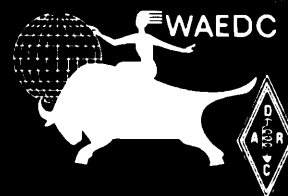


**RESULTS 2002**

**RULES 2003**



# **WAEDC**

## **EUROPEAN DX-CONTEST**

# **WAG**

## **WORKED ALL GERMANY CONTEST**



*G3SEM MM, on board the Queen Elizabeth II travelling the North Atlantic running five watts to a mobile antenna mounted about 100 feet over sea level*



*The 20 m position at KC1XX, with K1GQ operating. See all these WAEDC plaques on the wall!*

**DARC Referat für DX und HF-Funksport**  
**Compiled by DL6RAI (WAEDC) and DL1DTL (WAG)**





# European DX Contest (WAEDC)

Bernhard Büttner, DL6RAI

The Deutscher Amateur Radio Club (DARC) invites radio amateurs world wide to participate in the annual WAE-DX-Contest.

## 1. Times:

CW: August, second full weekend  
Saturday, August 9, 2003, 0000 UTC until Sunday, August 10, 2003, 2359 UTC  
SSB: September, second full weekend  
Saturday, September 13, 2003, 0000 UTC until Sunday, September 14, 2003, 2359 UTC  
RTTY: November, second full weekend  
Saturday, November 8, 2003, 0000 UTC until Sunday, November 9, 2003, 2359 UTC

## 2. Bands: 3,5 - 7 - 14 - 21 - 28 MHz

According to IARU Region I regulations, operation is not allowed in the following contest-free windows:  
CW: 3550-3800; 14060-14350 kHz  
SSB: 3650-3700; 14100-14125; 14300-14350 kHz

## 3. Categories:

- Single Operator - max. output 100 watts - all bands.  
Only one signal permitted at any time.
- Single Operator - output higher than 100 watts - all bands.  
Only one signal permitted at any time.
- Multi Operator - Band changes are allowed every ten minutes; this also includes QTC traffic.  
Exception: working of a multiplier.  
Other transmitters may be used in parallel to the main station to work multipliers on other bands (note: this means, several signals may be on the air on different bands at the same time).
- SWL (see part 12)  
The use of DX spotting nets is allowed in all categories. Single Operator stations which claim to not use spotting nets will be marked with the special symbol „-“ in the final results.

## 4. Off Times:

Single Operator stations may only operate 36 out of the 48 hour contest period.  
The total of 12 hours off time may be taken in one part but not more than three parts. The off times must be shown on the summary sheet.  
If operation is interrupted for more than 12 hours the three longest off time periods must be a minimum of 12 hours.

## 5. Exchange:

A contest QSO can only be conducted between a European and a non-European station (exception: RTTY). The exchange consists of RS/RST and a progressive serial number starting with 001. If the station worked does not send a serial number, log the contact with number 000. Each station can be credited only once per band.

## 6. Multiplier:

For non-European stations the multiplier is the number of countries defined in the WAE Country List (see below) worked per band.  
For European stations every non-European DXCC entity counts as a multiplier. Exception: In the following countries up to ten call areas count as multipliers: W, VE, VK, ZL, ZS, JA, PY and RA8/RA9 and RA0 - without respect to the geographic location.  
Examples: W1, K1, KA1 and K3./1 count as W1; VE1, VO1 und VY1 count as VE1; JR4, 7M4 und 7K4 count as JA4; ZL2 and ZL6 are two different multipliers.  
Multiplier bonus: Country multiplier points are "weighted" by band. Multiply the number of countries worked on 3.5 MHz by four, on 7 MHz by three, and on 14/21/28 MHz by two. The total multiplier is the sum of the weighted multiplier points of all bands.

## 7. QTC Traffic:

- Additional points can be achieved by QTCs. A QTC is the report of a contest QSO back to a European station (exception: RTTY, see part 13).  
The following rules apply:
- A QTC contains time, call sign and serial number of the reported QSO. Example: "1307/DA1AA/431" means that DA1AA was worked at 1307 UTC and sent serial number 431.
  - Each QSO may only be reported once as a QTC. The QTC may not be reported back to the original station.
  - Every QTC that was correctly transferred, counts one point for the sender and one point for the receiver.
  - Two stations may exchange up to 10 QTCs maximum. The two stations may establish contact several times to complete the quota.
  - QTCs are transferred by means of QTC series. A QTC series is a block of one (minimum) to ten (maximum) QTCs. QTC series are numbered using the following scheme: The first figure is the progressive serial number starting with one; the second figure denotes the number of QTCs in the series. Example: "QTC 3/7" means this is the third QTC series transmitted by this station and it contains seven QTCs.
  - For every QTC series that is transmitted or received, the QTC number, time and frequency band of the QTC transmission must be logged. If any of this data is missing from your log, no credit will be given for this QTC series.

## 8. Scoring:

The final score is the result of total QSOs plus QTCs on all bands multiplied by the sum of all multipliers weighted by the band bonus factor (see part 6).

## 9. Disqualification:

Violation of the rules of the contest or unsportsmanlike conduct will be deemed sufficient cause for disqualification.

## 10. Logs:

**General notes:** All stations are asked to submit an electronic log. All stations claiming a final score of more than 100,000 points must submit an electronic log. Stations that do not wish to be listed in the final results are kindly asked to submit their log as a check log. All times must be in UTC.

**Electronic Logs:** All computer-generated "electronic logs" should be submitted as a file either by E-Mail or on disk. We prefer to receive data either in the Cabrillo format or in the DARC STF format.

By submitting an electronic log, the participant claims to fully accept the rules of the contest. A written declaration is not necessary.

**Hand-written logs:** Please use the official WAEDC log forms and summary sheets. These sheets are available on the WAEDC Web site or can be requested by sending an SAE to the contest manager. The logs are to be organized in chronological order. If more than 100 QSOs are made on a band, a call sign check list is requested. Duplicate QSOs must be marked. QTCs may either be logged directly on the log sheets or on a separate sheet. The log must include a signed summary sheet and check lists for QTCs and multipliers.

## 11. Club Competition:

The club score is calculated by adding the final results of all participating club members in all three WAE contests, excluding SWLs. The club name has to be indicated on the summary sheet for the log to be counted. The club must not be an official national amateur radio club. Participating club members must live within an area of a circle with a maximum of 500 km (312 miles) diameter. For a club to be listed, a minimum of three logs must be submitted. A trophy is sponsored for the top DX (non-EU) and the top EU clubs.

## 12. Special Rules for SWLs:

SWLs record stations working in the WAEDC. Participation is only possible as a single operator all bands. Every call sign heard - European or non-European station - may be credited only once per band. Both call signs of a contest QSO have to be recorded.  
Each station that is logged including the serial number that was sent by that station, counts one point. Every complete QTC which includes all QTC series information (up to a maximum of 10 per station) also counts one point.  
Multipliers are counted according to the criteria indicated in part 6, but both European and non-European multipliers are counted. A call sign can only be counted as a multiplier, if the serial number it sent was recorded. In the best case, for a completely recorded QSO, two points and two multipliers can be credited.

## 13. Special Rules for RTTY:

In the RTTY portion of the WAEDC there are no continental limits; everybody can work everybody. Only QTC traffic must be performed between different continents. Every station may send and receive QTCs. The sum of QTCs exchanged between two stations (sent plus received) must not exceed ten.  
The European and non-European multipliers indicated in part 6 count for all stations.

## 14. Log Deadline:

CW: September 15; SSB: October 15; RTTY: December 15, 2003.

## Criteria for WAEDC Awards and Plaques

Continental winners will receive a plaque. Country winners in all categories receive an award if they fulfill the following conditions:  
The minimum conditions are 100 QSOs or 10,000 points in connection with at least one additional condition:

### 1. for awards:

- Continental winner
- Member of the Top-Ten/Top-Six (multi operator) list.
- Country winner
- Regional winner in one of the countries which count by call areas
- at least half of the score of the respective continental winner
- at least 100,000 points

### 2. for plaques:

- Continental winner
- Stations who activate a WAE country for the WAEDC from where no log was received over the last three years will receive a special plaque.  
For 2003 these are: 1A0, 9H, C3, CU, GD, GM/s, HV, JW/b, JX, OJO, R1F, R1M, SV/A, SV5, SV9, T7, TK, ZA, ZB.
- Stations who have been into the Top-Ten/Top-Six list for at least five times can apply for a special plaque.
- The WAEDC committee reserves the right to honor special contest activities with additional plaques.

### Mailing Address:

WAEDC Contest Manager  
Bernhard Büttner, DL6RAI  
Schmidweg 17, 85609 Domach/GERMANY  
E-Mail: waedc@dar.de; URL: <http://www.waedc.de>

**WAE Country List:** 1A0 - 3A - 4U11 - 4U1V - 9A - 9H - C3 - CT - CU - DL - EA - EA6 - EI - ER - ES - EU - F - G - GD - GI - GJ - GM - GM/s - GU - GW - HA - HB - HBO - HV - I - IS - IT - JW - JW/b - JX - LA - LX - LY - LZ - OE - OH - OH0 - OJO - OK - OM - ON - OY - OZ - PA - R1F - R1M - RA - RA2 - S5 - SM - SP - SV - SV/A - SV5 - SV9 - T7 - T - TA1 - TF - TK - UR - YL - YO - YU - Z3 - ZA - ZB

## WAE DX Contest 2002

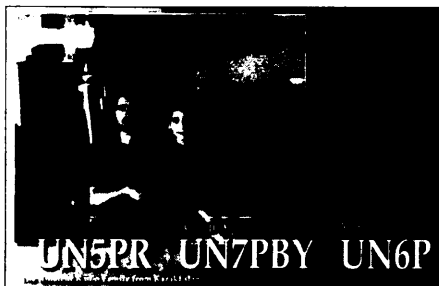
A number of rules changes for the WAEDC were introduced this year. The most pronounced effect was the introduction of the Low Power category since statistics of the past three years clearly showed that the majority of participants were actually running 100 watts.

Other effective changes such as the modified QSY rule and the regional multipliers put many QSOs in the log on the 10 and 80 meter bands which would not have been possible before the change.

2002 also marked the first year in WAEDC history where all logs were checked electronically. This was possible by typing in a total of 203 paper logs with 26,571 QSOs and 20,003 QTCs. A lot of work went into log checking and the results are now in your hands.

### Statistics

652 logs from 73 countries (30 DX, 43 EU) were received for the CW Contest 2002 with a total of 207,545 QSOs and 219,564 QTCs reported in these logs. On SSB, 662 logs were received from 84 countries (39 DX, 45 EU), reporting a total of 216,655 QSOs and 200,954 QTCs. Finally, for RTTY 324 logs were received from 64 countries (27 DX, 37 EU) containing 103,342 QSOs and 72,328 QTCs. For the three contests, a total of 821 awards and 60 plaques have been shipped.



Yuri, UN6P, was active as UP6P both on RTTY (#2 Asia) and SSB (#1 Asia)

Overall log submissions have picked up this year to a new record of 1,638, a plus of 3.9 % over last year's 1,577. By mode, we had 652 CW (2001: 671), 662 SSB (2001: 619) and 324 RTTY (2001: 287) entries.

1,409 logs were electronic logs, and 229 were paper logs. We had 774 Single OP/Low Power logs, 600 Single OP, 105 Multi-OP logs, 47 SWL entries and 114 Check Logs this time. Thanks to many individuals and groups, some of the rare WAE countries were on the air during the 2002 events. Out of the 72 WAE countries, all but 1AØ, HV, JW/B, OJØ, R1F, R1M and SV/A were active in 2002. Please be advised that in order to receive the special rare-country prize, you must send in a log.



Location of the ZL6QH station on Quartz Hill. More info is available at [www.zl6qh.com](http://www.zl6qh.com)

Three special prizes are awarded this year to: 3A2MD, 4U1ITU (Op. HB9DTM) and MJ/DL2JRM.

### CW

Andy, LY2TA, went up to Latvia to operate YL2KL's station using the callsign YL8M and won Europe from there. Congrats to both Andy and Girls for this nice achievement and a new record. Perennial WAEDC'er Lothar, DL3TD, came in second, followed by Pavel, OK1DRQ operating as OL8M. Interestingly, YL8M won by QSOs and QTCs, not by mults. In the new Low Power category, Gedas, LY3BA, operating as LY9A turned in an astronomical score of over 1 Million, leaving his competition LY6A (Op. LY2BM) and 9A7P (Op. 9A6XX) in the dust. Again, the winning strategy was to focus on QTCs.

In the Multi-OP category, the DL2NBU team fought it out again with the RU1A group. This time the German group finished ahead of the Russians - first time in many years! Third place went to HG6N.

In the DX arena, P3F operated by Bob, 5B4AGN, and H2G operated by George, 5B4AGC, competed from the same country - putting Cyprus in place 1 and 2 in the Single Operator category. H2G complained about



Heijo, DJ1OJ, this time achieved the top spot RTTY Low Power from Africa

line noise - but you still had pretty good ears through the QRN, George! Yuri, UA9AM, came in third. (continued to page 10)



This is the beautiful Multi-OP shack of PY5EG a.k.a. ZW5B



# 48<sup>th</sup> European DX Contest (WAEDC) CW 2002

Results by Bernhard Büttner, DL6RAI (dl6rai@darf.de)

WAE-DX-Contest Team: DF9LB, DH1NFL, DK1MM, DK2OY, DK6CQ, DL1MGB, DL2LAR, DL2NBU, DL3ABL, DL3DXX, DL4RDJ, DL8WPX, DL8WX, DL9NDS, IV3IYH

## Continental Winners

### Single Operator

Africa	ZS4TX
Asia	P3F
Europe	YL8M
North America	N2NC
Oceania	VK2APK
South America	PJ2M

### Single Operator/LP

Africa	CN2PM
Asia	5B4/GØLII
Europe	LY9A
North America	K4OGG
Oceania	YBØECT
South America	PY7IQ

### Multi Operator

Africa	-
Asia	9K9K
Europe	DL2NBU
North America	KC1XX
Oceania	ZL6QH
South America	LU4FM

### SWL Category

Africa	-
Asia	RUØSN
Europe	LYR-794
North America	-
Oceania	INS-99
South America	-

## Results by Country

Certificate winners are in bold print. Groups behind callsign denote DOK (Germany only), score, QSOs, QTCs and multiplier. A dash '-' after the callsign means that packet spotting was not used (\*unassisted\*).

