

The 2013 ARRL International DX Contest CW Results

This was an interesting year, starting with unfounded propagation concerns and ending with photo finishes and record scores.

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Just hours before the kickoff of the 2013 ARRL International DX Contest CW weekend, a large meteor blazed across the daytime sky over Russia's Ural Mountains and exploded. The shockwave broke windows, damaged buildings and injured hundreds. Not long after that incident and fewer than 5 hours before the contest starting bell, Asteroid 2012 DA14 streaked past Earth in a record-setting near-miss flyby. Rumors that these two events portended ominously for the contest turned out to be unfounded.

The *real* blast and record-setting began February 16 at 0000 UTC, when the bands exploded with the activity of thousands of hams around the globe, enjoying what turned out to be marvelous conditions. More than 4100 logs were submitted, scores by and large were substantially larger than last year's and participants set some new records.

Among the more thrilling results were the astonishing razor-thin margins between

HK1NA and PJ4X for the top two spots in the DX Multioperator High Power category, and between TI5W and VP2ME in the DX Multioperator, Two Transmitter category. In addition, Scott, KØDQ, established yet

another W/VE benchmark in the Single Operator, High Power category. The drama in most other entry categories on either side of the contest was greatly subdued, with clear winners claiming most top spots.

Propagation Worries

A day before the contest spaceweather.com reported that the Polar Light Center in Norway observed a magnetic storm that caused wild swings in the local magnetic field and "some fantastic auroras" overhead. As it turned out, *no* storms occurred during the contest.

With a sunspot number of 25, a solar flux around 100 and an A index of 10 as zero hour approached, conditions appeared favorable for 20, 40, 80 and 160, not so much for 15 and — even worse — 10 meters. As it turned out, operators on both sides of the competition often found 15 meters most productive. Stations in Asia and Oceania were scarce this year among the leaders.

The Bands Are Open Online

The online extended version of WW1ME's write-up includes more details about the leaders in each category, many more photos, and sidebars about a remotely-operated multi-multi, how KØDQ pulled off his record-setting win, the inside story about those photo-finish DX multiops, operating from a kitchen in the South Pacific and more personal stories. See you there!

Sponsored Plaque Winners

Thanks to the generous sponsorship of numerous clubs and individuals, we are pleased to announce the winners of a sponsored ARRL DX CW plaque. The ARRL wishes to thank the plaque sponsors for their continued commitment to the ARRL Plaque Program. Without their support and dedication, the Plaque Program would not be possible. Unsponsored plaques may be purchased by the plaque winner. If you wish to purchase an unsponsored plaque or order a duplicate plaque, contact ARRL Contest Branch Manager Mike DeChristopher, N1TA at (860) 594-0232 or by e-mail at n1ta@arrl.org. The cost for plaques is \$75 (includes shipping).

