

# Results of the 2016 CQWW WPX RTTY Contest

BY ED MUNS, WØYK

*It's not only my first RTTY contest but also my first operation on RTTY...7M4GMH  
The best WPX RTTY contest I've ever operated...AA5AU  
Very exciting contest...DC9ZP  
First RTTY contest ever, but great fun...DL6DH  
Very good condx this year...DL7CX  
First time ever, wonderful!...EE4CP  
My first RTTY contest so it was a bit of a learning curve!...GØWAT  
Great fun, and the bands were alive!...GUØSUP  
Had a great time portable ops Subic Bay, on the ocean, with vertical antenna...DX3R*

**S**olar Cycle 24 has definitely retreated from its second peak last year, with obvious results for the 22<sup>nd</sup> annual contest. Ten-meter activity was significantly down and will likely continue its descent in the next few years. As always, 15, 20, and 40 are the primary bands. With the low-band premium of double QSO points, though, it turns out that 40 meters is the most productive band, by far, and 80 meters is on a par with 20 and 15. Bottom line is that 80 to 15 meters are all very important, regardless of where we are in the solar cycle. Ten meters is only useful during the peaks. This historical table shows percent of QSOs across all logs received for the last seven years:

Band	2010	2011	2012	2013	2014	2015	2016
80	13%	15%	11%	11%	8%	7%	10%
40	27%	28%	23%	26%	21%	21%	23%
20	36%	35%	27%	28%	22%	21%	25%
15	23%	21%	30%	29%	28%	27%	32%
10	0.5%	1%	9%	6%	21%	25%	11%

Records continue to be set, although somewhat fewer this year than in 2015 as the bars are pushed higher. There are still some excellent opportunities, especially in the single-band categories for regional and even world records to be set in the future.

	World		Continent	
	New	Avail	New	Avail
SO10	—	3	1	18
SO15	1	3	5	18
SO20	2	3	3	18
SO40	1	3	1	18
SO80	—	3	—	18
SOAB	—	3	1	18
MSH	—	1	2	6
MSL	1	1	4	6
M2	—	1	—	6
MM	1	1	2	6
Total	6	22	19	132



*WW4LL was operated by Charlie, AA4CF; Steve, W9SN; and Fred, WW4LL, on their way to a new USA Record in MS HP.*

Logs received increased 14% to 3,318 for a total of 1.25 million QSOs. Logs came in from 147 countries and 2,133 prefixes appeared across all those logs. As expected, 9A1A captured the most prefixes at 1,289, a new high. There are a few videos online from the contest, including SV3FUO, VE7JH, and S51J.

## Single-Operator (3040 entries)

There are many Single-Operator entry categories to satisfy a wide range of interests. Low Power remains the most popular power level and 15 meters was the most popular Single-Band category this year as 10 meters continues its decline:

	80	40	20	15	10	SB	AB	SO
QRP	12	8	20	20	6	66	76	142
LP	44	84	97	152	80	457	1364	1821
HP	29	54	47	92	32	254	823	1077
Total	85	146	164	264	118	777	2263	3040

## QRP (142)

Rudolf, TM3T (F5VBT), won the All-Band category, falling short of the world record he set last year. Dmitry, RX1CQ, was second and Fabio, IZ8JFL/1, took third. UN7EG set a new Asia record.

Mike, RT4W, won 10 meters and Simone, IK5RUN, set a new world record on 15 meters. Mikael, SBØA (SMØLPO), set a new world record on 20 meters while Fawaz, A92AA, set a new Asia record there as well. Anil, YB1MBA, is the first 20-meter entry from Oceania, so set the world record for that region. Doby, LZ8U (LZ2TU), won 40 meters and Yasu, 7N4WPY won Asia. Pieter, ON3DI, won 80 meters.

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## 2016 CQWW WPX RTTY CONTEST TROPHY SPONSORS AND WINNERS

### Single Operator All Bands High Power

**World:** Sponsored by Jeff Blaine, AC0C. **Winner: P49X (op: Ed Muns, W0YK)**  
**North America:** Sponsored by John Barber, GW4SKA. **Winner: Bud Trench, AA3B**  
**USA:** Sponsored by Abroham Neal Software by K3NC. **Winner: Jeff Blaine, AC0C**  
**USA 7th Call Area:** Hank Lonberg, KR7X, in memorium of Bob Wruble, W7GG. **Winner: Jeff Stai, KS7AA (op. WK6I)**  
**Europe:** Sponsored by Flex Radio Systems. **Winner: Boyan Petkov, LZ2BE**

### Single Operator All Bands Low Power

**World:** Sponsored by Mike Sims, K4GMH. **Winner: John Bayne, KK9A**  
**North America:** Sponsored by Wayne King, N2WK. **Winner: Doug Ferris, VA3DF**  
**USA:** Sponsored by Jeff Demers, N1SNB. **Winner: Don Hill, AA5AU**  
**Canada:** Sponsored by Mike Donohue, VE3YF. **Winner: Richard Ferch, VE3KI**  
**Oceania:** Sponsored by Doug Faunt, N6TQS. **Winner: Hirofumi Nakamura, A31MM (Op. JA6WFM)**  
**Europe:** Sponsored by Flex Radio Systems. **Winner: Roberto Garcia, EA2RY**  
**CONO SUR (CE-CX-LU):** Sponsored by LU-CG Contest Group. **Winner: Matt Von Frey, CE2MVF**  
**Asia:** Sponsored by Doug Faunt, N6TQS. **Winner: Ozkan Ozal, TA7I**

### Single Operator All Bands QRP

**North America:** Sponsored by Flex Radio Systems. **Winner: Rudolf Ruffer, F5VBT**

### Single Operator Single Band

**3.5 MHz World High Power:** Sponsored by Sue Cook, A16YL/P40YL. **Winner: Tadej Arcon, S52X**  
**14 MHz World High Power:** Sponsored by Steve "Sid" Caesar, NH7C. **Winner: Stephane Van Langenhoven, F4DXW**  
**14 MHz World Low Power:** Sponsored by Kenny Young, AB4GG. **Winner: Simon Shaul, M0SIY**  
**14 MHz World QRP:** Sponsored by John Marranta, KB2HSH. **Winner: Mikael Karlsson, SM0LPO**  
**21 MHz World High Power:** Sponsored by Steve Jarrett, K4FJ. **Winner: Olli Droese, P40FA (Op. DH8BQA)**  
**21 MHz World Low Power:** Sponsored by Wray Dudley, AB4SF. **Winner: Francisco Fernandez, EE7Y (Op. EC7WA)**  
**28 MHz World High Power:** Sponsored by Steve Bookout, NR4M, and the Goat Farm Gang. **Winner: Wanderley Gomes, ZX2B (Op. PY2MNL)**

