

The 1999 ARRL International DX Contest CW Results

"This was one to remember"—NØUR

Sometimes it is hard to summarize an on-the-air-operating event briefly. But thanks to Jim Lageson, NØUR, it was easy to focus on what proved to be one of the more exciting ARRL International DX CW contests in recent years. Endangered scoring records, record participation, and great propagation all added up to lots of fun during one of Amateur Radio's premier events.

More than 1161 DX and 1021 W/VE stations submitted logs for this annual battle. With 48 hours on the clock, the winners are generally the ones with good planning, lots of stamina and maybe a healthy dose of "lady luck" in the shack. With the implementation of more thorough electronic log checking, the winners are also the ones who seem to take special care in data entry to go along with their demonstrated ability to copy higher speed CW.

After finishing second in 1998 and operating from his developing "super-station" on Cape Cod, K1ZM led the way of High Power W/VE single ops, setting a new scoring record in the process. Jeff's 4,566,039 points lead the way as four ops topped the old mark of 4,001,790 set in 1991. Congratulations to the quartet of K1ZM, K5ZD (W2SC, op), KQ2M, and N2NT—all of whom broke the old barrier.

Two ops also managed to break the old scoring record in the single-op-assisted category. Congratulations to new record holder K3WW with 4,763,799 points. He edged out KI1G 4,673,250 points, which was 68,676 more than the record which had existed since 1992. All W/VE single-band scoring records remained in tact, in spite of spirited challenges from many ops.

Stations and operators in each of the three W/VE multi-operator categories walked away having set new all-time marks. With a score of 4,514,112, the operators at the W3BGN multi-single stations now hold the record previously held by the K5ZD team of 1998. The K1AR multi-two team, operating this year at K1EA's home, continues to be record setters. They became the first group to top the 9 million-point barrier in this category, finishing with an outstanding score of 9,247,365.

Rounding out the record setting performances by multi-op stations was the gang at W3LPL, who fought it out with ops at

KC1XX. Both broke the 1992 scoring mark of 10,756,002. But when the dust settled, W3LPL's call goes into the record book with a score of 12,158,520. This category, which includes many of the best contest operators the US has to offer, will continue to receive great interest as the likes of K3LR, K1XM and K1KI continue to challenge. In fact, all 3 of the top finishers worked a DXCC on four bands, with W3LPL coming closest to a 5BDXCC, missing by only 16 entities on 80 meters.

Though no all-time scoring records were set on from the single op DX side of this contest, the competition remained heated on all fronts. The "battle of the Cayman Islands" became the battle for the champi-

onship in the low-power single-op category. ZF2NT with N6NT as the operator prevailed over ZF2MO, operated by KM9D. WP2Z with KE2VB at the key, finished strong and continues a string of outstanding contest finishes.

Three DX high-power single-op stations around the Caribbean and Central America, each with guest ops from the US, led the way in another exciting race. At the finish line, W2GD, operating P4ØW wins the slugfest on the strength of a score of 4,965,408, with WP3R (KE3Q, op) and 3E1CW (KD6WW, op) finishing second and third respectively. Not to be left out of the top honors, Europe can boast of GØTDX

Top Ten

W/VE Single Operator, QRP, CW

N7IR	516,132
N1TM	338,334
NØUR	306,180
N1CWR	284,208
AA1CA	281,934
W19WI	269,730
W8QZA/6	227,586
N6WS	216,756
KØNI	177,912
K5TT	165,996

W/VE Single Operator Assisted, CW

K3WW	4,763,799
KI1G	4,673,250
K2NG	4,181,814
N2MM	3,083,184
W2RE	2,837,604
AA3B	2,732,610
N2RM	2,319,678
K3PH	2,298,192
K1IR	2,093,184
K2NJ	2,063,376

DX Single Operator, QRP, CW

GØTDX	406,116
HA2SX	402,705
HP1AC	248,784
LU1FNH	242,406
DL3KVR	215,556
9A3RE	199,296
DL4FN	198,696
LY2FE	178,227
LY2BTA	157,920
F5OIH	147,420

DX Single Operator Assisted, CW

DK3GI	2,062,848
KH6RS	1,772,766
PA5KT	815,517
KH2/N2NL	811,200
OK1DG	555,540



Multi-Operator Single-Transmitter CW winner 8P9JA with operators Will, AA4NC and Jim, K4MA, hunkered down for the long haul.



Geoff, WØCG, one of the ops at Multi-Single second-place finisher VP5CW in the middle of a 201-contact run in the first hour of the contest.

Single Band Top Ten

W/V/E 160			W/V/E 40			W/V/E 15			DX 160			DX 40			DX 15		
WA8GHZ	15,006		K8DX	285,384		K2SS/1	605,790		S50U	16,128		C6AKQ	234,879		ZF1A	320,856	
K4TEA	11,484		KM2P	230,265		N8II	531,036		YZ6A	14,280		(N4BP, op)			(W5ASP, op)		
K5RX	7,035		KV0Q	229,353		K2WI	518,976		S57M	8,787		OK1RF	220,719		9A5Y	241,623	
K4RX	5,814		K4VX	216,132		W0UN	477,873		I3VHO	5,808		SN2B	191,868		(9A3LG, op)		
K1VW	5,670		(K9BGL, op)			(W0UA, op)			OK1TP	495		(SP2FAX, op)			KL7RA	240,012	
NX5M	3,948		NA5B	172,800		K0XG	447,531					OH2U	175,914		OT9A	221,502	
KZ5MM	3,159		(W5AO, op)			(K0RX, op)						(OH2LUR, op)			(ON5UM, op)		
K1KY	2,886		VE1ZJ	135,018		K2VV	423,384		DX 80			S57DX	165,312		T17/N4MO	218,370	
VE3DO	1,980		K7EM	106,470		(at K4VX)			OT9T	117,264		YU4WU	154,686		OH0JJS	209,322	
W2VO	1,872		N0AC	88,038		N0NR	389,844		TM6P	108,864		OH1JD	147,726		(OH6LI, op)		
			WB4OSN	71,820		N5DX	388,500		(F5MZN, op)			OM3A	135,261		MD/DL8WAA	208,626	
			W4JKC	68,400		N2MF	360,261		WP3C	68,649		(OM3CGN, op)			SP5GRM	199,080	
						N0NI	335,517		EA4AAK	58,422		9A4D	127,395		F5NBX	195,966	
									G3WGN	49,536		OK1DIG	127,020		OH6AC	191,520	
										46,305					(OH6CS, op)		
										MD/DL5LYM	44,892						
										DK8LV	44,415		DX 20				
										DF0KW	37,485		GM3POI	288,360		DX 10	
										JH1OGC	36,750		DJ7AA	210,276		LT1F	279,180
													IR2W	206,739		(LU5CW, op)	
													(IK2QEI, op)			RZ3AX	260,652
													S50K	197,664		HC2SL	230,454
													OH8LQ	190,980		F5IN	207,423
													LA9GX	183,141		DL1IAO	179,916
													OH6RX	176,436		LU9APM	175,938
													HG1R	162,516		ON4UN	164,082
													(HA1XU, op)			JL1ARF	146,550
													YU1ZZ	160,740		OH0MPO	146,496
													RZ9UA	153,720		(OH4JLV, op)	
																G3WVG	144,837