## Single Operator Europe

### Aland Is.

OHØPM				
(Op. OH2PM)	1151778	901	1078	582

### Austria

OE1TKW	43710	145	165	141
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### Belarus

EW2EG	117	13	0	9
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### Bulgaria

LZ2PL	513408	550	794	382
LZ2RF	335203	369	614	341
LZ1PM	130320	325	218	240

### Czech Republic

OL8M				
(Op. OK1DRQ)	1546292	991	1495	622
OL4M	255024	309	615	276
OK2ABU	140033	272	329	233
OK2WH	104280	395	0	264
OK1AOV	103243	301	0	343
OK1ZF-	88084	246	115	244
OK2SG	34850	170	0	205

### Denmark

OZ4FF	19071	113	50	117
OZ8SW	7161	77	0	93

### England

MØSDX	893510	751	1239	449
G3TXF	862524	600	1146	494
G3SQX-	320720	464	591	304
G4BUO-	170183	379	310	247
G3JJG-	31020	165	0	188

### European Italy

IK2PFL	1069283	790	1239	527
IKØYVV	427460	629	647	335

## Top Scores

Call	Score	QSOs					QTCs	Multipliers				
		80	40	20	15	10		all	80	40	20	15

### Top Ten Single Operator

#### Europe

YL8M	1966965	55	210	358	442	36	1101	1902	112	183	144	164	52	655
DL3TD	1814631	51	175	411	285	58	980	1757	108	177	160	144	74	663
OL8M	1546292	48	226	380	284	53	991	1495	100	162	142	144	74	622
S58A	1354593	53	159	449	277	90	1028	1241	88	147	132	142	88	597
SN7Q	1293061	66	260	397	323	50	1096	1303	100	141	122	128	48	539
LY4AA	1251230	54	182	277	182	34	729	1381	124	165	130	122	52	593
S57DX	1248674	26	177	319	199	62	783	1475	68	165	134	128	58	553
OHØPM	1151778	59	190	360	263	29	901	1078	112	162	134	126	48	582
DL1IAO	1132246	27	103	359	182	53	724	1582	64	123	134	102	68	491
DL7ON	1070622	85	168	315	175	15	758	1293	116	138	130	112	26	522

### Top Ten Single Operator

#### Outside Europe

P3F	2288745	192	440	583	574	316	2105	2110	152	129	90	94	78	543
H2G	2123810	202	284	560	607	366	2019	2011	140	117	96	90	84	527
UA9AM	1850640	199	365	487	483	224	1758	1747	152	126	94	90	66	528
RZ9CO	1796806	224	327	548	523	147	1769	1782	136	120	96	96	58	506
UN4L	1780548	209	409	464	518	256	1856	1763	144	114	82	86	66	492
UA9CDV	1650796	199	296	488	476	122	1581	1522	156	132	96	90	58	532
N2NC	1523376	176	380	635	483	24	1698	1710	124	123	98	76	26	447
RA9SG	1407600	180	395	462	408	116	1561	1567	120	114	86	80	50	450
K4JA	1352952	148	359	480	473	20	1480	1487	132	114	98	88	24	456
NY4A	1307504	126	345	640	458	9	1578	1550	104	126	92	82	14	418

### Top Ten Single Operator/LP

#### Europe

LY9A	1040292	31	84	252	195	39	601	1742	48	102	130	114	50	444
LY6A	677664	29	114	213	152	23	531	1098	48	126	116	94	32	416
9A7P	674772	15	61	266	169	34	545	1394	36	72	108	104	28	348
DL3NCI	670500	22	116	254	107	43	542	958	44	117	138	92	56	447
DH1TW	656196	27	116	302	159	30	634	834	52	123	124	104	44	447
YT7AW	648342	24	53	262	173	45	557	1072	52	72	122	104	48	398
UA2FZ	623666	41	90	218	103	22	474	1093	60	108	112	86	32	398
YZ9A	592416	15	157	277	230	29	708	788	32	114	102	108	40	396
OK1HX	521088	23	67	154	136	30	410	1006	52	72	110	92	42	368
I3FDZ	493652	13	78	235	120	50	496	982	24	78	102	84	46	334

### Top Ten Single Operator/LP

#### Outside Europe

5B4/GØLII	1102520	119	270	361	404	135	1289	1275	116	108	76	74	56	430
RW9QA	763266	109	199	357	335	72	1072	1066	92	93	70	68	34	357
PY7IQ	708700	34	111	287	273	222	927	938	68	90	82	72	68	380
CN2PM	623700	41	191	204	284	122	842	808	76	102	68	80	52	378
RX9FB	550782	87	245	201	289	4	826	828	96	99	62	68	8	333
AY7EE	470310	13	58	257	221	226	775	767	36	63	80	66	60	305
FR5FD	455500	1	14	213	327	353	908	914	4	30	70	76	70	250
UN6G	453600	55	98	188	240	90	671	679	84	78	66	66	42	336
YBØECT	427128	8	75	238	430	143	894	549	24	60	70	82	60	296
K4OGG	394482	12	123	466	156	0	757	772	36	78	78	66	0	258

### Top Six Multi Operator

#### Europe

DL2NBU	2682120	51	253	495	415	88	1302	2303	120	186	166	164	108	744
RU1A	2509052	106	280	444	375	65	1270	1894	172	207	164	168	82	793
HG6N	1751544	46	168	451	352	69	1086	1617	104	150	160	154	80	648
DLØXM	1708928	76	233	464	290	65	1128	1400	128	174	160	136	78	676
M5X	1661189	82	238	385	215	61	981	1660	104	147	158	148	72	629
UU7J	1652550	73	171	401	211	73	929	1466	140	180	144	138	88	690

### Top Six Multi Operator

#### Outside Europe

9K9K	2271744	215	509	587	601	406	2318	2290	132	117	86	86	72	493
RT9W	2139453	257	445	539	550	190	1981	1916	156	129	94	92	78	549
KC1XX	1954902	167	470	652	610	37	1936	1966	144	129	100	94	34	501
N3RD	1765752	139	466	687	557	14	1863	1878	128	132	96	94	22	472
K2NG	1575541	160	414	648	515	9	1746	1763	120	129	92	90	18	449
JA3YBK	1167104	38	231	473	649	95	1486	1522	60	102	88	90	48	388

### Top SWL Category

#### Europe

LYR-794	1592500	150	310	302	293	58	1113	707	188	255	196	164	72	875
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### Top SWL Category

#### Outside Europe

RUØSN	253662	33	77	76	130	25	341	290	60	114	86	102	40	402
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### European Russia

RK4FF	812268	734	1228	414				RK6BZ	57431	253	0	227		UA3XGM	126	9	0	14
RZ3AZ	552780	603	729	415				RV1CC	26216	84	148	113						
UA3TU	478750	442	808	383				UA1CEC-	16422	119	0	138		Fed. Rep. of Germany				
RZ6LG	96254	272	51	298				RA3XO	2048	32	0	64		DL3TD	X34 1814631	980	1757	663
								UA4QK	1302	31	0	42		DL1IAO	A12 1132246	724	1582	491

DL7ON	D04	1070622	758	1293	522
DF3IAL		874176	760	1096	471
DK9IP	A24	709733	650	761	503
DJØIF	E28	514448	503	761	407
DL8WX	K24	421080	392	768	363
DL5XJ	M30	412888	367	655	404
DJ9RR	E03	337990	338	588	365
DL8QS-	145	296140	325	559	335
DK3KD-		291588	491	543	282
DL5JS	R01	277450	471	424	310
DK4MX	X35	270906	439	392	326
DL2MDU	C06	247792	388	523	272
DL5WW	V22	219912	539	0	408
DL1JF	M11	165528	265	419	242
DJ1CW-	I12	131826	519	0	254
DL2RL	C13	109174	240	202	247
DLØMFL					
(Op. DL2JRM)					
S50		61650	183	228	150
DL6UNF	Y27	57204	252	0	227
DL1NEO	-	56718	117	297	137
DL6MHW	W37	36612	105	219	113
DL3BRA		11956	122	0	98
DK5EZ	R29	5734	61	0	94
DK3BN	H15	4399	43	10	83
DL8DXL		4234	63	10	58
DK4RL	Z91	3402	54	0	63
DL4NAC		2660	44	32	35
DJ8KZ	K07	1680	35	0	48
DL2ZA	U15	702	26	0	27
DK5VD	Q08	84	7	0	12
DL4HG	E38	70	7	0	10
France					
F5IN		357749	602	441	343
Hungary					
HA6NL		634100	540	952	425
HA3NU		230724	349	535	261
HA3OU		47800	239	0	200
HA4YG		13728	132	0	104
Latvia					
YL8M					
(Op. LY2TA)		1966965	1101	1902	655
YL2GD		172260	349	191	319
YL2KF		2184	39	0	56
Liechtenstein					
HBØ/DJ9CB-		155584	359	185	286
Lithuania					
LY4AA		1251230	729	1381	593
LY2PX		463372	434	839	364
LY2CY		354090	434	676	319
LY2KM		47656	147	175	148
Luxembourg					
LX1NO		6600	100	0	66
Macedonia					
Z32AF		24220	140	0	173
Netherlands					
PAØJNH		7740	90	0	86
Northern Ireland					
GI4KSH		3744	52	0	72
Norway					
LA7MFA		722335	606	1373	365
Poland					
SN7Q-					
(Op. SP7GIQ)		1293061	1096	1303	539
SP4Z					
(Op. SP4EEZ)		439103	358	685	421
SP9W					
(Op. SP9HWN)		194649	263	450	273
SP5GH		124476	125	381	246
SP3GTS		110776	260	228	227
HF9JP					
(Op. SP9GKM)		26700	178	0	150
SP3OL		14375	115	0	125
SP2BLC		14178	139	0	102
SP2DKI		2538	54	0	47
SP3HUU		1978	43	0	46
SP4ZO		1950	39	0	50
Romania					
YO2BEH		160855	341	266	265
YO6EX		22922	131	26	146
YO9WF		13950	65	121	75
Slovakia					
OM3PA		832197	943	878	457

Slovenia					
S58A		1354593	1028	1241	597
S57DX		1248674	783	1475	553
S56O					
(Op. S51Z)		710056	731	833	454
S56A-		677817	599	822	477
S58MU		55430	129	353	115
Spain					
EA5FID		438444	545	737	342
EA1FBJ		312	13	0	24
Sweden					
SM5D					
(Op. SM5DJZ)		202800	284	366	312
SM7EH		29097	183	0	159
SM6WQB		6912	72	0	96
7S5C					
(Op. SM5CBM)		3534	62	0	57
Switzerland					
HB9CZF-		16128	126	0	128
Ukraine					
UW5Q					
(Op. UR3QCW)		1038695	788	1277	503
UY5ZZ		513258	478	828	393
UYØZG		284988	434	328	374
UU9JH		154224	234	480	216
UT5UGR		80280	148	298	180
UU2JQ		56088	128	241	152
UR7EQ		21060	85	175	81
UZ2H					
(Op. UT5HA)		5022	54	0	93
UW7M					
(Op. UR3MP)		2808	54	0	52
UU5AB		306	17	0	18
UU9JQ		2	1	0	2
United Nations OE					
4U1VIC					
(Op. JH4RHF)		503744	714	374	463
Wales					
GW7X-					
(Op. GW3NJW)		411471	476	703	349
Yugoslavia					
YU1ZZ-		682472	813	928	392

### Single Operator Outside Europe

Argentina					
AY1DZ					
(Op. LU1DZ)		82432	256	256	161
Aruba					
P43JB		43780	220	0	199
Asiatic Russia					
UA9AM		1850640	1758	1747	528
RZ9CO		1796806	1769	1782	506
UA9CDV		1650796	1581	1522	532
RA9SG-		1407600	1561	1567	450
RV9JR		1219974	1392	1419	434
RZ9IR		1127966	1300	1299	434
UA9CDC		893115	1008	999	445
UA9JKA		643356	972	960	333
RA9CGK		365571	694	665	269
RA9ST		298120	499	529	290
RW9SW		151650	369	305	225
UA9FM		126900	335	229	225
RA9AC		114426	350	352	163
RWØUM		97656	321	305	156
UAØAGI		84456	239	220	184
UAØLS		42700	178	172	122
Australia					
VK2APK		498856	980	984	254
VK5GN		69069	219	210	161
VK2AYD		13530	205	0	66
VK2QF		108	9	0	12
Brazil					
PY2NY		842234	1129	1129	373
PV8DX		788073	1062	1109	363
PY7XC		35700	210	0	170
PP7CW		4260	43	28	60
Canada					
VE3KZ		589504	982	970	302
VE3AT		253105	565	570	223
VE3EJ		49140	199	191	126
VA3XRZ		30240	136	116	120

VA3WN		15423	81	78	97
VE7FO		13920	113	119	60
Chile					
CE3BFZ		4740	79	0	60
Cyprus					
P3F					
(Op. 5B4AGN)		2288745	2105	2110	543
H2G					
(Op. 5B4AGC)		2123810	2019	2011	527
Hong Kong					
VR2BG		239514	575	571	209
Iraq					
YI9OM					
(Op. OM6TX)		106400	560	0	190
Japan					
JH3AJU		821106	1425	1446	286
JG3VEI-		326748	741	751	219
JAØQWO		276150	656	659	210
JA5APU		155540	558	553	140
JA6JAP					
(Op. JQ6NAW)		133322	380	369	178
JA7IC		87912	336	330	132
JA9CWJ		81716	329	330	124
JA2FSM		55322	208	190	139
JA2BQX		1508	31	27	26
JAØBMS/1		1040	30	10	26
JA1AAT		272	17	0	16
Jordan					
JY9QJ		1186436	1265	1281	466
JY9NX					
(Op. JM1CAX)		628218	1023	1030	306
Kazakhstan					
UN4L					
(Op. RN9AO)		1780548	1856	1763	492
Madeira Is.					
CT3KU		78210	246	249	158
Mexico					
XE1V		4884	74	0	66
Netherlands Antilles					
PJ2M-		1131600	1381	1379	410
New Zealand					
ZL2AZ-		53703	181	170	153
South Africa					
ZS4TX-		229215	442	443	259
Thailand					
HSØ/G3NOM		605345	913	894	335
Trinidad & Tobago					
9Y4/DL5MAE		162400	406	394	203
United States					
N2NC-		1523376	1698	1710	447
K4JA					
(Op. K9GY)		1352952	1480	1487	456
NY4A-		1307504	1578	1550	418
AA3B		951534	1178	1189	402
K3WW		811750	1061	1064	382
K5ZD		690742	855	859	403
KQ3F		618280	1060	1072	290
W2YC		614514	834	845	366
W2UP		553800	779	781	355
W3BGN		536844	810	807	332
W9RE-		483879	703	716	341
N2ED		412800	791	809	258
KT1V		402960	708	387	368
N4CW		350224	739	745	236
K4TCG					
(Op. KA1DWX)		340692	632	644	267
W4SAA-		285285	572	583	247
K9NW		265872	570	576	232
K4BAI		259077	590	593	219
K2QMF		240384	469	470	256
N9RV		235054	565	549	211
N6AW		207580	523	547	194
K1GU		186052	386	386	241
W3BP		181744	608	620	148
W4QM		176204	404	408	217
W3GG		172704	390	381	224
W3FV		140882	354	340	203
K4LTA		128160	362	350	180
N4ZR		120408	350	346	173
WZ8A		108256	269	275	199
K3DI		106470	258	249	210
N2GC		102828	226	225	228

K4AB		99968	280	288	176
K5YAA		94786	284	287	166
WA3AAN		90650	262	256	175
K2ONP		85800	429	0	200
K1ZZ-		69660	215	215	162
N4MM		55719	184	185	151
K6TA		48471	226	227	107
KFØU		47320	168	170	140
K6XX-		40986	207	207	99
K1YA		36918	146	147	126
W4NTI-		31598	148	111	122
KGØUA		30360	134	130	115
NZ3O		29512	117	100	136
W2OX		28000	101	99	140

