80 Meters

KØKT Bill in Iowa submitted an 80 meter entry that earned him 1st place in the Region and 7th in the U.S.

Single Operator All Band QRP

KØOU (Missouri) was the only entry just missing the 100 mult mark. Steve was also top Midwest QRP score.

Multi Operators

There was only 1 entry this year - the Multi-2 team of NØMA operating from the Radio Farm in Iowa. The gang had an almost identical score to their 2011 entry, coming up just shy of 1 million points. NØMA also led the Division in 15 meter multipliers with 96.

Golden Logs

These stations had no logging errors: KB9SDX Chris, KDØLOS Joe, WBØM Jeff, NØAXZ Bill, KDØPIO Jeff, NQØI Bob, and KBØL Bernard.

Congratulations fellows, keep up the good work!

New England Division

By Joe Fitzgerald, KM1P

NOT AVAILABLE THIS YEAR

Northwestern Division

By Scott Tuthill, K7ZO

After authoring the Northwestern Division summary in 2011 Ward, NØAX, naturally asked me to do it again this year. Though I was actually in Nicaragua for the contest operating as YN5ZO I figured I could put something together. So, here goes.

(As a note I do know that for the ARRL DX contests stations in KL7 are actually considered DX and thus their scoring is based on a set of multipliers completely different than the rest of the Division. It is not accurate to directly compare scores in KL7 to other Northwestern Division stations outside of KL7 but for purposes of this article I have lumped all scores together.)

Participation

Participation this year in the Northwestern Division was modestly up from 2011 after the big jump in 2011 over 2010. Improved propagation is continuing to bring people out to the bands. Makes all the sense in the world to me. In 2012 a total of 125 Northwestern Division hams submitted logs for ARRL DX Phone whereas last year the total was 119, a 5% increase. Notable were Idaho with a 25% increase and Western Washington with a 30% increase. Western Washington is easily the most active section in the Division with the number of logs submitted now more than double what they turned in during 2010! Once again in 2012 the Puyallup hamfest was not the same weekend as ARRL DX Phone and that could explain the continuing increase from WWA. Let's hope this can continue into 2013.

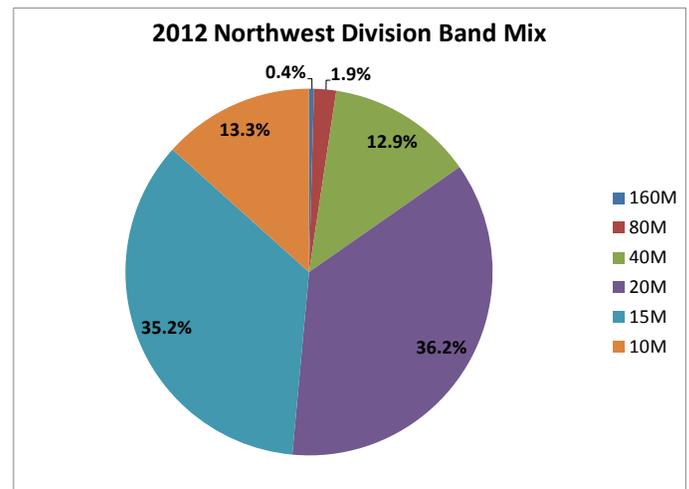
Section Activity

AK	EWA	ID	MT	OR	WWA	Total
# of logs 2012						
8	20	15	8	27	47	125
# of logs 2011						
10	18	12	10	33	36	119
# of logs 2010						
7	14	12	10	33	23	99
% change 2011 to 2012						
-20%	11%	25%	-20%	-18%	30% !	5%

Band Activity and Soapbox

If you remember 2011 was the year the high bands returned. In 2011 53% of QSOs in Northwestern Division logs came from the 10 and 15 meter bands, up

from 23% in 2010. Propagation and band activity in the Northwestern Division in 2012 was very similar to that in 2011 despite the impact of the solar flares over the weekend. The traditional high bands of 10 to 20 meters generated 85% of our QSOs, exactly the same as in 2011. What did see a big change in 2012 was the total number of QSOs in the submitted logs. Northwestern Division logs contained 41,684 QSOs, up 26% from 2011. Even accounting for the 5% increase in logs submitted this means the average division log size increased almost 20% from 2011 to around 333 QSOs. That sounds like a fun and busy weekend was had by all. Now we knew what to expect from the bands we spent more time and effort putting QSOs in the log.



Notable comments from satisfied Division operators included:

- N9RV - *As bad as things could have been, I will take the propagation we had this weekend. I had a lot of fun. It is fun to be a multiplier, even if you are the last to get through on the pileups.*
- K7RL -- *10m was better than I expected with good signals from many 50 and 100 watt JA stations. Sunday afternoon I asked an HL station to QSY from 15m to 10m, and he told me there was no propagation, but I convinced him to try anyway. Turns out he was just as loud on 10m and we easily made the QSO, which I think surprised him. That lead me to believe participation on 10m may have suffered from a low SFI image problem!*
- W7IV -- *This year, contrary to many others' reports, we set off on a furious (for us) pace. At the 24 hour mark we surpassed last year's entire Q count.*
- K7ZS -- *I think conditions were better last year, first time 20 meters has been the 'money band' here for a while - are we on the slippery slope of the Cycle 24 decline?*

- *KG7H -- 15 meters gave me the usual pipeline to JA for my qso volume, boosted by the occasional rare one that replied under the JA's.*
- *K9JF -- This was my first experience with a Low Power Entry in ANY DX contest so I did not know what to expect. I learned that the station performs in an awesome manner! Runs on both 15 to Asia and on 20 to Europe were beyond belief from the Pacific Northwestern, especially with 150 watts. My ACOM's were jealous as they were not involved in this effort!!!*
- *W7WA -- Earlier in the year I had hoped to operate single band 15 or 20, but alas the solar flux headed the wrong direction. (Good thing for that. Dan certainly made lemonade out of the lemons by placing top W/VE score in the Single-Operator 40 meter category! -- de K7ZO)*
- *K7HNB -- Prop just OK, not as good as CW. I guess two M-Class flares can cause just enough disruption so we had no EU on 15 and 10. I did enjoy the test even if it required the use of a microphone.*

Division Scoring

With the continued good High Band propagation and increased log sizes from the Northwestern Division how did our scoring play out? And, how well did we do relative the rest of the W/VE Divisions? In other words, did we show folks how competitive we can be! Let's look at the division high scores in a few of the more popular categories and compare them to the top W/VE scores.

Division Scoring compared to W/VE Overall

2011 Top Score	2012 Top Score	Division W/VE	
		2011 to 2012	2011 to 2012
1,132,462 (K7RL)	2,966,301 (N9RV)	162%	-15%
634,368 (N7ZG)	815,298 (K9JF)	28%	-19%
914,904 (N7TT)	997,038 (KG7H)	9%	-25%
2,878,722 (NK7U)	1,229,256 (K7ZS)	-57%	-32%
1,754,964 (W7IV)	2,646,900 (W7IV)	51%	-56%

What is interesting is that in each of these categories the top W/VE score in 2012 dropped from 2011 and in three of the cases by more than 25%!

Meanwhile out in our neck of the woods in every category but Multi-Single High Power we increased our top score over 2011 and in three cases by more than 25%. It seems like we were able to take advantage of conditions more than others, put in the effort, and have it turn into increases in the bottom line. A "Well done" to the operators in the division.

Another look at the data shows that we had 38 stations in the division who operated the contest in the same

category in 2012 and 2011. Of these 38 stations, 23 increased their score over 2011. The ones that had an increase did so by an average of 129% meaning more than a doubling of their 2011 score. That's a great showing! Standouts in this area were: K7RL with a 150% increase, K6UM with a 273% increase, W8BFX with a 317% increase, N6LB with a 568% increase, and amazing K7JKM with a 712% increase over 2011.

Multioperator Results

Multioperator is never a large category in the Northwest. Though we certainly have the space out in this neck of the woods to put up big stations it is often hard to assemble enough operators to pull off a well staffed operation. This year reported participation was down quite a bit from last year with only five multioperator logs submitted. Stalwart NK7U and K7ZSD were off the air and KL7RA had a single op effort. W7IV made a great showing, increased their score over 2011, and was the top M2 score in the region and also managed a 9th Place W/VE finish! They also had one of only three single band DXCC efforts in the division with 103 countries on 20 meters. K7ZS finished on top of the three MS-HP in the division.

Multioperator Scoring

Call	Score	QSOs	Mults	Category	Section
W7IV	2,646,900	2,576	346	M2	WWA
<i>9th Place W/VE! 51% Score increase over 2011</i>					
K7ZS	1,229,256	1,650	252	MS - HP	OR

Single-Operator High Power Results

SOAB-HP was a battle royal in 2012 between division heavyweights K7RL and N9RV. In the end Pat, N9RV ended up on top by just a couple of percentage points over Mitch, K7RL. Pat also placed 7th W/VE and gave W7EJ's 2002 W7 record of 3.2M a scare. I am sure with just a little better 10 meter conditions Pat would have set the mark. Will 2013 prove to be the year when this record falls? Who wants to fight for it? Who will be the one to break it? More fun ahead!

SOAB-HP Scoring

Call	Score	QSOs	Mults	Category	Section
N9RV	2,966,301	2,832	351	SOAB-HP	MT
<i>7th Place W/VE! 162% increase over K7RL's top SOAB-HP 2011 score. 102 Countries on 20 meters.</i>					
K7RL	2,834,895	2,769	343	SOAB-HP	WWA
<i>150% increase over his 2011 score. 105 countries on 20 meters.</i>					
KL7RA (AL7IF, op)	1,405,890	2,310	205	SOAB-HP	KL7
NC7M	843,453	1,171	243	SOAB-HP	OR
WL7E	541,002	1,184	154	SOAB-HP	KL7

Single-Operator Low Power Results

SOAB-LP is the Division's most popular category with 42 total entries. This year none other than Jim K9JF our division Director came out on top with a score that was also good enough for 5th place W/VE and second highest score west of the Mississippi River. Good job Jim. He also easily outdistanced his nearest division competition. Special mention goes to the following SOAB-LP operations who more than doubled their scores over 2011: N7VEA, K6UM, W8BFX, and K7JKM.

SOAB-LP Scoring

Call	Score	QSOs	Mults	Category	Section
K9JF	815,298	1,132	242	SOAB-LP	WWA

5th Place W/VE! 28% increase over N7ZG's top SOAB-LP 2011 score.

W7TSQ	174,660	419	142	SOAB-LP	WWA
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Matches his 2011 score.

KE7NO	133,764	318	142	SOAB-LP	MT
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11% increase over his 2011 score.

W7SO	128,097	337	129	SOAB-LP	OR
K7MCX	114,615	291	135	SOAB-LP	WWA

Single-Operator QRP Results

We had three SOAB-QRP entries this year vs. two last year. W7YAQ took Division honors with a pretty respectable score. N6LB's performance is very notable in his huge increase in score over 2011. Great job.

SOAB - QRP Scoring

Call	Score	QSOs	Mults	Category	Section
W7YAQ	66,150	212	105	SOAB-QRP	OR
N6LB	19,824	126	56	SOAB-QRP	WWA

568% increase over his 2011 score!

NA7EM	3,120	42	26	SOAB-QRP	ID
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Single-Operator Unlimited Results

For the second year this category has both high and low power versions. It is a fairly popular one in the Division with 29 total entries in 2012. KG7H came out on top of the High Power entrants for Idaho's only section win. KB7KYK came out on top on the Low Power entrants.

Table 7 – SOU-HP and SOU-LP Scoring

Call	Score	QSOs	Mults	Category	Section
KG7H	997,038	1,161	287	SOU-HP	ID
W6AEA	545,157	999	183	SOU-HP	EWA

121% increase over his 2011 score.

N7TT	421,176	651	218	SOU-HP	WWA
AL9A	308,448	871	119	SOU-HP	KL7
K7VI	251,409	467	181	SOU-HP	WWA
KB7KYK	84,810	263	110	SOU-LP	WWA
WA7DUH	53,766	183	103	SOU-LP	EWA
KK7X	34,602	162	73	SOU-LP	ID
AL7L	28,518	195	49	SOU-LP	KL7
W7PSK	14,175	75	63	SOU-LP	WWA

Single-Operator Single Band Results

2012 ARRL International DX Phone Contest Results

These categories always attract a number of operators. Either they have a favorite band, they have limited operating time or they only have antennas for a band or two in the air. In 2012 there were 16 single band entrants in the division. The big news for 2012 was Dan W7WA's SO-40 effort. He not only placed first in the Division but placed first overall W/VE and set a new all-time W/VE record in the process! Great job by Dan with a category win for the division. Also, if his score was not amazing enough he also had a zero error rate in his log -- 965 QSOs on 40 meters and not a single bad QSO. There is a standard we should strive to meet. Oh yeah -- W7WA also now owns the all time W7 Single Band records on 15, 20, and 40 meters.

W7BJN improved his 2011 score in SO-10 by 25% and came out on top in the division. WA7LT and K7AWB powered to wins in SO-15 and SO-20 respectively. K7AWB did well enough to place 4th W/VE in the SO-20 category and was only 30 points short of 3rd place. Another great division effort. We didn't have anyone report a score for SO-80 or SO-160.

Single Band Scoring

Call	Score	QSOs	Mults	Category	Section
W7BJN	30,774	226	46	SO-10	WWA

25% increase over 2011 score.

N7BK	16,188	143	38	SO-10	WWA
WA7LT	148,740	677	74	SO-15	EWA
K6RN	25,080	152	55	SO-15	OR
K7AWB	153,090	581	90	SO-20	EWA

4th Place W/VE!

K7ABV	28,161	150	63	SO-20	MT
W7WA	283,710	965	98	SO-40	WWA

1st Place and all time W/VE record!

KI7BP	1,566	31	18	SO-40	ID
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Logging Accuracy

The ARRL now provides the Regional editors with an Error Rate % for each log submitted. This is the number of contacts that log checking found to be "bad" divided by the number of contacts with all duplicates removed. "Bad" contact means a NIL (not in log), BUST (bad call), or miscopied exchange. A perfect or "Golden" log would have a zero error rate. The overall average for the Division is about 2.7%. As you review your personal results you can compare your Error Rate % to this average. If you are already lower than that well done. And, if you want to strive for true excellence these operators obtained the magic zero error rate in 2012 -- the number of QSOs they made is noted after their call sign. W7WA(965), W8BFX(264), K6UM(201), W7KNX(115), KB7QFE(113), KK7VL(94), W7ZRC(72), NE7D(54), K7EIQ(44), AF7O(20), KF7KXV(15), KC7H(12), AF7DX(8) and N7PGN(6).

See it can be done. How about that W7WA! A perfect log with 965 QSOs on 40 meters no less!

2012 Summary and Looking Ahead

Northwestern Division participation and scores were well up in 2012 over 2011. Unlike the top W/VE scores we had generally better scores in 2012 versus 2011. We placed five scores in the W/VE Top 10. One more than we did in 2011. We even had one overall W/VE category winner thanks to W7WA's SO-40 performance which also set an all time W/VE record. Hopefully high band conditions will remain for at least one more year and 2013 will be another strong year. It could be the year for you to set your personal record, a win the division or set a division record, or place in a Top 10 box. So, let's plan on getting out next year, recruit some more ops to contesting, and make a good showing.

Pacific Division

By Mark Schreier, K6OWL

With propagation seemingly on the upswing, there was also an increase in the number of entries from the Pacific Division this year: 103 compared to 96 participants last year. While this was fewer than the 116 log entries in 2010, a year in which apparent optimism over improved propagation peaked, it compares favorably to the 84 entries in 2009 and the 66 log submissions in 2008. The trend is positive and the increase in scores suggests participation will continue on the upswing as if in rough correlation to the solar flux numbers. After the contest, Pacific Division participants felt the sunspot numbers in 2012 were about the same as 2011 but the A and K indexes were higher; they logged more QSOs but fewer multipliers.