Plaque Category	Plaque Sponsor	Mode	Winner
W/VE 1.8 MHz CW	Jerry Rosalius, WB9Z	CW	W4ZV
W/VE 21 MHz CW	Carl Luetzelschwab, K9LA	CW	K3RV
W/VE 28 MHz CW	Richard Bennett, KØXG	CW	K2SSS
W/VE Single Operator Low Power CW	Andy Faber, AE6Y	CW	N1UR
W/VE Single Operator QRP CW	Sean Kutzko, KX9X	CW	K3PH
W/VE Single Operator Assisted, High Power CW	Harold Ritchey, W3WPG Memorial	CW	K3WWW
World Single Operator High Power CW	North Jersey DX Association	CW	6Y2T (VE3DZ, op)
Europe Single Operator High Power CW	Jim George, N3BB	CW	CR2X (OH2UA, op)
North America Single Operator High Power CW	Potomac Valley Radio Club	CW	6Y2T (VE3DZ, op)
World 1.8 MHz CW	Fred Race, W8FR, In Memory of DL1FF	CW	S59A
World 14 MHz CW	Jeff Hartley, N8II	CW	FY5KE (F6FVY, op)
World 21 MHz CW	Caribbean Contesting Consortium PJ2T	CW	J35X
World 28 MHz CW	W7EW / W7AT	CW	CR1Z (OH2BH, op)
World Single Operator QRP CW	Jerry Griffin, K6MD/DK6MX	CW	GJ2A (MJØASP, op)
World Single Operator Assisted, High Power CW	Southern California DX Club	CW	CE3CT (LU5DX, op)
World Multioperator Single Transmitter, High Power CW	John Patterson WCØW/V31TP	CW	CR3A
World Multioperator Unlimited CW	H Stephen Miller NØSM	CW	HK1NA
Great Lakes Division Single Operator CW	North Coast Contesters	CW	N8AA
Japan Single Operator Low Power CW	Western Washington DX Club	CW	JH4UYB
Seventh Call Area Single Operator High Power CW	Willamette Valley DX Club	CW	N9RV
Canada Single Operator Low Power CW	Contest Club Ontario	CW	VE1RQB
Pacific Division Single Operator Low Power CW	Central California DX Club, Inc. W6MEL	CW	K7ACZ
Central Division Single Operator High Power CW	Northern Illinois DX Association	CW	K9NW
Pacific Division Single Operator 20 Meters CW	Jim Davis, NN6EE	CW	N6LL
World Multioperator, Single Transmitter, Low Power CW	John Patterson WCØW/V31TP	CW	V31TP
Asia Single Operator QRP CW	Sean Kutzko, KX9X	CW	JQ1NGT

W/VE Single Operator

Scott, K0DQ, doesn't believe in "close enough." Far out in front in SOHP with 6.58 million points in 2012, he was still just shy of the 6.588 million point record. Once again operating SO2R from the WW1WW "Battleship New Hampshire" superstation, he soldiered on (or, in Scott's case, perhaps we should say "sailed on") to 5170 contacts with 524 multipliers for 8.08 million points. Forty meters was his money band with 20 and 15 not far behind.

His 2013 score not only breaks the previous W/VE SOHP record but sets an all-time record for a CW single operator for both W/VE and DX, topping PJ4A's 2011 score (RD3A, op) of 7.48 million points. From his perspective, the biggest difference was propagation.

Picking off the top spot in the SOLP category was Vermont's N1UR, who pulled way ahead in the crowd of 432 contestants, racking up 3224 contacts with 429 mults for 4.11 million points. Battling illness last year, Ed still managed a strong second place finish; this time he dominated once more, beating his old first district record of 3.47 million points, set in 2011, but still falling short of the overall 4.24 million point SOLP record that N2NL set from K4XS in 2001.

Once again leading the flea power (SOQRP) crowd was Bob, K3PH, in Eastern Pennsylvania, who edged out John, W2ID in Northern New Jersey for the top spot, 1.1 million to 1.09 million points. Bob logged 1168 contacts with 315 mults, while W2ID had 1159 contacts with 313 multipliers — close in anyone's book!

W/VE Single-Operator Unlimited

Going head to head for another year were Eastern Pennsylvanians (and fellow FRCers) Chas, K3WW and Bud, AA3B in the SOUHP category. K3WW prevailed once