<b>European Russia</b>				
<b>RM3C-</b>				
<b>(Op. RA3CW)</b>	<b>422158</b>	<b>414</b>	<b>824</b>	<b>341</b>
<b>RD4M</b>				
<b>(Op. UA4LU)</b>	<b>269538</b>	<b>315</b>	<b>687</b>	<b>269</b>
<b>RA3OU</b>	<b>127428</b>	<b>273</b>	<b>245</b>	<b>246</b>
<b>RW3VZ-</b>	<b>123120</b>	<b>303</b>	<b>129</b>	<b>285</b>
<b>UA6NZ</b>	<b>91392</b>	<b>193</b>	<b>283</b>	<b>192</b>
<b>RA4HW</b>	<b>67488</b>	<b>260</b>	<b>36</b>	<b>228</b>
<b>RU3WR</b>	<b>30081</b>	<b>111</b>	<b>160</b>	<b>111</b>
<b>RX3AGQ</b>	<b>19092</b>	<b>148</b>	<b>0</b>	<b>129</b>
<b>UA6LAM</b>	<b>11304</b>	<b>65</b>	<b>92</b>	<b>72</b>
<b>RA3TT</b>	<b>11036</b>	<b>99</b>	<b>25</b>	<b>89</b>
<b>RU6CZ</b>	<b>7739</b>	<b>62</b>	<b>47</b>	<b>71</b>
<b>RU3DY</b>	<b>4662</b>	<b>63</b>	<b>0</b>	<b>74</b>
<b>UA3DOM</b>	<b>1548</b>	<b>36</b>	<b>0</b>	<b>43</b>
<b>RA3XEV</b>	<b>580</b>	<b>29</b>	<b>0</b>	<b>20</b>

<b>Fed. Rep. of Germany</b>					
<b>DL3NCI</b>	<b>B25</b>	<b>670500</b>	<b>542</b>	<b>958</b>	<b>447</b>
<b>DH1TW</b>	<b>P31</b>	<b>656196</b>	<b>634</b>	<b>834</b>	<b>447</b>
<b>DL1MGB</b>	<b>T18</b>	<b>458016</b>	<b>524</b>	<b>724</b>	<b>367</b>
<b>DL1EFD-</b>	<b>L11</b>	<b>444460</b>	<b>460</b>	<b>792</b>	<b>355</b>
<b>DL3DTH</b>	<b>S07</b>	<b>266152</b>	<b>329</b>	<b>495</b>	<b>323</b>
<b>DL1BUG-</b>	<b>Y18</b>	<b>255840</b>	<b>287</b>	<b>533</b>	<b>312</b>
<b>DL7NS-</b>		<b>239445</b>	<b>359</b>	<b>406</b>	<b>313</b>
<b>DL4JU</b>	<b>R09</b>	<b>228928</b>	<b>310</b>	<b>474</b>	<b>292</b>
<b>DJ2QV</b>	<b>O32</b>	<b>209385</b>	<b>293</b>	<b>412</b>	<b>297</b>
<b>DL1DQW-</b>	<b>S24</b>	<b>207010</b>	<b>272</b>	<b>543</b>	<b>254</b>
<b>DL7MAE-</b>	<b>C25</b>	<b>193032</b>	<b>231</b>	<b>535</b>	<b>252</b>
<b>DL9ABM</b>	<b>H07</b>	<b>181102</b>	<b>270</b>	<b>443</b>	<b>254</b>
<b>DL9EE-</b>	<b>M11</b>	<b>164619</b>	<b>250</b>	<b>353</b>	<b>273</b>
<b>DL3AMA</b>	<b>X06</b>	<b>163392</b>	<b>241</b>	<b>495</b>	<b>222</b>
<b>DK5DQ</b>	<b>O32</b>	<b>158802</b>	<b>269</b>	<b>328</b>	<b>266</b>
<b>DF1DT</b>	<b>O40</b>	<b>137697</b>	<b>252</b>	<b>301</b>	<b>249</b>
<b>DJ9MH</b>	<b>B10</b>	<b>132363</b>	<b>173</b>	<b>520</b>	<b>191</b>
<b>DJ5CG</b>	<b>B13</b>	<b>126895</b>	<b>194</b>	<b>425</b>	<b>205</b>
<b>DL9ZP</b>	<b>V14</b>	<b>119136</b>	<b>260</b>	<b>324</b>	<b>204</b>
<b>DL1ARJ</b>	<b>X28</b>	<b>113518</b>	<b>261</b>	<b>161</b>	<b>269</b>
<b>DL1SAN-</b>	<b>P14</b>	<b>105092</b>	<b>212</b>	<b>347</b>	<b>188</b>
<b>DK1QO</b>	<b>Z65</b>	<b>103532</b>	<b>196</b>	<b>376</b>	<b>181</b>
<b>DK5IM</b>	<b>W37</b>	<b>84108</b>	<b>276</b>	<b>50</b>	<b>258</b>
<b>DJ9AO-</b>	<b>X22</b>	<b>71340</b>	<b>191</b>	<b>301</b>	<b>145</b>
<b>DL1HCM</b>	<b>E03</b>	<b>66150</b>	<b>177</b>	<b>264</b>	<b>150</b>
<b>DL1ASA</b>	<b>F02</b>	<b>65208</b>	<b>146</b>	<b>426</b>	<b>114</b>
<b>DL3KWF</b>	<b>V11</b>	<b>56620</b>	<b>200</b>	<b>98</b>	<b>190</b>
<b>DF5AU</b>	<b>X22</b>	<b>55632</b>	<b>160</b>	<b>144</b>	<b>183</b>
<b>DL5DAV</b>	<b>O32</b>	<b>43384</b>	<b>145</b>	<b>87</b>	<b>187</b>
<b>DL8FP</b>	<b>Z19</b>	<b>40874</b>	<b>158</b>	<b>56</b>	<b>191</b>
<b>DL1EV</b>	<b>R04</b>	<b>39611</b>	<b>170</b>	<b>107</b>	<b>143</b>
<b>DL3KWR</b>	<b>V11</b>	<b>38760</b>	<b>175</b>	<b>29</b>	<b>190</b>
<b>DJ3XK</b>	<b>E31</b>	<b>38532</b>	<b>179</b>	<b>68</b>	<b>156</b>
<b>DL4JYT</b>	<b>S54</b>	<b>37365</b>	<b>138</b>	<b>97</b>	<b>159</b>
<b>DJ6TK</b>	<b>E34</b>	<b>34200</b>	<b>108</b>	<b>192</b>	<b>114</b>
<b>DJ1OJ</b>	<b>C25</b>	<b>31030</b>	<b>124</b>	<b>90</b>	<b>145</b>

<b>DAØYFD</b>					
<b>(Op. DL4NER)</b>					
	<b>B17</b>	<b>28690</b>	<b>92</b>	<b>210</b>	<b>95</b>
<b>DJ4DX</b>	<b>O32</b>	<b>25480</b>	<b>90</b>	<b>106</b>	<b>130</b>
<b>DJ2IA</b>	<b>Y25</b>	<b>24920</b>	<b>140</b>	<b>0</b>	<b>178</b>
<b>DJ2YE</b>	<b>R09</b>	<b>18602</b>	<b>131</b>	<b>0</b>	<b>142</b>
<b>DM3PKK</b>	<b>B14</b>	<b>17262</b>	<b>116</b>	<b>10</b>	<b>137</b>
<b>DL5SVB-</b>	<b>V18</b>	<b>16625</b>	<b>125</b>	<b>0</b>	<b>133</b>
<b>DL1FAA</b>	<b>X06</b>	<b>14986</b>	<b>109</b>	<b>9</b>	<b>127</b>
<b>DJ7LH</b>	<b>T01</b>	<b>13585</b>	<b>95</b>	<b>0</b>	<b>143</b>
<b>DL6UAM</b>	<b>Y24</b>	<b>13420</b>	<b>122</b>	<b>0</b>	<b>110</b>
<b>DL6UKL</b>	<b>Y24</b>	<b>13407</b>	<b>123</b>	<b>0</b>	<b>109</b>
<b>DJ5IW</b>	<b>C27</b>	<b>12600</b>	<b>99</b>	<b>6</b>	<b>120</b>
<b>DJ7ST-</b>	<b>H60</b>	<b>11990</b>	<b>109</b>	<b>0</b>	<b>110</b>
<b>DF1HF</b>	<b>E22</b>	<b>10500</b>	<b>77</b>	<b>28</b>	<b>100</b>
<b>DL2AXJ</b>		<b>10044</b>	<b>93</b>	<b>0</b>	<b>108</b>
<b>DJ3GE-</b>	<b>G52</b>	<b>9996</b>	<b>102</b>	<b>0</b>	<b>98</b>
<b>DK7DN</b>	<b>O16</b>	<b>9612</b>	<b>89</b>	<b>0</b>	<b>108</b>
<b>DK4CU</b>	<b>O12</b>	<b>8364</b>	<b>72</b>	<b>51</b>	<b>68</b>
<b>DL4DRA</b>	<b>S06</b>	<b>8232</b>	<b>84</b>	<b>0</b>	<b>98</b>
<b>DL5AOJ</b>	<b>X24</b>	<b>6633</b>	<b>60</b>	<b>39</b>	<b>67</b>
<b>DF2HL</b>	<b>E25</b>	<b>5740</b>	<b>65</b>	<b>5</b>	<b>82</b>
<b>DL8ZAJ</b>	<b>F09</b>	<b>5229</b>	<b>63</b>	<b>0</b>	<b>83</b>
<b>DL3AZI</b>	<b>X06</b>	<b>4270</b>	<b>70</b>	<b>0</b>	<b>61</b>
<b>DL6RBH</b>	<b>U20</b>	<b>4221</b>	<b>63</b>	<b>0</b>	<b>67</b>
<b>DF1DX-</b>	<b>O16</b>	<b>3876</b>	<b>49</b>	<b>19</b>	<b>57</b>
<b>DHØJAE</b>	<b>Y28</b>	<b>3304</b>	<b>59</b>	<b>0</b>	<b>56</b>
<b>DL1SBF</b>	<b>P51</b>	<b>3300</b>	<b>50</b>	<b>0</b>	<b>66</b>
<b>DH8WE</b>		<b>192</b>	<b>12</b>	<b>0</b>	<b>16</b>

<b>Finland</b>				
<b>OH2NFS-</b>	<b>142680</b>	<b>233</b>	<b>382</b>	<b>232</b>
<b>OH6NIO</b>	<b>84581</b>	<b>301</b>	<b>0</b>	<b>281</b>
<b>OH6RC</b>	<b>20672</b>	<b>131</b>	<b>5</b>	<b>152</b>

<b>France</b>				
<b>F5ICC-</b>	<b>24768</b>	<b>166</b>	<b>6</b>	<b>144</b>
<b>F6FTB/P-</b>	<b>15996</b>	<b>124</b>	<b>0</b>	<b>129</b>

<b>Hungary</b>				
<b>HA/WØYR</b>	<b>132791</b>	<b>404</b>	<b>147</b>	<b>241</b>
<b>HA6IAM</b>	<b>29575</b>	<b>175</b>	<b>0</b>	<b>169</b>

<b>HG5Z</b>				
<b>(Op. HA1CW)</b>	<b>6141</b>	<b>69</b>	<b>0</b>	<b>89</b>
<b>Kaliningradsk</b>				
<b>UA2FZ-</b>	<b>623666</b>	<b>474</b>	<b>1093</b>	<b>398</b>
<b>Latvia</b>				
<b>YL2GN-</b>	<b>150120</b>	<b>246</b>	<b>449</b>	<b>216</b>
<b>YL/RZ3BY</b>	<b>30086</b>	<b>100</b>	<b>207</b>	<b>98</b>

<b>Lithuania</b>				
<b>LY9A-</b>				
<b>(Op. LY3BA)</b>	<b>1040292</b>	<b>601</b>	<b>1742</b>	<b>444</b>
<b>LY6A</b>				
<b>(Op. LY2BM)</b>	<b>677664</b>	<b>531</b>	<b>1098</b>	<b>416</b>
<b>LY1DS</b>	<b>101994</b>	<b>172</b>	<b>362</b>	<b>191</b>
<b>LY2DX</b>	<b>33800</b>	<b>114</b>	<b>146</b>	<b>130</b>
<b>LY2FN</b>	<b>16541</b>	<b>87</b>	<b>52</b>	<b>119</b>
<b>LY2OO</b>	<b>8618</b>	<b>40</b>	<b>99</b>	<b>62</b>
<b>LY2BBF</b>	<b>6216</b>	<b>84</b>	<b>0</b>	<b>74</b>
<b>LY2OU</b>	<b>3162</b>	<b>51</b>	<b>0</b>	<b>62</b>
<b>LY1DT</b>	<b>552</b>	<b>23</b>	<b>0</b>	<b>24</b>

<b>Netherlands</b>				
<b>PAØRRS-</b>	<b>85910</b>	<b>177</b>	<b>428</b>	<b>142</b>
<b>PA5TT</b>	<b>8514</b>	<b>99</b>	<b>0</b>	<b>86</b>
<b>PA3HGF</b>	<b>1496</b>	<b>34</b>	<b>0</b>	<b>44</b>
<b>PA3ELD</b>	<b>1276</b>	<b>29</b>	<b>0</b>	<b>44</b>
<b>PA3CLQ</b>	<b>676</b>	<b>26</b>	<b>0</b>	<b>26</b>

<b>Norway</b>				
<b>LA8OM</b>	<b>4720</b>	<b>59</b>	<b>0</b>	<b>80</b>

<b>Poland</b>				
<b>SP5CJQ</b>	<b>245752</b>	<b>274</b>	<b>610</b>	<b>278</b>
<b>SP1AEN</b>	<b>199692</b>	<b>294</b>	<b>480</b>	<b>258</b>
<b>SP2DNI</b>	<b>84611</b>	<b>208</b>	<b>193</b>	<b>211</b>
<b>SP9NSV/7</b>	<b>78792</b>	<b>251</b>	<b>141</b>	<b>201</b>
<b>SP5MXZ</b>	<b>46806</b>	<b>206</b>	<b>63</b>	<b>174</b>
<b>SP6CES</b>	<b>35616</b>	<b>212</b>	<b>0</b>	<b>168</b>
<b>SP9EMI</b>	<b>31518</b>	<b>164</b>	<b>42</b>	<b>153</b>
<b>SP8BAB</b>	<b>22892</b>	<b>194</b>	<b>0</b>	<b>118</b>
<b>SP5MBA</b>	<b>19875</b>	<b>104</b>	<b>55</b>	<b>125</b>
<b>SQ9FMU</b>	<b>16680</b>	<b>139</b>	<b>0</b>	<b>120</b>
<b>SP9KJU</b>				
<b>(Op. SP9MDY)</b>	<b>11187</b>	<b>88</b>	<b>25</b>	<b>99</b>
<b>SP6FJ</b>	<b>7920</b>	<b>88</b>	<b>0</b>	<b>90</b>
<b>SP7FBQ-</b>	<b>4290</b>	<b>66</b>	<b>0</b>	<b>65</b>
<b>SN1A-</b>	<b>4095</b>	<b>65</b>	<b>0</b>	<b>63</b>
<b>SP5DDJ/5</b>	<b>1443</b>	<b>39</b>	<b>0</b>	<b>37</b>
<b>SP3FYX</b>	<b>168</b>	<b>8</b>	<b>0</b>	<b>21</b>