For example, Bob K6XX, the Single Operator High Power winner in the Pacific Division, reported his best QSO total ever, but with relatively few multipliers. On a positive note, he posted his best score ever, 1.7 million. The big story at Bob's QTH was the great lack of EU contacts, especially disappointing compared to the CW weekend or the prior year's phone event. A bright spot for Bob was the decent JA activity, with 1150 (55%) of his contacts coming from Japan. Bob found the rate "good to great" for the first several hours but tore himself away from a consistent run on 15m to try, unsuccessfully, to pick up the coveted EU multipliers on 40m before their sunrise. He felt that effort failed miserably, with only the non-auroral islands worked. He found the lower bands especially discouraging.

Jack K3FIV agreed that EU contacts at his 100 watt, wire-antenna, station were few, with SA, AS and the Caribbean predominating in his contest log. Jack found a recipe for success by staying on the higher bands after local sunset as the crowds left in their quests for low band DX. He suggests this formula as a potential strategy for "little pistol" stations who have difficulty cutting through the QRM of crowded high bands during the day.

Club Competition Results

Entries from members of the Northern California Contest Club ("NCCC") predominate in the Pacific Division. Ten contestants during the phone weekend indicated they were members of the Mother Lode DX/Contest Club. The Oakland Radio Communications Association was ably represented single handedly by Bob KE6IUE.

On a combined basis (CW and Phone), NCCC members scored about 60 million points, an increase of over 27 percent from last year; despite this increase, the NCCC slipped a notch to fifth place nationwide in the unlimited category, erasing the one-step gain achieved in 2011. In the medium club category, the Mother Lode DX/Contest Club tallied 4.3 million points to place twenty-first in its class.

The Winners



Bob K6XX at his operating position in Santa Cruz, circa 2010. (Photo by KJ6GKF)

Bob K6XX (operating from his Santa Cruz super-station in the Santa Clara Valley Section) took top honors in the Pacific Division Single-Operator High Power category. Bob is one of the leading testers in the Pacific Division and is no stranger to the winner's circle or the top scorer boxes. In this year's effort, he clocked nearly forty solo hours and shouted out more than 1,700 CQs in his winning effort. He also placed fourth in the West Coast Region.

Alan K7ACZ of the Nevada Section retained his crown in the Single-Op Low Power category, the most popular category among this year's entries. He has placed in the top five consistently for many years. His score also received fifth place honors for the West Coast Region.



The Coveted QSL from SOAB-LP Winner Alan K7ACZ (Image by K7ACZ)

Danny AE9F from Santa Clara Valley won the QRP crown this year. Danny is a versatile operator who has entered contests in a wide variety of categories over the years. His score was enough to earn fifth place in the West Coast Region.

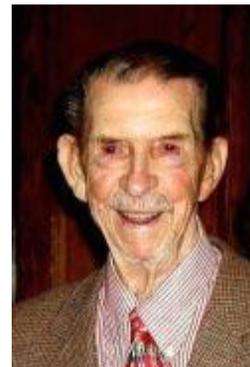
The Single-Operator Unlimited High Power category was won by Norm N6JV of the Sacramento Valley section. Norm is an accomplished DXer who maintains a web site about his activities at n6jv.com.



Part of the famous vacuum tube collection of SOU-HP champ, Norm N6JV (photo N6JV)

The Single-Operator Unlimited, Low Power category was won by Richard K6MMU also from the Sacramento Valley. According to QRZ.com, he operates from the Sierra Nevada foothills where he makes Zinfandel when he's not fermenting QSOs.

Bud Bane, W6WB, SK, whose call was activated in the contest by the Wireless Contesters Club. (Photo courtesy of Northern California DX Club)



The operators at W6WB repeated their win in the Multi-Two category from the East Bay Section. They also placed third nationwide, moving up two steps. W6WB was the call sign of Clayton "Bud" Bane who was a well known contester and friend of many in the San Francisco Bay Area amateur radio community. The Wireless Contesters Club puts Bud's call sign on the air from time-to-time to celebrate his memory. Six well known hams (JK3GAD, GØCKV, OH1VR, AD6E, KX7M, W6NV) have come together on an annual basis to participate in this contest. Seppo, OH1VR reports that the group is growing as a team and their varied skills combine to make the best of the new tools available to Amateur Radio contesters.

K6MMM (operated by Rich KE1B and Anna W6NN) from Santa Clara Valley was the Pacific Division's winner in the multi-single high-power category. W6YX, the Stanford University Station (operated by Mark K6UFO, Mike N7MH, and Clayton NF1R), also from Santa Clara Valley, won the multi-single low-power category. The W6YX team placed third nationwide.



K6MMM is the contest call sign of the "Monkey Lover's Radio Consortium" which consists of KE1B, W6NN, N6BHT, and N6FIT and which is associated with the Northern California Contest Club, which is why the monkey in the photo is wearing an NCCC hat. [Photo by KE1B, Top Banana for K6MMM]

Among the single band operators, the following participants led their categories: W7RN (Tom K5RC operating) (ten meters) from the Nevada Section (also placing seventh nationwide), Bob N2NS (fifteen meters) from the San Joaquin Valley, Ken K6HNZ (twenty meters) in Santa Clara Valley (also second place nationwide), and Richard W6RKC (forty meters)

repeated in this class from Sacramento Valley (also ninth place nationwide).



The main operating position of SO-10 winner W7RN. (Photo K5RC)

Single Operator High Power

As noted at the start of this report, Bob K6XX in the Santa Clara Valley Section took top honors in the Pacific Division, far outdistancing the crowd with 1,700,460 points (2,034 Qs and 282 multipliers). Rich WC6H, reporting from the San Joaquin Valley Section, came in second with 422 Qs, 228 multipliers, and a score of 283,860 points. Jim K6JAT, from the East Bay Section, finished third in the category (438 Qs, 184 multipliers, 238,464 points). N6TV (154,656), WU6W (131,703), K9JDV (99,705), N7LD (90,630), WT6H (65,751) and W6FA (49,410) rounded out the Pacific Division's top ten list in the SOAB-HP category.

Single Operator Low Power

Alan K7ACZ from the Nevada Section again won the low power competition in the Pacific Division with a score of 280,350 (447 Qs and 210 multipliers). Alan's outstanding 0.4 error rate contributed significantly to his earning the top spot in a tight three-way race in this category. Don K6GHA from Santa Clara Valley made a huge leap over last year's results to come in second with 513 Qs and 181 multipliers for a score of 273,129. Past winner Shirl AA6K from the San Joaquin Valley Section also improved on his score from last year to take third place with 479 Qs, 187 multipliers, and a score of 265,914. The remainder of the top ten of the SOAB-LP class consisted of W6RFF (139,200), W6KAP (138,204), N6ORB (105,621), K3FIV (102,630), K7XE (97,965), KC7DB (64,071), and KQ6X (57,720).

Single Operator QRP

Two operators from the Santa Clara Valley Section in the Pacific Division submitted SOAB-QRP entries this year. Danny AE9F completed 85 contacts with 34 multipliers

for a winning score of 8,568. Tom WD6DX reported 27 contacts, 14 multipliers, and a score of 1,092.

Single Operator Single Band

Twelve single band entries were submitted from the Pacific Division, five fewer than last year. Three of these entries appeared in the nationwide top ten boxes this year, the same as last year.

On ten meters, W7RN (operated by Tom K5RC) (59,472 points, 359 Qs and 56 multipliers.) of the Nevada Section, Tim NU6S (33,813 points, 226 Qs, and 51 multipliers) of Santa Clara Valley, and Reyna KJ6QAY (252 points, 12 Qs and 7 multipliers) from Santa Clara Valley entered single band entries. Tom's score was also good for seventh place nationwide.



The N2NS tower in Prather, California (Photo N2NS)

On fifteen meters, there were six entries. Bob N2NS, operating from the San Joaquin Valley, completed 156 Qs with 48 multipliers for a top score of 21,888. James N6BHX reported a score of 3,618 (68 Qs and 18 multipliers) from the East Bay to finish second. Third place went to John W6FCS from the San Francisco Section with 36 Qs, 26 multipliers, and 2,730 points. Rounding out the fifteen meter single band entries were AE6YB (2,565), NJ6G (2,418), and KK6L (1,215).

There were two entries on twenty meters this year. Ken K6HNZ, of the Santa Clara Valley Section, roared back to win the SO-20 category again and place second nationwide, reporting 588 Qs, 88 multipliers, and a score of 154,704. Runner-up was Ryan KJ6MSG of the San Joaquin Valley with a score of 462 composed of 14 Qs and 11 multipliers.

We had one forty meter single band entry this year. Richard W6RKC completed 113 contacts from Sacramento Valley with 38 multipliers for a score of 12,882. This score was also good for ninth place nationwide.

There were no single band entries this year for 80 or 160 meters.

Single Operator Unlimited High Power

Norm N6JV from Sacramento Valley (846,153 points, 1,103 Qs, and 259 multipliers), last year's second place finisher, led the SOU-HP category this year with a score more than 30% higher than his entry last year in the combined packet category. Richard W6SR, also from Sacramento Valley, took second place (425,565 points, 590 Qs and 245 multipliers). Tim K7XC, from Nevada (290,667, 382 Qs, and 257 multipliers) placed third. K6RIM (277,296), W5DQ (204,417), W6NF (166,704), K7LV (108,093), W6DPD (49,932), K6III (48,195), and W6SZN (45,144) rounded out the top ten among the Pacific Division high power packet users.

Single Operator Unlimited Low Power

Richard K6MMU from the Sacramento Valley Section won the SOU-LP category with a score of 79,242 (292 Qs and 94 multipliers). Steve K6AAB from the San Joaquin Valley Section repeated in second place with 192 Qs, 118 multipliers, and a score of 67,260. The third place winner in this category was W7TR (operated by Todd KH2TJ) from Sacramento Valley, who submitted a log with a score of 50,640 (211 Qs, and 80 multipliers). The remainder of the top ten of the low power packet class consisted of KD6WKY (31,122), NS6E (21,840), N6BM (18,297), K6LE (16,920), N6ROB (1,980), NS6T (1,848), and AG6IP (1,296).

Multi-Operator Entries

The Pacific Division fielded six multi-operator entries this year, twice the number of last year. Two of the entries appeared in the nationwide top ten boxes.

There was no multi-multi entry this year from the Pacific Division.

W6WB, from the East Bay Section, again won the multi-two category this year operated by the team of JK3GAD, GØCKV, OH1VR, AD6E, KX7M, and W6NV. They completed 3,428 contacts and recorded 416 multipliers for a score of 4,244,448, which was also good for third place nationwide. K9YC (operated by K9YC and W6GJB) from Santa Clara Valley took second place in M2 with a score of 807,534 (993 Qs and 273 multipliers).

K6MMM (operated by KE1B and W6NN) from the Santa Clara Valley topped the high power multi-single effort with a score of 614,925 (919 Qs and 225 multipliers). K6KO (operated by K6KO and K6TA) submitted a MS-HP entry with a score of 108,000 (242 Qs and 150 multipliers).



The W6YX Shack at Stanford University (Photo K6OWL)

Stanford's W6YX (operated by K6UFO, N7MH, and NF1R) from Santa Clara Valley won the low power multi-single category and placed third nationwide with a score of 534,540 (758 Qs and 236 multipliers). N6DZR (operated by N6DZR and KD6CTZ) submitted a MS-LP entry with a score of 180,387 (393 Qs and 153 multipliers).

Propagation

Ten meters showed much improved productivity this year compared to last year (6,542 Qs and 2,131 multipliers this year compared with 3,576 Qs and 1,248 multipliers last year). The other bands were about the same or less productive. Fifteen meters declined to 9,836 Qs from 11,348 Qs last year but with a few more multipliers, 3,079 compared to 3,010. Twenty meters also showed more Qs but fewer multipliers (5,491 Qs this year compared to 5,647 Qs last year and 2,331 multipliers this year compared to 2,105 multipliers last year). The results on forty and eighty meters declined markedly compared to last year. Forty meters yielded 3,334 contacts and 1,257 multipliers this year compared with 4,331 contacts and 1,348 multipliers last year. Eighty meters produced only 679 Qs and 374 multipliers this year compared to 1,027 Qs and 603 multipliers last year. The activity this year on 160 meters was about the same as last year (54 contacts and 48 multipliers this year compared with 56 contacts and 54 multipliers last year).

Error Rates

Twelve logs were submitted with zero errors. These logs and the number of QSOs reported in them came from N6DZR (393), W7TR (operated by KH2TJ) (211), KA6MIB (120), W6RKC (113), K6BIR (63), AE6YB (57), N6MW (41), N6ROB (33), NS6T (28), K6TIG (22), KJ6MSG (14), and KJ6QAY (12).

Eleven logs were submitted with an error rate of one percent or less: W6NF (0.3%, 303 Qs), K7ACZ (0.4%, 447 Qs), N6ORB (0.6%, 324 Qs), W6YX MS-HP (0.7%, 758Qs), K6HNZ (0.7%, 588 Qs), K6RIM (0.7%, 438 Qs), N6SE (0.8%, 131 Qs), AA6K (1%, 479 Qs), K3FIV (1%, 312 Qs), K6AAB (1%, 192Qs) and N6XI (1%, 102 Qs).

There were twenty-one logs with error rates in the range of 1.1-1.9% and twenty logs with error rates in the range of 2.0-2.9%.

Roanoke Division

By Ryan Cairnes, K3XC

M2

The W4RM team edged out the KB1H team to earn the U.S. top spot with 4,611,963 points.

MS-HP

Despite tough competition the W4HZ team made the top ten U.S. list with 1,593,108 points.

SOAB-HP

KE3X piloted the N4RV station to a Roanoke Division first place win out of 25 logs and a second place Southeast Region finish with 2,533,638 points.

SOAB-LP

N4XL took the Roanoke Division first place out of 60 logs and the U.S. seventh place with 688,371 points.

SOAB-QRP

WC4J took Roanoke Division first place out of six logs with 10,530 points.

SOU-HP

Well known perennial contester Roger, N4ZC, captained his single-tower station to Roanoke Division first place and U.S. eighth place with 2,051,322 points.

SOU-LP

N4HXI took Roanoke Division first place with 211,770 points followed closely by W4ZAO with 174,384.

SO-10

K4TMC took Roanoke Division first place with 19,305 points.

SO-15

WA4AXR took Roanoke Division first place with 41,808 points.

SO-20

K4AMA was the only entry in the class with 16,005 points.

SO-40

N4NW was the only entry in the class with 42,402 points.

SO-80

W4QNW was the only entry in the class with 12,546 points.

Rocky Mountain Division

by Dan Norman, NØHF

This year the top score for all categories belongs to KØRF (M/S HP). An excellent score from Chuck's fine station with George WØUA on the M/S team, with a respectable 3.49 M score.

WC7WB came in 2nd with 460K.

N2IC followed with 3.34M points as SOAB HP. Very good Steve! Next was K7KU (KØKR op) coming in at 760K followed by NØKE (760K) and WS7X (656K) for the SOAB HP category.

Great effort guys!

Next for SOAB LP, we have KIØJ (171K) and K5DXX (94K) as the top two scorers.

SOU-HP was won by KC6R (353K) with K7ALA (321K) coming in 2nd.

The SOU-LP top score belongs to Bill KØUK with a score of 1.0M. Nice LP effort! N7RXL followed with 32K.

SOAB QRP went to KB7QOS with 11.8K.

The SO 10 winner is KBØYH (11.4K), SO 15 was won by N5LZ (12.6K), SO 20 went to NAØBR (5.2K) and SO 80 was AA5B (2.8K) and SO 160 was N5DJT (27 pts). If you want to earn a certificate, single band efforts has room for you!