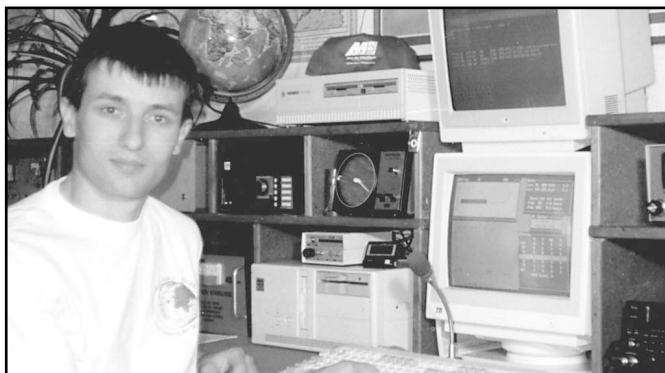
Top Ten

Band breakdowns show QSO/Multipliers

Call Sign	Score	160	80	40	20	15	10	Call Sign	Score	160	80	40	20	15	10
W/V/E Single Operator, Low Power, CW															
W2TZ	1,844,640	9/9	76/40	233/59	541/74	564/70	529/62	W3BGN	4,514,112	58/37	181/60	715/81	788/94	865/100	657/89
N8AA	1,676,700	20/15	84/43	171/62	343/74	487/77	516/74	W2AA (at N2TX)	3,560,121	31/26	149/62	444/79	717/94	492/95	810/93
VO1MP	1,427,688	0/0	132/52	288/53	480/71	330/75	276/65	AA2FB	3,275,832	26/24	103/54	475/82	651/88	693/97	568/89
K1NO (K5FUV, op)	1,378,944	15/14	77/38	237/57	540/74	316/60	327/61	N4RV	2,748,285	38/30	161/53	468/80	508/74	614/80	566/72
K4RO	1,378,026	24/19	71/46	199/65	280/67	391/72	394/69	W6XR	2,471,940	21/16	77/42	456/72	536/80	622/82	503/80
NA2U	1,136,220	2/2	13/13	226/62	264/63	454/74	347/76								
K4OGG	1,110,798	19/12	52/28	150/55	216/61	424/71	452/55	W/V/E Multioperator Two Transmitter, CW							
K1RO	1,108,554	0/0	32/19	106/43	288/65	444/72	464/78	K1AR (at K1EA)	9,247,365	35/30	316/731263/100	1357/112	1583/114	1251/102	
WO4O	1,101,420	0/0	43/25	215/55	311/73	340/66	357/71	K8AZ	6,497,778	38/28	169/66	850/90	889/104	1454/107	958/102
WD5K	1,074,528	0/0	80/38	135/54	217/71	415/74	301/75	K8LX	5,762,556	26/22	109/54	862/90	924/102	1311/108	890/90
								K9AA (at W9JA)	5,760,933	35/24	176/59	818/90	796/97	1308/111	876/98
								KB1H	4,532,526	21/20	173/64	648/86	747/89	1036/103	681/95
W/V/E Single Operator, High Power, CW															
K12M	4,566,039	37/32	293/62	853/78	646/89	655/86	983/91	W/V/E Multioperator Unlimited Transmitter, CW							
K52D (W2SC, op)	4,306,236	40/28	213/53	691/69	794/78	1014/90	801/86	W3LPL	12,158,520	123/57	468/841485/112	1562/123	1690/119	1382/109	
KQ2M	4,122,258	27/23	239/56	730/81	616/86	778/90	828/91	KC1XX	11,028,732	68/42	389/791374/102	1637/120	1618/122	1341/107	
N2NT	4,096,134	40/29	160/51	898/80	670/84	826/80	769/82	K3LR	10,375,095	78/42	305/751343/107	1312/116	1721/119	1362/106	
K1DG	3,995,850	21/21	182/56	666/83	757/85	795/91	713/89	K1XM	10,078,368	94/48	518/84	1048/94	1549/116	1803/116	1052/96
W4AN	3,968,250	34/27	192/55	743/76	615/82	795/87	871/80	K1KI	9,989,472	78/42	422/79	1199/79	1673/115	1530/113	1219/98
K1ZZ	3,881,001	46/29	141/51	498/69	811/93	754/81	913/86								
K3ZO	3,860,337	33/24	229/64	797/80	769/84	737/81	628/70								
N2LT	3,751,200	33/22	145/46	630/82	686/83	797/88	835/79								
K0DQ (at W4RX)	3,683,988	35/28	140/54	631/74	786/81	837/84	672/75								