Top Ten — DX

Single Operator, High Power	Single Operator, 10 Meters	Single Operator, 80 Meters	Multioperator Two Transmitters
6V2T (VE3DZ, op) 6,739,200	CR1Z (OH2BH, op) 314,529	C6APG (K4PG, op) 241,338	T15W 9,492,102
ZF2AM (K6AM, op) 6,379,800	EA8CN 251,871	F5CQ 135,432	VP2ME 9,461,772
TO5X (R5GA, op) 6,267,861	XQ1KZ 241,164	E71A 109,074	PJ2T 8,617,176
CR2X (OH2UA, op) 5,916,003	CE3DNP 195,576	DM7C (DL6CX, op) 103,350	TM6M 7,053,984
6V7S (RK4FF, op) 4,727,709	LU6UO 171,216	CO3IT 100,128	KH7X 6,847,995
PY2NDX 3,965,826	LW8DQ 169,455	UU7J (UU0JM, op) 93,933	EF7X 5,878,152
NP2N (W2VJN, op) 3,846,456	PY2MTS 160,272	YU0T 92,448	M5E 5,522,457
G6PZ (GI0RTN, op) 3,620,295	PS2R 120,726	HA8A (HA8DZ, op) 92,160	OL7M 4,500,876
DL6FBL 3,589,074	LU5FR 114,345	OK1IC 91,953	DL1A 3,996,342
9A6XX 3,552,660	CT1AOZ 89,964	CO8ZZ 89,352	DR4A 3,654,384
Single Operator, Low Power	Single Operator, 15 Meters	Single Operator, 160 Meters	Multioperator, Unlimited Transmitters
P40W (W2GD, op) 5,223,456	J35X 302,064	S59A 56,304	HK1NA 10,696,152
VP9/W6PH 4,056,156	KL7RA 289,674	YU7AV 34,770	PJ4X 10,638,459
EF8R (EA8RM, op) 3,766,116	C6ASP (PY2BK, op) 228,969	SV3RF 33,720	KH6LC 7,194,795
J88DR (G3TBK, op) 3,732,183	S50K (W6KW, op) 218,022	DJ0MDR 30,894	9A1A 5,853,960
HQ2N (JA6WFM, op) 2,716,623	S50K 214,368	CO6LP 21,645	LZ9W 4,511,367
MD2C (MD0CCE, op) 2,196,150	OT1A (ON4CCP, op) 202,188	OK2W 19,530	HA30S 3,665,310
PY2YU 1,694,115	TM0R 188,271	LY7M 16,833	JA3YBK 2,834,166
PY2NY 1,253,079	EA8NC 187,758	OK1AXB 15,456	JE12WT 1,443,918
F6EYB 1,094,016	Single Operator, 20 Meters	UY0ZG 9,144	9A5CW 131,040
Single Operator QRP	FY5KE (F6FVY, op) 394,887	EW1DO 5,874	Multioperator, Single Transmitter, Low Power
GJ2A (MJ0ASP, op) 728,739	CE1/K7CA 275,268	Single Operator Unlimited, High Power	V31TP 5,653,260
VQ5RP (K0UU, op) 479,220	OH8X (OH6KZP, op) 239,058	CE3CT (LU5DX, op) 3,424,065	P49V 4,450,797
HB9BMY 380,460	C6AZZ (KQ8Z, op) 238,242	SN7Q 2,973,267	PY1SL 1,614,750
OK3C (OK2ZC, op) 360,570	9A3TR 232,812	DL5AXX 2,863,950	3D2RX 1,489,665
HI/K8MR 302,940	OK7K (OK1GK, op) 225,378	IR2C (IK2JUB, op) 2,794,806	OL1C 1,024,632
YU0W 280,449	OH8R (OH8WWW, op) 209,304	II9P (IT9GSF, op) 2,715,282	S50XX 1,009,086
F/E73CQ 192,852	S53MM 205,542	G9W (M0DXR, op) 2,576,286	LZ9R 402,150
G4DBW 145,536	5C5W (ON5ZO, op) 2,200,752	HB9FAP 2,364,600	5C5T 367,200
UU2CW 144,324	EA77G 1,847,316	OQ5M (ON5ZO, op) 2,200,752	YE1ZAT 153,780
EA7AAW 127,368	OH8L (OH8LQ, op) 201,318	EA77G 1,847,316	DK5TX 89,544
	Single Operator, 40 Meters	OL5Y 1,774,404	Single Operator Assisted, Low Power
	C6AKQ (N4BP, op) 326,598	Multioperator, Single Transmitter, High Power	KP4EE 4,352,616
	EA8CMX (OH2BYS, op) 288,840	CR3A 6,551,010	S53F 1,521,795
	CQ8X (OH2PM, op) 270,396	P40L 6,511,512	GI0RQK 1,432,458
	YU1LA 262,218	KP2M 5,955,672	EC4TA 1,306,818
	S57AL 229,158	KP3Z 5,470,575	DK5DQ 1,063,620
	E77W 227,430	XE7S 5,384,610	H13TT 811,797
	S50C (S53RM, op) 219,066	VP5S 5,029,065	SP1NY 799,008
	S57Z 218,709	EF8USA 4,555,524	HA6NL 666,855
	EF8N 199,056	E17M 4,287,825	OK6Y (OK2PTZ, op) 605,655
	SN3R (SP3HRN, op) 196,968	LX7I 4,284,960	LU7HZ 482,664
		EA5RS 3,921,876	