<b>Portugal</b>				
<b>CT1CJ</b>	<b>408952</b>	<b>468</b>	<b>586</b>	<b>388</b>

<b>Romania</b>				
<b>YO3APJ</b>	<b>474336</b>	<b>495</b>	<b>801</b>	<b>366</b>
<b>YO7FT/P</b>	<b>349943</b>	<b>425</b>	<b>672</b>	<b>319</b>
<b>YR8A</b>				
<b>(Op. YO8AXP)</b>	<b>88953</b>	<b>162</b>	<b>285</b>	<b>199</b>
<b>YO6MT</b>	<b>45312</b>	<b>236</b>	<b>0</b>	<b>192</b>
<b>YO4AAC</b>	<b>24800</b>	<b>106</b>	<b>204</b>	<b>80</b>
<b>YO2QY</b>	<b>12648</b>	<b>93</b>	<b>0</b>	<b>136</b>
<b>YO7VJ</b>	<b>5676</b>	<b>66</b>	<b>0</b>	<b>86</b>
<b>YO2ARV</b>	<b>5460</b>	<b>68</b>	<b>10</b>	<b>70</b>
<b>YO6ADW</b>	<b>5382</b>	<b>69</b>	<b>0</b>	<b>78</b>
<b>YO9FYP</b>	<b>48</b>	<b>6</b>	<b>0</b>	<b>8</b>

<b>Sardinia</b>				
<b>ISØUWX</b>	<b>5920</b>	<b>80</b>	<b>0</b>	<b>74</b>

<b>Sicily</b>				
<b>IT9ORA-</b>	<b>18348</b>	<b>122</b>	<b>10</b>	<b>139</b>

<b>Slovakia</b>				
<b>OM8ON</b>	<b>205128</b>	<b>330</b>	<b>363</b>	<b>296</b>
<b>OM7AG</b>	<b>40239</b>	<b>127</b>	<b>136</b>	<b>153</b>
<b>OM7YC</b>	<b>9792</b>	<b>96</b>	<b>0</b>	<b>102</b>
<b>OM6TX</b>	<b>2538</b>	<b>47</b>	<b>0</b>	<b>54</b>
<b>OM7VF</b>	<b>2501</b>	<b>41</b>	<b>0</b>	<b>61</b>

<b>Slovenia</b>				
<b>S53AU</b>	<b>8732</b>	<b>74</b>	<b>0</b>	<b>118</b>
<b>S57NL</b>	<b>7896</b>	<b>84</b>	<b>0</b>	<b>94</b>

<b>Spain</b>				
<b>EA3KU</b>	<b>295608</b>	<b>454</b>	<b>418</b>	<b>339</b>
<b>EA4DRV</b>	<b>138243</b>	<b>279</b>	<b>402</b>	<b>203</b>
<b>EA1CS</b>	<b>19656</b>	<b>168</b>	<b>0</b>	<b>117</b>
<b>EA1WX</b>	<b>13440</b>	<b>83</b>	<b>85</b>	<b>80</b>

<b>Sweden</b>				
<b>SM6BSK</b>	<b>37365</b>	<b>169</b>	<b>66</b>	<b>159</b>
<b>SM7BJW</b>	<b>14278</b>	<b>121</b>	<b>0</b>	<b>118</b>

<b>Switzerland</b>				
<b>HB9DCM</b>	<b>196700</b>	<b>402</b>	<b>298</b>	<b>281</b>
<b>HB9ARF</b>	<b>102600</b>	<b>311</b>	<b>69</b>	<b>270</b>
<b>HB9AYZ</b>	<b>22172</b>	<b>97</b>	<b>144</b>	<b>92</b>

<b>Ukraine</b>				
<b>UR6QS</b>	<b>227424</b>	<b>290</b>	<b>534</b>	<b>276</b>
<b>UY5TE</b>	<b>120379</b>	<b>203</b>	<b>390</b>	<b>203</b>
<b>UT8IT</b>	<b>107712</b>	<b>210</b>	<b>334</b>	<b>198</b>
<b>UW5U</b>				
<b>(Op. UY2UA)</b>	<b>87264</b>	<b>241</b>	<b>191</b>	<b>202</b>
<b>UU4JO</b>	<b>12978</b>	<b>103</b>	<b>0</b>	<b>126</b>
<b>UX7QD</b>	<b>9676</b>	<b>100</b>	<b>18</b>	<b>82</b>
<				

DL2RTJ	Y09	173728	316	396	244
DF0SX	P51	164261	306	287	277
DF0PT	I38	141264	246	402	218
DL5EBF	L20	40320	143	145	140
DJ3HW	H04	11088	88	0	126

<b>Hungary</b>					
HG6N		1751544	1086	1617	648

<b>Poland</b>					
SP9KRT		42960	125	233	120

<b>Ukraine</b>					
UU7J		1652550	929	1466	690
UT7E		1108728	863	1486	472
UR4IZA		215072	375	377	286
US0Q		5112	71	0	72
UU5A		1760	17	38	32

## Multi Operator Outside Europe

<b>Antarctica</b>					
RIANC		8910	110	0	81

<b>Argentina</b>					
LU4FM		1136625	1502	1529	375

<b>Asiatic Russia</b>					
RT9W		2139453	1981	1916	549
RK9CYA		29853	171	150	93

<b>Brazil</b>					
PX2W		1023932	1372	1344	377

<b>Japan</b>					
JA3YBK		1167104	1486	1522	388

<b>Kuwait</b>					
9K9K		2271744	2318	2290	493

<b>New Zealand</b>					
ZL6QH		931840	1326	1234	364

<b>United States</b>					
KC1XX		1954902	1936	1966	501
N3RD		1765752	1863	1878	472
K2NG		1575541	1746	1763	449
NZ1U		57799	180	179	161

## SWL Category Europe

<b>Austria</b>					
OE50786		570	19	0	30

<b>Belgium</b>					
ONL383		11130	75	31	105

<b>Czech Republic</b>					
OK2-9329		75075	200	125	231

<b>European Russia</b>					
UA3-155-28		435712	458	278	592

<b>Fed. Rep. of Germany</b>					
DE2SAT X23		12	3	0	4

<b>Hungary</b>					
HA5091		19584	122	14	144

<b>Lithuania</b>					
LYR-794		1592500	1113	707	875
LYR672		394716	448	441	444

<b>Sweden</b>					
SM3-8055		3212	44	0	73

<b>Ukraine</b>					
UT1ZZ		126	7	0	18

## SWL Category Outside Europe

<b>Asiatic Russia</b>					
RU0SN		253662	341	290	402

<b>Indonesia</b>					
INS-99		1470	32	10	35

<b>Japan</b>					
JR7HOD		9409	86	11	97
JA2-9329		8	2	0	4

## Disqualification

-none-

## Station Operators

**9A8YL:** 9A8YL(ex-9A6ACY), 9A3CY, **9K9K:** 9K2RR, **DF0PT:** DJ4MH, DK9BW, DL8BCU; **DF0SX:** DL5YM, DE2BWE; **DJ3HW:** DJ3HW, DL10BF; **DL0CAL:** DL9UFB, DL6UJH, DL7VZF; **DL0CB:** DK3WW, DK4WW; **DL0MUE:** DK8RE, DL6UAA, DL6UFN, DL8UAT; **DL0XM:** DL8DYL, DL5LYM, DL4WG, DL8WPX, DL3DXX, DL5AXX, DK7YY, DL4LQM, DL9DRA, DO6WS, DO2WW, DE1DDH; **DL2NBU:** DK2OY, DL2NBU, DL4RDJ, DL6RAI; **DL2RTJ:** DL2RTJ, DL2RTL; **DL5EBF:** DL5EBF, DL1EHS; **HG6N:** HA3OV, HA6ND, HA6PX, HA6NY; **JA3YBK:** JG3KIV, JI3OPA, JH4NMT, JR4ISF, JF4FUF; **K2NG:** K2NG, K2TW, NO2R; **KC1XX:** KC1XX, K1EA, K1GQ, W1FV, KM3T; **LU4FM:** LU8DW, LW9DA, LU2FA; **M5X:** G0IVZ, G4TSH, G4EDG; **N3RD:** N3RD, N3RS, W8FJ; **NZ1U:** KB1H, N1XS; **OE2S:** OE2LCM, OE2VEL; **PX2W:** PY2YU, PY2NDX; **RIANC:** RW1AI, UA1PAC; **RK9CYA:** RA9CKQ, RK9CR; **RT9W:** RU9WX, RW9WA, RV9WB, RV9WA, UA9WFM, RW9WY, RA9WR; **RU1A:** RW1AC, RV1AW, UA1ARX, RA1ACJ; **RZ1QZ:** UA1QM, RW1QD; **SP9KRT:** SP9-1753, SP9EMI; **UR4IZA:** US3IEZ, UR7IA, UY0IX; **US0Q:** UR3QT, UT2QT; **UT7E:** UR5ECE, UR5ECW, UR7EU; **UU5A:** UU3JM, UU5YL; **UU7J:** UU4JMG, UU5JB, UU7JU, UU0JBL, UU0JM; **ZL6QH:** ZL1AZE, ZL2III (DK1II).

## Checklogs

Many thanks to the following stations submitting checklogs: 3A2MD, 4U1TU, 8S0F, 9A4MF, DF3OL, DL1DTC, DL5DWW, DL5KUA, DL5NA, DL6KVA, DL7AQT, DL7UCX, DL7VMM, DL9AWI, HA3GE, HA3OD, J41YM, K4RO, LY1CT, LZ1QZ, LZ2LE, LZ2PS, LZ4RM, LZ4UU, OH1BOI, OK1AOU, OK1DSU, OM1AW, OZ0RS, OZ2JI, PA0FEI, PA3AFF, PY2DBU, PY2ZI, RA1QR, RV3DBK, RW4FX, SM6DUA, SM7/LA9HFA, SP2HMT, SP8HXN, SP8JMA, SP9MDY, SP9XCN, SQ8GHY, UA3AVR, UA6JD, UT5HA, W0ETT, W3HVQ, YL2LY, YO6OBH, YU1GR, ZC4DW.

## Soapbox Comments

**5B4/G0LII:** Great contest as usual, see you in the RTTY. **7K2PBB:** Condx's not good at all, my LOVE 10 m is now goin' down 2 the bottom. PSE QSY 2 the 10 m band, everyone! Am 3rd classed in JA, runnin' ONLY 10 w output and using whip ANT up ABT 13mh but someday, The world's getting' closer and closer 2 me, I feel. **7S5C:** Have to apologize to a few DX operators. My CW interface broke 3 times so they didn't get my exchange No. This contest is fun. But it is even more fun if all my gear was running OK. **AY7EE:** I send my excuse to all European friends who call me near the end of the contest on 80 and I was not ear. I am not in competition conditions as you can see, but until the end of my life, I will to participate in your and other international contest. My congratulations to all the EU operators for his capability copyng the QTCs. wonderful!!! **DJ7ST:** Not only no holiday (of course would have been OH0/DJ7ST), but even QRL on saturday and sunday. But enjoyed the taste of WAEDC for a few hours. **DK1QO:** My first participation in WAE-Contest with my simple rig/antenna. Hard concentration for QTC-traffic, but big fun. Thanks for the nice contest and see you in 2003 **DK5IM:** Die sehr gewöhnungsbedürftige neue Bewertung kompliziert die Abrechnung. WAE künftig ohne mich! **DL0XM:** Grillparty mit angeschlos-

senem Contest. **DL1BUG:** some times a hard job with 100 W and Doublet, but the result is ok. **DL1MGB:** That was my first WAE and I enjoyed it. At the beginning I had some trouble getting all QTCs right in the log, but situation improved by the time. **DL3AMA:** Bedingungen miserabel, aber Multi-Änderung ist super! Auch 100-W-Klasse ist Klasse. **DL3DTH:** Was the first contest from new QTH, Antennas are running fine. Condx were not bad but sometimes tough with low power ... **DL3KWR:** QTC-Verkehr - eine größere Herausforderung als ein Contest an sich. **DL8DXL:** Entschuldigt bitte das kleine Log, bin ein Neusteiger beim WAE-Contest. Beim nächsten Mal bin ich wieder dabei! **DL8FP:** The pleasure in QTC traffic will reduce by working handmade. I'm 63 years old, hi. **DL8QS:** Starting just for fun, any thunderstorms and QSL this year. **ES4MM:** Ants simples, power Tx small, condx not fb - but vy tnx for my favorite contest! hpe cuagn in WAEDC-2003! **G0WJL:** Had some antenna problems but good fun. This was my first CW contest. **G3TXX:** Best part of WAE-CW: the QTCs - I love them! Worst part of the Contest: the frenzy pile-ups following a Cluster spot, with stations just calling and calling without listening. **G4BUO:** Very glad that DARC now recognises unassisted entries. **H2G:** Very bad line noise here caused by fault in street lighting S9 all bands from 2000 to 0600 local time. Can hardly believe that I stayed the course and beat last year's score too. **HA/W0YR:** Many thanks for a wonderful contest. CW op ranks may be thinning out but the quality of those remaining is exceptionally high. **HA5091:** Glad for nice contest in CW! **I1BAY:** All QSO only 5 W my trx Yaesu FT817. **I3FDZ:** New category and multipliers has been a good change, why not reduce the competition time to 36 hours, from sat 1200 to sun 2400? **IR2V:** It should have been a serious effort, but passed my first 13 hours of the contest in bed, with a bad cold, that let me down the whole weekend, and some more days later too. **J41YM:** Condx are going worse and worse especially saturday. Not even one QSO on 10 m with U.S.A. The best surprise was when YJ8MN replayed my CQ. **JF7GDF:** I worked 9 minutes. Thank you. **JG3VEI:** A few weeks before the WAE contest, two typhoons attacked my region and my antenna was broken. I could repair my antenna just after the WAE contest had started. Because I was so tired for repairing my antenna, I could not operate full hours. **JH3AIU:** WAE is the most favorite event during my summer vacation. **JH7QNG:** 71 years old. **JN7OJA:** Thank you excellent CW op in EU. **JP1SRG:** 10 meter band was poor in Japan. **K40CG:** I really like the 36 hour format for single ops. Thanks to DARC for a very fun contest that many folks are missing! **K4TCG:** The best CW contest around! **K6XX:** First try at WAE. **LA7MFA:** Always fun to be part of this one. This year even more QTC and yet another LA best score. **LU1EWL:** My transceiver's power supply kaput at 114717 UTC. I am very grateful to my friend and neighbor Aldo, LU4DKV, who repaired and revived it, making possible my return to the contest at 111707 UTC. Many thanks, Also!!! **LY2PX:** Seems it's time to let younger guys to try they luck in WAE. I think myself I did enough: since 1968 each year in WAE CW, and every time was competing for top positions. It's always sad to say goodbye but it's time to do so. **N3RD:** Great contest! We like the new rule with no 10 minute requirement for the multiplier station. **N6AW:** I never miss the WAE CW, one of my favorite contests. Condx not so good from the west coast this year. **N9RV:** Fun contest. Conditions were bad the first day, but that is part of the game. No one was louder than S8 on 15 all weekend. **NY4A:** Condx down this year but noise/thunderstorms not as bad as normal. Tks for abolishment of S/O 10 Min rule. **OE1TKW:** Was für ein Spaß, die QRC-QTCs' mancher Stationen aufzuschreiben! **OH2NFS:** Enjoyed WAEDC again first time since 1975. QTC-traffic