### Multi-Op Single Transmitter

**World:** Sponsored by CR3A/CQ9K - CT3 Madeira Contest Team. **Winner: OL7M (Op. OK1CID, OK1DF, OK1MU, OK1NOR, OK1XUB, OK2ZAW, OK3KW, OK8XX)**  
**North America:** Sponsored by Mike Benjamin, W2GR. **Winner: WW4LL (Op. WW4LL, AA4CF, W9SN, W4KTR)**  
**USA:** Sponsored by John Lockhart, W0DC. **Winner: K1SFA (Op. K1MK, K1SFA, K1TTT)**

### Multi-Op Single Transmitter Low Power

**USA:** Sponsored by Flex Radio Systems. **Winner: NG1R (Op. W1QK, NG1R)**

### Multi-Op Two Transmitter

**World:** Sponsored by Steve Bookout, NR4M, and the Goat Farm Gang. **Winner: LX7I (Op. LX2A, DF7ZS, DL6ZBN, DK5ON, DF8XC, DG3FK)**  
**North America:** Sponsored by Ed Muns, W0YK. **Winner: K9CT (Op. K9NR, A19T, K9WX, N9CK, K9CT, K3WA)**  
**USA:** Sponsored by CRTI Contest Group, in memorium Chris Seeber KA1GEU. **Winner: NB3R (NJ3I, N3OW, NB3R)**  
**Europe:** Sponsored by Flex Radio Systems. **Winner: LZ7Z (Op. LZ1AO, LZ1FCN, LZ1FY, LZ1GEN, LZ1PV, LZ1RF, LZ3LZ, LZ3TL)**

### Multi-Op Multi-Transmitter

**World:** Sponsored by Steve Bookout, NR4M, and the Goat Farm Gang. **Winner: 9A1A (Op. 9A5W, 9A9A, 9A2DQ, 9A6A, 9A7R, 9A7C, 9A5DDT, 9A7MIM, 9A7CDZ, 9A5AEV, 9A5CPP, 9A5CMM, 9A5CKM, 9A5CPL)**  
**North America:** Sponsored by Fred Dennin, WW4LL. **Winner: NR4M (Op. NR4M, W3TB, NR4C, K7SV, N7TY, K4EC, K4GM, K4MIL, W4IM, KK4RTF, N4DXS, W1IE, N3ZV, KS4Q)**  
**Asia:** Sponsored by Flex Radio Systems. **Winner: RW0A (Op. RA0AM, RW0AR, RZ0AT, RZ0AI, RG0A, RV0AR, RA0ANR, RA0ASG, RU0A, RU0AM, RA0ALB, R0ACG, RA0AAC, RK0A, UA0103112)**

### Club Competition

**World:** Sponsored by Potomac Valley Radio Club. **Winner: Bavarian Contest Club**  
**North America:** Sponsored by Northern California Contest Club (NCCC). **Winner: Northern California Contest Club**

*First ever RTTY contest...DM5EE  
First time I've worked RTTY...KB6NN  
Had a great time on the  
bands...DL8TG  
First RTTY contest good...EA8OG*

### Low Power (1821)

John, KK9A, won All-Band world for the second year in a row, just squeaking past his 2015 score. Roberto, EF2Y (EA2RY), was second, winning Europe. Alex, YO9HP, took third and Doug, VA3DF, placed fourth, winning North America.

Obaid, A61DJ, won 10 meters and Grecia, YY1YLY, took second. Max, KH6ZM, set a new Oceania record for third place.

Francisco, EE7Y (EC7WA), won 15 meters with Julio, YV1KK, a close second while earning a new South America record. Wayne, N2WK, set a new North America record for 6<sup>th</sup> place and Vlad, UN6LN, set a new Asia record for 7<sup>th</sup> place overall.

M9T (M0SIY) won 20 meters.

Marijan, S56A, won 40 meters and Juan, YW5T (YV5JBI), came within 0.6% of his own South America record for 5<sup>th</sup> place overall. Bob, WA1FCN, was 10<sup>th</sup> while narrowly missing the North America record.

Zdenek, OK2HBR, won 80 meters.

### High Power (1077)

Ed, P49X (W0YK), won All-Band world while Boyan, LZ8E (LZ2BE), took second, barely missing the Europe record. Bud, AA3B, was third, unfortunately falling short of the North America record he set last year.

Wanderley, ZX2B (PY2MNL), won 10 meters with a second place all-time score. Juan, LT0H (LU3HY), was second this year.

Olli, P40FA (DH8BQA), won 15 meters for a new South America record and the second place all-time high score. Kari, EB8AH (OH4KA), was second place this year and Sasa, 9A705Y (9A3NM), came very close to the Europe record for third place.

Stephane, TM6M (F4DXW), won 20 meters and Serge, 5B4AMM, set a new world record on 40 meters. Tadej, S52X, won 80 meters.

### Multi-Operator (139)

Multi-Single is the most popular multi-operator category by far:

MSL	MSH	M2	MM
51	58	20	10



← Alexwy, EW3A, having fun on 40 Meters LP.

### Multi-Single Low Power (51)

The first three places broke the previous Multi-Single Low Power world record: M0A (G8APB, G0BSU), DQ4W (DK7MCX DL2MLU, DL6RAI), and UZ0A. Very close in 4<sup>th</sup> place was 9A7T (9A2EU, 9A4KJ, 9A4OP, 9A5MR, 9A5CB, 9A7DR). YE1ZAT (YC1DPM, YC1ME, YF1DO, YC1MR, YD1DGZ, YD1JZ, YD1OLG, YD1DOQ, YD1ORZ) set a new Oceania record for 7<sup>th</sup> place. RY0A (RY0A, RA0AY) took 12<sup>th</sup> place for a new Asia record. ET7L (UW7LL, UR4LRQ) set a new Africa record.