Top Ten

Call Sign	Score	160	80	40	20	15	10	Call Sign	Score	160	80	40	20	15	10
DX Single Operator, Low Power, CW															
ZF2NT (N6NT, op)	3,679,680	216/46	500/52	639/55	812/58	838/57	828/52	DX Multioperator Single Transmitter, CW							
WP2ZZ (KE2VB, op)	3,173,712	169/35	253/47	466/49	524/53	1074/57	1088/55	8P9JA	5,403,942	286/49	470/58	879/59	1088/59	1145/59	1399/58
ZF2MO (KM9D, op)	3,013,590	217/45	446/51	559/54	571/55	638/56	799/50	VP5CW	5,040,846	364/50	535/55	975/57	908/59	1177/58	1027/58
VP2V/K1DW	1,917,993	52/19	156/29	360/43	622/55	539/52	798/55	V31TP	4,862,721	316/49	581/54	737/57	846/56	1286/57	1242/58
KH6/W6PH	1,714,581	0/0	86/30	592/55	531/55	590/57	478/54	KG4DZ	3,899,712	135/32	408/50	818/57	753/55	1042/56	1120/54
LZ0A (LZ2UU, op)	1,483,176	0/0	12/10	441/54	640/56	508/55	530/57	TM1C	3,753,783	119/30	429/45	618/53	920/56	1021/56	1106/57
NP2S (K3DI, op)	1,299,792	0/0	0/0	265/46	524/54	505/54	789/54	DX Multioperator Two Transmitter, CW							
EA7GTF	1,236,429	22/12	148/29	257/43	392/50	413/52	507/51	HC8N	8,440,950	436/54	868/58	1245/59	1564/59	1929/60	2010/60
S57J	970,725	0/0	35/18	205/41	408/52	395/55	462/49	V26O	7,525,485	387/51	692/57	1359/58	1449/59	1701/60	1683/60
8P9NX	943,299	0/0	92/28	367/46	359/46	490/53	141/44	6D2X	6,698,214	426/54	678/59	1568/60	1255/58	1567/59	959/56
								XA5T	5,922,000	431/50	729/57	1170/57	1223/58	1387/58	935/56
								G4BUO	4,238,208	63/32	304/48	985/59	974/59	1252/57	950/57
DX Single Operator, High Power, CW															
P40W (W2GD, op)	4,965,408	233/48	477/56	687/57	1058/58	1065/58	1406/59	DX Multioperator Unlimited Transmitter, CW							
WP3R (KE3Q, op)	4,561,680	270/48	358/52	707/58	911/58	832/57	1502/59	9A1A	4,148,004	161/37	450/53	971/60	1018/59	1003/58	691/55
3E1CW(KD6WW, op)	4,476,045	285/49	235/49	910/58	934/58	1105/57	1066/58	RW2F	4,052,664	84/27	297/46	942/59	1109/59	1015/59	938/58
KH7R (KH6ND, op)	3,638,196	156/44	401/53	724/57	541/55	856/57	1065/58	C6AKW	3,727,794	368/49	641/56	652/58	961/57	999/56	238/46
KH6X (K5NA, op)	3,294,951	195/44	372/53	489/52	615/56	752/56	1020/58	SK3GW	2,797,920	0/0	180/36	820/58	874/59	946/57	660/56
NH7A (KH6TO, op)	2,958,789	200/45	232/45	643/57	549/52	735/57	792/57	LY7A	1,781,532	2/2	121/29	437/56	761/56	768/58	325/45
G0IVZ	2,784,474	81/30	321/49	516/52	695/54	810/55	734/54								
SP7GIQ	2,645,214	50/15	307/48	607/56	643/55	614/55	862/57								
F6BEE	2,642,805	45/23	240/43	474/47	660/53	809/57	907/58								
DL5AXX	2,569,317	24/18	220/49	623/54	572/57	832/56	652/59								



F5NBX posted a Top 10 DX Single-Band 15-meter entry from this smart looking station.



JF2FIU proudly shares his love of the hobby with his son. Is this a new multi-op team in the beginning stages?

winning the tough DX single-op QRP category in a close finish with HA2SX—406,116 points to 402,705. Another European, DK3GI, takes home top honors in the

DX single-op assisted realm with a strong showing of 2,062,848 points.

Intense competition and some great strategies highlight the DX multi-operator category.

The multi-two operation at HC8N out QSO'd runner-up V26O on five bands to take home top honors with 8,440,950 points, and in the process upped the previous M2 record

1999 ARRL International DX Contest CW Plaque Winners

W/VE CW Single Operator

All Band	K1ZM	Frankford Radio Club
1.8 MHz	WA8GHZ	Butch Greve, W9EWC Memorial
3.5 MHz	W1MK	Thomas Rylander, SM3DMP
7 MHz	K8DX	Northern AZ DX Assn
14 MHz	K1TO	QSLs By W4MPY
21 MHz	K2SS/1	Carl Luetzelschaw, K9LA
28 MHz	WC4E	Green River Valley IL ARS
Low Power	W2TZ	Dauberville DX Assn
QRP	N7IR	Tod Olson, K0TO

Multi-Operator

Single Transmitter	W3BGN	Northern Illinois DX Assn
Two Transmitter	K1AR	Order of the Boiled Owls, W2AO Memorial
Unlimited	W3LPL	Alpha/Power, Inc

DX CW Single Operator

World	P40W	North Jersey DX Assn
Africa	EA8CN	Byron P. Peebles, Jr., NZ3O
Asia	C4A (5B4ADA, op)	Alamo DX Amigos
Europe	G0IVZ	Jerry Griffin, M.D., K6MD
North America	WP3R (KE3Q, op)	Potomac Valley Radio Club
Oceania	KH7R (KH6ND, op)	John Brosnahan, W0UN
1.8 MHz	S50U	Fred Race W8FR, DL1FF Memorial
7 MHz	C6AKQ (N4BP, op)	Thomas P. Gannon W3YX Memorial
14 MHz	GM3POI	Tom Frenaye, K1KI
28 MHz	LT1F (LU5CW, op)	Ft Wayne DX Assn
Low Power	ZF2NT (N6NT, op)	Jim Stevens, K4MA
QRP	G0TDZ	Jerry Griffin, M.D., K6MD
Assisted	DK3GI	Willamette Valley DX Club

DX CW—Multi operator Single Transmitter

World	8P9JA	John Brosnahan W0UN
Asia	JR1ZTT	Yankee Clipper Contest Club
Europe	TM1C	The Radio Place
North America	8P9JA	Caribbean Contesting Consortium

DX CW Multioperator Two Transmitters

World	HC8N	Frankford RC, Tom DeMeis K2TD Memorial
Europe	G4BUO	Jim George, N3BB
Oceania	no winner	Oklahoma Comm Center and AH9B
South America	HC8N	Northern Ohio DX Assn

DX CW Multioperator Unlimited

World	9A1A	H Stephen Miller, N0SM
Europe	9A1A	Texas DX Society
North America	C6AKW	Alpha/Power, Inc
Oceania	no winner	David Brandenburg, K5RQ
South America	no winner	David Brandenburg, K5RQ

Special Plaques

Atlantic Division CW	K3ZO	Salt Lake DX Assn, K2NY Memorial
Great Lakes Division CW	N9AG (at N8IR)	Livonia ARC
Japan All Band CW	JH4UYB	Akita DX Assn
Japan Low Power All Band CW	JH5FXP	Western WA DX Club
Seventh Call Area All Band CW	KC7V	Willamette Valley DX Club
Ninth Call Area All Band CW	W9RE	Northern Illinois DX Assn
Caribbean Multi-Single CW	8P9JA	The YASME Foundation