makes working this CW contest so much fun - even with a sole wire ant. **OK1MNV:** Not very good conds for low power. Not open 10 m to USA. Cuagn in next year! **OK2-9329:** Very good Contest and perfect DX and EU operators. **OM3PA:** Nice fun in the middle of summer. **ON4ADZ:** My first cw contest. I used no pencil or paper. I had a hard time with the QTCs. Glad that the new rules make a 100 w category. **ON4KVA:** First contest WAEDC: nice test. **ONSZO:** Had a great time, worked some nice DX on a simple 20 m dipole and 40 m delta loop. First year of copying QTC. CU all in 2003 for more QTC and hopefully better antennas! **P3F:** AE is a great showcase for slick contest operating. It was a real pleasure to hear so many excellent operators in action. The most contest fun I've had in ages. **PA3AFF:** Just gave away a few points and did listen to (vy QRQ) QTC traffic. **PA3CLQ:** Amazing how many dx stn are qrv and hear hr in PA land in the contest, fb. **PA5TT:** Nice contest, am using older version of TR logging, so hope my edits on mults are ok. **PJ2M:** Still my favorite contest! Lost the computer about 20 minutes in. Thanks to everyone who QSY 'd for me. Hope to see you all next year! **PX2W:** We decided (my brother and me) to entry in contest as MS for the first time in WAE, was cool, but we have some problems. Anyway, to a little pistol and younger group we have a good score, great weekend. **PY2NY:** Not enough to beat PV8DX at north of our country and near of Europe!! Not great conditions, but my best QSO number any WAE Contest. **RU1A:** We would like to thank Contest commettee WAE for rule changes and new multiplier category which made WAEDC much better. **S56A:** Enjoyed ZL6QH, VK6HD & HS0/ G3NOM on 80 m! No USA on 10 m. Nice condx on Sunday. **S7NL:** Mein erstes wae contest, ich bin zufrieden. **SM3-8055:** I am only trying to learn CW, and this is one way to do it: listen in on a CW contest. My CW skill and my score is not high, but my desire to learn CW is much, much higher. Thanks for good practice every one! **SP3GTS:** Very poor conditions on 80 and 10 m, but great fun with QTCs. See you next year. **UA1CEC:** It was my first WAE DX Contest. Not good result but hope to meet all DX stations next year. **UY5ZZ:** New rules is better! I think new rules also good for DX-in this test we have many new DX stations with different prefix! **VE9DX:** Good fun... Enjoy QTCs. Sure wish condx were better. Aurora Friday night did not help... Heard 2 Europeans and worked 1... **VK2APK:** This was my 551st contest. My age is 82 years. Conditions were not so good as last year, resulting in a lower multiplier, but it was the first time I made more than 1000 QSOs and QTCs in this contest. **VK2QF:** Poor conditions! **VK4UW:** Did not operate for very long, thanks for enjoyable contesting. **VK5GN:** hanks for contest not available all weekend but tried to hand out as many QSOs as possible. **VU2UR:** First time sending an electronic log to you. Hope it is acceptable. **W3TMZ:** Conditions not very good, really enjoyed this event. **W4SAA:** Enjoyed my first WAE. Condx poor Saturday, a little better Sunday. Never did hear EU on 10 m. QRN bad on 80 m so few QSOs there. WAE was still great fun. I like the QTCs and contest format. Lots of good operators in this contest. **WZ8A:** Seemed like more multipliers (countries) were participating this year, compensating the score for some poor propagation and QRN conditions. **YL2GD:** Worked just for fun less than 24 hours. **YL8M:** Nice to run pile-up and search for mults and QTC's with second radio. 10 m was died. No any peep from USA here. DX cluster helps very much. **YR8A:** Bad condx in high bands (first day); bin QRN, warm, but was a great pleasure to take part at this wunderbar contest! vy 73! **Z32AF:** Limited time of operation and big software problem during the contest. During the contest nobody asked me for QTC, only to make qsy on other band.







<b>DL2VB</b>	<b>L03</b>	<b>109440</b>	<b>170</b>	<b>438</b>	<b>180</b>
<b>DJ9AO-</b>	<b>X22</b>	<b>108031</b>	<b>175</b>	<b>496</b>	<b>161</b>
<b>DK3QZ</b>	<b>L03</b>	<b>106875</b>	<b>225</b>	<b>250</b>	<b>225</b>
<b>DH6WS-</b>	<b>O30</b>	<b>101010</b>	<b>224</b>	<b>166</b>	<b>259</b>
DL8SDC	P06	98371	166	445	161
DL8FP-	Z19	90640	202	210	220
DH6DAO	O17	76703	189	178	209
DL6FBR	F16	72360	209	126	216
DL7UXG-	D21	71780	170	218	185
DL6MHW-	W37	69459	144	363	137
DL1FAA	X06	68510	187	123	221
DKØMN	C12	56952	179	160	168
DK2ZO	P05	54168	121	245	148
DJ2IE	A24	50978	117	242	142
DJØRØ	L03	46706	116	270	121
DJ1ØJ	C25	45000	200	0	225
DF2HL	E25	40180	108	179	140
DL6JFT	Y18	39195	201	0	195
DH2DBW-	H24	37740	141	81	170
DL3ZAI	F58	36900	137	109	150
DL3AZI	X06	32550	157	18	186
DL4GBA	P09	31020	109	126	132
DL8UWE	Y24	28350	92	133	126
DK3RA	V10	19832	99	49	134
DL3AG	H55	19668	132	0	149
DH2MA-	A23	18600	102	84	100
DF1IAV	A36	17856	124	0	144
DK1YG	T18	17484	141	0	124
DL1EV/P	R04	13855	71	92	85
DL8HCO	E03	13668	80	54	102
DL4DRA	S06	13462	106	0	127
DF5AU	X22	13311	68	85	87
DL6RBH	U20	12154	103	0	118
DH4PSC		12084	88	18	114
DL9GTB	V11	11712	96	0	122
DL4ANI	X06	10790	68	62	83
DL5AØJ	X24	9271	49	78	73
DL1SBF	P51	8000	80	0	100
DK4IO-	A35	6600	50	50	66
DK1RU	O1	6320	69	10	80
DK7FP	L05	5904	82	0	72
DL8UGF	Y24	5530	79	0	70
DF1HF	E22	5328	54	20	72
DJ5QE	N20	4697	61	0	77
DH5AO	X14	4290	55	0	78
DL3AWI	X06	2968	53	0	56
DJ5IR	A24	1665	37	0	45
DL6EZ		1472	32	0	46
DL3KDC		1150	25	0	46
DLØUM					
(Op. DL9FCL)		1122	22	0	51
DH1DA-	P30	900	25	0	36
DL2MIH		650	25	0	26
DL9HCO	E09	442	17	0	26
DJ1VQ	A09	198	11	0	18
DN1MA-	C25	84	7	0	12
DH8WJ	X06	40	5	0	8
<b>France</b>					
<b>F6FJE-</b>		<b>54252</b>	<b>180</b>	<b>94</b>	<b>198</b>
F/DJ6ØZ-		6864	78	0	88
<b>Greece</b>					
<b>SV2AEL</b>		<b>62016</b>	<b>130</b>	<b>278</b>	<b>152</b>
J43J					
(Op. DJ5JH)		38009	191	0	199
<b>Iceland</b>					
<b>TF3VS</b>		<b>1176</b>	<b>28</b>	<b>0</b>	<b>42</b>
<b>Ireland</b>					
<b>E14CF</b>		<b>91392</b>	<b>288</b>	<b>69</b>	<b>256</b>
<b>Kaliningradsk</b>					
<b>UA2FZ</b>		<b>650034</b>	<b>412</b>	<b>1062</b>	<b>441</b>
<b>Latvia</b>					
<b>YL2GN</b>		<b>254880</b>	<b>297</b>	<b>588</b>	<b>288</b>
<b>Lithuania</b>					
<b>LY9A-</b>					
(Op. LY3BA)		1398654	749	1885	531
<b>LY2ØU</b>		<b>199848</b>	<b>238</b>	<b>519</b>	<b>264</b>
LY2DX		79872	137	247	208
LY3CY-		26880	122	70	140
LY2FN		2881	43	0	67
LY2BBF		520	20	0	26
<b>Macedonia</b>					
<b>Z36W</b>		<b>64160</b>	<b>260</b>	<b>141</b>	<b>160</b>
<b>Moldova</b>					
<b>ER3ZZ</b>		<b>10062</b>	<b>78</b>	<b>0</b>	<b>129</b>
ER1BAF		3196	47	0	68
<b>Netherlands</b>					
<b>PAØMIR-</b>		<b>213640</b>	<b>262</b>	<b>610</b>	<b>245</b>
PAØKDM		7668	71	0	108
PAØFEI		576	18	0	32

<b>Poland</b>					
<b>SP9BBH</b>		<b>573270</b>	<b>395</b>	<b>1060</b>	<b>394</b>
<b>SP6IHE</b>		<b>345102</b>	<b>301</b>	<b>717</b>	<b>339</b>
<b>SP6DVP/6-</b>		<b>255732</b>	<b>633</b>	<b>0</b>	<b>404</b>
<b>SP3FYX</b>		<b>146596</b>	<b>306</b>	<b>241</b>	<b>268</b>
SP6FJ		98595	315	0	313
SP3JHY		93060	271	59	282
SP3KRE					
(Op. SQ3HTX)		91096	293	179	193
SP2DNI		38073	120	139	147
SP6AYP		26224	106	70	149
SP3GXH		22770	138	0	165
SP3BVI		22348	151	0	148
SP4AAZ		14740	95	39	110
SP4SHD		13832	104	0	133
SP9EMI		12576	96	0	131
SP2FWC		6320	79	0	80
SQ8GHY		6116	43	96	44
SP6WLF-		5780	68	0	85
SP5CGN		2852	46	0	62
SP2UUU		2268	42	0	54
SP4GFG		1634	43	0	38
SQ4CTS		450	15	0	30
<b>Portugal</b>					
<b>CT1DSC</b>		<b>18648</b>	<b>76</b>	<b>146</b>	<b>84</b>
CT1BNW		18084	137	0	132
<b>Romania</b>					
<b>YO3APJ</b>		<b>241740</b>	<b>470</b>	<b>241</b>	<b>340</b>
<b>YO4AAC</b>		<b>159408</b>	<b>216</b>	<b>522</b>	<b>216</b>
<b>YO6BHN</b>		<b>156310</b>	<b>214</b>	<b>424</b>	<b>245</b>
YO6CFB		95049	174	363	177
YO4GNJ		46216	218	0	212
YO6AJI		36750	148	97	150
YO3CZW		31635	171	0	185
YO6MT		28557	167	0	171
YO8COK		16250	125	0	130
YO7ARY		14112	112	0	126
YO6KQQ		11856	114	0	104
YO5BWI		10600	100	0	106
YO8MI		9984	96	0	104
<b>Slovakia</b>					
<b>OM7YC</b>		<b>16974</b>	<b>123</b>	<b>0</b>	<b>138</b>
OM1AW		4680	52	0	90
<b>Spain</b>					
<b>EA3BOX</b>		<b>400362</b>	<b>469</b>	<b>790</b>	<b>318</b>
EA1AAW		45236	168	95	172
EA4WC-		14500	85	40	116
EA3LS		7571	67	0	113
EA7/EI7CC/P-		1620	45	0	36
EA1BP		1332	37	0	36
EA1WX		744	24	0	31
<b>Sweden</b>					
<b>SL4CM</b>					
(Op. SM4TUG)		127710	473	0	270
SMØGYX-		44000	130	120	176
SM7ATL		32488	122	126	131
SMØFM		12672	99	0	128
SL5ZXR		672	21	0	32
<b>Switzerland</b>					
<b>HB9AYZ</b>		<b>12078</b>	<b>57</b>	<b>126</b>	<b>66</b>
<b>Turkey (Europe)</b>					
<b>TA1/AJ3M</b>		<b>5256</b>	<b>72</b>	<b>0</b>	<b>73</b>
<b>Ukraine</b>					
<b>UT5MB</b>		<b>149310</b>	<b>212</b>	<b>418</b>	<b>237</b>
<b>UY5ZZ</b>		<b>133348</b>	<b>199</b>	<b>430</b>	<b>212</b>
UY7C					
(Op. UR3CMA)		87360	173	275	195
UT2CQ		13932	88	20	129
UYØMF		10416	84	0	124
UR4LKO		7102	47	59	67
UR5FCM		1232	19	25	28
<b>Yugoslavia</b>					
<b>YZ7AA</b>					
(Op. YZ7DNI)		1570751	1254	1693	533
YU7KM		39879	181	8	211

**Single Operator/LP Outside Europe**

<b>Argentina</b>					
<b>AY8A</b>					
(Op. LU8ADX)		302580	619	611	246
AY1ARV		5160	57	29	60
<b>Armenia</b>					
<b>EK3SA-</b>		<b>451668</b>	<b>1132</b>	<b>0</b>	<b>399</b>

<b>Asiatic Russia</b>					
<b>RA9FLW</b>		<b>442560</b>	<b>693</b>	<b>690</b>	<b>320</b>
<b>RA9FEL-</b>		<b>390648</b>	<b>822</b>	<b>766</b>	<b>246</b>
<b>RW9QA</b>		<b>275396</b>	<b>566</b>	<b>572</b>	<b>242</b>
<b>UA9ACJ</b>		<b>272824</b>	<b>523</b>	<b>495</b>	<b>268</b>
<b>UA9CUA</b>		<b>153062</b>	<b>378</b>	<b>376</b>	<b>203</b>
<b>UAØYAY</b>		<b>51000</b>	<b>203</b>	<b>205</b>	<b>125</b>
UA9OA		23352	139	139	84
RK9XYW					
(Op. UA9XØJ)		14280	130	125	56
UA9LAU		1710	57	0	30
RAØANO		180	10	0	18
<b>Brazil</b>					
<b>PY2NY</b>		<b>449616</b>	<b>840</b>	<b>813</b>	<b>272</b>
<b>PY7ZY</b>		<b>173400</b>	<b>436</b>	<b>431</b>	<b>200</b>
<b>PR7FN</b>		<b>125976</b>	<b>346</b>	<b>350</b>	<b>181</b>
<b>ZW1ØØJ</b>					
(Op. PT2PS)		51058	521	0	98
PY2NA		29696	127	129	116
PY7VI		28804	191	188	76
<b>PY4DBU</b>		<b>25024</b>	<b>188</b>	<b>180</b>	<b>68</b>
PT2BW		18146	106	105	86
PY7IQ		2208	28	20	46
<b>PY3SGO</b>		<b>900</b>	<b>30</b>	<b>0</b>	<b>30</b>
<b>Canada</b>					
<b>CK3DZ</b>					
(Op. VE3DZ)		650167	1023	1028	317
<b>VE3BUC</b>		<b>196448</b>	<b>437</b>	<b>440</b>	<b>224</b>
<b>VE3CR-</b>		<b>190164</b>	<b>447</b>	<b>450</b>	<b>212</b>
<b>VE3FWA</b>		<b>119948</b>	<b>315</b>	<b>313</b>	<b>191</b>
<b>CK2AWR</b>					
(Op. VE2AWR)		93939	270	273	173
<b>VE9FX</b>		<b>39730</b>	<b>140</b>	<b>134</b>	<b>145</b>
VE3YQY		37080	160	149	120
VA3PL		36424	164	150	116
<b>VE4YU</b>		<b>26624</b>	<b>128</b>	<b>128</b>	<b>104</b>
VE3AGC		25596	162	0	158
CJ3NU					
(Op. VA3NU)		22407	118	113	97
VE2OWL		9588	71	70	68
<b>VE5SF</b>		<b>6384</b>	<b>68</b>	<b>65</b>	<b>48</b>
VE5MX		2544	29	24	48
VA3IX		1848	42	0	44
<b>Ceuta and Melilla</b>					
<b>EA9AR</b>		<b>79695</b>	<b>251</b>	<b>244</b>	<b>161</b>
<b>Chile</b>					
<b>CE4U</b>					
(Op. CE4USW)		107712	303	309	176
CE4EM		5346	99	0	54
<b>Colombia</b>					
<b>HK3AXY</b>		<b>104052</b>	<b>296</b>	<b>302</b>	<b>174</b>
<b>Costa Rica</b>					
<b>T12KAC</b>		<b>23940</b>	<b>190</b>	<b>0</b>	<b>126</b>
<b>Hawaii</b>					
<b>KH6GMP</b>		<b>896</b>	<b>28</b>	<b>0</b>	<b>32</b>
<b>India</b>					
<b>VU3DJQ</b>		<b>45600</b>	<b>288</b>	<b>282</b>	<b>80</b>
<b>Indonesia</b>					
<b>YBØECT</b>		<b>118125</b>	<b>355</b>	<b>320</b>	<b>175</b>
YC3MM		2880	47	25	40
<b>Iraq</b>					
<b>Y19ØM</b>					
(Op. OM6TX)		246220	947	0	260
<					