## 2016 CQWW WPX RTTY TOP WORLD SCORES

<b>SINGLE OPERATOR HIGH POWER ALL BAND</b>	
P49X (W0YK).....13,504,680	
LZ8E (LZ2BE).....8,109,504	
AA3B.....7,867,328	
SN7Q (SP7GIQ).....6,798,155	
UT5M (UR5MID).....6,525,696	
UW1M.....6,206,368	
LB8IB.....5,683,559	
UW3U (UT7UJ).....5,433,982	
II2V (IK2NCJ).....5,393,232	
AC0C.....4,929,946	
<b>28 MHz</b>	
ZX2B (PY2MNL).....1,758,058	
LT0H (LU3HY).....1,148,080	
YT5W (YU1AU).....634,382	
LZ5R (LZ1JZ).....486,150	
LU5VV.....450,328	
<b>21 MHz</b>	
P40FA (DH8BQA).....3,888,599	
EB8AH (OH4KA).....3,473,820	
9A705Y (9A3NM).....3,131,700	
PT2CM (PT2FE).....2,678,312	
R7AB.....2,095,444	
<b>14 MHz</b>	
TM6M (F4DXW).....3,024,060	
DM1A (DL1IAO).....2,153,088	
GM3W (GM3SEK).....2,119,355	
IZ4NIC.....2,053,930	
S57DX.....2,014,110	
<b>7 MHz</b>	
5B4AMM.....5,693,310	
YU7U.....3,659,712	
SN2M.....3,504,988	
K9OM/4.....2,192,256	
R7CD.....2,176,356	
<b>3.5 MHz</b>	
S52X.....2,138,240	
I4AVG.....1,530,272	
SQ2RGB.....1,220,002	
IZ0KBR.....1,131,792	
OK2SFP.....1,028,600	
<b>LOW POWER ALL BAND</b>	
*KK9A/4.....5,279,890	
*EF2Y (EA2RY).....3,882,669	
*Y09HP.....2,998,245	
*VA3DF.....2,810,605	
*PJ6/NM1Y (NM1Y).....2,680,525	
*UR6EA.....2,494,915	
*AA5AU.....2,461,050	
*TA7I.....2,378,880	
*VE3KI.....2,041,490	
*UT8EL.....1,929,080	
<b>28 MHz</b>	
*A61DJ.....1,753,436	
*YY1LY.....1,458,700	
*PU1MKZ.....976,360	
*EF8J (EA8CNR).....657,105	
*R9VA.....500,830	
<b>21 MHz</b>	
*EE7Y (EC7WA).....1,807,465	
*YV1KK.....1,734,798	

*ES5Q (ES5RY).....1,482,226	
*Z36N.....1,444,200	
*EA8DED.....1,351,875	
<b>14 MHz</b>	
*M9K (M0SIY).....1,533,872	
*OG90AA (OH8KVY).....572,000	
*KH6ZM.....541,383	
*YT2AAA.....495,957	
*YV5AAX.....420,195	
<b>7 MHz</b>	
*S56A.....2,384,000	
*YU1AST (YT2T).....1,763,580	
*IK3TPP.....1,714,620	
*YO4NF.....1,325,870	
*YV5T (YV5JBI).....1,323,328	
<b>3.5 MHz</b>	
*OK2SAR.....563,580	
*OM3ZWA.....560,142	
*OK2HBR.....552,636	
*E77AW.....532,770	
*OK4K (OK1BOA).....503,972	
<b>QRP ALL BAND</b>	
TM3T (F5VBT).....1,594,104	
RX1CQ.....1,066,456	
IZ8JFL/1 (IZ8JFL/1).....1,008,900	
OK2FD.....866,096	
Y08RAA.....692,184	
K2YG.....540,400	
DO1FCB.....472,976	
KE8M.....461,678	
EA1GT.....336,555	
OH2LZI.....320,212	
<b>28 MHz</b>	
RT4W.....55,488	
R7NA.....13,464	
K6OO.....9,112	
IZ3NVR.....8,874	
LA1DSA.....1,232	
<b>21 MHz</b>	
IK5RUN.....267,540	
TM9K (F5BEG).....112,515	
HA3HX.....80,444	
SP4LVK.....72,329	
OE5TKM.....54,234	
<b>14 MHz</b>	
SB0A (SM0LPO).....399,438	
YL3DJ.....163,170	
HG6C (HA6IAM).....123,432	
A92AA.....87,084	
S06PNP.....71,154	
<b>7 MHz</b>	
LZ8U (LZ2TU).....302,148	
7N4WPY.....23,270	
IZ2QKG.....21,316	
GM0HVS.....7,470	
<b>3.5 MHz</b>	
ON3DI.....216,776	
IK4UXA.....110,136	
DK6SP.....95,904	

Y08WW.....70,328	
9A4AA.....67,100	
<b>MULTI-OPERATOR SINGLE TRANSMITTER (HIGH)</b>	
OL7M (OK1CID).....10,565,802	
HG7T (HA7TM).....10,456,812	
IQ1RY (I1BEP).....9,670,920	
ED1R (EA1AR).....9,616,320	
IQ9UI (IW9GTD).....8,565,960	
V55V (DD8ZX).....8,309,030	
HG1S (HA1TJ).....7,980,651	
9A5D (9A3AW).....7,841,658	
WW4LL.....7,507,472	
IQ6AN (IK6VXO).....7,331,345	
<b>MULTI-OPERATOR SINGLE TRANSMITTER (LOW)</b>	
*M0A (G8APB).....2,844,486	
*DQ4W (DK7MCX).....2,591,057	
*UZ0A.....2,358,895	
*9A7T (9A2EU).....2,292,968	
*DF0BLM (DH7TS).....1,918,752	
*LY16W (LY1FW).....1,906,868	
*YE1ZAT (YC1DPM).....1,790,415	
*RK3PWR.....1,778,894	
*IQ2CU (I2XLF).....1,756,530	
*ED3O (EA3AYO).....1,497,678	
<b>MULTI-OPERATOR TWO TRANSMITTER</b>	
LX7I.....13,356,595	
K9CT.....12,224,268	
LZ7A.....9,772,958	
SZ1A.....9,621,045	
9A5K.....8,150,652	
DK0WRTC.....7,704,792	
NB3R.....6,760,825	
WX3SKY.....5,907,300	
NW1E.....5,006,458	
ED2C.....4,937,670	
<b>MULTI-OPERATOR MULTI-TRANSMITTER</b>	
9A1A.....26,470,904	
RW0A.....16,376,070	
NR4M.....13,595,231	
DR5N.....13,239,565	
DG1VL.....9,627,900	
YL4U.....8,551,391	
OHSC.....7,192,277	
Y79A.....707,126	
OK1RPL.....99,541	
JE1ZWT.....34,680	
<b>ROOKIE HIGH POWER ALL BAND</b>	
ER5LL.....767,142	
OK7LO.....374,480	
SV2KF.....310,426	
VE3TCV.....258,266	
UT7EJ.....208,445	
J11ANI.....14,152	
SV2JU.....4,848	
WD8ANZ.....1,120	
<b>21 MHz</b>	
A96A.....282,124	
YD9SBP.....166,246	