W/VE Region Leaders

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

CW

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			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/Yukon Sections)		
N1TM	338,334	A	N1CWR	284,208	A	W19WI	269,730	A	N0UR	306,180	A	N7IR	516,132	A
AA1CA	281,934	A	N4ROA	135,441	A	VA3SB	101,106	A	K0NI	177,912	A	W8QZA/6	227,586	A
W22T	141,120	A	K4GEL	99,186	A	K8UCL	32,184	A	K5TT	165,996	A	N6WS	216,756	A
K2JT	137,196	A	W4NI	21,624	A	K8CV	17,808	A	K0ZK	34,170	A	W6JVA	64,448	A
K3WWP	116,325	A	W4KYW	17,820	A	AF9J	15,552	A	WA0VBW	21,321	A	W6IO	55,890	A
W2TZ	1,844,640	B	K4RO	1,378,026	B	N8AA	1,676,700	B	WD5K	1,074,528	B	W6JTI	993,294	B
VO1MP	1,427,688	B	K4OGG	1,110,798	B	WB8YJF	1,042,494	B	W0UO	1,056,510	B	W7YAQ	891,462	B
K1NO (K5FUV, op)	1,378,944	B	WO4O	1,101,420	B	VA3RU	1,034,931	B	N5AW	990,522	B	K7ZA	710,424	B
NA2U	1,136,220	B	K5KLA	1,072,965	B	N9JF	943,944	B	N5DO	635,508	B	KN7Y	665,448	B
K1RO	1,108,554	B	WD4AHZ	1,006,155	B	K8EP	658,512	B	K5WO	550,464	B	N7AN	500,268	B
K1ZM	4,566,039	C	W4AN	3,968,250	C	W9RE	3,090,540	C	N2IC	3,425,760	C	W6AX	2,927,076	C
K5ZD (W2SC, op)	4,306,236	C	K0DQ (at W4RX)	3,683,988	C	N9AG (at N8NR)	2,097,900	C	K5YA	2,081,280	C	(N6IG, op at W6GO)		
KQ2M	4,122,258	C	N4AF	3,355,506	C	K9MA	1,783,848	C	N5CQ	1,375,470	C	K6LA	1,636,470	C
N2NT	4,096,134	C	K4AB	1,883,484	C	VE3KZ	1,285,920	C	N5PO	1,086,168	C	KC7V	1,554,060	C
K1DG	3,995,850	C	K0EJ	1,579,569	C	W9OP	1,113,525	C	K0CAT	1,034,838	C	K4XU/7	1,477,980	C
												W2VJN/7	1,477,008	C

of 8,011,644 set by the 6D2X entry in 1994. That's quite an accomplishment from an outstanding group of ops.

The stations at 8P9JA, VP5CW, and V31TP battled it out in the multi-single category. While each snared similar QSO and multiplier totals, on most bands, 8P9JA emerged as the winner, in part due to an excellent QSO total on 10 meters. Their 5,403,942 score missed the old mark set in 1990 by about 500K. Will this fall next year? Rounding out the DX multiop stations was the 9A1A win in the multi-multi category.

More detailed log checking was introduced to this year's contest. If you submitted an electronic log, you can receive a copy of your UBN by sending an email request to k5fuv@arrrl.org and including as the subject line your call sign and the words "UBN request DXCW." A couple of changes will affect entries for next year's event. If you use a computer to log the contest, you will be required to submit a copy of the log file for log checking purposes in the required ARRL file format. Look for more information on this in the upcoming "General Rules for all ARRL Contests," as well as the specific rules for this event for the year 2000.

Speaking of next year, the dates for the 2000 ARRL International DX CW contest

are set for February 19-20. With the excellent propagation expected to continue, it's a good bet that activity will continue to increase. Whether you are a die-hard con-tester looking to hunker down for the duration, or a casual operator who is looking for a couple of new DXCC entities, this event is a place to bring out the best in your operating skills. The 1999 running of the DX CW contest was one to remember for many, that's for certain. But start looking ahead now as you plan to make the year 2000 ARRL International DX Contest CW week-end your "one to remember."

Soapbox

After poor conditions at the start, I finally heard a loud European station in the passband. I worked him, QSYed up to the next clear spot, called CQ, and didn't move for about seven hours (N8II)... Conditions were good Saturday night, but my neighbor W4DR blew me away (W4HJ)...Great Contest! Results far exceeded my previous efforts or my expectations for this year (K1FFX)...Great to have the solar flux back (K0BJ)...Best I ever did from home in this contest. Had a ball! Managed to stay in the seat for 41.5 hours, but couldn't sleep much during off time (W1WEF)...First DX contest at a new QTH—rig on an old kitchen table and amplifier on an upside-down recycling bin (N2MF)...Murphy attacked with a vengeance this year. It started a week before the contest when a Nor'easter took out the rotor, the local packet node crashed three days beforehand, and during the contest the Henry 4K

amplifier tripping the HV overload. A thoroughly exhausting weekend for me but the ops here did a super job (W3PP)...Ten meters was so congested that at times I had to use my 250-Hz filter, just like 40 meters (W2YR)...The highlight of the weekend was working VR2BG on 80 meters at sunrise Saturday morning using only 100 W and a G5RV antenna (W9FX)...I'm amazed that I was able to break 1 million points with my little antennas (N5AW)...I was astonished at the number of requests for me to QSY to other bands. All requests were completed (VE9DX)...Outstanding openings on 10 and 15 all day to Europe and Russia on 20 meters (VE3KZ)...You could have worked Europe on a coat hanger on 10 meters Sunday morning. Thanks to all of the Caribbean stations who pulled out my weak signal on the Top Band. HC8N definitely had the best ears on 160 meters (K8EP)...The propagation at the start of the contest all of the way through Saturday was absolutely punk. Trying to run was hopeless (N0FW)...Excellent conditions. Was able to run on 10 and 15 and even for a bit on 20 meters (W19W)...I secretly wished for another radio and stacked beams, having been spoiled at AA4NU while being introduced to Single-Op Two-Radio (WO4O)...I was fascinated to read comments of those in the west who had good low-band conditions while in the northeast it was awful. I would have thought given the aurora and extent of the solar storm conditions would have been universally poor. Wonder what conditions will be next year? (KQ2M)...This was my first attempt at the DX contest. I was impressed with the abilities and responses of the operators—and their patience (W9QFV)...Enjoyed fine signals from the new QTH with temporary (wimpy) antennas. Had to go outside to swap antennas and change bands. High-lights? Busting HZ, 5H, TZ and EL pileups fairly quickly with the grounded-mounted vertical (N8SM).

Scores

Scores are listed by DXCC Countries and ARRL/RAC Sections. Within each Country or Section, scores are listed in descending order, by power categories, followed by multi-operators. Line scores list call sign, score, QSOs, multipliers, hours of operation (default is 48), power (A = QRP, B = Low Power, C = High Power), and band.