European Italy				
IR4T	1951320	2323	0	840
IO2L	477636	721	781	318

Fed. Rep. of Germany				
DF0HQ	X34 4677673	2121	2552	1001
DF0CG	L06 3104232	1869	1809	844
DL5RMH	U08 3050400	1733	2080	800
DL0SE	O32 1807000	1203	1397	695
DK2XZ	F36 1092828	1271	973	487
DL0MB	A24 989092	712	942	598
DF0AW	R29 750360	660	900	481
DF0TX	E38 575287	586	787	419
DF0PT	I38 549900	561	849	390
DL0OS	I12 310758	493	413	343
DL0HGW	V11 212288	308	548	248
DK0SC	B13 206184	316	465	264
DL0SG	U14 187772	348	280	299
DL2RTL	Y09 158589	241	362	263
DL5BCQ	I20 98230	194	276	209
DJ3HW	H04 36120	145	70	168
DL1EHS	L20 11016	102	0	108
DL0ES	O27 7100	32	110	50
DK0DB	O03 1080	27	0	40
DL5DAW	O32 352	10	6	22
DJ4DX	O32 325	13	0	25
DL5DCN	O32 208	8	0	26
DL2DAO	O32 204	7	10	12
DK1DN	O32 168	8	0	21
DL6DAW	O32 120	8	0	15

Hungary				
HG6N	3283640	1964	2156	797

Lithuania				
LY2ZO	975964	886	918	541

Poland				
SO6Y	390233	632	455	359
SN0OTC	155672	215	423	244
SP8KEA	85023	205	218	201
SP3KPN	12423	74	49	101

Romania				
YO3FLQ	17018	127	0	134
YO3KYO	6192	72	0	86

Ukraine				
UU7J	2323191	1386	1383	839
UT7E	312753	299	814	281
UZ4E	9680	80	0	121

Yugoslavia				
YT1AD	2492932	1742	1521	764
YU7AJM	148552	228	371	248

### Multi Operator Outside Europe

Argentina				
LR0N	1762590	2199	2100	410
LU1FC	614005	1197	1120	265

Asiatic Russia				
RK9SWF	228520	496	489	232
RK9CWW	201408	523	526	192

Brazil				
ZW5B	2510298	2438	2371	522
PY1NX	1407525	1853	1822	383
ZX5J	1296064	2464	0	526
PY2ZR	27192	206	0	132

Canada				
VE9MY	519840	851	859	304
CK3BY	284022	521	497	279

Cyprus				
5B4/R3CC	3431376	2835	2664	624

Japan				
JH9YTW/9	0	0	0	0

New Zealand				
ZL6QH	810288	1338	1110	331

Turkmenistan				
EZ3A	988	26	0	38

United States				
K4JA	2097160	2086	1947	520
K2NG	1596248	1659	1612	488

### SWL Category Europe

Austria				
OE500786	132000	330	0	400

Belgium				
ONL383	317688	408	243	488

Bulgaria				
LZ1-H-192	19800	110	0	180

Czech Republic				
OK2-9329	67346	175	127	223

European Italy				
I5-1990	15965	103	0	155

European Russia				
UA3-170-847	2040217	2229	250	823
UA3-155-75	9940	70	0	142

Fed. Rep. of Germany				
DE2EZF	Y24 204474	372	271	318
DE1EDD	136644	267	87	386
DE4BWA	14208	81	67	96
DE2SAT	X23 40	5	0	8

Lithuania				
LYR-794	1987730	1234	784	985
LY1DT	1224960	1146	449	768

Netherlands				
PA-3342	200508	352	82	462

Poland				
SP-0142-JG	110175	325	0	339
SP-0100-ZA	28912	84	124	139
SP8-20-101	5332	52	10	86
SP-0054-ZA	1824	32	0	57

Sweden				
SM3-8055	14328	72	0	199

Ukraine				
US-Q-2115	8658	55	19	117

### SWL Category Outside Europe

Canary Is.				
EA8-1883-URE	185840	368	0	505

Indonesia				
INS-99	2256	18	30	47

Japan				
JA0-4131	12	2	0	6
JA2-9329	8	2	0	4

Uruguay				
CX-N020	155236	187	207	394

### Disqualification

-none-

### Station Operators

5B4/R3CC: RX3DCX, RN3QO, RW3QC, RW3QNZ; CK3BY: VE3BY, VA3UA; DF0AW: DL3EBX, DL8EAQ, DL4EBW, DK8EY, DK5EZ, DK9EP, DF0CG: DF3KV, DH5HV, DJ7EO, DK2OY, DO1ET, JK3GAD; DF0HQ: DK7YY, DL1AUZ, DL3TD, DL5ANT, DL5AXX, DL5YY; DF0PT: DJ4MH, DK9BW, DL8BCU; DF0TX: DL4HG, DL7AT, DL1XAQ, DL5XV, DJ1LD, DL3LEB; DJ3HW: DJ3HW, DF4AJ, DG5YHA, DG6YHA; DJ4DX: DJ4DX, DO3DJ; DK0DB: DK3DM, DL8OBQ; DK0SC: DK6NN, DL8NAS, DL1NSG; DK1DN: DK1DN, DK9DY; DK2XZ: DK2XZ, DK9ZQ, DL2FAG; DL0ES: DH8DAP, DF4DN; DL0HGW: DF8DHG, DL3NSM, DL9GMN, DC2GMA, DC1ASK, DG0GJ; DL0MB: DF2UU, DF3GY, DK9IP; DL0OS: DL8BEH, DJ1CW; DL0SE: DJ2QV, DK5DQ, DL5DAV, DL1ECU, DH2DAM; DL0SG: DH1RN, DJ1ZU; DL1EHS: DL1EHS, DL5EBF; DL2DAO: DF5DR; DL2RTL: DL2RTL, DL3JAT; DL5BCQ: DL5BCQ, DL6YDF; DL5DAW: DL5DAW, DL6DMJ; DL5DCN: DL5DCN, DJ5NU; DL5RMH: DH1NFL, DL1MGB, DL4RDJ, DL5RCW, DL5RMH, DL6RAI; DL6DAW: DL6DAW, DL6UWL; EZ3A: EZ8CW, EZ3AD; HG6N: HA1AG, HA3OV, HA6ND, HA6NF, HA6NY, HA6ON, HA6PX; IO2L: IO2KW, IK2FIL; IR4T: I4UFH, I4YSS, IK4UPB, IK2QEI, IK2NCJ, IK2JUB; JH9YTW/9: JA9NGE, JH9WHX; K2NG: K2NG, NO2R, W2EN;

K4JA: K4JA, K9GY, KE9L, W3BP, LR0N; LU1ND, LU2NI; LU1FC: LU6FF, LU5FZ, LU7FCV, LU1FTR; LY2ZO: LY2NK, LY3NUT, LY2UF; LZ9W: LZ1UQ, LZ1ZD, LZ2CJ, LZ2HM, LZ2UU, LZ3FN; M2Z: M5RIC, G0VHS; OL7R: OK1XUV, OK1WMV, OK1MZM; PY1NX: PY1NX, PY1KX, PY1OB; PY2ZR: PY2ZR, PY2RH; RK9CWW: UA9CIR, RZ9CO; RK9SWF: RZ9SR, RA9ST; SN0OTC: SP9ADU, SP9UPX, SP9ZW; SO6Y: SP6MLU, SP6AYP, SP6JUD, SP6JQC, SP6OPY; SP3KPN: SQ3EPX, SP3GXU; SP8KEA: SP8CIE, SQ8GHC; UT7E: UR5ECW, UR7EU; UU7J: UU4JMG, UU0JBL, UU8JK, UR5MAF, UU2JQ, UU2JZ, UU1JA, UU0JM, UT5UGR, UU8JY, UU8JV, UT3UA, UU3AA; UZ4E: UR4EYN; VE9MY: VE9MY, VE9GLF; YO3FLO: YO3FLQ, MIHNEA; YO3KYO: YO3GCL, YO3FZW; YT1AD: YT1AD, YU1AU, YU1DX, S56A, RZ3AA, K1ZZ; YU7AJM: 4N7TA, YT7XT, 4N7NN, Andrej, Ivan, Stano, Vlado; ZL6QH: ZL1AZE, ZL2III/DK1II; ZW5B: PY2YU, PY2NDX, PY5EG, PY5GU; ZX5J: PP5JR, PP5WG, PY3DX, PY3FOX, ZZ5ABV.

### Checklogs

Many thanks to the following stations submitting checklogs: 8S0F, AB00X, CE3FZL, DL0ELB, DL1DTC, DL2SDQ, DL5DWW, DL5KUA, DL5NA, DL7VMM, DM3BJ, EI9ES, F5RC, GI00UM, HB0/DL2HYH, K2CBI, K4AHC, OK1CJN, PA0EHF, PY2DBU, PY2LEC, RW3DY, SP1DMD, SP1DTE, SP3GHK, SP4ZO, SP6NVK, SP8CIE, SP8HPW, SP8JMA, SP9CVY, SP9GFI, SP9MRQ, SP9SOU, UA3TCJ, UA9OMT, UN6G, UT7WZA, UT8EL, WIHDO, W9EVT, YO6EZ.

### Soapbox Comments

9A7P: Thanks for bringing on low power category. Enjoyed the contest very much! See you next year that's for sure! 9V1UV: My first experience for WAE contest. The QTC traffic made it more interesting. 9Y4/DL2RVS: Man hat deutlich gemerkt, dass das Sonnenfleckenmaximum vorbei ist, aber trotzdem ist einiges im Log gelandet. Selbst mit 100 W und Drahtantenne geht's auf 40 und 80 m bis nach Europa. DJ1VQ: Mit 8 Watt und 3 m Peitsche vom Balkon im Obergeschoss eines Mehrfamilienhauses sind die Möglichkeiten begrenzt. Ich bin ganz stolz, trotzdem mehrere Kontinente erreicht zu haben. DJ3JB: Auf 80 m mit 100 W sehr sehr mühselig... DJ3ST: Mit einem Computerlog kann ich leider nicht dienen, hoffe aber trotzdem in die Wertung zu kommen. DJ7BA: Condx were favorable, and many nice DX countries on all continents were reached with 100 watts only. I appreciate the new power classes. Because of the fast contest operations pileups never grow too large to get the DX. Most stations used QTCs this year. The new country multiplier rules inflated my score by 32 % in comparison. I used a DX Cluster for the first time in a contest, and I like it. DL3AG: Ich wollte nur Punkte verteilen, aber es ist eher sportlich, das Log zur Abrechnung einzureichen! DL7UXG: Habe meine ersten Erfahrungen mit dem QTC-Verkehr gesammelt. Hope cuagn next year. DL8FP: Single Op without PC, DX Cluster all things - do it yourself - and 63 years old. After 40 years participation WAE I decided I lose some concentration, hi. EA1BP: Lots of fun in the mountain with my QRP!! Why not QRP category like in the WAG?? First time taking part in the contest. See you the next!! EA4WC: I come back to the radio since 18 years, now is very different. This is my first participation in this contest, and I think that is very interesting for the QTC. EA8-1883-URE: I hope to do it again next year! E14CF: Really enjoyed my first WAE. 69 qtc's

they take getting used to. F6FJE: A lot of South American stations on the air (10 m band included). Large participation around the world. G3SEM/MM: This was my hardest contest ever. No one wanted to work me, because they all thought I was in Europe. Most people's software didn't allow them to enter a /MM suffix. JA3AOP: This is my 1st entry for WAEDC. I enjoyed QSOs with EU stations especially on 40 and 80 m bands. K9JLS: What a cool contest! I only could play a bit on Friday night & Saturday but was so taken by the contest structure, I quickly built a Dipole Sunday morning and strung it inside my apartment, managed to make 5 more contacts with low power! Normal contest operation is done from my Father's shack (AI9U) about 1 hour from my QTH. Hope to do a FT effort next year! KG4RZH: This is my first participation in a DX contest I used VA QSO software since I knew it, and didn't have a chance to learn one of the approved ones. I submit this log more to ensure the people I QSO ed with get their points if possible, than to earn a lot of points on my own. I enjoyed working countries I had never talked to before. LX7I: Next year will try to get more QTCs. MW5EPA: Battled for around 28 hrs but with just the vertical antenna it was difficult. I enjoyed the QTC's. Though & it was nice to work a few friends as well as some nice DX. Next Year I hope to have a better station & no complaints of Telephone RFI :-). N1WR/3: This was a weekend for Murphy! First, my DVP wouldn't work. I still have a sore throat! Then, one of the microphone adapter cables failed a few hours in. Back to SO1R. Then, the packet wouldn't stay up... ended up using the packet node display and a pencil! And then the power went out for half an hour Sunday afternoon. Special thanks to EI4DW and YO9HP for moving to 40 for me, and Wayne (N1WR) for letting me use his fine station! WAE is still my favorite contest. N2VW: My first WAEDC in 1975 (15,694 points) was my initiation into Contesting. After more than 27 years addicted to Contesting, I don't know whether to curse WAEDC or bless it! Always a fun and a great contest. N6ZZ: Surprisingly good conditions to Europe from New Mexico... the sunspots were kind to us. N8II: About 15...20 % of stations calling sent serial number of less than 10 received! Conditions very poor on 75 M. 10 M was strange, stations from Russia were louder than Germany Saturday. Then Sunday, only the Southern tier of Eu was workable til around 1500 Z. The British isles and Ireland came thru quite late on 10 M for a whopping 5 min or so! Many thanks to EA6/DL6KAC, TF8GX, MD3EIP, ZB2CF, and 9H1PI for QSY'ing to another band for the multipliers. My mult total was great on 15 M, disappointing on 20 M. 15 M was by far the best band with good conditions both days. PA0IJM: A nice contest except the QTC system. I am a contester and not a administrator (hi). PA0KDM: Fine test condx. Below normal. Hope on next year. 79 years young. PA0MIR: Anyway enjoyed meeting with old and new friends. Best QSO was with ZL6QH (on 7 MHz) where I know the operating position exactly, having visited in november 2001. RU4SS: I was very happy to join the contest. See you next year! RW1AC: SO2R all time contest and it was first experience for me. Poor condx on 20 mtrs at nights. VU3DJQ: This is my 3 WAE phone contest. Good propagation conditions. W2YC: Great contest!! Many great operators from EU... tnx to all. WP3GW: Not so good conditions; there were countries I couldn't hear but again happy to be multiplier for some stations; saludos desde Puerto Rico! YL7A: WAE is interesting contest, I like it very much. In 2001 I have problems with QTC log, but now all must be OK. Hope to see in WAE RTTY. YO4GNJ: It's my first WAE Contest.