<b>14 MHz</b>	
IU1FQQ.....93,396	
<b>7 MHz</b>	
WK9JU.....479,516	
A61EK.....412,676	
<b>LOW POWER ALL BAND</b>	
*IU4CHE.....1,239,446	
*CR5U (CS7AJL).....855,525	
*UN5GAV.....490,420	
*SI6I (SA6CMMO).....483,472	
*GM4UQG.....422,816	
*2E0DSQ.....332,061	
*EA2BF.....259,992	
*WP4PGY.....244,545	
*EW4FG.....208,534	
*DL1XG.....204,792	
<b>28 MHz</b>	
*YY1LYL.....1,458,700	
*PU8TAS.....13,386	
<b>21 MHz</b>	
*BH4OUF.....112,288	
*OE5TKM.....54,234	
*BI4OJF.....8,758	
<b>14 MHz</b>	
*IK8LXI.....118,080	
*A92AA.....87,084	
*RK3SWS.....7,526	
*KC1DDO.....5,141	
*K1AUS/7.....1,512	
<b>7 MHz</b>	
*9A3DZH.....108,416	
*IU2CIQ.....22,940	
<b>3.5 MHz</b>	
*YU4OIZ.....122,450	
<b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b>	
RT9S.....3,559,005	
GW0A.....3,014,787	
N3QE.....2,913,318	
DM5TI.....2,632,200	
DL6NDW.....2,623,752	
M3I (G00RH).....2,233,808	
K3MD.....1,965,414	
WX1S.....1,958,372	
GM8SBH (GM0FGI).....1,947,954	
AD5XD.....1,919,670	
<b>28 MHz</b>	
ZX2B (PY2MNL).....1,758,058	
EA5FID.....61,476	
ZM3T (W3SE).....40,932	
AA7V.....33,152	
DL3HAH.....23,316	
VU2IBI.....17,850	
<b>21 MHz</b>	
WK7S (K6LL).....1,639,338	
UA3RF.....1,349,842	
UN4PG.....992,750	
W9ILY.....899,198	
UA6LJB.....664,384	

<b>14 MHz</b>	
GM3W (GM3SEK).....2,119,355	
EA8CMX.....1,129,056	
IW3ORM.....1,110,796	
US0MS.....481,032	
EU1DX.....339,426	
<b>7 MHz</b>	
K9OM/4.....2,192,256	
EU4E.....1,533,072	
SV3FUO.....848,392	
UR4MG.....369,420	
W9AKS.....54,064	
<b>3.5 MHz</b>	
OK2SFP.....1,028,600	
SP5DL.....171,292	
EA5DM.....65,148	
UT8EU.....47,488	
KX7L.....8,778	
<b>LOW POWER ALL BAND</b>	
*RA9AU.....1,899,562	
*RG5A.....1,797,152	
*UT5EPP.....1,737,580	
*GM1C (GM1BSG).....1,661,060	
*SP9H.....1,638,756	
*DJ8OG.....1,468,848	
*R77N.....1,421,892	
*US6CO.....1,347,104	
*DL3SYA.....1,202,080	
*ON4CT.....1,196,419	
<b>28 MHz</b>	
*EF8J (EA8CNR).....657,105	
*NH7AA.....336,000	
*ER100.....141,940	
*LU9EHU.....137,052	
*NP3YL.....47,880	
<b>21 MHz</b>	
*EA8DED.....1,351,875	
*W1ZD/7.....503,139	
*IW9FDD.....498,510	
*YT9VM.....434,826	
*R5ACQ.....245,032	
<b>14 MHz</b>	
*M9K (M0SIY).....1,533,872	
*YT2AAA.....495,957	
*SB0A (SM0LPO).....399,438	
*LU5FF.....398,160	
*YO2IS.....384,983	
<b>7 MHz</b>	
*YU1AST (YT2T).....1,763,580	
*IK3TPP.....1,714,620	
*OK2RU.....1,070,080	
*S51DX.....946,308	
*Z39A.....734,296	
<b>3.5 MHz</b>	
*SP9BMM.....493,728	
*LA/DL7URH (DL7URH).....413,920	
*UR7CB.....114,240	
*IW4EGX.....102,900	
*DK6SP.....95,904	



**SZ1A:** The team at the SZ1A M2 which took 3rd in Europe and set a new SV record were Kostas, SV1DPI; Dimitris, SV1CIB; Spiros, SV1JMO; (on next page) Vasilis, SV1JMC; Cliff, SV1JG; and Sotiris, SV1BDO.

### 2016 CQWW WPX RTTY TOP UNITED STATES SCORES

<b>SINGLE OPERATOR HIGH POWER ALL BAND</b>	
AA3B.....	7,867,328
AC0C.....	4,929,946
KS7AA (WK6I).....	4,104,565
KF2O.....	3,186,414
W06K (N6IE).....	3,084,400
N3QE.....	2,913,318
W3FV.....	2,847,495
WE9V.....	2,766,150
AB3CV.....	2,720,256
NR2C.....	2,527,380
<b>28 MHz</b>	
WZ7ZR (W7ZR).....	167,948
AA7V.....	33,152
N3UA/4.....	31,772
N3ND/4.....	6,533
<b>21 MHz</b>	
K8IA/7.....	1,902,800
WK7S (K6LL).....	1,639,338
W9ILY.....	899,198
W8JWN.....	563,448
AG2T.....	268,498
<b>14 MHz</b>	
K7BV/4.....	905,808
N7NM.....	671,370
KZ7X.....	260,929
W3RTY.....	238,784
<b>7 MHz</b>	
K90M/4.....	2,192,256
K4GMH.....	2,102,100
WK9U.....	479,516
W0IY.....	64,750
W9AKS.....	54,064
<b>3.5 MHz</b>	
KX7L.....	8,778
<b>LOW POWER ALL BAND</b>	
*KK9A/4.....	5,279,890
*AA5AU.....	2,461,050
*KS1J.....	1,318,800
*WB5TUF.....	1,268,925
*KA2D.....	1,114,245
*K2LNS/3.....	1,039,500
*WB4YDL.....	1,038,185