CW WVE Single Operator 1

Connecticut

N1TMM	338,334	527	214	48	A
NM1K	62,730	170	123	48	A
N1MT	44,550	165	90	48	A
K1NO (K5FUV, op)					
K1RO	1,378,944	1512	304	41	B
K1GD	1,108,554	1334	277	20	B
W0MHHK	719,562	962	267	48	B
W1EQ	719,901	879	273	48	B
W3TB	678,132	966	234	48	B
N1QDA	295,596	476	207	48	B
W1AGN	30,888	104	99	48	B
KQ2M	14,931	79	63	6	B
K1ZZ	4,122,258	3218	427	45	C
K1WIF	3,881,001	3163	409	48	C
K1RMR	3,594,240	3072	390	48	C
AA1OL	3,010,410	2490	403	48	C
K1VW	22,578	106	71	6	C
K2SS-I	5,670	54	35	48	C
K1DII	605,790	1905	106	48	C
K1DII	31,110	170	61	7	C

Eastern Massachusetts

W1TIO	955,854	1142	279	48	B
K1HT	654,696	866	252	15	B
K1FFX	465,804	681	228	48	B
W1VIV	328,452	542	202	22	B
N3KJCJ	275,217	461	199	48	B
W1Z2T	208,572	382	182	48	B
KR1B	156,420	330	158	48	B
N1EDM	148,824	312	159	48	B
W2IK	81,216	144	188	48	B
N1PGA	73,830	214	115	48	B
K1TW	24,080	110	73	48	B
KQ1F	14,832	103	48	48	B
K1VUT	4,770	53	30	2	B
KC1WD	1,701	27	21	4	B
K1ZM	4,566,039	3467	439	48	C
AA1ON	1,065,222	1426	249	48	C
W1AX	615,330	774	265	48	C
W1ZT	460,719	721	213	11	C
W1FM	448,158	661	226	48	C
W1OHM	119,511	271	147	48	C
K2LP	75,192	241	104	48	C
W1EM	64,515	187	115	48	C
W1S	11,658	58	67	48	C
W1MK	156,735	645	81	48	C
K1LZ	100,344	452	74	48	C
KM2P	230,265	903	85	48	C
W1RP	12,126	94	43	48	C
W1GZ	37,989	189	67	48	C
W1GOU	18,963	129	49	48	C

Maine

N1AFC	39,800	165	80	48	A
K1AIS	542,574	701	258	48	B
W1LIC	24,480	120	68	5	B
KD1OG	7,800	65	40	12	B
K1PQS	59,637	193	103	15	C

New Hampshire

AA1CA	281,934	454	207	35	A
K1WID	82,026	217	126	24	A
K1PTF	805,749	1037	259	48	B
NM1W	205,842	338	203	48	B
AA1QD	145,542	382	127	12	B
K1NH	103,680	270	128	48	B
WB1GEX	8,967	61	49	4	B
K1DG	3,995,850	3134	425	48	C
KC1F	2,610,432	2472	352	35	C
W1M1	1,986,465	2171	305	30	C
KR1G	1,237,041	1417	291	48	C
K1BV	485,784	936	173	21	C

Rhode Island

K1VJSJ	816,864	1016	268	48	B
K1ZE	284,427	507	187	10	B
AB1BX	61,596	177	116	48	B
K2MN	20,870	106	65	48	B
KS1J	1,327,290	1465	302	48	C
W1WFFZ	519,129	783	221	48	C
W1RFQ	24,360	145	56	48	C

Vermont

W3SOH	277,200	462	200	48	B
W1ZK	969,804	1023	316	48	C
W1LIR	639,330	1055	202	13	C
AA1SU	244,944	432	189	48	C
W1ZS	212,784	403	176	48	C
K1IK	40,788	206	66	20	C

Western Massachusetts

W1KT	398,820	578	230	48	B
AE1B	243,000	500	162	48	B
K1TS	192,045	413	155	48	B
W1TO	118,170	303	130	48	B
K5ZD (W2SC, op)					
	4,306,236	3553	404	48	C
N1AUT	11,286	114	33	48	C
NB1Q	4,092	44	31	8	C

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Eastern New York

W2QYA	7,998	62	43	48	A
K2UF	763,434	1022	249	48	B
K2SIG	709,386	863	274	48	B
K2WD	298,368	448	222	48	B
W2ENY	192,324	341	188	48	B
NA2M	139,104	288	161	48	B
W2YK	124,740	270	154	48	B
K2RI	35,028	139	84	8	B

K2SX	1,560,000	1625	320	48	C
W2ZUJ	400,452	604	221	48	C
N1JP	23,229	89	87	48	C
WX2N	28,899	169	57	48	C
K2CRCO	1,008	21	16	2	C

NYC-Long Island

N2TO	100,992	263	128	17	A
W2ZUJ	520,923	703	247	48	B
W3EH	116,946	267	146	48	B
KG2BI	113,778	258	147	48	B
W2KTF	26,676	117	76	48	B
NY6DX	1,020,099	1009	337	48	C
K2AW	403,650	650	207	48	C
W2TSP	175,200	365	160	48	C
N2GC	51,900	173	100	48	C
W2AMU	4,929	53	31	48	C
K2MPY	72,957	293	83	11	C
KAZD	44,844	202	74	48	C

Northern New Jersey

K2JT	137,196	309	148	10	A
W2JEK	13,050	75	58	8	A
NA2U	1,136,220	1306	290	48	B
N2LK	218,700	405	180	14	B
N2ST	126,828	271	156	48	B
KB2VVB	107,682	262	137	48	B
W2WVF	66,105	195	113	7	B
KG2MV	12,636	78	54	6	B
N2NT	4,096,134	3363	406	48	C
N2LT	3,751,200	3126	400	48	C
K2DM	2,506,002	2501	334	48	C
W2YVA	1,271,487	1337	317	48	C
W2EM	1,162,458	1254	309	48	C
W2HCA	497,760	680	244	48	C
N2UN	474,240	520	304	48	C
W2RD	299,700	444	225	48	C
W2UDT	136,820	280	163	48	C
NC1A	117,810	255	154	48	C
NW2B	29,925	95	105	48	C
N2KJM	25,032	149	56	48	C
W2ASQ	17,595	115	51	48	C
AE2JL	37,200	200	62	48	C
N2CG	14,868	118	42	12	C

Northern New York

W2ZT	141,120	320	147	23	A
K3KYR	404,721	579	323	31	C
N2TW	672	16	14	48	B
N2JNZ	462	14	11	5	A

Southern New Jersey

KC2TA	342,654	598	191	48	B
W5KJ	269,514	414	217	15	B
K1JT	233,130	409	190	26	B
W2AVQV	99,825	275	121	48	B
K2MK	22,230	114	65	48	B
W2UL	14,268	82	58	48	B
AB2E	1,397,889	1223	381	48	C
KD2KS	43,956	148	99	48	C

W2BE	30,969	111	93	48	C
AD2Y	2,430	30	27	48	C
K3JGJ	33,672	184	61	48	C
K2SWZ	7,866	69	38	48	C
K2WI	518,976	1632	106	48	C
W2CN	8,610	70	41	9	B