W/VE Single Operator Region Leaders

Boxes list call sign, score, and power (A = QRP, B = Low Power, C = High Power).

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Central Region (Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South and Greater Toronto Area Sections)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections)		
K0DQ 8,084,796 C			VB3E (VE3AT, op) 4,693,380 C			K5GN 5,579,925 C			N9RV 4,379,625 C		
K3CR (LZ4AX, op) 7,134,810 C			N8AA 3,963,360 C			N2IC 5,259,366 C			W6YI (N6MJ, op) 3,859,728 C		
N2NT 6,906,060 C			K8GL 3,472,896 C			K5WA 3,928,905 C			K6XX 2,756,073 C		
VY2TT (K6LA, op) 6,722,772 C			K9NW 3,351,765 C			(AD5Q, op) 3,699,810 C			K7RAT (N6TR, op) 1,054,920 C		
NN3W 6,338,514 C			K1LT 2,995,272 C			K0RF (W0UA, op) 3,649,878 C			K6NR 1,000,350 C		
N1UR 4,110,678 B											
K3AJ 1,618,650 B			N4TZ 3,061,056 B			N5AW 3,024,120 B			N7ZG 1,234,341 B		
K1VSJ 1,477,701 B			NA8V 2,382,615 B			W0UO 1,742,895 B			K7BG 1,225,269 B		
W1JQ 1,346,748 B			N9CK 1,912,950 B			NA0N 1,021,293 B			WJ9B 857,805 B		
VE1RGB 1,153,848 B			KV8Q 1,142,712 B			W0ETT 673,182 B			N6RV 741,426 B		
			WB8JUI 754,728 B			WD5K 661,200 B			VE6EX 627,450 B		
K3PH 1,099,980 A											
W2ID 1,080,789 A			VA3SB 790,938 A			K0OU 362,082 A			N7IR 577,404 A		
N1IX 816,024 A			KT8K 458,880 A			VE5VA 81,312 A			W6JTI 464,928 A		
K8CN 772,200 A			W8RTJ 365,484 A			N8LA 30,240 A			W6QU (W8QZA, op) 217,752 A		
N1TM 619,776 A			WA8REI 214,230 A			NT0Z 22,515 A			KM6Z 149,985 A		
			VE3HG 160,272 A			WA5RML 20,520 A			WA6DBC 111,750 A		