*W3KB.....	1,038,048
*NT0F.....	1,030,436
*WN6K.....	784,628
<b>28 MHz</b>	
*N2WN/4.....	69,300
*KB3JZB.....	23,055
*NA4W (K4WI).....	16,906
<b>21 MHz</b>	
*N2WK.....	1,314,920
*W1ZD/7.....	503,139
*N2NF.....	468,496
*K7WP.....	274,512
*WN0L.....	175,872
<b>14 MHz</b>	
*W4LC.....	327,488
*K6GHA.....	286,090
*N9TF.....	212,064
*K4PZC.....	43,884
*AB0P.....	34,450
<b>7 MHz</b>	
*WA1FCN/4.....	771,528
*KA9O.....	120,666
*W2VTV.....	84,378
*WA1HEW/3.....	57,600
*KC0DEB.....	44,128
<b>3.5 MHz</b>	
*AB1J.....	93,572
*AB9YC.....	78,880
*N5RN.....	54,180
*W8JGU.....	19,256
*W7PP.....	17,550
<b>QRP ALL BAND</b>	
K2YG.....	540,400
KE8M.....	461,678
W6QU (W8QZA).....	268,355
K8ZT.....	100,890
W0RAA.....	90,534
N8ME.....	68,620
AB3WS.....	49,278
NE5LL (N1CC).....	43,148
WF0T.....	33,516
WB9QAF/0.....	24,645
<b>28 MHz</b>	
K600.....	9,112

<b>21 MHz</b>	
N5JE.....	46,464
WD9FTZ/8.....	36,600
<b>14 MHz</b>	
KB2HSH.....	28,188
NK5G.....	20,900
K6VHF.....	11,096
<b>3.5 MHz</b>	
K3TW/4.....	216
<b>MULTI-OPERATOR SINGLE TRANSMITTER (HIGH)</b>	
WW4LL.....	7,507,472
K1SFA (K1MK).....	7,077,954
N00DX (W0LSD).....	4,703,694
NV9L.....	4,455,634
NN4MM (AA4YL).....	2,166,496
KT1I.....	1,341,130
AA5B.....	1,273,992
K7JR (K7MK).....	1,192,516
K7ZS.....	1,127,610
K7RI.....	1,101,600
<b>MULTI-OPERATOR SINGLE TRANSMITTER (LOW)</b>	
*NG1R (W1QK).....	1,335,180
*KN5S (KS5TX).....	563,174
*NY6DX/2.....	483,658
*KI6DY/0.....	235,942
*NF2RS (K2Q0).....	167,832
*KU9V.....	35,226
*AA5NT.....	33,120
*KI5EE.....	17,954
*WW2NJ (KG2GL).....	6,820
<b>MULTI-OPERATOR TWO TRANSMITTER</b>	
K9CT.....	12,224,268
NB3R.....	6,760,825
WX3SKY.....	5,907,300
NW1E.....	5,006,458
KB80.....	3,914,160
N0NI.....	3,621,102
KN5TX.....	3,596,863
WB8SKP/4.....	436,912
<b>MULTI-OPERATOR MULTI-TRANSMITTER</b>	
NR4M.....	13,595,231

<b>ROOKIE HIGH POWER ALL BAND</b>	
WD8ANZ.....	1,120
<b>28 MHz</b>	
WK9U.....	479,516
<b>LOW POWER ALL BAND</b>	
*AC2QY.....	195,930
*AD2KA.....	187,054
*KD2HEK.....	168,000
*KW4CR.....	104,130
*WA8RPK.....	96,534
*NF4E.....	84,303
*K8SE.....	75,192
*N2HMM.....	67,195
*NK9O.....	66,164
*A16EJ.....	60,771
<b>14 MHz</b>	
*KC1DDO.....	5,141
*K1AUS/7.....	1,512
<b>3.5 MHz</b>	
*KC1ANM.....	286
<b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b>	
N3QE.....	2,913,318
K3MD.....	1,965,414
WX1S.....	1,958,372
AD5XD.....	1,919,670
W0ELT/9.....	1,481,184
W6SX.....	1,462,599
WD5K.....	1,391,920
NY4I (W4CU).....	1,154,000
WD9Q.....	915,513
W6AEA/7.....	896,584
<b>28 MHz</b>	
AA7V.....	33,152
<b>21 MHz</b>	
WK7S (K6LL).....	1,639,338
W9ILY.....	899,198
WV6I (N6WM).....	43,648

<b>14 MHz</b>	
KZ7X.....	260,929
W3RTY.....	238,784
<b>7 MHz</b>	
K90M/4.....	2,192,256
W9AKS.....	54,064
<b>3.5 MHz</b>	
KX7L.....	8,778
<b>LOW POWER ALL BAND</b>	
*KA2D.....	1,114,245
*K2DSL.....	593,806
*WB2RHM/4.....	549,974
*KY3W.....	506,399
*KM6Z.....	477,286
*NN5T.....	452,661
*KW9U.....	448,864
*K7MKL/0.....	431,648
*N8CWU.....	410,800
*KG4V/1 (N1EN).....	383,700
<b>28 MHz</b>	
*K600.....	9,112
<b>21 MHz</b>	
*W1ZD/7.....	503,139
*N2MUN.....	95,183
*AA7UN.....	7,550
*AF5CC.....	3,432
<b>14 MHz</b>	
*W4LC.....	327,488
*K6GHA.....	286,090
*N9TF.....	212,064
*K4PZC.....	43,884
<b>7 MHz</b>	
*WA1HEW/3.....	57,600
<b>3.5 MHz</b>	
*AB1J.....	93,572
*W6NF/0.....	3,150
<i>*Low Power</i>	