Western New York

Western New York					
W2TZ	1,844,640	1952	315	48	B
W2EVA	451,485	635	237	48	B
K1PY	391,170	590	221	48	B
W2TX	333,198	519	214	12	B
W2AYSJ	299,280	464	215	48	B
N2UM	277,344	432	214	48	B
AA2YX	181,863	363	167	48	B
W2GR	73,875	197	125	48	B
K2GKM	64,200	200	107	48	B
K9EE	52,416	112	91	10	B
W2FJ	51,615	185	93	20	B
K2FR	4,620	44	35	48	B
K2UA	2,727,879	2651	343	42	C
W2LC	1,847,385	2019	305	48	C
N2CU	1,457,352	1557	312	48	C
K2NV	1,396,236	1516	307	48	C
W2FU	1,253,364	1388	301	48	C
K2FU	1,111,560	1180	314	48	C
KW2J	609,696	876	232	31	C
KE2WY	519,456	773	234	31	C
W2FXA	490,752	639	256	48	C
W2EZ	222,894	406	183	48	C
K2MP	205,110	430	159	24	C
W2ABN	150,732	318	158	48	C
W2OMV	129,360	308	140	20	C
W2W	127,860	240	85	48	C
WF2Y	87,075	115	135	48	C
W2YRH	74,241	219	113	17	C
W2R	72,378	272	117	68	C
AA2TN	21,513	101	71	48	C
W2FR	6,300	50	42	4	C
W2VO	1,872	26	24	48	C160
N2MF	360,261	1213	99	27	C15
WB2YOH	174,300	700	83	48	C15
W2ARZJ	32,400	200	54	48	C15
W2ARZJ	32,400	200	54	48	C15

Georgia

W4KYW	17,820	108	55	48	A
K4OQG	1,110,798	1313	282	48	B
N8LM	440,376	622	236	48	B
W4ATL	11,360	63	60	4	B
W4AN	3,968,250	3250	407	48	C
K4TEA	11,484	87	44	48	C 160
K4GSX	3,696	44	28	48	A 20
K4EA	241,239	829	97	48	B 15

Kentucky

K4IE	23,478	86	91	48	B
KE-LLA	15,120	112	45	23	B
K1AO	975,429	1191	273	48	C
N4XM	228,824	448	171	48	C
W4KY	153,765	335	153	12	C
K4AJMZ	17,820	108	55	7	B 15

North Carolina

W9JB	350,181	533	219	48	B
NX9T	172,536	316	182	48	B
KS4GX	112,500	250	150	10	B
W4IDX	96,048	232	138	48	B
N4UH	85,020	260	109	48	B
N4AF	3,355,506	2959	378	48	C
W4MR (N4CW, op)	1,473,300	1637	300	48	C

NW6S	725,463	831	291	48	B
W4LM	73,530	215	114	48	C
AA4S	47,916	242	66	48	C
K4ESE	14,688	96	51	6	C 80
KZ2I	22,680	126	60	48	C 40
KSJLZT	270	10	9	1	C 15

Northern Florida

W44MC	546,354	762	239	48	B
W4MY	28,314	121	78	4	B
K8WK	243,165	377	215	38	C
W7OF	218,229	389	187	48	C
K4RX	5,814	57	34	48	C 160
N4PN	243,726	829	98	48	C 20
WC4E	328,941	1179	93	48	C 10

South Carolina

VE7CPN/W4	798,975	1005	265	48	B
KZFY	466,026	614	253	48	B
K4DLJ	1,295,514	1454	297	48	C
AA4NN	1,207,983	1403	287	48	C
W3VT	1,103,436	1202	306	34	C
W8PC	597,513	769	259	48	C
N4GJ	646,632	572	202	36	C
W4JCK	68,400	304	75	21	C 40
AE4FA	5,952	62	32	14	A 20

Southern Florida

WD4AHF	1,006,155	1285	261	34	B
N2PK	326,802	502	217	29	B
N6PLO	148,782	362	137	44	B
K4ZT	72,471	203	119	36	B
N4LF	36,432	138	88	7	B
KE6QR	6,300	84	25	48	B
K1PT	1,264,116	1414	298	48	C
K4LQ	695,331	819	283	48	C
W4SO	465,912	719	216	48	C
W43NKO	212,784	403	176	48	C
W44MSU	201,609	393	171	47	C
N4BS	68,159	201	113	48	C
WB4OSN	71,820	380	63	48	C 40
AJ4Y	10,956	83	44	48	B 40
K1TO	387,795	1255	103	29	C 20
N8PR	27,816	152	61	48	B 20
N4DL	17,010	126	45	48	B 20
W8RTU/4	27	3	3	48	B
W4GD	76,692	308	83	12	C 10

Tennessee

N1CWR	284,208	496	191	48	A
W4NI	21,624	106	68	48	A
K4RO	1,378,026	1359	338	48	B
WO4O	1,101,420	1266	290	48	B
N4AK	965,838	1114	289	24	B
W44YU	107,604	244	147	48	B
W4UYI	73,080	210	116	48	B
K0EJ	1,579,569	1689	311	48	C
W4PA	1,175,337	1293	303	48	C
W9WI	1,066,494	1243	286	48	C
K4LTA	1,044,000	1160	300	48	C
K4AMC	673,785	1085	207	48	C
N4RG	574,992	792	242	24	C
AA4WX	147	7	7	48	C
K1KY	2,886	37	26	4	C 160
W4DGG	1,440	24	20	3	C 20
N4IR	198,660	770	86	48	C 15
K4WX	223,416	856	87	48	C 10
N4UW	28,362	163	58	48	B 10

Virginia

N4ROA	135,441	303	149	20	A
K4GEL	99,186	271	122	48	A
N4UY	10,752	64	56	48	A
K4BAM	472,140	645	244	20	B
K7CZM	426,648	613	232	48	B
K4FPF	417,960	540	258	48	B
K4UVT	356,694	538	221	48	B
N6MW	243,651	337	241	21	B
K4FOY	173,484	366	158	48	B
N3TG	129,195	261	165	48	B
K4UK	67,320	204	110	12	B
K3JZ	51,155	155	111	48	B
WB4DNL	5,400	45	40	48	B
K0DQ (at WARX)	3,683,988	3101	396	43	C
W4AU	1,061,376	1382	256	48	C
W4YE	544,512	709	256	48	C
N4MM	374,136	524	238	48	C
W4RW	237,510	455	174	48	C
KS5VG	197,025	355	185	48	C
W2YE	191,684	363	176	48	C
W4VC	100,812	271	124	46	C
K6ETM/4	64,728	186	116	48	C
W4HJ	54,087	149	121	48	C
K4WY	7,770	70	37	48	B 40
K4OAAQ	305,712	1158	88	25	C 15
A12C	112,338	474	79	48	C 10
W4HM	62,382	281	74	48	B 10

5

Arkansas

KM5G	1,391,679	1531	303	48	C
N5DX	388,500	1295	100	48	C 15

Louisiana

K5KLA	1,072,965	1165	307	30	B
K5QK	141,519	293	161	48	B

Mississippi

W5XX	1,370,064	1564	292	35	C
W4SOYU	609,444	836	243	48	C
KC5ZJA	90	6	5	2	B 10

New Mexico

K5OI	396	33	4	48	A
W6PU	665,160	920	241	38	C
W5JRP	19,278	126	51	48	B 20
W5YZ	76,314	322	79	48	B 10

North Texas

WD5K	1,074,528	1148	312	48	B
W0UJO	1,056,510	1118	315	48	B
NS4W	990,522	1079	306	48	B
K5WO	550,464	752	244	48	B
KN5L	150,240	313	160	48	B
WQ5W	135,285	311	145	48	B
K5KJ	84,132	246	114	15	B
W5K5	55,998	183	102	18	B
N5PO	1,086,168	1336	271	48	C
N8SM	490,500	654	250	48	C
K5RX	7,035	67	35	48	C 160
NS7J	92,268	466	66	48	C 15
KY5N	84,240	390	72	48	B 15