Southeastern Division

By Jeff Clarke, KU8E

SOAB High Power Top 5

Call	QSO/Mult	Score
K1TO	2804/388	3,258,036
K4AB	2005/384	2,294,784
K4BAI	1227/309	1,131,867
N4UU	982/267	772,965
KU8E	763/285	642,960

Dan, **K1TO**, had the top SOAB HP score from the division with 3.258 million points. His score was also good for #6 in the USA. Just behind Dan were Larry, **K4AB** and John, **K4BAI**, who battled for the #2 and #3 slots and points for WRTC. **K4BAI** and **K4AB** are #1 and #2 in NA4W in the WRTC standings. **N4UU** and **KU8E** rounded out the top 5 SOAB HP scores.

SOAB Low Power Top 5

AD4Z	1695/366	1,835,856
K4UB	538/218	349,286
WB4JFS	535/218	348,582
AD4RE	503/233	347,403
N2ESP	398/198	234,036

Julio, **AD4Z**, distanced himself from the competition in the division with his great 1.8 million point effort in the SOAB LP category. He was also #2 in the USA. Great job! There was a very close battle in the #2 - #4 positions between Pat, **K4UB**, Kurt, **WB4JFS** and Greg, **AD4RE**. Pat edged Kurt by just 3 QSO's. The difference between #2 and #4 was less than 2000 points. Robert, **N2ESP** rounded out the top 5.

SOAB QRP Top 5

NT4TS	365/158	167,322
K9ES	223/126	82,404
K3TW	188/137	77,268
W5NZ	152/79	36,024

QRP is rough going on SSB. Laing, **NT4TS** toughed it out for the top SOAB QRP score in the division and #8 in the USA. Just behind Laing were Eric, **K9ES** and Tom, **K3TW**. Mark, **W5NZ**, was #4.

SOAB High Power Assisted Top 5

N8PR	1349/416	1,667,328
KT4Q	1283/339	1,295,658
N6AR	1093/378	1,222,452
W2OX/4	822/330	787,050
KØLUZ	840/286	712,140

The battle in the SOAB Assisted category was a battle between members in the Florida Contest Group. **Pete, N8PR** lead the pack followed by **Steve, KT4Q** and **Larry, N6AR**. **Alex W2OX** and **Gary, KØLUZ** rounded out the top 5 in this category.

SOAB Low Power Assisted Top 5

KT4ZB	1049/313	977,499
WB4OMM	546/259	416,472
WØPV	502/248	372,744
W1MD	320/182	174,174
W4DAS	326/173	167,367

Jere, **KT4ZB**, won the SOAB LP Assisted category for the 2nd straight year. Behind him were **WB4OMM**, **WØPV**, **W1MD** and **W4DAS**.

Single Band Categories - Top Scores

No Entry			160
K4MTI	15/12	540	80
KJ4EX	102/54	16,200	40
No Entry			20
N4PN	1316/110	431,310	15
W4SVO	522/78	120,978	10

With the good high band conditions in 2012 there were a lot of 15 and 10 meter entries. Paul, **N4PN** had the top 15 meter single band score, which was good for #3 in the USA. On 10 meters Mark, **W4SVO** edged out George, **K5KG** in a battle of SFL stations. Mark was #2 USA and George #3. William, **KJ4EX**, had the #7 score in the USA on 40 meters.

Multi-Single High Power

AD4ES	549/213	345,060
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There was only one multi-operator entry in the division which was by the group at **AD4ES** who was Multi-Single High Power.

Southeastern Division Soapbox

MY FIRST TIME PARTICIPATING AND IT WAS WONDERFUL. WILL MAKE A REAL EFFORT NEXT YEAR. **AI4MS**

"It's always a thrill to work DX with just 5 watts!
K3TW

Great fun, my first ARRL DX Contest. **K4WSW**

Only a part time effort, with a lot of things going on in anticipation of my daughter's wedding. The wicked thunderstorms Friday night pretty much wiped out the evening. Equipment seemed to work well, and the Ex-14 antenna on a Field Day type rocket launcher mast got generally good reports.
KE4UW

My first ARRL DX Phone contest. **KK4CIS**.

Kenwood TS-570D, Heath SB-200, Hustler 4BTV.
KW4G

GREAT CONDX THE FIRST 24 HOURS BUT MUCH DOWN THE SECOND DAY. BAND OPENED TO EUROPE MUCH LATER AND CONDX DOWN. THANKS TO ALL WHO SHOWED UP FOR THE PARTY. **N4PN**

Excellent contest. A real challenge. I really enjoyed it. Looking forward to the next one. Thank you.
N4RWH.

Rough conditions, lots of atmospheric noise. **ND4V**

Great time, looking forward to next year. **W4DHT**

I enjoyed the contest. Wish I had had longer to participate. **W4TKI**

This was my first contest! **WB4EHG**

Fun contest and good learning experience.
WB4MNK

Southwestern Division

By Larry Weaver, N6TW

I am reminded of the Formula One racing season in 2011 by this year's results in the Southwestern Division. Sebastian Vettle won the pole in most of the Formula One races and he ultimately won most of them, a number by a large distance. Many sections with two or more entrants had a winner who won with more than 100,000 points.

Section Winners

The results for each section in the division are in Table 1. Many sections had only one station in the category – these are indicated by an "*" following the call sign.

Table 1: Section Leaders

Cat	AZ	LAX	ORG	SB	SDG
MM	AK7AZ*	No Entry	No Entry	No Entry	No Entry
MS-HP	N7VF*	No Entry	No Entry	AC6DD*	NI6T*
SO-10	K5RR*	No Entry	W6DAF	WA6EJO*	No Entry
SO-15	N7DD	KU6T*	WA6KHK	No Entry	No Entry
SO-40	W7ON*	KT6W*	No Entry	No Entry	W6YI
QRP	N6HI*	No Entry	No Entry	No Entry	W6QU*(W8QZA)
SOU-HP	W2RD	N6QQ	AA6PW	N6WS	WE6DX
SOU-LP	K7JE	AG6AN*	No Entry	W6JWP	WN6K
SOAB-LP	N7IR	N6RV	NN6CH	WA6FGV	NN3V
SOAB-HP	KE2VB	KB6FB	WW6O	W6BL	K6NA

Table 1 clearly shows there are many categories and several sections which could use more activity. The section entries were:

Table 2: Participation

AZ	49
LAX	21
ORG	18
SB	12
SDG	22
Total	122

In almost every category, the high score in the division was ahead of second place by a wide margin. For example, W6YI had 257,928 points in the Single-Op 40 Meter category; second place went to W7ON with 5008 points.

Division Winners

Table 3: Division Winners and Margin of Victory

Cat	Div. Winner	Score	Runner-up	Score	Margin
MS-HP	NI6T	1,410,825	N7VF	527,040	883,785
SO-10	K5RR	87,750	W6DAF	9,576	78,174
SO-15	N7DD	612,066	NA2U	338,451	273,615
SO-40	W6YI	257,928	W7ON	5,088	252840
QRP	W6QU	199,950	N6HI	11,400	188,550
SOU-HP	N6QQ	1,293,306	AA6PW	797,100	496,206
SOU-LP	WN6K	525,930	K7JE	227,888	298,042
SOAB-HP	K6NA	604,443	WB8L	442,389	162,054
SOAB-LP	NN3V	329,640	N7IR	303,615	26,025

A somewhat close race was in the SOAB-LP category where NN3V won with 329,640 points to N7IR's 2012 ARRL International DX Phone Contest Results

303,650 points. Both scores were among the best in the West Coast Region. N7IR needed either 17 more multipliers or 43 more QSOs to win.

Among the winners both W8QU and K6NA won for the third consecutive year.

Table 4: West Coast Region

(Pacific, Northwestern and Southwestern Divisions;

Alberta, British Columbia and NWT Sections)

N9RV	2,966,301	HP
K7RL	2,834,895	HP
VE7CC	1,997,730	HP
K6XX	1,700,460	HP
NC7M	43,453	HP
K9JF	815,298	LP
NN3V	329,640	LP
VE6EX	314,340	LP
N7IR	303,615	LP
K7ACZ	280,350	LP
W6QU (W8QZA, op)	199,950	QRP
W7YAAQ	19,824	QRP
N6HI	11,400	QRP
AE9F	8,568	QRP

Four stations made the list of top scores in the West Coast Region: W6QU for his QRP efforts and the QRP runner-up N6HI and NN3V for his Single Op All Band Low Power efforts and Low Power runner-up N7IR.

Plaque Winner

One station had a score large enough to win an award outside the division. N7DD's SO15 effort gave him the W/VE 21 MHz Phone Plaque. His score was greater than all band scores in the division except N6QQ's SOU-HP entry.

West Coast Region

Another significant entry was W6QU in the QRP category. Operated by W8QZA, he placed sixth in the US, the only West Coast entry in the top ten. He has had the high score in the Southwestern Division in the QRP category every year since 2008. Here's his comment from the Soapbox:

"The computer says I spent only 30.5 hours at the rig this weekend. Tell that to my family and they would laugh in your face!"....W6QU.

The Million Point Club in the division has only two members this year: NI6T:1,410,825 in MS-HP and N6QQ: 1,293,306 in SOU-HP. More sunspots next year should produce several more.

Commentary on Participation

Within the results is a revelation about contesting we who participate regularly may miss.. In conversations with the radio amateurs who turn off their radios when a

contest is on, “I don’t have a powerful enough station. My antennas are poor. I don’t have a logging program. I can’t keep up with those fast guys,”

What many people don’t realize is it isn’t the guys who sit in the operating position 48 hours and operate at high speed with SO2R who make the contest. It is the operators who get on for fun and make few contacts who add up to the 2000 to 3000 contacts the contest winner makes.

Looking over the results in the Southwestern Division, 60% of the entrants made less than 200 contacts. During my log checking days it was fairly common to receive logs with only one contact. It’s not the number of contacts in the log but the number of logs that makes a contest.

If you are reading this and have never gotten on when a contest is going on, don’t think of reasons you can’t win. Tune around a bit and perhaps hear a DX station you need. Work him. You have just participated in the contest. Try a few more but be careful because you might get hooked on the fun.

If you do make a few contacts, send in your log. You never know. I have several certificates on the wall which arrived as a complete surprise.

Here are a few comments from participants in the 2012 ARRL DX contest.:

“Great Contest. Sunspots were up, tested some equipment. Didn’t dedicate my entire weekend, but I still had fun”.....AG6AN.

“Part-time with low dipoles. Nice to work friends in DX places”.....N6VI.

“Paper Logs used for whole contest, then later typed into the one desktop computer”.....KB5TX.

“This was the most fun contest I’ve been in!!!”.....KI6CYT.

“FUN”.....AJ4A.

That sums up all contests for me. Either way you approach them—casual search and pounce vs competitive—I think you will enjoy it. I know I do.

I mentioned earlier that I was surprised by getting a certificate or a contest. When I told my wife her comment was: “You should call N6TR and thank him for being out of town.”

West Gulf Division

By Tom Horton, K5IID

In the West Gulf Division this year, we had a total of 74 entrants. It would have been 75 if the author had not had a case of rectal cranial inversion and gotten his log in on time! Oh well! Out of the 74 that did get entered we had two national winners and several in the top ten of their category.

The conditions were not as good as during the CW weekend, but still better than the past few years. There were some very strange conditions and skewed paths on 10 meters that were noticed here. But isn’t that what 10 meters is all about and makes it so much fun?

The Multi Operators

George, NR5M gathered the troops in STX at his superstation in South Texas and cracked the whip to lead them to a win in the West Gulf and 6th place nationally in the MM category with over 5 million points. They totaled over 3900 Qs and 488 total mults for a score of 5,645,184 points. They also led in QSOs per band, except 160 meters.



NR5M shack preparing to get with it. (Photo N5UI)



Just part of the NR5M antenna farm (Photo N5UI)

KBØHH from Oklahoma, and N5AA, the Contest Kings (Richard and Susan) in STX followed in 2nd and 3rd place respectively with 572K points and almost 400k points.

K5YA, Dennis and his crew, also from STX was the only entrant in the MSHP and did very well with 1106 Qs and 323 mults adding up to a little over 1 million points.



The WØUO antenna farm (Photo K5ANR)

Jim, WØUO from NTX was also the only entrant in the MSLP category and wound up winning not only the West Gulf division but 1st place for the entire US. Jim and his group of operators won over groups from both coasts by a nice margin. They totaled just below 800k points with 854 Qs and 316 mults.

Single Operator / Single Band

10 meters...

The West Gulf claims another national win from STX with W5PR, Chuck. On his favored HF band, 10 meters, he wound up with 631 Qs and 89 mults for a total of 166,608 points. Bet he can't wait for the sunspot cycle max. Heck, I can't either. The West Gulf 10 meter single band entrants totaled only 4 this year but I'll betcha there will be more next year!

15 meters...

N5MV took top honors on 15 meters in the Division with 612 contacts and 82 multipliers for a total of 141,696 points. Mike led the group of 6 other 15 meter single band entrants.

20 meters...

KF5HHD, Deborah now K5RZA in Midland was the only 20 meter entrant with 1287 points.

160 meters...

Jim, K5RX was the only 160 meter entrant. Jim came away with 3108 points and not only won the West Gulf but was fourth nationally!

Single Operator / All Band

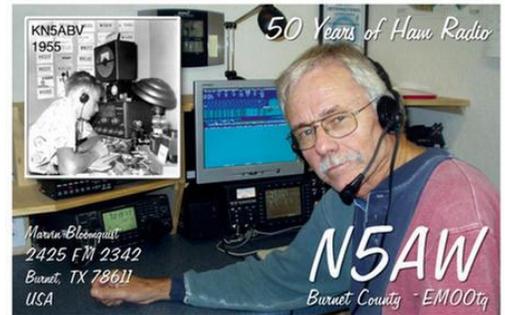
The lone QRP entry was from KA5PVB. As a sometimes QRP contest operator myself, I can testify how agonizing, compelling and yet rewarding QRP operating can be. Charles operated from the WTX section which is where I first tried QRP contesting 30 plus years ago! He wound up with 216 Qs and 100 mults for 64,000 points

and a second place slot in the Midwest Region. Good job, OM!

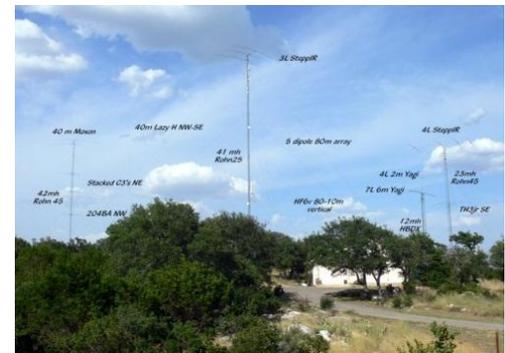
In the SOU-HP (Unlimited) category Joel, N5JR walked away with over 1 million points. From his NTX QTH he garnered 1024 Qs and 358 mults narrowly defeating K5QXR. Gene, from STX actually had more Qs (1107) than Joel, but 55 less mults for a little over 993K points. There were 6 operators in this category.

SOU-LP (Unlimited) had 11 entries and Dave, N5DO from way out West Texas way handily came away the victor in the division and third nationally. He had 998 Qs with 327 mults for 974k points with an outstanding 0.6% error rate! Very nice Dave! Second place went to N1CC, Jim in NTX with 407 Qs and 214 mults for 258k points.

SOAB-LP was carried away by Marv, N5AW. From his STX hill top, 4 tower location he low-powered his way to a third place nationally, first place in the Midwest Region and an overpowering win in the West Gulf! Marv's 1149 QSOs and 350 multipliers gave him a score of 1,186,500 points. The other 27 operators fell short but still had 9 stations garner over 100K pts.