### 2016 CQWW WPX RTTY TOP EUROPE SCORES

<b>SINGLE OPERATOR HIGH POWER ALL BAND</b>	
LZ8E (LZ2BE).....	8,109,504
SN7Q (SP7GIQ).....	6,798,155
UT5M (UR5MID).....	6,525,696
UW1M.....	6,206,368
LB8IB.....	5,683,559
UW3U (UT7UJ).....	5,433,982
II2V (IK2NCJ).....	5,393,232
EM0I (UT2IZ).....	4,843,483
EM2G (UR7GO).....	4,240,335
SQ9UM.....	4,067,558
<b>28 MHz</b>	
YT5W (YU1AU).....	634,382
LZ5R (LZ1JZ).....	486,150
E7TT (E73RO).....	321,636
EA7ZY.....	225,929
IK4UQA.....	191,750
<b>21 MHz</b>	
9A705Y (9A3NM).....	3,131,700
R7AB.....	2,095,444
EA1BD.....	1,970,318
HA8JV.....	1,710,044
DL3BQA.....	1,685,864
<b>14 MHz</b>	
TM6M (F4DXW).....	3,024,060
DM1A (DL1IAO).....	2,153,088
GM3W (GM3SEK).....	2,119,355
IZ4NIC.....	2,053,930
S57DX.....	2,014,110
<b>7 MHz</b>	
YU7U.....	3,659,712
SN2M.....	3,504,988
R7CD.....	2,176,356
EU4E.....	1,533,072
RA6GW.....	1,499,616
<b>3.5 MHz</b>	
S52X.....	2,138,240
I4AVG.....	1,530,272
SQ2RGB.....	1,220,002
IZ0KBR.....	1,131,792
OK2SFP.....	1,028,600
<b>LOW POWER ALL BAND</b>	
*EF2Y (EA2RY).....	3,882,669
*Y09HP.....	2,998,245
*UR6EA.....	2,494,915
*UT8EL.....	1,929,080
*RG5A.....	1,797,152
*UT5EPP.....	1,737,580
*R7MM.....	1,732,228
*UX1UX.....	1,725,920
*UC6A.....	1,725,268
*GM1C (GM1BSG).....	1,661,060
<b>28 MHz</b>	
*I0UZF.....	321,714
*FCCQU.....	235,712

*11WXY.....	145,555
*ER100.....	141,940
*SQ1EIX.....	138,985
<b>21 MHz</b>	
*EE7Y (EC7WA).....	1,807,465
*ES5Q (ES5RY).....	1,482,226
*Z36N.....	1,444,200
*G8X (G4FJK).....	757,712
*EA1ACP.....	684,432
<b>14 MHz</b>	
*M9K (M0SIY).....	1,533,872
*OG90AA (OH8KVY).....	572,000
*YT2AAA.....	495,957
*MM1E (MM0GOR).....	412,056
*YO2IS.....	384,983
<b>7 MHz</b>	
*S56A.....	2,384,000
*YU1AST (YT2T).....	1,763,580
*IK3TPP.....	1,714,620
*YO4NF.....	1,325,870
*OK2RU.....	1,070,080
<b>3.5 MHz</b>	
*OK2SAR.....	563,580
*OM3ZWA.....	560,142
*OK2HBR.....	552,636
*E77AW.....	532,770
*OK4K (OK1BOA).....	503,972
<b>QRP ALL BAND</b>	
TM3T (F5VBT).....	1,594,104
RX1CQ.....	1,066,456
IZ8JFL/1 (IZ8JFL/1).....	1,008,900
OK2FD.....	866,096
Y08RAA.....	692,184
DO1FCB.....	472,976
EA1GT.....	336,555
OH2LZI.....	320,212
DL8TG.....	291,018
US5ZCW.....	253,650
<b>28 MHz</b>	
RT4W.....	55,488
R7NA.....	13,464
IZ3NVR.....	8,874
LA1DSA.....	1,232
IZ2JNN.....	1,100
<b>21 MHz</b>	
IK5RUN.....	267,540
TM9K (F5BEG).....	112,515
HA3HX.....	80,444
SP4LVK.....	72,329
OE5TKM.....	54,234
<b>14 MHz</b>	
SB0A (SM0LPO).....	399,438
YL3DJ.....	163,170
HG6C (HA6IAM).....	123,432
SQ6PNP.....	71,154
UT2IV.....	42,534

<b>7 MHz</b>	
LZ8U (LZ2TU).....	302,148
I2ZQKG.....	21,316
GM0HVS.....	7,470
<b>3.5 MHz</b>	
ON3DI.....	216,776
IK4UXA.....	110,136
DK6SP.....	95,904
Y08WW.....	70,328
9A4AA.....	67,100
<b>MULTI-OPERATOR SINGLE TRANSMITTER (HIGH)</b>	
OL7M (OK1CID).....	10,565,802
HG7T (HA7TM).....	10,456,812
IQ1RY (I1BEP).....	9,670,920
ED1R (EA1AR).....	9,616,320
IO9UI (IW9GTD).....	8,565,960
HG1S (HA1TJ).....	7,980,651
9A5D (9A3AW).....	7,841,658
IQ6AN (IK6VXO).....	7,331,345
DP7D (DL1REM).....	6,451,032
OK1KSL (OK1AHJ).....	5,203,088
<b>MULTI-OPERATOR SINGLE TRANSMITTER (LOW)</b>	
*M0A (G8APB).....	2,844,486
*DQ4W (DK7MCX).....	2,591,057
*UZ0A.....	2,358,895
*9A7T (9A2EU).....	2,292,968
*DF0BLM (DH7TS).....	1,918,752
*LY16W (LY1FW).....	1,906,868
*RK3PWR.....	1,778,894
*IQ2CU (I2XLF).....	1,756,530
*ED3D (EA3AYQ).....	1,497,678
*DN2MR.....	1,064,385
<b>MULTI-OPERATOR TWO TRANSMITTER</b>	
LX7I.....	13,356,595
LZ7A.....	9,772,958
SZ1A.....	9,621,045
9A5K.....	8,150,652
DK0WRTC.....	7,704,792
ED2C.....	4,937,670
ON6NL.....	4,487,200
LN5O.....	2,519,722
EI7M.....	2,406,552
RT4D.....	954,600
<b>MULTI-OPERATOR MULTI-TRANSMITTER</b>	
9A1A.....	26,470,904
DR5N.....	13,239,565
DG1VL.....	9,627,900
YL4U.....	8,551,391
OH5C.....	7,192,277
YT9A.....	707,126
OK1RPL.....	99,541
<b>ROOKIE HIGH POWER ALL BAND</b>	
ER5LL.....	767,142