Top 10 — W/VE

Single Operator, High Power		Single Operator Unlimited, Low Power		Single Operator, 40 Meters		Multioperator, Single Transmitter, Low Power	
KØDQ	8,084,796	K4XS	4,616,514	W7WA	338,724	K2PO	1,966,536
K3CR		W3KB	2,373,030	W3BGN	192,276	VE9ML	1,862,574
(LZ4AX, op)	7,134,810	WD4AHZ	2,116,500	N6MA	191,808	W3YI	548,301
N2NT	6,906,060	WO1N	2,088,801	K9NR	188,376	VA7DZ	450,177
VY2TT		WW3S	1,940,400	VE6WQ	179,118	KØUK	357,048
(K6LA, op)	6,722,772	W9XT	1,766,937	N7WA	172,320	W3WN	180,297
NN3W	6,338,514	N5DO	1,674,090	K7WP	163,116	WDØGT	158,412
K1ZZ	6,332,172	WE9R	1,396,236	WA1FCN	161,925	W1TM	54,693
K5GN	5,579,925	KE7X	1,349,400	W8WA	88,800		
N2IC	5,259,366	K2ZC	1,284,981	K4VU	77,034		
AA1K	4,904,256						
WC1M	4,755,195						
Single Operator, Low Power		Single Operator, 10 Meters		Single Operator, 80 Meters		Multioperator, Two Transmitters	
N1UR	4,110,678	K2SSS	220,320	W1MK	286,650	N3RS	11,809,854
N4TZ	3,061,056	W3EP	166,725	WX4G	166,608	NY4A	10,990,662
N5AW	3,024,120	WB9Z	136,890	N3IQ	154,704	K5GO	10,811,604
NA8V	2,382,615	K2PS	108,612	KØKT	72,210	K9CT	9,855,360
N4YDU	2,111,910	K6TA	104,640	K3JGJ	65,268	VE3JM	9,612,504
N4UA	2,108,832	VE3KZ	102,573	W1MO	63,156	W4RM	9,086,220
N9CK	1,912,950	N4OX	88,740	W1XX	56,628	KB1H	8,933,604
WØUO	1,742,895	K4WI	81,198	N8II	49,536	K4TCG	7,215,831
K3AJ	1,618,650	N2WN	67,392	VE3OSZ	49,446	K2AX	5,902,671
K1VSJ	1,477,701	K9WZB	59,976	K9KU	48,348	W7RN	5,162,289
USCW Single Operator, QRP		Single Operator, 15 Meters		Single Operator, 160 Meters		Multioperator, Unlimited Transmitters	
K3PH	1,099,980	K3RV	643,926	W4ZV	83,808	K3LR	18,046,977
W2ID	1,080,789	K1IG	615,942	W4SVO	40,635	W3LPL	17,296,773
W9WI	976,950	KD2RD	540,756	N4XD	34,404	K1LZ	15,810,600
N1IX	816,024	N4PN	531,573	W8TOP		NR4M	14,169,168
VA3SB	790,938	K9OM	429,948	(W8UVZ, op)	29,484	NQ4I	13,774,563
K8CN	772,200	N7AT		W2MF	16,995	WK1Q	11,852,292
N4CW	759,600	(K8IA, op)	397,872	W3GH	16,854	WØAIH	7,264,770
N1TM	619,776	NE8P	393,366	N7GP	11,070	K1RX	6,021,432
N7IR	577,404	N2WQ/VE3	358,455	NØTT	9,828	N6RO	5,886,609
W6JTI	464,928	K4FJ	356,304	K4EJQ	8,103	K1KI	5,755,263
		W5TM	280,692	N2GC	7,965		
Single Operator Unlimited, High Power		Single Operator, 20 Meters		Multioperator, Single Transmitter, High Power			
K3WW	7,783,977	K2XA	656,544	W2FU	9,055,458		
AA3B	7,204,194	N2PP	530,424	W2RE	8,527,356		
K5ZD	6,693,312	N4TB	470,322	K2QMF	5,944,560		
K1AR	5,464,800	N4ZZ	360,600	K8AZ	5,883,768		
N3RR	4,293,168	WØEWD	261,096	K5TR	4,648,518		
N2MM	4,275,534	N8AGU	260,580	K1HI	4,373,460		
N8BJQ	3,502,680	W9ILY	247,848	N3BNA	3,974,940		
W1GD	3,344,229	K9IL	138,699	K5RX	3,580,962		
N2SR	3,339,708	K5JTD		KØTV	3,567,174		
KØ7AA	3,225,150	(HK1A, op)	132,066	NØNI	3,130,116		
		WR2G	112,992				



Vassilis, SV1DPJ, was Single Operator Unlimited, High Power from the Radio Association of West Greece contest station SZ1A. Kostas, SV1DPI, reports that Vassilis had “a great time and made a great score,” possibly a record from Greece. His official tally was 913,824 points (1354 contacts with 228 mults). [Kostas Stamatias, SV1DPI, photo]

W/VE and DX Single-Band Entries

To paraphrase Clint Eastwood’s “Dirty Harry” character, contesters gotta know their limitations *and* those of their stations, but they have to know the *strengths* of both as well. Not everyone can field a bodacious DX contest signal on *every* band, but some otherwise modest setups do excel on one or two bands. Enter the Single-Banders! Each band’s winning stations are listed in the Top 10 Single Operator, Single Band tables and, of course, the extended version of this article features much more about all single-band categories.