Oklahoma

K5TT	165,996	348	159	29	A
K5HP	387,750	550	235	48	B
NA5B (W5AO, op)	172,800	720	80	48	C 40
K2BA	138,600	550	84	24	C 20
K0CIE	4,446	57	26	48	B 10

South Texas

K5YA	2,081,280	2168	320	48	C
N5CQ	1,375,470	1479	310	48	C
AC5RX	21,087	99	71	48	C
W4BGHZ	15,006	82	61	48	C 160
NX5M	3,948	47	28	48	C 160
KZ5MM	3,159	39	27	48	C 160
NS5J	3,690	41	30	48	C 80
KD5EDO	27	3	3	2	A 20
N5DU	69,012	324	71	48	B 15
K0BCN	12,753	109	39	5	B 15
W5NR	624	16	13	48	C 15
N5AF	1,071	21	17	2	B 10

West Texas

NSDO	635,508	834	254	37	B
NZ5M	6,930	66	35	17	B 15
W5ZO	88,578	399	74	48	B 10

6

East Bay

K6WV	400,056	632	211	48	B
K6XV	199,584	504	132	48	B
K6BZS	227,547	579	131	48	C

Los Angeles

KQ6ES	338,400	564	200	48	B
K6DDO	159,873	331	181	21	B
W4AG6X	116,820	295	132	48	B
W4ZBNM	34,860	166	70	48	B
N6GL	14,787	93	53	5	B
K6LA	1,636,470	1710	319	48	C
K0DI/6	60,300	201	100	9	C
W6MFC	27,720	120	77	48	C
W6/KH6DX	11,070	82	45	48	C
AI6Z	2,268	36	21	48	C 80
KU6T	756	18	14	48	B 20
W6RCL	23,142	203	38	48	C 40
N6HY	5,664	59	42	48	C 40
KSCOE	9,963	81	41	48	C 20
N6IC	1,080	30	12	1	C 20
N6RV	43,263	253	57	48	B 10

Orange

K6GO	197,394	394	167	30	B
W6NT	78,948	258	102	48	B
AA6PW	52,398	246	71	48	B

Santa Barbara

N6WS	216,756	446	162	48	A
N6AZR	54,027	207	87	48	A
W4GFGV	226,812	468	164	48	B
W6UJ	635,517	723	293	48	C
W4S5VJ	328,800	548	200	48	C
W6TK	24,696	168	49	48	C
N6HK	19,875	125	53	12	C
AA6EQ	2,091	41	17	48	A 10

Santa Clara Valley

W6IO	55,890	207	90	48	A
W6PLJ	209,292	428	163	20	B
N6CY	131,625	351	125	16	B
WD6DX	89,304	244	122	22	B
W6ISO	88,206	241	122	12	B
N6NF	16,848	104	54	4	B
K6XX	653,058	1022	213	25	C
AJ6V	124,620	335	124	7	C
K6GT	121,518	314	129	24	C
W6WISQ	74,880	208	120	48	C
N3ZZ	57,609	173	111	48	C
KF6A	30,420	169	60	48	C
AA6W	26,196	118	74	7	C
W0YK	14,691	83	59	48	C

San Diego

W8QZA/6	227,586	457	166	48	A
W6JVA	64,449	217	99	11	A
AA6EE	63,600	212	100	48	B
W6MWV	128,016	336	127	48	C
W6OVO	14,688	102	48	5	C
WA6PY	3,015	67	15	8	B 40