Low power contester par excellence, N5AW (photo N5AW)



The N5AW hill top antenna farm (photo N5AW)

Eight stations sent in logs for the SOAB-HP category but George, K5TR absolutely crushed the competition with almost 3 million points! With 2445 Qs and 391 mults George more than doubled any other Single Op score and singlehandedly made half of what the NR5M team did. He scored only 13K points out of the top ten nationally and was 3rd in the Midwest Region. Super job!



AD5XD 2nd place
SOAB-HP (Photo
AD5XD)

the major Es link there to S. America held off until after the contest ended local Sunday evening! All Qs were S&P.... WA5IYX.

Comments

One of the really neat things this year is the "Error rate" that that we get to see. In the West Gulf these rates range from 0% percent up to one station with a 100%. I'm just not real sure how that happens, but it is what it is. Personally, while it can be embarrassing to the operator, it gives each of us a chance to look back and see where we need to improve. Looking through the error rates, of the stations with 200 or more Qs, the West Gulf ranged from 0.3% up to 7.7%. It just can't do anything but help us all pay more attention and hang in there just a few seconds and make sure we have it all right!

Conclusion

This year's contest has come and gone. I noticed a lot of new calls in the listings. I hope that you have learned a bit about contesting and are champing at the bit to jump in again! Please do! There are contests nearly every weekend and the training is fantastic. To me, if there is an emergency situation that has to be handled who else would you want other than an operator that can pass traffic quickly and accurately. In short, a CONTESTER!

Canada

By John Sluymmer, VE3EJ

Last year in doing the 2011 analysis of the Canadian results I commented on how similar the statistics were between 2011 and 2010. Having completed the 2012 review it is amazing how the numbers track once again through 2012. Mediocre band conditions are doing little to attract increased activity but at least there is a steady supply of dedicated Canadian contesters that come out to meet the challenge every year.

The regional distribution for Canadian entries varied slightly again but total number of VE entries was almost identical to 2011 with 119 compared to 115 the year before and 116 in 2010. Of the 14 Canadian multipliers available, 11 were represented by log entries with Nunavut (VYØ), Yukon (VY1) and Labrador (VO2) being absent this year.

Club Activity

The West Gulf Division had 50 club entries with 41 in the Medium Category and 9 in the Local Category. The winning Medium Category club was the Central Texas DX and Contest Club with 18 million plus points among their 17 logs. The CTDXCC also was seventh in the nation. The Lone Star DX Association's 10 entries came up second in the division and sixteenth nationally.

A couple of clubs showed up in the Local Category. The Midland Radio Club has been around for a long time and they came in second in the West Gulf with 3 entries and 264K points. But the new kid on the block, The DFW Contest Group from North Texas is a club that will soon be an entity to be reckoned with. This group is only a few months old and is growing rapidly. They scored sixteenth nationally and first in Local Clubs in the division with 480 K points among only 6 logs. Stand back, the newbies are on the rise!

Soapbox

This was my first International contest. I made my first Pacific contact. I may have some of the power ratings wrong, as I did not understand some of the responses....K5HTB

Great fun this year. It seems that particularly near the last few hours, many stations fail to provide their calls. I wish that were not true....K5LAD.

Paper Logs used for whole contest, then later typed into the one desktop computer....KB5TX. (Ouch...K5IID)

Pretty good propagation....N5KAE

(2002) FT-847; (1977) 3-el Wilson monoband 10-m Yagi 20' AGL; 15-m h.b. 3-el Yagi 14' AGL; 20-40-75 m fan dipoles 15' AGL I had expected much higher solar fluxes than last year for this; even so 10-m provided some Europe (w/o my wasting time on ST2 like in 2011), plenty of JAs, and a few "rare" like 9M6, DU. 40-m some Eu and JA. 75-m mostly this Hemisphere and the Canaries. 6-m had some "distractions" like 0138z Mar 4 FK8, but

Regional distribution:

		2012	2011	2010
Newfoundland	VO1:	3	3	4
Labrador	VO2:	0	1	1
Nova Scotia	VE1:	5	5	6
New Brunswick	VE9:	5	1	4
Prince Edward Isl	VY2:	3	4	3
Quebec	VE2:	14	16	14
Ontario	VE3:	54	48	47
Manitoba	VE4:	5	4	2
Saskatchewan	VE5:	7	4	7
Alberta	VE6:	8	11	12
British Columbia	VE7:	12	17	13
NW Territories	VE8:	3	1	1
Yukon	VY1:	0	0	2
Nunavut	VYØ:	0	0	0
		119	115	116

Categories:

In order of popularity:

SOAB-LP (Single Operator All Band Low Power) :	45
SOAB-HP (Single Operator All Band High Power) :	19
SOU-HP (Single Operator Unlimited High Power):	18
SO-xx (Single Operator Single Band):	15
SOU-LP (Single Operator Unlimited Low Power):	12
SOAB-QRP (Single Operator All Band QRP):	4
MS-HP (Multi Single High Power):	3
MS-LP (Multi Single Low Power):	2
MM (Multi Multi):	1
M2 (Multi Two):	0

High power entries totaled 55 compared to 67 in 2011 while low power represented 59 compared to 46 last year and QRP totaling 4 versus 2 the previous running.

51 percent of Canadian entries indicated club affiliation. CCO had the largest number of entries with 28. Other significant contest clubs represented this year were “Contest Group du Quebec” (CGQ), “Maritime Contest Club” (MARCC), “ORCADXCC” from British Columbia, Saskatchewan Contest Club (SASKCC) and the Alberta Clippers.

In the “Unlimited Category” club competition, Contest Club Ontario (CCO) placed 8th overall, dropping three positions over 2011 with 44.8.1 Million points from 67 participants (combined phone and CW).

In the “Medium Category” club completion the “ORCADXCC” topped the Canadian clubs with 11.6 million points to place 9th overall followed by The Maritime Contest Club (MARCC) with 8 million points, CQG with 5.2 million, the Alberta Clippers with 1.7 million and finally the Saskatchewan Contest Club with 1 million.

Individual highlights of the 2012 contest:

Special congratulations to the following for finishing first overall in their respective categories:

VE3EJ – #1 VE/W Single op High Power



John VE3EJ enjoying a relaxing moment just before the contest. (Photo VE3EJ)

Taking advantage of some “Zone 5” refocusing, your overall winner in 2012 was John, VE3EJ operating from the Niagara Peninsula in Southern Ontario. After being runner up several times in the past, John narrowly eked out a victory over W2RE winning by a slim 1%. Surviving log checking is a wonderful thing!

VY2ZM - #1 VE/W Single Band 160



Jeff, VY2ZM (Photo K1ZM - 2011)

Jeff took time off from his usual Single Op All Band routine to set a new contest record on his favorite 160 meter band. Jeff placed number one overall beating out his competition by a ratio of almost 4 to 1.

K6AAX/VY2 - #1 VE/W Single Band 80



Patrick, K6AAX at VP2MDG in 2011 CQWW (Photo K6AAX)

Last year's overall High Power SO winner Patrick, K6AAX/VY2 switching gears to set a new 80 meter VE contest record. Like his father on 160, Patrick took the category by an almost identical 4:1 ratio over his nearest competitor.

Making the Top Ten boxes

Single Operator All-Band High Power

- VE3EJ – First overall, #1 Canada
- VC3A (VE3AT) – Third overall, # 2 Canada.
- VY2TT (K6LA) – Fourth overall, # 3 Canada

Single Operator All Band QRP

- VA3DF – Second overall, #1 Canada.

Single Operator Unlimited All Band LP

- VA2SS – Ninth overall, #1 Canada.

Single Operator Single Band 160 Meters

- VY2ZM – First overall, # 1 Canada.

Single Operator Single Band 80 Meters

- K6AAX/VY2 – First overall, #1 Canada.

Single Operator Single Band 40 Meters

- VE3FU – Fifth overall, #1 Canada.
- VE3SWS –Eighth overall, #2 Canada

Single Operator Single Band 20 Meters

2012 ARRL International DX Phone Contest Results

- VE9HF –Third overall, #1 Canada

Top Canadian Finishers and Scores

- Single Operator All Band High Power:
VE3EJ – 4,374,360
- Single Operator All Band Low Power
VA3SWG – 417,024
- Single Operator all band QRP:
VA3DF – 320,100
- Single Operator Unlimited HP:
VE3FWA – 1,027,971
- Single Operator Unlimited LP:
VA2SS – 547,560
- Single Operator 10 meters:
VE5KS – 9,910
- Single Operator 15 meters:
VE6MA – 50,091
- Single Operator 20 meters:
VE9HF – 153,120
- Single Operator 40 meters:
VE3FU – 28,500
- Single Operator 80 meters:
K6AAX/VY2 – 152,460 *
- Single Operator 160 meters:
VY2ZM – 44,286 **
- Multi Single High Power:
VE3MIS – 1,240,272
- Multi Single Low Power:
VE7NA – 13,608
- Multi Two:
No Entry
- Multi Multi:
VE7IO – 313,020

The score listed with (*) above represents a new Canadian record.

The score listed with (**) above represents a new Contest (W/VE) record.

Plaque winners for 2012 are:

VE3EJ – W/VE Single Operator all Band High Power Phone.

- K6AAX/VY2 – W/VE 3.5 MHz Phone.
- VY2ZM – W/VE 1.8 MHz Phone.
- VA3SWG – Canada Single Operator Low Power Phone.

As a recurring theme we continue to hope for increased solar activity and its resulting benefits to the high bands. The high bands are long overdue as a significant factor in the ARRL DX Phone contest. What will 2013 bring? Make sure you are ready as 2013 could be the big year.

Caribbean Region

By Bill Smith, W9VA

For most of North America the Caribbean is a popular warm weather destination in March. This year was no exception – lots of great scores from visitors – but also a major increase in logs from resident contesters. This year’s results show a significant increase in logs submitted, from 37 to 58, and we are pleased to note that the increase was from resident operators. For example, there were 14 logs from resident operators in Cuba in 2012 compared to none in 2011! In addition to number of logs, there was an increase in number of Caribbean contacts from 114K to almost 130K, nearly 14%. Not surprisingly, the QSO increases were on 15 and 10 meters, which benefited from longer, stronger openings from this area to North America as we move up in Cycle 24.

Caribbean Category Winners – Congratulations to All!

Single Op High Power	8P5A	9,722,772
Single Op Low Power	HI3TEJ	5,039,685
Single Op Unlimited HP	V47JA	754,200
Single Op Unlimited LP	8P6NW	949,905
Single Band 160	KV4FZ	72,072
Single Band 75	CL8AKY	50,055
Single Band 40	ZF2AH	394,710
Single Band 20	C6AZZ	325,620
Single Band 15	KP2MM	497,943
Single Band 10	KP4JRS	245,268
Multi Op Multi Trans	C6ANM	5,081,076
Multi Op Two Trans	6Y1V	11,719,305
Multi Op Single Trans HP	VP5H	8,158,941
Multi Op Single Trans LP	HI3K	4,805,097

In the Single Op High Power category, Tom W2SC in Barbados as 8P5A was not only first in the Caribbean but again first in the world, based on 9,367 contacts and 348 Multipliers, a 3% score improvement over 2011. In second place we find N3AD at V26M on Antigua, followed closely by N2TK at KP2M on St. Croix. Rounding out the top 5 are TO5A (Martinique) and CO2GG.

The Single Op Low Power category attracted 17 entries, the most popular class in the region. Ted, HI3TEJ repeated as regional winner with 5,392 Q’s and 315 Mults. Close behind were J88DR and K1LI at J7Y.

The Single-Op Unlimited, formerly known as “Assisted,” category attracted only 4 entries, with V47JA winning the High Power category and 8P6NW the Low Power winner.

There were 23 single band entries, compared to only 6 in 2011, with winners as shown above. Congratulations to Joe, W6VNR, who piloted ZF2AH to top score on 40 meters world-wide with 2257 QSO’s and 59 Mults and Herb, KV4FZ, the world winner on 160 meters with 437 QSO’s and 56 Mults.

And, finally, the Multi-Op stations. The region’s only Multi-Multi Entry, C6ANM in the Bahamas (N1GN, NE1B, N1IW, W2AFC) compiled 5,537 Q’s and 308 Mults – a score of 5.1M, good for fourth in the world. The multi-national group at 6Y1V (KY1V, K1VR, W1NA, N8BO, I8NHJ, I8QLS) put together a remarkable Multi-2 effort – 11.7M points - 11,416 QSO’s - 345 Mults – for first in the world – actually the highest score from the DX side in any category! In the more popular Multi-Single category, WØGJ, KØMD, and WAØMHJ at VP5H won the Caribbean and came in third world-wide in the High Power category. Our Low Power Caribbean winner, HI3K, also was the winner world-wide in that category. Congratulations to HI3K, HI3CC, HI3EPR and KL7JR.

Photo Gallery

Ted, HI3TEJ was tops in the Caribbean and second worldwide (to P4ØV) in the highly competitive Single-Op Low Power category.



Ted HI3TEJ at the operating position. (Photo HI3TEJ)

And here's Ted's photo of his antenna farm:



In addition to HF contesting, Ted is active on 6 meters during the summer providing the gang with the Dominican Republic on the Magic Band.

Here's the group that lead VP5H to the Caribbean M/S High Power title - notice a few ARRL DX Contest plaques in the background?



The VP5H team – Glenn WØGJ, Mark WAØMHJ, and Scott KØMD from left to right. (Photo by WØGJ)

And here's a nice rainbow shot at VP5H from WØGJ. Glenn says the end of the rainbow is over North America – that's where the pot of gold was for this contest!



So that's the Caribbean Region 2012 Phone Contest Story. It was very nice to see the increase in scores and the increase in participation – particularly from Cuba, Puerto Rico and a few other islands which had not previously shown much resident contest activity. Although it is not clear where our current sunspot Cycle 24 is headed, we can be certain that 2013 will bring another great ARRL International Phone DX Contest!

Central & South America

By Diego Salom LU8ADX, Assisted by Hector Garcia XE2K and Diana Garcia XE2DN

Central America / Centroamérica

En la categoría Multi-multi (MM) desde Centroamérica, este año nuevamente contamos con una de las estaciones de Costa Rica. La estación TI8M fue activada por un equipo formado por TI2JCY, TI2KAC, TI4ZM, K4UN, W4BW, W4KTR y W4XO, ellos obtuvieron 1er puesto continental y 3ro en la clasificación mundial de esta categoría detrás de EF8R y LP1H.

This year in the Multi-multi category (MM) from Central America, the TI8M station activated by TI2JCY, TI2KAC, TI4ZM, K4UN, W4BW, W4KTR, and W4XO won first place in this continent and third world behind EF8R and LP1H.

CALL	SCORE	QSOS	MULTS		
TI8M	7.285.1407558	324			
160	80	40	20	15	10
120/40	673/55	1216/57	2457/60	1833/59	1259/53



TI2JCY, TI2KAC, K4UN, W4BW, W4XO and W4KTR. (Photo TI8M)

También desde Costa Rica estuvo en el aire la estación TI5N con un equipo integrado por AJ3G, K1DG, KG5VK, WK4Y, WA4PGM, siendo la única estación de la región en la categoría Multi2 (M2) sacando un 1er puesto en el continente y 2do puesto mundial, detrás de 6Y1V por una diferencia de 1 millón de puntos.

Also from Costa Rica, TI5N was in the air activated by AJ1G, K1DG, KG5VK, WK4Y, and WA4PGM. This was the only station in the Multi2 (M2) category and won first place in the continent and second world behind 6Y1V by a one million point difference.

CALL	SCORE	QSOS	MULTS		
TI5N	10.550.358		10449	339	
160	80	40	20	15	10
194/46	904/58	1267/59	2028/60	3412/61	2644/55



TI5KD, Brenda, WA4PGM, K1DG, WK4Y, AJ3G, KG5VK (Photo K1DG)

En la categoría Multi-single, High Power (MS-HP) y Multi-single, Low Power (MS-LP), no hubo participación desde Centroamérica.