DX Single Operator

Stations in North America again took the top three places in the SOHP category from the DX side. The top two stations flipped positions from 2012. Jamaica’s 6Y2T with Yuri, VE3DZ, at the helm, took the top spot this year in a close race, posting 6.74 million points, while ZF2AM, piloted by John, K6AM, was a close second from the Caymans with 6.38 million points. Yuri had 115 more contacts and one more multiplier, although the record of 6.8 million points that John set last year stands.

Dropping back by approximately 12 dB did not seem to hurt contesting pro John, W2GD, who ran up 5.2 million points at P4ØW to lead a crowded DX SOLP category, in the process topping his own South American record of 4.77 million points set in 2004.

Just two operators who were in last year’s Top 10 in the challenging SOQR category repeated this year, and only one was at the same station. Eight of the Top 10 stations were in Europe this year; the other two were in North America — quite a change from the geographical distribution in the other SOAB sub-categories. Well ahead of the pack in the top spot was GJ2A on Jersey (Island, not

again, racking up 7.8 million points to AA3B’s 7.2 million. Chas made 4757 contacts with 551 mults, while Bud compiled 4510 contacts with 534 mults.

Only two of the top five finishers from 2012 showed up in the top five for SOULP this year, and neither managed to snag top honors. This time around Bill, K4XS, in Northern Florida, succeeded with 4.6 million points (2914 contacts with 531 mults).

W/VE Multioperator Roundup

In the Multioperator, Single Transmitter, High Power category, the operators at W2FU in Western New York pulled off the win with 9.06 million points. Repeating this year in second place, the W2RE team in Northern New York was not too far off the mark with 8.53 million points — the biggest deciding factor likely being the 20 additional mults the W2FU team logged (the two teams were just 110 contacts apart).

In the MS Low Power category, which attracted just eight entries, K2PO vanquished the field with an impressive 1.97 million points. That’s nearly 1 million points ahead of the W1TM first place finish in 2012.

The Multioperator, Two Transmitter category saw the superb N3RS team in Eastern Pennsylvania repeat in the top spot with 11.81 million points. This was about 1 million ahead of last year’s finish and bests the N3RS Third District record of 11.5 million set in 2001.

Within a shallow 15-entry field in the Multioperator, Multitransmitter category, the competition once again focused on the Battle of the Titans, pitting the team at K3LR in Western Pennsylvania against the equally talented W3LPL crew in the Maryland-DC Section. In a turnaround from 2012’s MM battle, the K3LR team this time overtook the W3LPL ops by a healthy 750,000 point margin, setting a new world record in the process.

The K4VV team placed just 13th out of the pool of competitors this year, but its style of operation may set a new trend in MM contesting. K4VV consisted of three operators at four discrete locations in different states! Team member Mike, WØYR, reported that things went “very, very well!” Read all about it in the online sidebar “K4VV Remote Contest Station Maiden Voyage.”