(continued from page 1)

Low Power from DX was won by Steve, 5B4/GØLLI, - Cyprus is really "the" place for winning WAEDC it seems! RW9QA and PY7IQ came in second and third in this new category.

9K9K operated by Faisal, 9K2RR, won the top spot in the Multi Op category. Faisal operated alone but asked to be put into this category since he had operated 39.5 instead of the 36 hours allowed for Single Ops. The second highest score came RT9W from Bashkiria followed by KC1XX from New England.

The SWL category on CW was won by LYR-794 in Europe and RUØSN outside Europe.

## SSB

The hopes of Toby, DH1TW, were high when WAEDC SSB was over, and high claimed scores showed his callsign on top for a long time.



**Vlad, RW1AC, won first place Single Op Europe on SSB this time**

But then the real winner of the Single Op category turned in his log on the last day: Vlad, RW1AC, from St. Petersburg beat DH1TW, who operated from the QTH of DF3CB in downtown Munich. Mike OE6MBG, operating as OE6Z from Graz, near the Slovenian border, put on a nice effort and came in third. In the Low Power category, a number of big scores show up: Stefan, YZ7AA, who's score would even be good enough for High Power Top Ten set the mark at over 1.5 Million points, followed by Gedas, LY3BA, again operating as LY9A from Birzai, Lithuania. 9A7P operated by Hrle, 9A6XX, came in third again on SSB. Special mention should be made of Helmut, DL7MAE, who logged 444 QSOs and 1,192 QTCs on paper! DFØHQ at Ilmenau brought up all its forces and turned in a new super score of over 4.5 million - beating the 1,000 multiplier barrier. Looks like they established a record that will be hard to beat over the next years. HG6N from Salgotarjan came in second, followed by DFØCG from near the border to the Netherlands.

UA9AM again showed everybody how it's done from the DX side with almost 2.6 million points. Yuri also won this category in 2001. He was followed by George, JY9QJ (DK3QJ) from Amman and Mauri, EA8/OH2BYS, from Sardinia, Gran Canaria.

In the Low Power Category Mohammed, CN8KD, just edged out UP6P (operated by Yuri, UN6P) and is well ahead of Dez, ZC4DW, - who is always a welcome multiplier in WAEDC.

Again Cyprus: 5B4/R3CC turned in a big score from here easily beating the competition from South and North America in the Multi Op category. ZW5B operating from the nice QTH of OMs, PY5EG and K4JA in Virginia, came in second and third respectively.

UA3-17Ø-847 turned in a big SWL score this year, setting a new world record. EA8-1883-URE won the SWL category from outside Europe.

## RTTY

Conditions on RTTY were not very good. Still, a new high in participants allowed for a lot of good QSOs and so Alex, LY3BH, finished first

in the Single Op category - setting a new European record on his way. Yuris, YL7A, and Kari, OH2BP, placed second and third respectively.

In the Low Power class, Valery, EU1MM, Bob, UR5UDX, and Milan, OK2CLW, took the top three positions. Scores of EU1MM and UR5UDX would have been good enough for the high power Top Ten, by the way!

In the Multi Op category, RO4M won over EN7Z from Ukraine and Z37M from Macedonia. On their way to the top, RO4M also established a new European record and a new multiplier record in this mode.

Outside Europe, Wayne, N2WK, just edged out Mike, K4GMH, by less than 1 % and took top honors in the Single Op category. Wayne also set a new RTTY record. Oleg, UA9CDV, from Ekaterinburg came in third.

Jack, WD4GBW, finished first in the Low Power category from DX, beating H2E (operated by 5B4AGE) and Glenn, VA3DX.

In the Multi Op RTTY category, RW9C turned in a large score, setting a new multiplier high. 3XY7C came in second followed by 8P6SH.

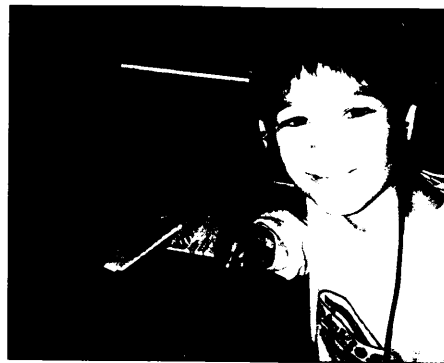
In the SWL category, LYR-794 put in a lot of effort and set a new European record. VE3UWC/W6 was the SWL winner from the DX side.

## New Records

A lot of new records were established in the 2002 contests. Apart from national and continental records, the following new world records were set in 2002 (Low Power records are left out since they were new in this year). RT9W created a new Top Multiplier of 549 on CW, DFØHQ just crossed the 1k mark with 1001 on SSB and RO4M also set a new RTTY multiplier high of 1,362. RW9C from outside Europe also set a new multiplier high mark at 677. In all, 96 new national records were set (again without Low

## New Records

Callsgn	Mode	Category	Region
UA3-17Ø-847	SSB	SWL	EU
RO4M	RTTY	Multi Operator	EU
N2WK	RTTY	Single Operator	DX



**Mark, DN1MA (age 8), probably the youngest competitor in WAEDC 2002**

Power). Compare this to 2001 (73) and 2000 (62) and you can see that 2002 was really a year with a lot of new high scores.

## Coming Up: WAEDC 2003

The 49th WAEDC will be here in just a few months! The good news: „There will not be any major changes to the rules.“ We will leave things as they are for the moment. Propagation conditions are going downhill but let's take this as a challenge and not as an excuse! Please prepare yourself and get up-to-date logging software which can produce either Cabrillo or STF files. These are the preferred data formats we like to receive from you this time. The standard formats make our lives a lot easier and help to reduce the workload.

In the 2002 we had suffered from a major Web server outage, which made the WAEDC logs received listings unavailable for several weeks and also produced some delay in log processing. This problem was cured by setting up a new-dedicated server that is ready to process your logs better and faster. Also the configuration problem that made about 1 % of last year's logs bounce, is solved.

We are looking forward to seeing you again in the WAEDC 2003.

Let us know of your planned operations and we will list you on the WAEDC Web site. By the way, the Web site is also a good place to check out for QTC training!

**Ben, DL6RAI**  
WAE-DX-Contest Manager

## WAEDC 2002 International DX Club Competition

**Winner Europe: Bavarian Contest Club (DL) 30,451,564 points**  
**Winner Non-Europe: Ural Contest Group (UA9) 17,528,193 points**

Listing shows club, club score and number of entries in brackets.

### Europe

Bavarian Contest Club (DL)	30,451,564	(60)
Rhein Ruhr DX Association (DL)	13,415,408	(33)
Russian Contest Club (UA3)	12,490,531	(15)
Kaunas University of Technol. Radio Cl. (LY)	9,201,563	(18)
Ukranian Contest Club (UR)	6,489,741	(15)
YU Contest Club (YU)	5,233,318	(5)
Latvian Contest Club (YL)	5,045,554	(7)
Crimea Contest Club (UR)	4,154,284	(8)
Contest Club Finland (OH)	3,029,927	(3)
Marconi Contest Club (I)	2,553,963	(9)
Cambria (GW)	2,288,552	(3)
Vojvodina Contest Club (YU)	2,221,129	(3)
SP DX Club (SP)	2,052,861	(19)
Croatia Contest Club (9A)	1,757,732	(3)
Moscow Contest Club (UA3)	1,712,970	(3)
Süddeutsche DX Gruppe (DL)	1,191,113	(6)
YO DX Club (YO)	1,176,398	(5)
DX Group Thuringia	1,026,209	(15)

SP Contest Club (SP)	701,075	(5)
Lithuanian DX Group (LY)	628,834	(3)
Vladimir Radio Club (UA3)	590,562	(5)
Top of Europe Contesters (SM)	494,765	(3)
Kontest Klub Krasnodarskogo Kraya (UA6)	297,562	(5)
Slovenia Contest Club (S5)	72,058	(3)

### Outside Europe

Ural Contest Group (UA9)	17,528,193	(20)
Frankford Radio Club (W3)	14,782,876	(31)
Potomac Valley Radio Club (W3)	10,790,198	(34)
Contest Club Ontario (VE3)	6,387,469	(31)
TuPY DX Group (PY)	6,096,994	(12)
Yankee Clipper Contest Club (W1)	2,090,033	(18)
Grupo Argentino de CW (LU)	1,946,287	(5)
Society of Midwest Contesters (W9)	1,401,003	(8)
Guara DX Group (PY7)	1,362,197	(10)
South East Contest Club (W4)	1,075,711	(8)
Florida Contest Group (W4)	1,011,804	(6)
Tennessee Contest Group (W4)	496,404	(3)
Minnesota Wireless Association (WO)	179,251	(3)
Southern California Contest Club (W6)	55,928	(4)



# 48<sup>th</sup> European DX Contest (WAEDC) RTTY 2002

Results by Bernhard Büttner, DL6RAI (dl6rai@darf.de)

WAE-DX-Contest Team: DF9LB, DH1NFL, DK1MM, DK2OY, DK6CQ, DL1MGB, DL2LAR, DL2NBU, DL3ABL, DL3DXX, DL4RDJ, DL8WPX, DL8WX, DL9NDS, IV3IYH

## Continental Winners

### Single Operator

Africa	-
Asia	UA9CDV
Europe	LY3BH
North America	N2WK
Oceania	ZL2AMI
South America	ZX2B

### Single Operator/LP

Africa	EA8/DJ1OJ
Asia	H2E
Europe	EU1MM
North America	WD4GBW
Oceania	YC2ECG
South America	PS7TKS

### Multi Operator

Africa	3XY7C
Asia	RW9C
Europe	RO4M
North America	8P6SH
Oceania	VK6GOM
South America	-

### SWL Category

Africa	-
Asia	-
Europe	LYR-794
North America	VE3UWC/W6
Oceania	-
South America	-

## Results by Country

Certificate winners are in bold print. Groups behind callsign denote DOK (Germany only), score, QSOs, QTCs and multiplier. A dash "-" after the callsign means that packet spotting was not used ("unassisted").

### Single Operator Europe

<b>Austria</b>				
<b>OE1TKW</b>	<b>8763</b>	<b>69</b>	<b>0</b>	<b>127</b>

<b>Czech Republic</b>				
<b>OK2BXW</b>	<b>495556</b>	<b>636</b>	<b>280</b>	<b>541</b>
<b>OK2PCL</b>	<b>82940</b>	<b>290</b>	<b>0</b>	<b>286</b>

<b>England</b>				
<b>GØURR</b>	<b>924292</b>	<b>909</b>	<b>577</b>	<b>622</b>
<b>MØSDX</b>	<b>686952</b>	<b>987</b>	<b>0</b>	<b>696</b>
<b>G4WFG</b>	<b>48360</b>	<b>112</b>	<b>148</b>	<b>186</b>

<b>European Italy</b>				
<b>I1COB</b>	<b>781560</b>	<b>753</b>	<b>583</b>	<b>585</b>
<b>I2SVA-</b>	<b>641861</b>	<b>557</b>	<b>800</b>	<b>473</b>
<b>IV3KAS</b>	<b>169840</b>	<b>400</b>	<b>40</b>	<b>386</b>
<b>IKØNSF-</b>	<b>130162</b>	<b>431</b>	<b>0</b>	<b>302</b>
<b>IK3SSJ</b>	<b>119196</b>	<b>347</b>	<b>40</b>	<b>308</b>
<b>IØJFE</b>	<b>34010</b>	<b>179</b>	<b>0</b>	<b>190</b>
<b>IKØYVV</b>	<b>26564</b>	<b>229</b>	<b>0</b>	<b>116</b>
<b>IK3ASM</b>	<b>10375</b>	<b>83</b>	<b>0</b>	<b>125</b>

<b>European Russia</b>				
<b>RF4R</b>				
<b>(Op. UA4RC)</b>	<b>679104</b>	<b>827</b>	<b>352</b>	<b>576</b>
<b>UA4FCO</b>	<b>505155</b>	<b>849</b>	<b>0</b>	<b>595</b>
<b>UA3LEO</b>	<b>470872</b>	<b>590</b>	<b>239</b>	<b>568</b>
<b>RD4M</b>				
<b>(Op. UA4LU)</b>	<b>242822</b>	<b>376</b>	<b>258</b>	<b>383</b>
<b>RK6BZ</b>	<b>170332</b>	<b>439</b>	<b>0</b>	<b>388</b>
<b>RA3BB</b>	<b>115623</b>	<b>354</b>	<b>89</b>	<b>261</b>
<b>UA6JY</b>	<b>106596</b>	<b>329</b>	<b>0</b>	<b>324</b>
<b>RK3RWL</b>	<b>61776</b>	<b>194</b>	<b>118</b>	<b>198</b>
<b>UA1AFZ</b>	<b>36960</b>	<b>144</b>	<b>76</b>	<b>168</b>

<b>Fed. Rep. of Germany</b>				
<b>DJ5JK</b>	<b>A071094318</b>	<b>848</b>	<b>590</b>	<b>761</b>
<b>DL4MFP</b>	<b>1026152</b>	<b>686</b>	<b>948</b>	<b>628</b>

## Top Scores

Call	Score	QSOs					QTCs	Multipliers				
		80	40	20	15	10		all	80	40	20	15

### Top Ten Single Operator

Europe														
LY3BH	1528631	91	178	258	297	210	1034	959	112	183	146	174	152	767
YL7A	1370402	80	163	233	280	190	946	891	100	192	140	164	150	746
OH2BP	1155959	110	205	262	264	220	1061	458	120	189	146	150	156	761
DJ5JK	1094318	114	154	231	137	212	848	590	140	177	156	134	154	761
HA3LI	1058340	113	100	189	209	152	763	944	128	120	116	132	124	620
DL4MFP	1026152	69	85	153	196	183	686	948	100	132	122	144	130	628
GØURR	924292	105	174	180	247	203	909	577	116	150	112	116	128	622
DF3GY	819192	82	121	93	224	201	721	563	116	144	86	140	152	638
DL6JZ	796740	121	133	199	151	82	686	669	128	126	128	120	86	588
I1COB	781560	80	191	215	135	132	753	583	108	171	114	98	94	585

### Top Ten Single Operator

Outside Europe														
N2WK	1637936	41	147	301	325	267	1081	1371	60	150	162	154	142	668
K4GMH	1626760	39	222	206	256	336	1059	1369	64	186	142	136	142	670
UA9CDV	1222000	80	154	257	234	239	964	916	128	144	128	132	118	650
ZX2B	1201590	0	35	207	336	386	964	1571	0	66	130	142	136	474
UP6P	1099264	64	129	217	262	279	951	857	92	126	118	140	132	608
RX9SR	945024	39	82	238	257	211	827	885	72	102	126	134	118	552
VE1OP	873735	1	93	278	237	186	795	1084	4	135	124	112	90	465
K5AM	848384	8	71	193	229	304	805	852	24	60	116	158	154	512
5B4AHA	660307	25	156	139	173	231	724	787	56	111	82	90	98	437
W7WW	626560	12	82	150	190	226	660	748	40	81	88	120	116	445

### Top Ten Single Operator/LP

Europe														
EU1MM	983968	82	166	257	225	119	849	703	112	144	130	132	116	634
UR5UDX	860652	26	188	211	270	160	855	549	64	165	124	144	116	613
OK2CLW	732530	113	148	0	207	158	626	764	116	141	0	140	130	527
DL3GA	682095	60	72	135	211	145	623	606	104	93	104	148	106	555
YU7AM	649428	82	71	167	134	124	578	618	108	117	108	110	100	543
OH5HCK	642912	64	123	235	243	130	795	389	76	117	114	126	110	543
YO3JF	539682	0	0	120	259	219	598	845	0	0	104	136	134	374
F6FJE	523260	74	97	153	170	112	606	420	104	114	96	110	86	510
UA3SAQ	509675	65	119	132	199	153	668	257	92	123	110	128	98	551
YO3APJ	475152	56	71	159	162	126	574	338	108	69	104	124	116	521