There was no participation from Central America in the Multi-single, High Power (MS-HP), and Low Power (MS-LP) categories.

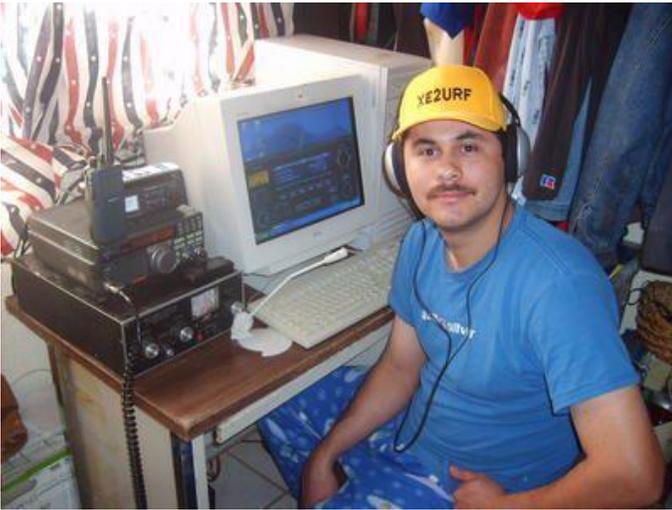
En la nueva categoría que está disponible desde el año pasado, la Single-Op Unlimited, Low Power (SOU-LP) no hubo participación desde Centroamérica.

There was no participation from Central America in the new category Single-Operator Unlimited Low Power (SOU-LP) available since last year.

En la categoría Single-Op, High Power (SOHP), Fernando XE2URF con casi 1500 QSOS fue el mejor clasificado de la región.

In the Single-Operator High Power (SOHP) category, Fernando XE2URF was ranked best in the region with almost 1500 QSOS.

CALL	SCORE	QSOS	MULTS		
XE2URF	734.784	1445	172		
160	80	40	20	15	10
0/0	63/26	319/49	898/56	93/22	72/19



XE2URF L. (Photo XE2URF)

En la categoría Single-Op, Low Power (SOLP) hubieron 8 participantes desde Centro América, siendo nuevamente la categoría más concurrida de la región, el mejor clasificado fue Gunter, DL2AYK que participo desde Belice como V31YK habiendo logrado el 1er lugar de la región y el 4to puesto mundial, seguido por David, N6HD que participo desde Guatemala como TG7/N6HD quedando 6to en el Top Ten mundial de la categoría y el 3er puesto de Centro América quedo para Miguel XE1XOE.

There were 8 participants in the Single-Operator Low Power (SOLP) category from Central America which was the most attended in the region. The best ranked was Gunter, DL2AYK who participated from Belize as V31YK and won first place in the region and fourth world. He was followed by David, N6HD from Guatemala as TG7/N6HD who achieved sixth in the World Top Ten. The third place was for Miguel, XE1XOE.

CALL	SCORE	QSOS	MULTS			
	160	80	40	20	15	10
V31YK (DL2AYK, op)	2.925.252		3962	249		
	0/0	83/31	267/42	1093/60	1208/58	1311/58
TG7/N6HD	2.151.279		3000	243		
	3/2	65/35	145/40	456/53	790/58	1541/55
XE1XOE	1.120.290		1769	214		
	8/6	50/29	79/36	378/49	733/51	521/43
XE3N	784.098		1789	147		
	0/0	0/0	239/42	22/17	195/37	1333/51
XE2AU	484.260		1160	140		
	0/0	0/0	2/2	236/44	178/43	744/51
YN5ZO (K7ZO, op)	320.856		928	116		
	0/0	0/0	0/0	34/22	373/50	521/44
HQ2N (JA6WFM, op)	107.217		630	57		
	0/0	0/0	0/0	7/6	4/3	619/48
HP3FTD	4.278		46	31		



V31YK. (Photo DL2AYK)



N6HD. (Photo N6HD)

En la categoría Single-Op, Single-Band 10 (SOSB10) con la mejora de las condiciones hubieron mas participantes en esta categoría que años anteriores, este año hubieron 5 participante desde Centro América, el 1er lugar en Centro América y 4to en el Top ten mundial fue para Jim, HQ2GL con algo más de 2500 QSOs, seguido por Arturo XE1BY que obtuvo el 7mo lugar en la grilla mundial y 3er puesto de la región fue para Andrei EW1AR operando TG7/NC2N.

Due to the improvements in the propagation, there were more participants in the Single-Operator Single-Band 10 (SOSB10) category compared to previous years. This time, there were 5 stations from Central America. Jim, HQ2GL won first place in the continent and fourth in the World Top Ten with more than 2500 QSOs. He was followed by Arturo, XE1BY who achieved seventh place world and by Andrei, EW1AR third place in the region as TG7/NC2N.

CALL	SCORE	QSOS	MULTS
HQ2GL	411.840	2511	55
XE1BY	260.010	1619	54
TG7/NC2N (EW1AR, op)	108.450	727	50
XE1GZU	25.038	215	39
XE1ZTW	7.644	98	26



XE1BY. (Photo XE1BY)

En la categoría Single-Op, Single-Band 15 (SOSB15), Participaron 2 estaciones y ambas fueron desde México, el 1er lugar en la región fue para Alex XE1EE, seguido por Masao XE1MM.

In the Single-Operator Single-Band 15 (SOSB15) category, there were 2 stations participating and both from Mexico. The first place in the region was Alex, XE1EE followed by Masao, XE1MM.

CALL	SCORE	QSOS	MULTS
XE1EE	161.955	934	59
XE1MM	4.176	48	29



HQ2GL. (Photo W9GL)



XE1EE. (Photo XE1EE)



XE1MM. (Photo XE1MM)

En la categoría Single-Op, Single-Band 40 (SOSB40), el primer lugar en la región y 9no en el Top Ten mundial, fue para Marco, XE2S logro desde Sonora 650 QSOs con 52 estados y provincias.

The first place in the region and ninth World Top Ten in the Single-Operator Single-Band 40 (SOSB40) was Marco, XE2S from Sonora, Mexico with 650 QSOs and 52 states and provinces.

CALL	SCORE	QSOS	MULTS
XE2S	99.528	650	52

En la categoría Single-Op, Single-Band 20 (SOSB20), el primer lugar en la región y 8vo en la grilla mundial, fue para Francisco TG9ANF pudiendo hacer 1346 QSOs y 61 multiplicadores desde Honduras seguido de su compatriota Edgar TG9AXF.

The first place in the region and eighth world in the Single-Operator Single Band 20 (SOSB20) was achieved by Francisco, TG9ANF from Honduras with 1346 QSOs and 61 multipliers. He was followed by his folk Edgar, TG9AXF.

CALL	SCORE	QSOS	MULTS
TG9ANF	245.220	1346	61
TG9AXF	192.753	1108	59



XE2S. (Photo XE2S)



TG9ANF. (Photo TG9ANF)

En las categorías de las bandas bajas como lo son Single-Op, Single-Band 80 (SOSB80) y Single-Op, Single-Band 160 (SOSB160), no hubo participación desde Centroamérica.

There was no participation on the low bands categories such as are Single-Operator Single-Band 80 (SOSB80) and Single-Operator Single Band 160 (SOSB160) from Central America.

South America / Sudamérica

Durante el concurso, el SFI estuvo oscilante, el primer día se mantuvo en 102 y llegó a 116 el día domingo, mientras que el K se mantuvo estable en 4 durante el fin de semana.

The SFI was unstable during the contest. The first day stayed on 102 and the second day on 116. On the other hand, the K was stable on 4 the whole weekend.



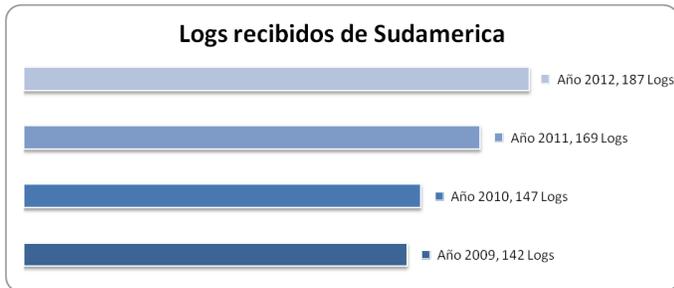
TG9AXF. (Photo TG9AXF)

Con un total de 187 logs recibidos desde el continente Sudamericano, y un nuevo incremento de participante, este año un 10% más de estaciones que el año anterior, este crecimiento influenciado por mejores condiciones y el trabajo que vienen realizando grupos como el LU Contest Group (Argentina), y el Araucaria DX Group

(Brasil) entre otros, promocionando e incentivando a nuevos radioaficionados a participar en estos concursos.

También desde este continente se han batido un records no solo continental sino que también mundial.

This year we had a 10% increase on the number of participants from South America. In total, we received 187 logs from this continent. This is a consequence of the excellent propagation and also the work that different groups have been doing lately, in order to increase and motivate the new hams in their regions to become more involved in the hobby. Among them, the LU Contest Group (Argentina) and also the Araucaria DX Group (Brazil). There have been set new records from this continent.



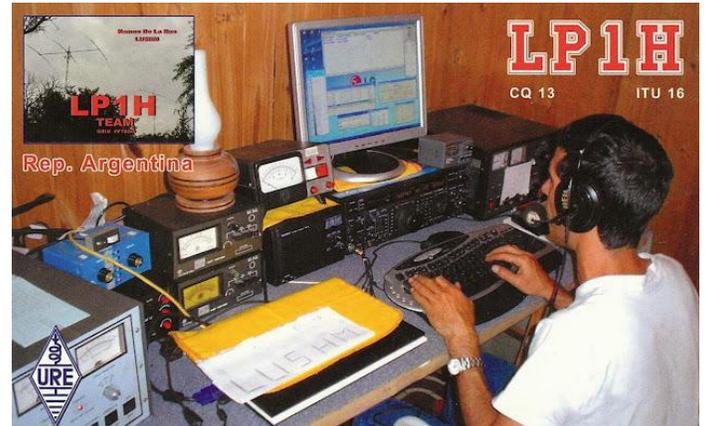
A continuación paso a darles un breve comentario de la actividad en cada una de las categorías de este concurso.

In the next lines, I will give you a brief explanation about the activity on each one of the categories in this contest.

Comenzando con la categoría Multi-Multi (MM), hubo 2 participantes desde Sudamérica en esta categoría, la ganadora continental fue LP1H desde de Córdoba, Argentina, que a la vez obtuvo un 2º lugar en el mundo detrás de (EF8R - 8.961.225) los operadores de LP1H fueron los siguientes: LU5HM, LU2NI, LU3HY, LU5DX, LW4HR, LW5HR y LU9HIG. Ramon LU5HM/LP1H viene haciendo un gran trabajo y mejorando la estación y el perfeccionando su grupo de operadores, mejorando año tras año sus objetivos.

First, there were two participants from South America in the Multi-Multi (MM) category. The winner in the continent was LP1H, operated by LU5HM, LU2NI, LU3HY, LU5DX, LW4HR, LW5HR y LU9HIG from Cordoba, Argentina who also achieved second place world behind EF8R- 8.961.225. Ramon, LU5HM/LP1H, has been doing a good job to improve the station and to polish his operators skills to overcome his goals year after year.

CALL	SCORE	QSOS	MULTS	80	40	20	15	10
LP1H	7.469.304	9019	278	130/41	765/58	2163/60	2550/60	3411/59
PY2PT	17.766	128	47	0/0	0/0	0/0	18/14	110/33



LU5HM. (Photo LU5HM)

Con solo una participación en la categoría Multi-2 (M2) desde esta región, el primer lugar desde Florianópolis, Brasil fue para PT5T operada por HK3R, PP5XX, PY2KC, PY2YU, PP5EG y PP5RZ que a la vez obtuvieron el 4to lugar mundial.

With only one participant in the Multi-2 (M2) category from this region, the first place went to PT5T from Florianopolis, Brazil. The team members were HK3R, PP5XX, PY2YU, PP5EG, and PP5RZ. They also won the fourth place world.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
PT5T	7.361.070	8562	290	4/4	176/47	1057/58	1985/61	2294/61	3046/59



PT5T Team ARRL SSB 2012. (Photo PT5T)

Con la participación de 7 estaciones desde Sudamérica en la categoría Multi-single High Power (MS-HP) el ganador del continente y a la vez campeón mundial fue para PJ2T, operada por K6AM & WØCG habiendo un

excelente trabajo con solo dos operadores. En 2do puesto en el continente mundial fue para P4ØL operada por W6LD, KØDQ y N4OC y el 3er puesto en el continente y 8vo en la grilla mundial fue para una estación del Cono Sur, exactamente de Melo, Uruguay con el indicativo CW5W activada por PY3VK, CX2DK y CX6VM.

In the Multi-Single High Power (MS-HP), among 7 stations from South America, the winner in the continent and world was PJ2T operated only by K6AM and WØCG, who did an excellent job as a team. The second place went to P4ØL operated by W6LD, KØDQ, and N4OC; the third place continent and eighth world went to CW5W from Melo, Uruguay activated by PY3VK, CX2DK, and CX6VM.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
PJ2T	8.998.236	8708	348	314/52	588/58	1281/59	1637/61	2332/60	2556/58
P4ØL	8.880.270	8690	343	208/46	733/59	1224/59	1524/61	2132/61	2869/57
CW5W	4.762.812	5478	292	31/18	126/43	284/52	1534/60	993/60	2510/59
LS1D	4.251.708	5387	267	9/7	77/32	368/51	1450/59	1135/59	2348/59
CE2LS	1.366.596	2272	203	0/0	0/0	173/45	314/51	491/51	1294/56
L73D	413.646	979	142	0/0	0/0	0/0	142/36	400/52	437/54
PR7AA	52.479	363	49	0/0	0/0	0/0	0/0	0/0	363/49



K6AM operated the PJ2T Station. (Photo WØCG)



P4ØL Station. (Photo P4ØL)



CX2DK and PY3VK. (Photo CX6VM)

En la categoría Multi-Single Low Power (MS-LP) y que solo tiene dos años de antigüedad, hubo 6 estaciones participantes desde este continente. El 1er lugar en Sudamérica y 4to lugar en el mundo fue para LU1UM operada por LU2UF, LU4ULT (18 años), LU5UAS (17 años), LU5UBI, LU5UEV (18 años) y LU5ULV. Alex/LU2UF comenta “por mi parte puedo decir que fue nuestro mejor concurso del año, los chicos afianzados operando muy eficientemente, además de la diversión. Agradecemos la existencia de la categoría Multi-single Low Power, a la ARRL, este es el único concurso de fonía donde realmente podemos competir seriamente. Tan mal no nos va.” El 2do lugar en el continente y 5to en el top ten mundial fue para ZV2K operada por PY2SHF, PY2WAR y PU2TRX. Y en 3er lugar 7mo en el mundo clasifico CV5K operada por CX7BZ, CX2ABC, CX5BE, CX6DAP, CX1RC, CX3AY, CX1CW y CX4AT.