Continental Leaders

Class	Call	Score	Class	Call	Score
Africa			North America		
Single Operator, High Power	6V7S (RK4FF, op)	4,727,709	Single Operator, High Power	6Y2T (VE3DZ, op)	6,739,200
Single Operator, Low Power	EF8R (EA8RM, op)	3,766,116	Single Operator, Low Power	VP9/W6PH	4,056,156
Single Operator Unlimited, High Power	CT3BD	4,320	Single Operator, QRP	VQ5RP (K0UU, op)	479,220
Single Operator Unlimited, Low Power	CN8WW	277,140	Single Operator Unlimited, High Power	KL2R (N1TX, op)	775,890
Single Operator, 10 Meters	EA8CN	251,871	Single Operator, 10 Meters	V31YN (DJ4KW, op)	60,444
Single Operator, 15 Meters	6W/HA0NAR	226,896	Single Operator, 15 Meters	J35X	302,064
Single Operator, 20 Meters	5C5W (CN8KD, op)	201,666	Single Operator, 20 Meters	C6AZZ (KQ8Z, op)	238,242
Single Operator, 40 Meters	E48CMX (OH2BYS, op)	288,840	Single Operator, 40 Meters	C6AKQ (N4BP, op)	326,598
Multioperator, Single Transmitter, High Power	CR3A	6,551,010	Single Operator, 80 Meters	C6APG (K4PG, op)	241,338
Multioperator, Single Transmitter, Low Power	5C5T	367,200	Single Operator, 160 Meters	CO6LP	21,645
Asia			Multioperator, Single Transmitter, High Power	KP2M	5,955,672
Single Operator, High Power	5B/UW2M (UR0MC, op)	2,763,996	Multioperator, Single Transmitter, Low Power	V31TP	5,653,260
Single Operator, Low Power	JH4UYB	706,848	Multioperator, Two Transmitters	TI5W	9,492,102
Single Operator, QRP	JR4DAH	84,240	Oceania		
Single Operator Unlimited, High Power	JS3CTQ	1,108,530	Single Operator, High Power	ZL3IO	2,295,657
Single Operator Unlimited, Low Power	UA0IT	139,590	Single Operator, Low Power	VK7CW	181,440
Single Operator, 10 Meters	JA1BPA	46,956	Single Operator, QRP	N7ET/DU7	9,135
Single Operator, 15 Meters	RU0FM	152,790	Single Operator Unlimited, High Power	NH2T	1,259,298
Single Operator, 20 Meters	JF1NHD	135,432	Single Operator Unlimited, Low Power	KH6/W0ZT	83,385
Single Operator, 40 Meters	JA1XMS	91,260	Single Operator, 10 Meters	NH2DX (JG6DX, op)	85,104
Single Operator, 80 Meters	JH1AEP	21,312	Single Operator, 15 Meters	VK4TJF	19,224
Single Operator, 160 Meters	JA8NFV	1,056	Single Operator, 20 Meters	VK7GN	60,489
Multioperator, Single Transmitter, High Power	C4N	1,864,800	Single Operator, 40 Meters	KH7M (KH6ZM, op)	181,272
Multioperator, Two Transmitters	RT0C	1,659,792	Single Operator, 80 Meters	WB4JTT/KH6	55,008
Multioperator, Unlimited Transmitters	JA3YBK	2,834,166	Multioperator, Single Transmitter, Low Power	3D2RX	1,489,665
Europe			Multioperator, Two Transmitters	KH7X	6,847,995
Single Operator, High Power	CR2X (OH2UA, op)	5,916,003	Multioperator, Unlimited Transmitters	KH6LC	7,194,795
Single Operator, Low Power	MD2C (MD0CCE, op)	2,196,150	South America		
Single Operator, QRP	GJ2A (MJ0ASP, op)	728,739	Single Operator, Low Power	P40W (W2GD, op)	5,223,456
Single Operator Unlimited, High Power	SN7Q (SP7GIQ, op)	2,973,267	Single Operator, High Power	PY2NDX	3,965,826
Single Operator Unlimited, Low Power	S53F	1,521,795	Single Operator Unlimited, High Power	CE3CT (LU5DX, op)	3,424,065
Single Operator, 10 Meters	CR1Z (OH2BH, op)	314,529	Single Operator Unlimited, Low Power	LU7HZ	482,664
Single Operator, 15 Meters	TF3Y	222,666	Single Operator, 10 Meters	XQ1KX	241,164
Single Operator, 20 Meters	OH8X (OH6KZP, op)	239,058	Single Operator, 15 Meters	PX2C (PY2BK, op)	228,969
Single Operator, 40 Meters	CQ8X (OH2PM, op)	270,396	Single Operator, 20 Meters	FY5KE (F6FVY, op)	394,887
Single Operator, 80 Meters	F5CQ	135,432	Single Operator, 40 Meters	YV5OIE	36,378
Single Operator, 160 Meters	S59A	56,304	Multioperator, Single Transmitter, High Power	P40L	6,511,512
Multioperator, Single Transmitter, High Power	EI7M	4,287,825	Multioperator, Single Transmitter, Low Power	P49V	4,450,797
Multioperator, Single Transmitter, Low Power	OL1C	1,024,632	Multioperator, Two Transmitters	PJ2T	8,617,176
Multioperator, Two Transmitters	TM6M	7,053,984	Multioperator, Unlimited Transmitters	HK1NA	10,696,152
Multioperator, Unlimited Transmitters	9A1A	5,853,960			