RZ9UA	153,720	915	56	48	C	20	EA2BDS	237,726	562	141	48	B	GM3CFS	39,903	283	47	48	B	20	LZ2NB	85,560	310	92	48	B	OM3KHU	104,610	317	110	48	B		
UA0SAD	50,256	349	48	48	B	20	EA7AJR	231,420	551	140	48	B	Wales								LZ21MC	22,701	161	47	48	B	OM7TAG	102,003	281	121	48	B	
UA9AOL	32,292	234	46	48	B	20	EA7ASZ	218,526	473	152	48	B	GW3NJW	319,263	661	161	28	B			LZ1AQ	14,319	111	43	48	B	OM8FF	99,180	290	114	48	B	
RK9CZO (RX9CAZ, op)	26,730	198	45	48	B	20	EA1BAE	193,575	445	145	48	B	GW0VSW	2,142	42	17	48	A	15		LZ26A	122,400	400	102	48	B	OM0CW	94,800	316	104	48	B	
UA9XEN	19,026	151	42	48	C	15	EA7AKJ	113,505	329	115	48	B	Hungary								LZ3HI	91,809	303	101	48	B	OM1AF	64,260	255	84	48	B	
UA9JMM	13,407	109	41	48	B	20	EASDCL	83,187	237	117	48	B	HA2SX	402,705	785	171	33	A			LZ1QZ	71,604	234	102	48	B	OM0CR	51,294	206	83	48	B	
UA0FDX	56,626	414	53	48	C	15	EA3GHZ	68,676	236	97	48	B	HASRT	1,658,520	2168	255	48	C			LZ1BJP	60,000	250	80	48	C	OM3IAG	47,784	181	88	48	B	
RX9BF	29,601	253	39	48	B	15	EAF5FC	41,310	162	85	48	B	HASIC	152,280	470	102	48	B			LZ1DFP	21,000	200	35	48	B	80	OM1ADM	3,366	33	34	48	B
RA0CY	13,320	120	37	48	C	15	EASABE	41,022	159	86	48	B	HA0DU	36,720	272	45	48	C	80		LZ1PM	9,996	119	28	48	C	80	OM8A	1,053,171	1603	219	48	C
UA9APA	2,862	53	18	48	C	15	EASGRC	29,082	131	74	48	B	HA0UG	20,298	199	34	48	C	80		LZ2ZP	61,344	426	48	48	C	80	OM5RJ	12,927	139	31	48	C
RZ3AX	260,652	812	107	47	C	10	EK3AKC	14,700	140	35	48	B	HAKAZ (HABLLK, op)							LZ1RN	21,879	187	39	48	C	40	OM3A (OM3CGN, op)	135,251	791	57	48	C	
UA9WQK	5,292	84	21	48	C	10	EAAAMW	6,771	67	37	48	B	LZ1CIN	20,862	183	38	48	B			LZ1CN	20,862	183	38	48	B	20	OM1AW	1,428	28	17	48	C
Kazakhstan							EAB1XW	2,346	34	23	48	B	LZ1ZV	4,158	63	22	48	B			LZ2B	15,960	140	38	48	B	15	OM8MM	9,492	113	28	48	B
UN7TS	7,488	78	32	48	B		EAD1GG	2,016	32	21	48	B	HA0LM	74,100	475	52	48	C			LZ2PS	20,400	170	40	48	B	10	OM5RM	150,138	878	57	33	C
UN6T	36,168	274	44	48	C		EA4ICE	1,632	34	16	48	B	HG1R (HA1UXJ, op)							LZ2RS	15,435	147	35	48	A	10	OM2TW	134,736	802	56	48	C	
UP4L	58,905	385	51	48	B	20	EAS5FV	1,710,456	2299	248	48	C	HA3MQ	67,942	541	54	48	B	20		LZ28U	6,048	72	28	48	B	10	OM8AG	21,420	170	42	48	B
UN4PG	7,104	74	32	48	C	20	EA4AKA	1,584,819	2229	237	48	C	HAR8H	106,755	647	55	48	B	15							OM0TT	20,787	169	41	27	B		
UN4PD	4,896	51	32	48	B	20	EA1DAV	1,373,436	1884	243	48	C	HAF8K	90,750	550	55	48	B	15							OM7YC	17,760	148	40	48	B		
UN8PF	2,808	39	24	48	B	20	EA4ATX	835,848	1482	188	48	C	HA0IT	89,199	561	53	48	B	15							OM8AMF	624	16	13	48	B		
Hong Kong							E44AAK	58,422	214	91	48	C	HA3LI	70,839	463	51	48	B	15							OM3RG	87,210	570	51	48	C		
VR2BG	548,100	1044	175	26	C		EAS3MR	40,506	157	86	48	C	HA6IAM	30,960	215	48	48	B	15							OM5KM	8,277	89	31	48	B		
Europe							EAS3VR	7,560	63	40	48	C	HA8MT	25,380	188	45	48	B	15							Belgium							
Croatia							EA7MT	3,726	46	27	48	C	HA6NW	24,240	202	40	48	B	15							OM4AVH	258,300	574	150	48	B		
9A3RE	199,296	519	128	48	A		EA3IN	70,923	503	47	48	C	40	HA0HM	20,178	177	38	48	B	10							OM4XG	237,120	520	152	48	B	
9A2EY	40,584	178	76	48	A		E41GET	858	26	11	48	C	15	HA0GK	18,054	177	34	48	A	10							OM4CAU	65,610	243	90	48	B	
9A5Z	21,504	128	56	12	B		EA3AR	135,774	794	57	48	C	10	HASCYE	16,758	147	38	48	B	10							OM4SS	39,963	173	73	48	B	
9A4D	127,395	745	57	48	B	40	EA3BIM	11,286	99	38	48	B	10													OM4KB	14,335	104	46	48	B		
9A7P (9A6NH, op)							Moldova																			OM5JD	17,538	79	74	48	C		
	25,272	216	39	8	B	40	ER5OK	107,892	333	108	48	B														OM5JL	117,264	698	56	48	C		
9A5I	14,319	129	37	48	B	40	ER1AAZ	1,305	29	15	48	B	10													OM5WL	5,037	73	23	48	B		
9A4RU	4,092	62	22	48	B	20	Estonia																			OM4AEK	70,632	436	54	13	C		
9A5Y (9A3LG, op)							ES6PZ	25,668	124	69	48	B														OM6TJ	10,602	114	31	48	B		
	241,623	1413	57	48	C	15	ES1QX	23,040	120	64	48	B															OT9A (OM5UP, op)	221,502	1273	58	48	C	
9A3MR	89,586	553	54	48	C	15	ES1QD	3,000	50	20	48	B	40														OM4UN	164,082	943	58	48	C	
9A3VM	53,406	387	46	48	C	10	Belarus																			OM6NR	39,837	271	49	48	B		
9A3CY	16,461	177	31	48	B	10	EW6CM	21,945	133	55	48	A														Denmark							
Portugal							EUI1SA	190,320	488	130	48	B														OZ5DK	282,852	582	162	29	B		
CT1FOK	28,944	134	72	48	B		EW6AL	108,360	344	105	48	B														OZ1QX (OZ8AE, op)	196,224	448	146	48	B		
CT1AOZ	33,528	254	44	48	C	80	EW6AF	75,990	298	85	48	B														OZ5UR	366,349	37	123	48	B		
CT1BNW	9,630	107	30	48	C	10	EUI1DX	693,714	1162	199	48	C														OZ4FF	124,320	370	112	48	B		
CT1ELP	114,210	705	54	48	B	10	EW8OS	74,160	309	80	48	C														OZ8SW	100,548	294	114	48	B		
Fed. Rep. of Germany							EW1NY	5,670	90	21	48	B	80													OZ5DX	7,011	57	41	48	B		
DL3KVR	215,556	506	142	48	A		EW1N3	3,828	58	22	48	C	80													OZ9Y	364,977	1137	107	48	C		
DL4FN	198,696	487	136	36	B		EW3CW	780	20	13	48	C	80													OZ5WQ	188,340	430	146	48	C		
DL2HBX	112,350	350	107	48	B		EUI4AA	86,184	532	54	48	C	40													OZ4UN	68,640	440	52	48	C		
DK7ZH	312,570	690	151	48	A		EW8DX	59,058	386	51	48	C	20													OZ1BMA	27,636	196	47	48	B		
DF6LG	255,744	576	148	48	B		EUI1MM	8,640	96	30	48	B														OZ1KWW	7,395	85	29	48	B		
DJ7XA	186,921	483	129	48	B		EW6GB	31,500	250	42	48	B	15													OZ1BXM	8	7	2	15			
DL8UAT	183,000	488	125	48	B		EW3LN	17,325	165	35	48	C	10													OZ7NB	17,589	143	41	48	C		
DL5MC	168,777	423	133	48	B		France																			Netherlands							
DL2FJ	132,534	398	111	8	B		F50IH	147,420	420	117	48	A														PA0ADT	48,672	208	78	48	A		
DL3DRN	127,800	355	120	48	B		F6AXD	1,200	25	16	48	A														PA3ELD	182,646	438	139	48	B		
DL1TH	125,874	378	111	48	B		F51CC	254,940	607	140	48	B														PA3AAV	148,995	385	129	48	B		
DK7FP	124,254	354	117	48	B		F6HKA	230,040	568	135	48	B														PA3EMN	155,144	337	109	48	B		
DL4WA	116,844	364	107	48	B		F5RAB	209,952	486	144	48	B														PA3BGQ	102,024	312	109	48	B		
DJ4KW	114,426	326	117	48	B		F5AKL	197,340	506	130	48	B														PA3GRM	87,399	249	117	48	B		
DL5NA	97,456	365	89																														

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