In the Multi-Single Low Power category (MS-LP), which is one the newest categories in the contest since two years ago, there were 6 participant stations from South America. The first place in the continent and fourth world was achieved by LU1UM, operated by LU2UF, LU4ULT (18 years old), LU5UAS (17 years old), LU5UBI, LU5UEV (18 years old), and LU5ULV. Alex (LU2UF), said: “In my opinion, this was our best contest in the year, besides the fun, the guys were confident and operated efficiently. We want to thank the ARRL for this category’s opening because it gave us the opportunity to be serious testers on the phone category. It was not bad at all”. The second place continent and fifth in the Top Ten went to ZV2K operated by PY2SHF, PY2WAR, and PU2TRX. In third place in South America and seventh world, CV5K operated by CX7BZ, CX2ABC, CX5BE, CX6DAP, CX1RC, CX1CW, and CX4AT.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
LU1UM	1.390.800	2494	190	0/0	4/3	17/14	784/57	631/58	1058/58
ZV2K	735.504	1418	176	0/0	4/4	10/9	565/56	400/55	439/52
CV5K	556.365	1311	145	0/0	0/0	19/13	45/21	391/53	856/58
PR5A	447.447	1080	143	0/0	0/0	0/0	146/35	391/54	543/54
PS2R	216.144	642	114	0/0	0/0	4/3	49/21	289/43	300/47
ZP9EE	2.376	38	22	0/0	0/0	0/0	0/0	38/22	0/0



Radio Club Santa Rosa LU1UM - LU4ULT, LU5UAS, LU5UBI, LU5UEV, LU5UAS and LU2UF. (Photo LU5UAS)



Antennas of ZV2K. (Photo PY2SHF)

CE3OPE	300.927	836	121	0/0	0/0	0/0	221/49	35/18	580/54
PY2/XE2B	288.564	714	139	0/0	0/0	6/5	224/47	260/44	224/43
PY7ZY	138.942	503	93	0/0	0/0	0/0	365/55	137/37	1/1
PY7ZBK	138.096	417	112	0/0	7/5	27/20	34/17	31/24	318/46
3G3TV	92.259	613	51	0/0	0/0	0/0	0/0	0/0	613/51
PP1CZ	79.560	532	51	0/0	0/0	0/0	0/0	0/0	532/51
LR9D	78.000	525	50	0/0	0/0	525/50	0/0	0/0	0/0

Ahora es el turno de comentar la participación de las estaciones Single-Op Unlimited, High Power (SOU-HP), que este año se recibieron 18 planillas. El ganador Sudamericano y Mundial de este año fue Noah/K2NG operando su estación desde la isla Bonaire con la licencia PJ4G, que a la vez a logrado un nuevo Record mundial en esta categoría. El 2do puesto Sudamericano y Mundial fue para Wanderley PY2MNL operando el indicativo ZZ2T y en 3er lugar en el continente y 4to en la grilla mundial fue para PR2X operada por Adriano PY2ADR, también muy bien posicionado figura Sergio CE1TT que obtuvo el 4to puesto sudamericano y 6to en el Top Ten Mundial.

In the Single-Operator High Power (SOU-HP) category there were 18 stations participating. The South American and world winner was Noah/K2NG operating from Bonaire Island as PJ4G achieving a new World Record for this category. The second place in the continent and also world went to Wanderley/PY2MNL operating as ZZ2T. In third place in South America and fourth world, PR2X operated by Adriano/PY2ADR. Another outstanding operator was Sergio/CE1TT who won fourth place in the continent and sixth in the World Top Ten.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
PJ4G (K2NG, op)	6.471.075	6706	325	153/39	509/52	598/58	1526/59	1541/59	2379/58
ZZ2T (PY2MNL, op)	3.063.294	4156	247	0/0	53/28	255/45	848/57	1228/57	1772/60
PR2X (PY2ADR, op)	2.419.308	3579	228	0/0	6/5	223/48	1172/59	866/57	1312/59
CE1TT	1.493.790	2980	170	0/0	0/0	0/0	634/57	900/56	1446/57
PY5ARP (PY5ZD, op)	839.460	1660	170	0/0	0/0	3/3	361/54	430/55	866/58
PY4RGS	653.670	1356	162	0/0	0/0	34/20	385/53	91/33	846/56
CE3PG	446.607	1078	139	0/0	0/0	0/0	124/36	281/48	673/55
PY2NA	418.959	2387	59	0/0	0/0	0/0	0/0	0/0	2387/59
PY7VI	366.024	829	151	0/0	0/0	20/15	472/57	91/38	246/41
PT2CM (PT2FE, op)	357.399	1993	61	0/0	0/0	0/0	1993/61	0/0	0/0



K2NG @PJ4G. (Photo LU8ADX)



PY2MNL @ZZ2T. (Photo PY2MNL)

Ahora el turno de la otra nueva categoría en su 2do año de existencia, hablamos de la SOAB Asistidos Low Power (SOU-LP), la cual fue todo un éxito, ya que se recibieron 23 logs y en la cual en los primeros puestos se encuentran dos señoritas. La campeona mundial y de Sudamérica fue Emily P43E desde Oranjestad, Aruba, superando el 1 millón de puntos, seguido en 2do lugar a Claudio CE1VIL activando el indicativo 3G1D, desde

Iquique, Chile, habiendo obtenido también el 3er puesto en el Top ten Mundial, en 3er puesto sudamericano y 4to mundial Davi PY2VZ y en 4to lugar y 6to mundial desde Bogotá fue para Sandra HK3JJB.

The other new category since two years ago is SO Unlimited Low Power (SOU-LP), which was a total success. There were 23 logs for this category. Among the firsts places were two ladies. The South American and World winner was Emily/P43E from Oranjestad, Aruba with more than one million points, she was followed by Claudio/CE1VIL activating 3G1D from Iquique, Chile; he also won third place on the World Top Ten. The third place in the continent and fourth world was Davi/PY2VZ. The fourth place in South America and sixth World went to Sandra/HK3JJB from Bogota, Colombia.



P43E. (Photo P43E)

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
P43E	1.035.567	2182	159	0/0	0/0	0/0	692/58	744/56	746/45
3G1D (CE1VIL, op)	748.659	1553	163	0/0	0/0	0/0	303/52	534/57	716/54
PY2VZ	602.832	1351	152	0/0	0/0	0/0	234/45	520/52	597/55
HK3JJB	336.168	823	138	0/0	0/0	317/49	45/23	437/49	24/17
PY2ZR	319.422	782	139	0/0	0/0	0/0	156/41	205/47	421/51
PU8WWW	154.512	906	58	0/0	0/0	0/0	0/0	0/0	906/58
PT2AW	68.766	316	73	0/0	0/0	0/0	216/44	3/3	97/26
PY2TKB	65.700	449	50	0/0	0/0	0/0	0/0	0/0	449/50
CX9AU	63.753	271	79	0/0	0/0	0/0	46/22	161/33	64/24
ZP9MCE	59.700	417	50	0/0	0/0	0/0	0/0	0/0	417/50
LU4HW	52.350	352	50	0/0	0/0	0/0	0/0	0/0	352/50
PY4XX	16.761	155	37	0/0	0/0	0/0	0/0	0/0	155/37
ZP9EH	11.583	100	39	0/0	0/0	0/0	92/32	2/2	6/5
PY2ABN	4.374	56	27	0/0	0/0	0/0	0/0	2/2	54/25
CX1CAK	2.508	39	22	0/0	0/0	0/0	0/0	5/4	34/18
PY2NM	1.848	28	22	0/0	0/0	0/0	0/0	10/9	18/13
PY2DN	1.530	30	17	0/0	0/0	0/0	0/0	30/17	0/0
PP5AMP	1.248	26	16	0/0	0/0	0/0	0/0	0/0	26/16
PP5FMM	1.188	23	18	0/0	0/0	0/0	0/0	0/0	23/18
PU2SGL	270	11	9	0/0	0/0	0/0	0/0	0/0	11/9
PY5IN	240	10	8	0/0	0/0	0/0	0/0	2/2	8/6
PU2KXM	168	8	8	0/0	0/0	0/0	0/0	0/0	8/8
YV5EN	27	3	3	0/0	0/0	0/0	3/3	0/0	0/0



CE1VIL @3G1D. (Photo CE1VIL)

Llego el turno de la máxima categoría de un mono operador, la Single-Op, High Power (SOHP), con un total del 14 logs recibidos desde Sudamérica, el primer lugar Sudamericano y 5to en el mundo fue para Andreas 9Y4W con más de 6000 QSOs y 5 millones de puntos, quien debido a la diferencia en los multiplicadores logrados en las bandas bajas termino con casi un millón de puntos de diferencia sobre Lucas/LU1FAM operando desde LT1F – BadPower, que obtuvo el 2do lugar en Sudamérica y 7mo lugar en el mundo, el cual fue un gran logro ya que no recuerdo un LU dentro del Top Ten en esta categoría al menos en la última década. En 3er lugar y 8vo en el Top Ten figuro Edward/OA4SS desde Lima con más de 4500 QSOs.

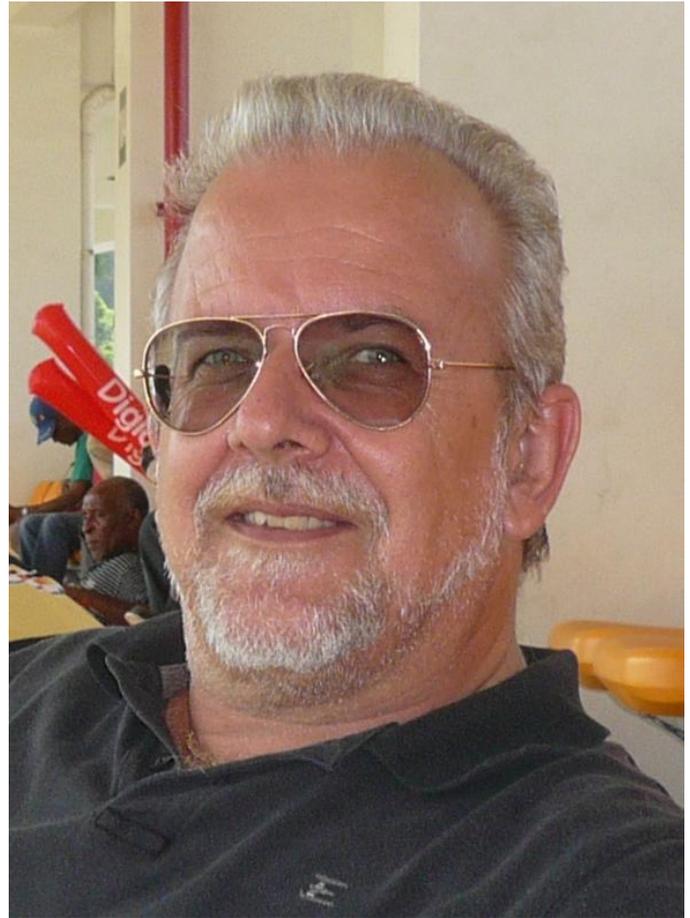
There were 14 logs in the Single-Operator High Power (SOHP) category from South America. The first place in the continent and fifth world went to Andreas/9Y4W with more than 6000 QSOs and 5 million points, who due to the difference in the multipliers on the low bands,

accomplished almost a million points over Lucas/LU1FAM operating from LT1F – BadPower. Lucas won the second place in the continent and seventh world, which by the way was an important achievement because I do not remember another LU in the Top Ten on the past decade. In third place in South America and eighth in the World Top Ten, Edward/OA4SS from Lima with over 4500 QSOs.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
9Y4W	5.188.320	6065	288	0/0	432/51	1001/58	1527/61	1258/59	1847/59
LT1F (LU1FAM, op)	4.425.516	5693	261	1/1	53/30	280/49	1433/61	1635/60	2291/60
OA4SS	3.675.951	4686	263	0/0	156/43	199/41	1392/59	1160/60	1779/60
HK3JJH	1.379.136	2649	176	0/0	0/0	6/6	1071/58	613/55	959/57
PY4OG	1.323.777	2661	169	0/0	0/0	7/7	1096/59	338/46	1220/57
LU7FTS	559.206	1347	141	0/0	0/0	0/0	181/43	110/40	1056/58
PY2MTV	344.352	866	136	0/0	0/0	0/0	93/33	295/51	478/52
CE3BPC	260.991	633	141	0/0	0/0	6/5	165/43	199/46	263/47
PP5JY	227.409	657	119	0/0	3/3	16/15	436/51	23/17	179/33
ZP5MAL	74.592	467	56	0/0	0/0	0/0	0/0	467/56	0/0
PV8DX	27.846	225	42	0/0	0/0	0/0	0/0	225/42	0/0
PY5KC	429	13	11	0/0	0/0	0/0	0/0	2/2	11/9
PV8ADI	330	13	10	0/0	0/0	3/3	6/4	4/3	s0/0
PY2SF	222	37	2	0/0	0/0	0/0	36/1	1/1	0/0

Habiendo recibidos 28 planillas de en la categoría Single-Op, Low Power (SOLP), siendo esta la categoría con mas participantes en Sudamérica, el ganador Sudamericano y Mundial es para Robert/W5AJ que opero desde la estación P4ØV, lo siguió Vitor PY2NY desde Sao Paulo con un 2do puesto Sudamericano y en 3er lugar del continente Diego LU8ADX operando su indicativo especial AY8A desde la Ciudad de Buenos Aires.

The category with more participants from South America was Single-Operator Low Power (SOLP) with 28 received logs. The winner in the continent and world was Robert/W5AJ who operated from P4ØV. He was followed by Vitor/PY2NY from Sao Paulo who won second place in the continent and for Diego/LU8ADX in third operating his special call AY8A from Buenos Aires.

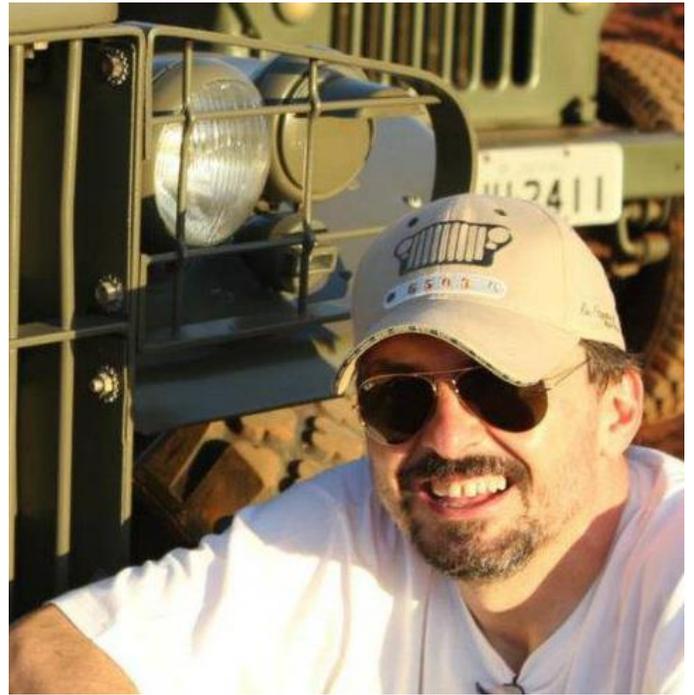


9Y4W. (Photo 9Y4W)



LU1FAM @LT1F. (Photo LU1FAM)

CALL	SCORE	QSOS	MULTS	160 Q	80 Q	40 Q	20 Q	15 Q	10 Q
P4ØV (W5AJ, op)	5.295.528	5620	316	103/34	317/52	507/57	1211/59	1372/58	2110/56
PY2NY	1.000.563	1701	197	0/0	2/2	51/29	500/56	562/56	586/54
AY8A (LU8ADX, op)	766.530	1535	167	0/0	0/0	5/5	397/54	526/53	607/55
LU5FR	549.450	1237	150	0/0	0/0	0/0	414/54	237/41	586/55
LR1F (LU5FD, op)	408.576	914	152	0/0	0/0	13/12	124/40	349/45	428/55
LU6ETB	372.960	846	148	0/0	0/0	0/0	214/47	254/48	378/53
YV5OIE	372.663	890	141	0/0	0/0	97/32	327/46	433/53	33/10
LW3DG	347.256	1132	104	0/0	0/0	0/0	210/40	7/6	915/58
L59D	261.990	725	123	0/0	0/0	0/0	96/29	201/42	428/52
CP1FF	248.760	693	120	0/0	0/0	0/0	88/36	167/38	438/46
PY1RY	226.590	597	130	0/0	0/0	3/3	200/43	165/41	229/43
ZX6ZZ (PY5PDC, op)	185.472	656	96	0/0	0/0	0/0	204/43	1/1	451/52
PY6KY	163.134	491	114	0/0	0/0	28/14	232/42	21/11	210/47
LW1HR	161.616	499	112	0/0	0/0	0/0	44/20	232/49	223/43
PY3PA	126.558	484	89	0/0	0/0	6/6	89/30	0/0	389/53
LU5FF	99.000	384	88	0/0	0/0	0/0	15/11	109/33	260/44
OA6/OE3NHW	66.360	291	79	0/0	0/0	0/0	2/1	95/36	194/42
LU5CAB	57.240	216	90	0/0	0/0	0/0	36/21	104/36	76/33
ZP6DYA	42.048	301	48	0/0	0/0	0/0	0/0	0/0	301/48
YV5JGO	33.276	193	59	0/0	0/0	3/3	148/33	11/10	31/13
OA4DKW	8.424	73	39	0/0	0/0	0/0	9/8	7/6	57/25
PY1PDF	8.307	72	39	0/0	0/0	0/0	54/25	1/1	17/13
PY1TJ	7.992	85	37	0/0	0/0	0/0	9/7	5/5	71/25
PY1NS	7.650	77	34	0/0	0/0	0/0	0/0	2/2	75/32
LR1A	1.296	24	18	0/0	0/0	0/0	2/1	0/0	22/17
LW1EUD	504	16	12	0/0	0/0	0/0	0/0	0/0	16/12
PY2TEL (PY2AXHop)	351	14	9	0/0	0/0	0/0	2/1	1/1	11/7
PV8AZ	168	8	7	0/0	0/0	0/0	8/7	0/0	0/0



PY2NY. (Photo PY2NY)

En la categoría Single-Op, QRP (SOQRP), participaron 6 estaciones desde este continente, el primer lugar en el mundo y Sudamericano fue para Pedro LU7HZ desde la provincia de Córdoba, el 2do lugar en el continente y 5to a nivel mundial fue para su compatriota Francisco LU1VK desde Bariloche en la provincia de Rio Negro, el 3ro y 9no en la grilla mundial fue para Antonio PY2BN desde el estado de Sao Paulo y 4to en el continente y 10mo en el Top Ten Mundial fue para José PU5ATX desde Santa Catarina.