OK7LO.....	374,480
SV2KF.....	310,426
UT7EJ.....	208,445
SV2JU.....	4,848
<b>14 MHz</b>	
IU1FQQ.....	93,396
<b>LOW POWER ALL BAND</b>	
*IU4CHE.....	1,239,446
*CR5U (CS7AJL).....	855,525
*SI6I (SA6CMO).....	483,472
*GM4UQG.....	422,816
*2E0DSQ.....	332,061
*EA2BF.....	259,992
*EW4FG.....	208,534
*DL1XG.....	204,792
*O07R (ON6OM).....	179,424
*IU4DTV.....	137,340
<b>21 MHz</b>	
*OE5TKM.....	54,234
<b>14 MHz</b>	
*IK8LXI.....	118,080
*RK3SWS.....	7,526
<b>7 MHz</b>	
*9A3DZH.....	108,416
*IU2CIC.....	22,940
<b>3.5 MHz</b>	
*YU4OIZ.....	122,450
<b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b>	
GW0A.....	3,014,787
DM5TI.....	2,632,200
DL6NDW.....	2,623,752
M3I (G0ORH).....	2,233,808
GM8SBH (GM0FGI).....	1,947,954
YT2U.....	1,894,680
EA5EJ.....	1,598,400
9A2NO.....	1,566,765
DK5MB.....	1,522,584
RM3DA.....	1,356,878
<b>28 MHz</b>	
IEA5FID.....	61,476
DL3HAH.....	23,316
UT2AB.....	2,378
<b>21 MHz</b>	
UA3RF.....	1,349,842
UA6LJB.....	664,384
UR5FBM.....	444,056
Y09A.....	707,126
IK2QIN.....	89,088
<b>14 MHz</b>	
GM3W (GM3SEK).....	2,119,355
IW3QRM.....	1,110,796
US0MS.....	481,032

EU1DX.....	339,426
M0UNI.....	241,678
<b>7 MHz</b>	
EU4E.....	1,533,072
SV3FUO.....	848,392
UR4MG.....	369,420
<b>3.5 MHz</b>	
OK2SFP.....	1,028,600
SP5DL.....	171,292
EA5DM.....	65,148
UT8EU.....	47,488
<b>LOW POWER ALL BAND</b>	
*RG5A.....	1,797,152
*UT5EPP.....	1,737,580
*GM1C (GM1BSG).....	1,661,060
*SP9H.....	1,638,756
*DJ8OG.....	1,468,848
*RT7N.....	1,421,892
*US6CQ.....	1,347,104
*DL3SYA.....	1,202,080
*ON4CT.....	1,196,419
*UX3IW.....	1,189,058
<b>28 MHz</b>	
*ER100.....	141,940
*IK0PEA.....	43,419
*OK2CLW.....	30,591
*EA3NO.....	22,932
*DL1RPR.....	1,944
<b>21 MHz</b>	
*IW9FDD.....	498,510
*YT9VM.....	434,826
*R5ACQ.....	245,032
*IK7XNF.....	128,316
*EA7IA.....	81,725
<b>14 MHz</b>	
*M9K (M0SIY).....	1,533,872
*YT2AAA.....	495,957
*SB0A (SM0LPO).....	399,438
*YO2IS.....	384,983
*R3LC.....	231,460
<b>7 MHz</b>	
*YU1AST (YT2T).....	1,763,580
*IK3TPP.....	1,714,620
*OK2RU.....	1,070,080
*S51DX.....	946,308
*Z39A.....	734,296
<b>3.5 MHz</b>	
*SP9BNM.....	493,728
*LA/DL7URH (DL7URH).....	413,920
*UR7CB.....	114,240
*IW4EGX.....	102,900
*DK6SP.....	95,904

\*Low Power

### Multi-Single High Power (58)

Multi-Single High Power was very close in the first two places with OL7M (OK1CID, OK1DF, OK1MU, OK1NOR, OK1XUB, OK2ZAW, OK3KW, OK8XX) prevailing over HG7T (HA7TM, HA9PP, HG5DX, HA8LLK). Both broke the prior Europe record. WW4LL (WW4LL, W4DXX, K1ZZI) set a new North America record for 9<sup>th</sup> place worldwide.

### Multi-Two (20)

LX7I (LX2A, DF7ZS, DL6ZBN, DK5ON, DF8XC, DG3FK) won Multi-Two and K9CT (K9NR, AI9T, K9WX, N9CK, K9CT, K3WA) took second worldwide.

### Multi-Multi (10)

9A1A (9A5W, 9A9A, 9A2DQ, 9A6A, 9A7R, 9A7C, 9A5DDT, 9A7MIM, 9A7CDZ, 9A5AEV, 9A5CPP, 9A5CMM, 9A5CKM, 9A5CPL) impressively set a new world record as this team has been dominating Europe for the past five years. Second place RW0A (RA0AM, RW0AR, RZ0AT, RZ0AI, RG0A, RV0AR, RA0ANR, RA0ASG, RU0A, RU0AM, RA0ALB, R0ACG, RA0AAC, RK0A, UA0103112) set a new Asia record. The NR4M "Goat Farm Gang" (NR4M, W3TB, NR4C, K7SV, N7TY, K4EC, K4GM, K4MIL, W4IM, KK4RTF, N4DXS, W1IE, N3ZV, KS4Q) was third as they continue their five-year domination of North America.

### Club Competition

#### World

The Bavarian Contest Club once again led the field in the world club competition with 99.4 million points from their 93 entries. The Italian Contest Club took second with 68 entries, followed by the Ukrainian Contest Club with 32 logs and the Croatian Contest Club with 17 logs.

#### North America

The Northern California Contest Club was 5<sup>th</sup> worldwide, winning the North America club competition with 48 entries. The club made a push this year to get members on the air, including those new to RTTY contesting. Next were Society of Midwest Contesters, Frankford Radio Club, and Yankee Clipper Contest Club.