Shore), with Mathieu, MJ0ASP, in the chair, posting a very respectable 728,739 points. Over the course of his 34 hours on the air, Mathieu capitalized on good conditions on 20, 15 and 10, and eschewed 160 altogether.

DX Single-Operator Unlimited

In a SOUHP field of nearly 350 entrants, the leader was from South America. CE3CT in Chile, operated by Argentine Martin, LU5DX, took first place with 3.42 million points. The rest of the Top 10 was in Europe.

Single Operator Unlimited, Low Power competitors had almost as large a field as their high power competition. Joachim, KP4EE, was king of the hill with 4.35 million points.

DX Multioperator Roundup

In the DX Multioperator, Single Transmitter, High Power race, the CR3A team earned the trophy with 6.55 million points. It was a tight race, however, with runner-up P40L falling short with 6.51 million points. The major difference was in contacts; P40L worked one more mult.

In the Multioperator, Single Transmitter, Low Power competition, the V31TP team scrambled to the top of the heap with 5.65 million points. Last year, V31TP placed second in the MSHP category. P49V repeated in second place with 4.45 million points, well short of their 2012 score.

It was another tight race to the top between the teams at TI5W and VP2ME in the DX Multioperator, Two Transmitter category. Final scores put the three-operator TI5W team at 9.49 million points, a mere 30,330 points up on the five operators at VP2ME. TI5W snagged just 10 more contacts but harvested one additional — and crucial — multiplier.

The claim to the DX Multioperator, Multi-transmitter crown turned on error rate. Claimed scores had PJ4X edging out HK1NA by 16,299 points in a battle for top honors. After log checking, the official score revealed that HK1NA had topped PJ4X by a more generous margin of 57,693 points — still close. The final tally had HK1NA with 10.7 million points and PJ4X with 10.64 million points.

If ever there was a dramatic demonstration that careful logging counts, this is surely it. While the PJ4X team's error rate was a highly respectable 0.8 percent, the HK1NA group held theirs to just 0.5 percent, "and that made all the difference," to paraphrase Robert Frost (see the online "Accuracy Leaders" tables for a closer look at this factor).

Logging Accuracy

In a contest such as this one, accuracy is important. It's no surprise that the scoring leaders and the operators with the best log-

ging accuracy coincide year after year. Scott, K0DDQ, not only repeated as Single Operator, High Power leader this year, but he also had the highest accuracy (see the "Accuracy Leaders" tables online), according to our calculated Accuracy Index. This index measures the accuracy of a particular operator's log, taking log size into account. Error rate, while a useful individual benchmark, does not, and error rates for logs containing greater than 100 contacts ranged as high as 29.7 percent on the W/VE side to 17.4 percent on the DX side.

On the DX side, let's not forget that the MM battle for supremacy hinged on error rate. PJ4X's error rate has always been good, but HK1NA won the trophy as a result of superb accuracy. Ditto for the TI5W and PJ2T teams. Yuri, VE3DZ, led the Single Operator accuracy index list from 6Y2T this year just as he did last time, despite being "sleep deprived."

Meteors, asteroids and solar flares aside, for those who have never dipped a toe in the water for this event, the ARRL International DX Contest (CW or phone) is a terrific opportunity to log some new ones, since DX participants *only* work the US and Canada. Even with a modest setup and no special contesting skills it is feasible to attain DXCC in a weekend! Mark your calendars for February 15-16, 2014!