There were 6 stations participating from South America in the Single-Operator QRP (SOQRP) category. The first place in the continent and world went to Pedro/LU7HZ from Cordoba. The second place in the continent and fifth world went to his folk Francisco/LU1VK from Bariloche in the Rio Negro province. The third in the continent and ninth world went to Antonio/PY2BN from Sao Paulo. The fourth in the continent and tenth in the World Top Ten went to Jose/PU5ATX from Santa Catarina.

CALL	SCORE	QSOS	MULTS	160	80	40	20	15	10
LU7HZ	136.479	484	97	0/0	0/0	0/0	147/40	13/9	324/48
LU1VK	18.819	124	51	0/0	0/0	0/0	8/7	13/12	103/32
PY2BN	13.221	118	39	0/0	0/0	0/0	2/2	1/1	115/36
PU5ATX	12.084	110	38	0/0	0/0	0/0	0/0	0/0	110/38
PY4ZO	1.881	33	19	0/0	0/0	0/0	28/15	0/0	5/4
PU5UAI	540	17	12	0/0	0/0	0/0	0/0	0/0	17/12



P4ØV and P4ØYL repair the lower TH7. (Photo W5AJ)



LU7HZ. (Photo LU7HZ)

Entrando ahora en las categorías Mono banda, comenzamos por la banda de 10 metros, este año se recibieron 51 planillas desde Sudamérica, el cuales un número importante y casi duplica las logs recibidas el año anterior.

In the Single band categories, there were 51 logs received for the 10 meter band. They almost doubled the ones received from South America last year.

En Single-Op, Single-Band 10 (SOSB10), la categoría monobanda preferida de Sudamérica, dio como ganador mundial fue Sergio PP5JR desde su estación "Morro da Boa Vista" activando su licencia especial PX5E desde Santa Catarina, con 2do puesto sudamericano y mundial se ubico Jesús LU5FC desde Rosario, Santa Fe, seguido con el 3er puesto en el sudamericano y mundial fue para Fernando PY2LED desde Sao Paulo.

In this same category, which is the South American favorite, the winner was Sergio/PP5JR from his station Morro da Boa Vista activating his special call PX5E from Santa Catarina. In second place in the continent and world, the winner was Jesus/LU5FC from Rosario, Santa Fe. The third place in South America and world went to Fernando/PY2LED from Sao Paulo.

CALL	SCORE	QSOS	MULTS
PX5E (PP5JR, op)	673.554	3888	58
LU5FC	585.162	3387	58
PY2LED	419.580	2352	60
CE1DY	284.439	1624	59
PU2LEP	271.695	1542	59
LU8EOT	258.552	1560	56
LW7DUC	240.816	1405	58
PP5JAK	235.587	1352	59

LW8DQ (LW7DX, op)	218.544	1268	58
LU3HS	206.745	1276	55
PY4DBU	193.140	1122	58
PU5FJR	188.832	1137	56
PZ5RA	137.592	889	52
PU1KGG	131.835	800	55
LU6FOV	113.355	692	55
LW3DN	94.224	613	52
PY2XC	93.492	597	53
LU8DCF	92.379	584	53
PU2STZ	87.780	543	55
PY2XV	87.156	545	54
CA1NAK	84.084	544	52
LU3MAM	82.680	523	53
CX4DX	71.448	466	52
PU5DCB	70.686	477	51
CA3KHZ	66.750	452	50
PP5JN	66.708	450	51
LU1EXR	55.860	390	49
PY1NB	54.009	354	51
XQ7UP	44.400	299	50
PY5FO	33.120	243	46
PY1CD	29.889	250	41
PU1PYZ	29.430	227	45
LU1FU	28.098	226	42
LU8DY	27.846	226	42
PU2WDX	27.405	214	45
PU2KIV	18.840	165	40
PU1MMZ	14.520	134	40
LU4AA (LU7DW, op)	10.656	98	37
LU6EVD	9.792	102	34
LU3ARE	9.072	88	36
PY2JCM	5.766	63	31
PY3DJB	1.920	33	20
PY3AJB	1.596	28	19
PY1WX	1.026	23	18
PP5BB	756	18	14
YV8AD	432	16	9
PU8TLS	210	11	7
PV8RR	60	5	4
PU2UIB	36	4	3
XQ4CW	12	2	2
PU5AGM	0	0	0



PP5JR @PX5E . (Photo PP5JR)

CALL	SCORE	QSOS	MULTS
PR5B (PY2LSM, op)	522.660	2834	62
CE3CT (CE4CT, op)	434.625	2391	61
YV5KG	282.846	1653	59
PY2NZ	175.740	1024	58
HC1JQ	173.736	1027	57
PY1ZV	166.380	969	59
YW5W (YV5TX, op)	132.660	814	55
CE3DNP	63.960	422	52
LU5MT	61.776	429	48
HK1R	59.784	386	53
LU3DK	48.216	339	49
LU1QAH	34.992	256	48



LU5FC. (Photo LU5FC)

En Single-Op, Single-Band 15 (SOSB15), con 12 logs recibidos el ganador continental y mundial de la categoría con casi 3000 QSOs, fue ALAN/PY2LSM operando la gran estación "Morro da Boa Vista" como PR5B, en el 2do puesto en Sudamérica y 6to en el mundo quedó Roberto CE3CT desde Chicureo, Provincia de Chacabuco y en 3er puesto sudamericano quedo para Jhonny YV5KG desde Caracas.

There were 12 logs received in the Single-Operator Single Band 15 (SOSB15) category and the first place winner in the continent and world was Alan/PY2LSM with almost 3000 QSOs operating from the station Morro da Boa Vista as PR5B. The second in the continent and sixth world went to Roberto/CE3CT from Chicureo Province of Chacabuco, and the third in South America went to Jhonny/YV5KG from Caracas.



PY2LSM @PR5B. (Photo PY2LSM)



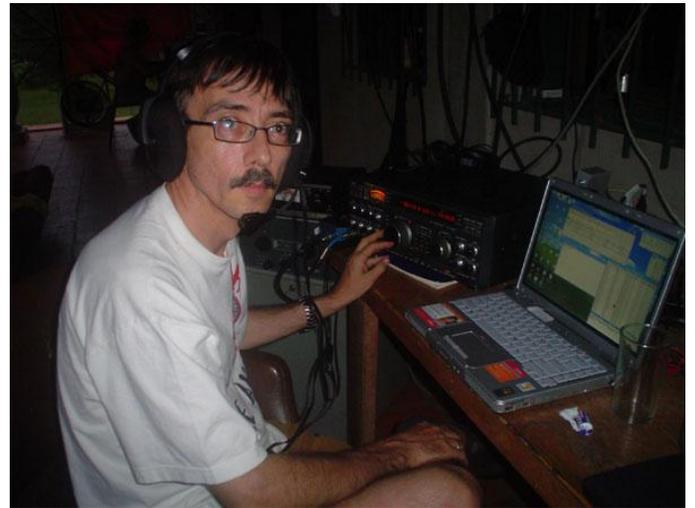
CE3CT. (Photo LU8ADX)



HK1T. (Photo HK1T)

En Single-Op, Single-Band 20 (SOSB20) con solo 9 logs recibidos en esta categoría, la mitad del año anterior, el ganador mundial de la categoría con un gran trabajo ha sido Sal HK1T con casi 3500 QSOs y 61 multiplicadores, Paolo YV1DIG que calificó 2do en Sudamérica y en el Top Ten mundial con una diferencia en QSOs y el 3er lugar continental y 4to mundial fue para Fabio PY2BK activando su licencia especial PX5C.

Unfortunately, this year there were only 9 logs received for the Single-Operator Single Band 20 (SOSB20) category, which is half of what was received last year from South America. The first place in the continent and world was Sal/HK1T with almost 3500 QSOs and 61 multipliers. Paolo/YV1DIG won second in the continent and also the same place in the World Top Ten only by a small difference in QSOs. The third place in the continent and fourth world went to Fabio/PY2BK activating his special call PX5C.



YV1DIG @YW4D. (Photo YV1DIG)

En Single-Op, Single-Band 40 (SOSB40) con 7 logs recibidos desde Sudamérica, el ganador continental y 4to puesto mundial fue para Alberto PR7AP con casi 1000 QSOs en la banda, luego en 2do lugar continental y 5to mundial fue para Edgar CE3EEA, en el 3er lugar en el continente y 6to en el Top Ten mundial fue para Alberto HC2AQ.

With 7 logs received from South America for the Single-Operator Single Band 40 (SOSB40) category, the winner in the continent and fourth place world was Alberto/PR7AP with almost 1000 QSOs. He was followed by Edgar/CE3EEA in second place in the continent and fifth world. The third place winner in the continent and sixth in the World Top Ten was Alberto/HC2AQ.

CALL	SCORE	QSOS	MULTS
HK1T	627.324	3449	61
YW4D (YV1DIG, op)	538.752	2967	61
PX5C (PY2BK, op)	352.458	1966	61
PR7AR	165.060	938	60
LR1H	147.972	856	59
CE1KR	140.085	856	55
CE1TUW	37.584	266	48
L73DX	1.980	35	20
LU4MHQ	240	10	8

CALL	SCORE	QSOS	MULTS
PR7AP	167.067	987	57
CE3EEA	140.391	837	57
HC2AQ	138.168	836	57
4M6CQ (YV6BXN op)	95.094	596	54
PY5QW	53.106	343	53
PY2KJ	396	14	11
LU7DW (VE3AP, op)	390	14	10

There were 2 logs received for the Single-Operator Single Band 80 (SOSB80) category from South America, both from Venezuela and very similar in points between them. The first place in the continent and world went to Juan/YV5JBI, activating his contest call YW5T. Werther/YV5MSG won second place in the continent and world with his special call 4M5W.

CALL	SCORE	QSOS	MULTS
YW5T (YV5JBI, op)	123.144	742	56
4M5W (YV5MSG, op)	115.344	719	54



PR7AP. (Photo PR7AP)



YV5JBI. (Photo YV5JBI)



CE3EEA. (Photo CE3EEA)



YV5MSG. (Photo YV5MSG)

En Single-Op, Single-Band 80 (SOSB80) con 2 logs recibidos desde Sudamérica, ambas estaciones fueron de Venezuela y tuvieron un puntaje muy similar entre ellas, el 1er puesto Mundial y Continental fue para Juan YV5JBI activando su licencia para concursos YW5T y en 2do lugar Mundial y Continental fue para su compatriota Werther YV5MSG con su indicativo especial 4M5W.

En Single-Op, Single-Band 160 (SOSB160) con 2 logs recibido desde Sudamérica, el 1er puesto sudamericano y 2do mundial fue para Juan Carlos LU2DVI desde la provincia de Córdoba y 2do puesto continental y 4to mundial fue para Bob/YV5IAL desde la ciudad de Caracas.

For the Single-Operator Single Band 160 (SOSB160) category and with 2 logs received from South America, the winner in first place in the continent and second world was Juan Carlos/LU2DVI from Cordoba. The second place in the continent and fourth world was Bob/YV5IAL from Caracas.



LU2DVI. (Photo LU2DVI)



YV5IAL. (Photo YV5IAL)

Queremos agradecer especialmente a los que han donado las placas para los ganadores de cada categoría y en especial a las que han quedado en el continente sudamericano.

We want to thank all the sponsors that have been donated the plaques for the winners in each category, with special attention to the sponsors for the South American participants.

Plaque Category	Plaque Sponsor	Winner
World 14 MHz Phone	Don Wallace, W6AM, Memorial Award	HK1T
World 28 MHz Phone	North Shenandoah DX Association NS4DX	PX5E (PP5JR, op)
World Single Operator Phone Low Power	Arizona Outlaws Contest Club	P4ØV (W5AJ, op)

Asia

By Brett Graham, VR2BG

Japan again dominated Asian competition for 2012, taking all categories other than SO-20, MS-HP and MS-LP (won from either UA9 or UAØ), SO-40 (won from A6) and SOU-LP, which was won from HS. Second place was also all JAs other than SO-20, which went to UN.

There were five Asian entries in the overall top ten, one less than last year – in the usual SOAB-QRP, M2 and MM categories. In a continuing sign of improving conditions, a total of 5065 QSOs were made on 10m – nearly twice as many made last year.

Single-Op Single Band

For a second year in a row, there were SO-10 entries from the continent – again led by Lou JA7OWD with 73.7k/637/39. His score was more than triple last year's, with nearly 1.5 times as many contacts and 18 more multipliers. There were eight other entries from Asia in this category.

On 15m, leader Masi JR1CBC's 227k/1468/52 was down 1.7% from his winning score last year. He was followed by JN1NDY with 147k/1003/50 and Osamu JR8VSE with 137k/933/50.

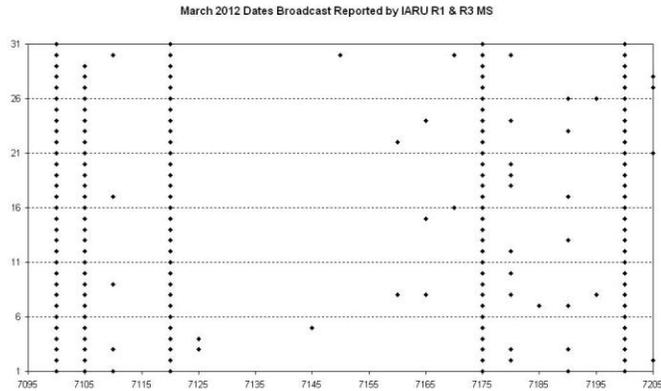
After weakening the previous year, the Tohoku (Japanese seventh call area) domination of 20m was broken by Vadim RW9QU, operating from RK9QWM with 50k/330/52. He was followed by Gennadij UN7QF with 11k/110/36 and Alex UA9YK with 10k/91/38.