### Top Ten Single Operator/LP

Outside Europe														
WD4GBW	538560	0	18	187	161	170	536	960	0	36	118	108	98	360
H2E	519652	29	64	143	201	249	686	422	72	75	100	102	120	469
VA3DX	488516	14	130	143	106	200	593	429	32	144	108	88	106	478
VE3BUC	436870	8	41	113	165	165	492	614	20	63	98	118	96	395
W9ILY	405972	8	23	125	133	157	446	628	16	42	100	110	110	378
UN6G	387265	17	43	92	179	141	472	589	48	57	76	94	90	365
A45WD	372868	2	70	98	163	174	507	454	8	90	82	110	98	388
W9HLY	366730	7	34	81	143	217	482	428	24	57	80	112	130	403
VE4COZ	359632	1	62	144	181	116	504	560	4	60	80	110	84	338
N1MGO	354620	0	55	169	80	108	412	631	0	78	104	76	82	340

### Top Six Multi Operator

Europe														
RO4M	1914825	112	199	382	381	288	1362	959	120	189	176	180	160	825
EN7Z	1867245	129	269	295	367	270	1330	885	156	219	144	166	158	843
Z37M	1247800	109	173	274	274	239	1069	766	132	144	134	130	140	680
OH2AG	882060	82	136	308	207	154	887	559	96	126	140	120	128	610
DKØIU	764595	123	159	216	142	142	782	525	132	141	114	102	96	585
DN1JC	505890	94	70	180	133	105	582	440	120	75	110	102	88	495

### Top Six Multi Operator

Outside Europe														
RW9C	1785926	56	123	239	241	227	886	1752	96	135	154	146	146	677
3XY7C	734350	0	178	348	201	509	1236	310	0	111	122	102	140	475
8P6SH	311346	1	125	64	88	159	437	445	4	117	62	80	90	353
RW9QA	213570	24	31	121	113	67	356	435	44	48	68	64	46	270
VK6GOM	65472	0	0	25	81	121	227	125	0	0	38	70	78	186

### Top SWL Category

Europe														
LYR-794	661128	72	128	190	167	156	713	265	108	156	126	138	148	676

### Top SWL Category

Outside Europe														
VE3UWC/W6	127224	3	34	83	125	48	293	296	8	42	44	78	44	216

<b>DF3GY</b>	<b>819192</b>	<b>721</b>	<b>563</b>	<b>638</b>	<b>DL8NBE</b>	<b>B10</b>	<b>267030</b>	<b>367</b>	<b>323</b>	<b>387</b>	<b>DL8UFO</b>	<b>26878</b>	<b>151</b>	<b>0</b>	<b>178</b>	
<b>DL6JZ</b>	<b>796740</b>	<b>686</b>	<b>669</b>	<b>588</b>	<b>DF5SI</b>		<b>200202</b>	<b>323</b>	<b>224</b>	<b>366</b>	<b>DL9GFB</b>	<b>8107</b>	<b>67</b>	<b>0</b>	<b>121</b>	
<b>DJ3IW</b>	<b>742050</b>	<b>600</b>	<b>675</b>	<b>582</b>	<b>DL1YFF</b>		<b>166980</b>	<b>236</b>	<b>490</b>	<b>230</b>	<b>DL3AWI</b>	<b>X06</b>	<b>3360</b>	<b>48</b>	<b>0</b>	<b>70</b>
<b>DL4RCK</b>	<b>U13</b>	<b>519480</b>	<b>580</b>	<b>500</b>	<b>481</b>	<b>DK4MX</b>	<b>X35</b>	<b>131868</b>	<b>235</b>	<b>359</b>	<b>220</b>					
<b>DL7VOG</b>	<b>487302</b>	<b>411</b>	<b>600</b>	<b>482</b>	<b>DL3AZI</b>	<b>X06</b>	<b>85608</b>	<b>218</b>	<b>110</b>	<b>261</b>	<b>Finland</b>					
<b>DK6CQ</b>	<b>C25</b>	<b>275012</b>	<b>349</b>	<b>349</b>	<b>394</b>	<b>DK7ZT</b>	<b>F15</b>									



United States			
WD4GBW	538560	536	960 360
W9ILY	405972	446	628 378
W9HLY-	366730	482	428 403
N1MGO	354620	412	631 340
AK0A	295027	454	507 307
KA2D	274380	404	403 340
WX4TM	273600	369	351 380
W0YR/4-	215072	513	59 376
N2BJ	212058	561	0 378
KA2CYN	194928	369	127 393
W1TO	194892	288	308 327
WD9GMK	120668	267	121 311
K1XM	46689	197	0 237
K9BJM	41472	108	180 144
K0RY	39494	117	100 182
K5ZD	37127	115	156 137
K6OWL	11430	68	59 90
K0FX	10062	78	0 129
KS0M	7140	68	0 105
N6BXO-	798	21	0 38

Vietnam			
3W2LWS			
(Op. WA1LWS)	2666	43	0 62

### Multi Operator Europe

European Russia			
RO4M	1914825	1362	959 825

Fed. Rep. of Germany			
DK0IU	E34	764595	782 525 585
DN1JC		505890	582 440 495
DF0PT	138	17710	84 70 115

Finland			
OH2AG	882060	887	559 610

Macedonia			
Z37M	1247800	1069	766 680

Ukraine			
EN7Z	1867245	1330	885 843

### Multi Operator Outside Europe

Asiatic Russia			
RW9C	1785926	886	1752 677
RW9QA	213570	356	435 270

Australia			
VK6GOM	65472	227	125 186

Barbados			
8P6SH	311346	437	445 353

Republic of Guinea			
3XY7C	734350	1236	310 475

### SWL Category Europe

Belgium			
ONL383	591192	673	279 621

Czech Republic			
OK2-9329	79431	192	127 249

Fed. Rep. of Germany			
DE2EF	Y24	178932	347 97 403
DE0WAF	G26	141540	420 0 337
DE2SAT		50	5 0 10

Lithuania			
LYR-794	661128	713	265 676

Poland			
SP-0013-JA	4712	62	0 76

### SWL Category Outside Europe

United States			
VE3UWC/W6	127224	293	296 216

### Disqualification

-none-

### Station Operators

**3XY7C:** DJ6TF, DJ7UC, DK1BT, DL4WK, DL7BO, DL7DF, DL7UFR; **8P6SH:** 8P6SH, 8P6GI; **DF0PT:** DJ4MH, DK9BW; **DK0IU:** DJ4KW, DJ6TK, DK1IP, DL2SWW; **DN1JC:** DL7VBJ, DO3JC; **EN7Z:** UT40Z, UW0ZZ; **OH2AG:** OH2LU, OH2GI; **RO4M:** RA4LW, RA4LZ, RN4LP, UA4LDP, RW4LE, RU4LM; **UA9CGA:** RW9CF, RA9DK; **RW9QA:** RW9QA, UA9QCP, UA9QFF, Alex; **VK6GOM:** VK6GOM, VK6APW, VE3LYC; **Z37M:** Z31MM, Z36W.

### Checklogs

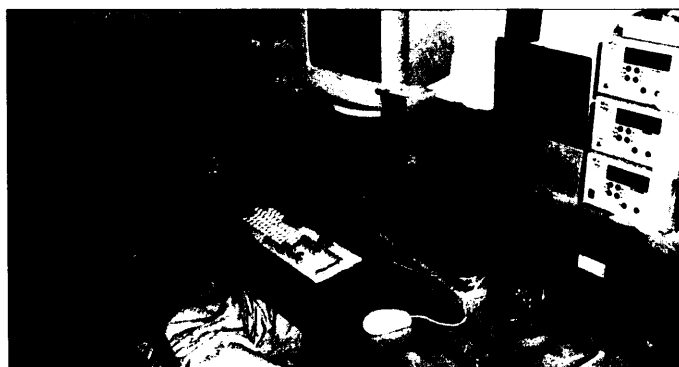
Many thanks to the following stations submitting checklogs: CT9L, DJ9XB, DL1DTC, DL2ARG, DL5JWL, DL7VEE, IK2AUK, N5PU, OZ5MJ, PA3EBP, RA3LX, SP4BOS, SP6AXW, SP9BBH, SP9SOU, UT8EL, UWSU, WA1Z.

### Soapbox Comments

**5B4AHA:** Great Contest as usual. Had a few problems with the qtc's but hopefully managed. Thanks for running the contest and hope to cu again next year. **73 Steve.** **AK0A:** 1st QTC Test, Lots of fun. **DJ6TK:** It ws my first Test with the brandnew RCKRtty-Program. **DL3GA:** Erstaunlich, was auch mit 100 W so alles geht! Ich dachte, ich würde es schaffen, die WF1B-Software auf den aktuellen Stand zu bringen - bzgl. Neuregelung der Multiplikatoren. Leider nicht ... Also alles von Hand korrigieren. Zudem find die Austeilung von QTCs am zweiten Tag wieder mit dem ersten QSO an. Das fiel offenbar auch ein paar anderen Usern auf. Ich hoffe, das ist kein Grund für Probleme, denn QSOs hatte ich eigentlich genug. Für nächstes Jahr ist da wohl eine andere Software fällig ... **DL4MFP:** High Power wg. TVI nur auf 15 u. 10 Meter; ein defekter Kondensator in der Rotorsteuerung verhinderte die effektive Arbeit mit der Antenne (da fehlen doch ein paar Multis). **DL6JZ:** My 2nd entry in a WAE at all and it was fun again. Good participation and fairly

conds. Write Log is an excellent tool for handling QTC's. Thanks to all for this nice weekend. **DL6MHW:** With a minimal configuration a lot of fun in WAEDC. I only connected sound-in and sound-out to my TRX. So I had to footpress the PTT for transmitting all the contest. Despite some fight with the system clock MMTTY worked fine during the contest but after the contest some work was necessary to prepare the entry. **EA8/DJ10J:** Arrived late evening of 8.11 - so just a little bit testing ... **G4EMT:** Thanks for the nice contest, wish I had more time. **GU0-SUP:** Excellent fun, and the new mults structure helps with activity. Great to see 3XY7C taking part too. Shame about the lack of JA's due to the JIDX contest at the same time. **GW4MVA:** 1st WAE RTTY - Thanks for the QSO's, see you next year. **I2SVA:** Poor propagation, not so much participation. **IK2RZP:** Only 3 hours but great fun! **K0COP:** Bad storms. **K0FX:** Got MMTTY working Friday morning and starting the contest Friday evening in the contest. Great way to learn RTTY. First RTTY QSO and first contest QSO. Lots of fun as I thought it would be. Sorry no QTC's, could not figure out how do them on RTTY. Lots to learn and looking forward to it. **K4GMH:** Thanks to all who were kind enough to work me. Appreciate all the contacts and QTCs. Also, thanks to the contest committee. Activity was good and the bands were cooperative. Eighty meters was noisy on Saturday night (local time) caused by storms in the Midwest USA. Couple of equipment problems were experienced. One occurred in the first hour as the power out and the drive from the radio to amp. was not as usual. Found the soundcard output plug had moved out slightly (probably kicked out by the opr. - need smaller shoes or maybe operate only in my socks) and not making good contact. Apologies go to all who I tried to work in the first hour as the signal must have sounded awful. That was the only hardware problem. A software problem occurred in RITTY late Sat. (local time). The RITTY tuning indicator was not tracking the received signal. Also, the cursor would not activate the RITTY bandwidth. Had to restart the computer to get it working. Again, thanks to the folks who participated and to the contest committee. Look for you in the next one. **K5AM:** Location: Horse Mountain vacation cabin. 34N, 108W, DM54wa, 7900 ft (2400 m). No power lines; Honda generator power. **K5ZD:** QTCs on RTTY are even more boring than on CW or SSB. The computer does all of the work! **K6OWL:** Poor showing. Couldn't hear much. QSO with all I could hear. QTCs are cool. First time able to QTC as I am now learning Writelog. **KA2D:** New rules made operating more enjoyable. **KS0M:** Computer crash destroyed the contest program two hours into the contest. After several hours of trying to find the program I went to bed. Saturday (in USA) I had to reinstall the WF1B program and reset all the commands. I finally got back into the contest the last few

hours Sunday. The bands were dead in Missouri and I finally gave up. Bright spot was working 3XY7C on 10/20/40 meters. I will be back next year for this contest and maybe be able to S/R QTC's. **N1MGO:** Great Contest, thanks to all who contacted me, or answered my call. **N2WK:** One of my favorite RTTY contests. Lots of QTC's TX/RX. Still to many "no QTC's" from lots of stations. Software problems was the number 1 reason. I think QTC traffic is improving however. See you in 2003. **OH2AG:** Thank you for another run of the WAEDC RTTY Classic. The new rules seem to attract more participation. Also the conditions were favourable. **OK2-9329:** Very good Contest and perfect operators. My age is 64. Radioamateur from 1962 (CW, SSB). Now also RTTY, BPSK, SSTV. **OK2SWD:** Very good Contest and perfect operators. See you next year again friends. **ONL383:** Although I was back from the hospital it was a must to be active in your wonderful contest and despite a lot of suffering I had a lot of fun. **PA0JR:** My first RTTY Contest. Enjoyed this very much! See you next year again. **SQ6FHP:** Thank you nice contest. I like this contest very much, because good stations calling me. There are all my friends. **UA3SAQ:** Very good contest! **VA3PC:** First contest with QTC's. Had fun. Thanks to all for the q's. **VE2OWL:** Lots of activity, and the ops are very friendly on this contest. **VE3UWC/W6:** Tough to hear Europe down here in Southern California but a great contest none the less! **VE7ASK:** My first WAE RTTY. Had a lot of fun, and learned lots, too. Thanks to the organizers and sponsors! **VE9FX:** This is my all time favorite contest! **W3FV:** True single op (no packet) **W6RLL:** ice to meet several new people in the contest. I hope to have more operating time in the next one. **WD4GBW:** Thanks for another great contest. I enjoy this one the most of all rty tests. **YC2ECG:** This is my first WAE RTTY Contest, only 40 station worked but have a lot fun. **YO3JF:** maybe the most exciting contest of all RTTY ones, due to QTCs! **YU7AE:** My best results in WAEDC, activity vy good but propagations not! **WF1B** and **K6STI** running vy fine (only problem on calculating new mults). **Z37M:** Plane to work this contest from contest location in mountains was cancelled because there was a lot of rain in Friday. So we stay in the city, where the antennas for 40 and 80 m. are not so good. Sorry to all who call us, and we didnt copy them. With not so many experience, we used Write log and MMTTY and louse some qso's on 40 meters. We forgot about the warning, specially for this contest, to save often the log. We miss to made some better score. Any how we have a nice fun again. Thanks to DARC for the nice RTTY contest. See you next year. **ZC4DW:** Condx poor and did not have as much time as I would have liked for this years contest. **ZL2AMI:** Great contest and I was pleased to nearly double my score from last year.



Toby, DH1TW, operating from DF3CB, came in second Top EU after RW1AC keeps his fingers crossed for next year



E21EIC receiving WAEDC Award from the president of R.A.S.T., HS0/G3NOM