On 40m, Alex RV6LNA operating from A65BP with finished well ahead of Yas JA8NFV with 3.6k/64/19 and Jang-Hui DS5TOS with 2.3k/67/12.

And down on 80m, Aki JE1SPY was the only Asian entry with 858/26/11.

This year was the fourth since the broadcast service was to have vacated 7100-7200 kHz and as this is written (early July), with just reports from the Region 1 and Region 3 IARU Monitoring Systems at hand there are yet again many days and frequencies in the following scatter plot showing broadcast's continued use of the band segment. We can hope that maybe someday they will

finally leave and those on the DX-side will have an easier time hearing W/VEs.



Three years on, broadcasting still has yet to vacate 7100-7200 kHz.

Single-Op All Band

The SOAB-QRP category was won by last year's runner-up JH1APZ with 24.6k/145/57, who was also fourth overall. Hiro JA2MWV again followed him with 18.6k/130/49, who this year was also sixth in the world. Atsu JR1NKN was third with 9.3k/85/37.

The continental SOAB-LP winner was again JH4UYB with 348k/893/131, a 24% reduction on Masa's score last year. In second was 8J2NDP/4 operated by Jun JM4MGM with 108k/435/85, followed by Masa JA2CUS with 51.1k/240/71.

On high power, Akira JAØJHA with 1.9M/3012/214 bested last year's leading score by nearly 1.4 times. Operated this year by Don JH5GMH, last year's winner JR1AIB was second with 941k/1868/170 – a 17% increase over last year's score. Anatoly RC9O was third on the continent with 333k/1232/91

Taka JAØFVU led the SOU-HP category with 365k/1094/113, followed by Nob JE1LFX with 307k/102/104 and Masa JO1WKO with 255k/695/124.

SOU-LP honors went to Marc HSØZJU with 91.8k/410/76. He was followed by last year's winner JH1DGQ with 49.5k/223/74 and JF3BFS with 44.4k/341/44.

Multi-Op

Leading the continent in the MS-HP category was RUØFM, driven by RCØF, RAØFU and RUØFM – finishing with 1.6M/2894/194, a 45% increase over last year's winner RWØCWA. Following them were JP7DIG, 7K1OOU and 7N4TEN at JE7YSS with 202k/737/92.

UA9QCQ and RV9CDW operating RK9CZO was the only MS-LP entry, at 6.7k/64/35.

Continuing in M2 this year, the team at JA1YPA – JA1PEJ, JE1PMQ, JG4KEZ, JH6OPP, JA1CTB and JM1UWB – also finished with about the same score as last: 1.2M/2123/198. They were also ninth overall, dropping one place from the previous year.

And again the MM category was won by the gang at Mt RF with JG3KIV, JG3MRT, JG3WDN, JH4NMT and JS1PWV piloting JA3YBK to 2.3M/3547/223 – more than doubling last year's score and good for sixth overall. JE1ZWT (operated by JA1MML, JF1VVR, JF9BLA, JG1VGX, JI1ALP, JJ1RUF and JK1JEO) were second on the continent with 1.1M/1986/198 – as well as eighth overall.

Europe

By Bob Naumann, W5OV

Selecting which band to operate on in a DX contest is a difficult choice because of the variation in propagation at different times of the day and the opportunity to work rare multipliers in different areas of the globe. For many North American stations, and primarily because of the concentration of multipliers and potential QSOs, the choice is often as simple as figuring out what band offers propagation that will allow one to work the most European stations at that time. While this is especially true in the North East for obvious geographical reasons; several entrants in other regions managed to work well into Europe and posted some excellent scores despite the relatively disturbed high band conditions this year.

Let's look at this from the other side – from Europe.

Europeans work USA and VE stations for credit in this contest. Since their DXCC count may not be increasing, this may be considered less exciting than other DX contests. There are some other factors that may offset that somewhat. It can be considered somewhat easier as antennas don't need to be rotated as much, many signals from North America are fairly easy to copy, and there is essentially no end to the number of contacts to be made so a well-engineered station in Europe can have a great deal of fun. There is also an opportunity to pick up some missing states, provinces, or (while the information is not exchanged on the air) even some USA counties for the various awards.

Many stations in Europe could be considered casual or part-time entrants, but even so, their contributions to the contest overall are greatly appreciated by all USA and

VE entrants. A quick review of the comments on submitted logs reveals that many shared the sentiments of GM4UYZ who reported *“Found conditions across ‘Pond’ quite difficult as well. Enjoyed my short time on the air though”* or in this note from GM3PPG: *“Enjoyed contest again despite the poor LF condx to this location. Thanks for all the qso’s, and CU next year 73, Rick (GM3PPG aka G4BYB)”*.

While the many casual European participants like GM4UYZ and GM3PPG make up a large percentage of the QSOs logged by serious entrants in USA/VE, there are those in Europe who are quite serious about operating this contest. The following is a summary of the most notable European entries.

Single Op All Band High Power

CR6K, operated by Filipe CT1ILT, submitted the top European Single Op HP score along with breaking the previous record held by SN2B (2002) by nearly a 30% increase along with only a 0.8% error rate! CR6K’s fine effort also ranked 6th world-wide.



CR7ADN and CT1ILT (Photo K3LP)

Young Filipe is quite an operator and has many international contests on his resume now. One to

be watched in future events for sure. He may have gotten some of his ability from his father, Jose CT1CJJ of whom Filipe says: *“helped me in achieving all my goals and who is always willing to help me.”*

Multi-Single High Power:

One of the most highly competitive categories in all DX contests, especially in Europe, is Multi-Single. The crew at CR2X managed to take the top honor this year and like CR6K, they set a new record while doing so. In contrast to CT1ILT, the team of operators at Radio Arcala’s CR2X is a much more seasoned group, sporting call signs that have been logged in DX contests for several decades. They are: OH2BH, OH2MM, and the junior member, OH8NC. This elite bunch managed to beat the

previous record held by TM5C (2001) by nearly 20% with only a 0.5% error rate.



CR2X: Left to right - Juha/OH8NC, Martti/OH2BH, & Ville/OH2MM (Photo by the CR2X team)



The CR2X Antenna Farm (Photo by the CR2X team)

Top European Scores:

- Single Operator High Power
CR6K (CT1ILT, op) 5,119,821
- Single Operator Low Power
EA6AZ 217,251
- Single Operator QRP
F5BEG 88,452
- Single Operator Unlimited, High Power
G6PZ (IZ1LBG, op) 2,750,814
- Single Operator Unlimited, Low Power
IB1B (IW1QN, op) 565,728

Single Operator 160 Meters GWØGEI 432	
Single Operator 80 Meters GM3PPG (G4BYB, op) 79,110	
Single Operator 40 Meters TM9R 269,820	
Single Operator 20 Meters TM6M (F1AKK, op) 505,263	
Single Operator 15 Meters F6KHM (F8DBF, op) 450,729	
Single Operator 10 Meters CR2T (CU2AF, op) 56,745	
Multioperator, Single Transmitter, High Power CR2X 6,912,948	
Multioperator, Single Transmitter, Low Power EE5W 86,496	
Multioperator, Two Transmitters ED1R 4,455,360	
Multioperator, Multi Transmitters 9A1A 3,743,250	

station who packed their bags for an overseas adventure this year... well everything Oceania is overseas, but you get my drift.

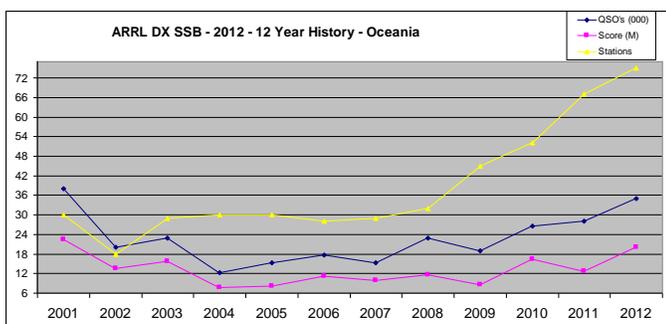
Continental leaders in Oceania

Single Operator High Power VK7ZE 437,031
Single Operator Low Power KH6CJ 459,576
Single Operator QRP DU1AJ 897
Single Operator Unlimited, High Power ZL3IO 1,311,177
Single Operator Unlimited, Low Power YB1ALL 31,248
Single Operator 80 Meters KH6QJ 1,302
Single Operator 40 Meters DU9XO 20,160
Single Operator 20 Meters WH7GG 105
Single Operator 15 Meters KH7Y 521,460
Single Operator 10 Meters KG6DX 103,824
Multioperator, Single Transmitter, High Power KH7X 6,626,124
Multioperator, Two Transmitters KH6LC 8,036,280

Oceania

By David Burger, VK2CZ/K3HZ

Best ever participation, but still the number of QSO's and scoring remain below the 2001 levels!!



The 2012 ARRL DX SSB event had the highest ever participation level from Oceania. The standout increases were witness from the VK (Australian) and YB (Indonesian) stations! These can be seen from the historical graphic.

The number of fresh Oceania entities had also been activated this year, with KHØ and T88 participating for the first time in over 12 years. A big thanks to those

The following stations participated from Oceania:

Call	Score	QSOs	Mult	Category
KH7X	6,626,124	6891	324	MS-HP
DU1HR	30,294	202	51	MS-HP
KH6LC	8,036,280	8561	315	M2
DU1AJ	897	23	13	SOAB-QRP
KH6CJJ	459,576	989	156	SOAB-LP
DV1JM	33,210	211	54	SOAB-LP
VK4ATH	15,510	95	55	SOAB-LP
YB2LSR	7,452	70	36	SOAB-LP
YB1TJ	7,344	73	34	SOAB-LP
YB3IZK	7,104	66	37	SOAB-LP
YBØCOU	7,011	58	41	SOAB-LP
DU1LC	5,661	115	17	SOAB-LP
YC2FAJ	4,368	61	28	SOAB-LP
ZL2MM	2,475	33	25	SOAB-LP
YB7SKM	2,109	37	19	SOAB-LP
VK3TCX	1,275	25	17	SOAB-LP
AHØ/AE6YW	1,260	28	15	SOAB-LP
DU7/KDØJJO	1,215	29	15	SOAB-LP
VK1XYZ	798	19	14	SOAB-LP
VK3NRW	495	17	11	SOAB-LP
YC6EI	384	16	8	SOAB-LP
VK7GM	297	11	9	SOAB-LP
VK7ZE	437,031	995	147	SOAB-HP
NH2T	384,912	800	162	SOAB-HP
ZL2GQ	270,396	824	111	SOAB-HP
VK3TDX	146,046	483	101	SOAB-HP
9M6XRO	129,774	504	86	SOAB-HP
VK5ZK	45,600	200	76	SOAB-HP
T88TW	31,845	206	55	SOAB-HP
VK3AVV	18,720	104	60	SOAB-HP
VK4GH	16,500	100	55	SOAB-HP
KH6OA	3,225	43	25	SOAB-HP
VK4VI	1,653	31	19	SOAB-HP
VK4IU	390	13	10	SOAB-HP
YB1ALL	31,248	255	42	SOU-LP
YBØMWM	6,240	70	32	SOU-LP
DU7HF	5,208	64	28	SOU-LP
YB9WZJ	4,050	54	25	SOU-LP
YB2ECG	2,400	40	20	SOU-LP
YB3JBJ	567	21	9	SOU-LP
YD1EGP	90	7	5	SOU-LP
YD2TDA	90	6	5	SOU-LP
ZL3IO	1,311,177	2177	203	SOU-HP
VK4QH	697,200	1182	200	SOU-HP
DU1IVT	63,648	421	51	SOU-HP
YC1BTJ	5,625	77	25	SOU-HP
DU1/JJ5GMJ	270	10	9	SOU-HP
KG6DX	103,824	832	42	SO-10
FO5QB	94,521	649	49	SO-10

VK4LAT	58,179	456	43	SO-10
YBØNSI	2,772	86	11	SO-10
YCØOHG	165	12	5	SO-10
KH7Y	521,460	2925	60	SO-15
WH7Z (WØCN, op)	363,912	2060	59	SO-15
E51YNB (N6NB, op)	248,820	1436	58	SO-15
VK3GK	40,260	305	44	SO-15
YB1AR	33,285	337	35	SO-15
DU1AV	16,038	203	27	SO-15
DU1JI	12,852	207	21	SO-15
YB8EL	7,176	106	23	SO-15
YB1UUN	3,060	60	17	SO-15
YB1HK	1,209	32	13	SO-15
YCØQR	1,209	34	13	SO-15
YC1ELI	621	23	9	SO-15
YB7MRK	315	15	7	SO-15
YB1XFO	264	11	8	SO-15
WH7GG	105	7	5	SO-20
DU9XO	20,160	215	32	SO-40
YC2WBF	1,872	42	16	SO-40
VK3VTH	1,710	30	19	SO-40
YB6EN	1,110	39	10	SO-40
YC9CT	1,044	32	12	SO-40
YB1BGI	510	20	10	SO-40
YD1BSL	84	7	4	SO-40
KH6QJ	1,302	32	14	SO-80

Activated Entities @ Oceania

Prefix	Entity	2004	2005	2006	2007	2008	2009	2010	2011	2012
3D2	Fiji		1							
4W	Timor Leste									
9M6	East Malaysia			1	check	1	1		2	1
A3	Tonga		1		1					
DU	Philippines	7	4	3	4	2	4	7	12	11
E51	South Cook Isl.									1
FK	New Caledonia	1		1						
FO	Tahiti						1	1	1	
JD1/M	Minami Torishima									
KH0	Mariana Islands									1
KH2	Guam		1	1		1	2	1	2	
KH6	Hawaii	6	9	5	11	10	11	11	11	8
P29	Papua New Guinea								1	1
T31	Central Kiribati									
T32	Kiribati									
T8	Palau									1
V73	Marshall									
V85	Brunei							1		
VK	Australia	6	4	4	2	4	15	14	13	16
YB	Indonesia	7	8	5	7	10	8	12	20	30
ZK2	Niue Islands		1							
ZL	New Zealand	3	4	6	4	4	5	5	5	3

Soapbox

9M6XRO. My Rig: Transceiver Yaesu FT-1000MP and Quadra Linear Amplifier @ 400w Antennas @ 27m (HF) 2-el Lightning Bolt Quad (LF) Butternut HF2V Vertical Almost no propagation to the East Coast even on 20m. My evening SP to NA just did not happen on either day. Disappointing condx this close to the equinox. Thanks and 73 from Borneo to the Contest organisers and all participants....9M6XRO.

AH0/AE6YW. I enjoyed the contest in Saipan Is. C.N.M.I....AH0/AE6YW.

DU7HF . Icom IC 725, 70 watts, with inverted vee wire antenna, 5m up. I Heard Many W/VE Station Big Signal, Very Fantastic!....DU7HF.

E51YNB. Location was Rarotonga, South Cook Islands....E51YNB.

KG6DX. Disturbed conditions to the U.S. from Guam, Only worked one W1 and one W2 area station, no VE 1,2,or 3 areas worked....KG6DX.

KH6QJ. Thanks for a Great Contest....KH6QJ.

T88TW. T88 is working great!....T88TW.

VK3NRW. Was fun but bands were terrible and noise level 9+..Will be in it again next year....VK3NRW.

VK3TDX. Not many hours of band openings here to NA but 20 meter long path was a ball. Thanks for another great contest....VK3TDX.

VK4LAT. Single band 10m entry, good strong openings to USA and Canada many reports 10-20+ each way, used IC-756II 100w 8ele Yagi on 60ft boom at 48ft high....VK4LAT.

YB1AR. 15M band is short open only morning in YB land....YB1AR.

YB3IZK. Tnx for all Station North America 73 bye....YB3IZK.

YCØQR. I've already tried to work with all states but it's my destiny - the propagations were bad, only worked with a few states. Hope I have another chance to reach credit for WAS....YCØQR.