### Closing

The complete results listing of all received logs ("Line Scores") can be found on page 96 to 109 in this issue and at <<http://bit.ly/1OWBBYR>>. In addition, a searchable database of the

Operators on these DXpeditions selected **radiosport headsets** for their *reliability, comfort and performance.*

**NH8S**  
**3DA0ET**  
**FT5ZM**  
**7QAA**  
**TX3X**  
**VK9WA**  
**VP8STI**  
**VP8SGI**  
**K5P**  
**A35T**  
**VK0EK**  
**CY9C**

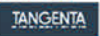


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results from every CQ WPX RTTY Contest is available at <[http://www.cqwprrty.com/score\\_db.htm](http://www.cqwprrty.com/score_db.htm)>.

Log Check Reports (LCRs) suggest ideas to improve operating accuracy. This valuable information is available upon request to <[w0yk@cqwprrty.com](mailto:w0yk@cqwprrty.com)>. You can compare your log check statistics with the averages across all logs in this contest:

- 1.0% incorrect received callsign
- 1.8% incorrect serial number received
- 1.4% NIL (Not In Log)
- 4.2% total error rate (with penalties and lost mults, score reduction is higher)
- 7.8% score reduction

Achieving a zero error rate may mean that too much time is being spent on accuracy. Speed and accuracy are a trade-off for optimal communication.

Certificates are now available online for download and printing locally. The link for your certificate is on the far right of your score listing in the Scores Database at <<http://www.cqwprrty.com/scoresry.htm>>.

Sponsoring a plaque is an opportunity to give back and show appreciation for the contest. You can choose an unsponsored plaque in any category, whether listed or not at <<http://www.cqwprrty.com/plaques.htm>>. Contact <[w0yk@cqwprrty.com](mailto:w0yk@cqwprrty.com)> to sign up. Thanks to Ray, ND8L, for managing the fabrication and mailing of plaques.

A number volunteers work tirelessly in the background to bring contests to us. Ken, K1EA, and Randy, K5ZD, continue to improve and support the log checking and website software. K5TR and N5KO quietly manage the IT infrastructure behind the log submittal robots, log storage, and log checking software. The WWROF (WorldWide Radio Operators Foundation) provides financial support for the IT services required, among other support for contesting in general, as well as postage for paper certificates. All of us can help with our donations to WWROF, so please consider this way to give back to the radiosport.

The 23<sup>rd</sup> CQ WPX RTTY Contest will be held on 11-12 February 2017. I look forward to seeing everyone again then!

*(Scores on page 96)*

## 2016 CQWW WPX RTTY CLUB SCORES

United States			Club	# Entrants	Score
Club	# Entrants	Score	Club	# Entrants	Score
NORTHERN CALIFORNIA CONTEST CLUB	48	35,334,996	LATVIAN CONTEST CLUB	7	13,196,640
SOCIETY OF MIDWEST CONTESTERS	40	27,551,494	CONTEST CLUB FINLAND	11	8,909,140
FRANKFORD RADIO CLUB	20	26,326,036	CONTEST CLUB SERBIA	13	8,062,779
YANKEE CLIPPER CONTEST CLUB	31	20,484,865	ARAUCARIA DX GROUP	12	7,848,323
POTOMAC VALLEY RADIO CLUB	41	14,491,226	LA CONTEST CLUB	5	7,572,222
TENNESSEE CONTEST GROUP	9	9,289,547	KRIVBASS	5	7,121,758
DFW CONTEST GROUP	12	7,974,144	ORCA DX AND CONTEST CLUB	10	6,849,552
ARIZONA OUTLAWS CONTEST CLUB	25	6,995,118	CONTEST GROUP DU QUEBEC	8	6,306,636
CTRI CONTEST GROUP	4	6,506,711	YB LAND DX CLUB	28	6,003,083
GRAND MESA CONTESTERS OF COLORADO	6	6,129,069	SLOVENIA CONTEST CLUB	8	5,744,162
SKYVIEW RADIO SOCIETY	5	6,040,036	SOUTH URAL CONTEST CLUB	5	5,561,358
FLORIDA CONTEST GROUP	6	5,711,475	DL-DX RTTY CONTEST GROUP	9	4,568,939
KANSAS CITY CONTEST CLUB	3	5,282,916	LU CONTEST GROUP	15	4,128,130
MAD RIVER RADIO CLUB	6	5,025,981	BRITISH AMATEUR RADIO TELEDATA GROUP	5	3,995,397
MINNESOTA WIRELESS ASSN	26	4,828,858	BAHRAIN CONTEST TEAM	5	3,402,259
WILLAMETTE VALLEY DX CLUB	11	4,455,018	VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	5	3,369,459
ALABAMA CONTEST GROUP	6	3,308,665	SP DX CLUB	18	3,361,510
NIAGARA FRONTIER RADIOSPORT	4	3,046,152	RIIHIMAEN KOLMOSET	4	3,300,824
WESTERN WASHINGTON DX CLUB	8	2,743,542	KAUNAS UNIVERSITY OF TECHNOLOGY		
SOUTHERN CALIFORNIA CONTEST CLUB	12	2,273,277	RADIO CLUB	8	3,284,624
NORTH TEXAS CONTEST CLUB	3	1,887,729	CE CONTEST GROUP	4	3,283,553
KENTUCKY CONTEST GROUP	9	1,861,494	DONBASS CONTEST CLUB	6	3,209,830
ORDER OF BOILED OWLS OF NEW YORK	6	1,718,260	RTTY CONTESTERS OF JAPAN	13	3,054,667
SOUTH EAST CONTEST CLUB	3	1,538,370	VRHNIKA CONTESTERS	3	2,998,598
TEXAS DX SOCIETY	3	1,325,426	RADIOSPORT MANITOBA	5	2,664,887
CAROLINA DX ASSOCIATION	5	1,220,843	BELARUS CONTEST CLUB	7	2,604,833
BRISTOL (TN/VA) ARC	4	1,121,695	ALRS ST PETERSBURG	3	2,413,498
METRO DX CLUB	4	1,120,720	YO DX CLUB	6	2,307,571
SPOKANE DX ASSOCIATION	6	1,092,723	DANISH DX GROUP	7	2,135,034
CENTRAL TEXAS DX AND CONTEST CLUB	7	1,002,201	RIO DX GROUP	7	2,039,512
SWAMP FOX CONTEST GROUP	6	996,793	RUSSIAN CONTEST CLUB	6	1,974,351
NORTH COAST CONTESTERS	4	931,366	URAL CONTEST GROUP	5	1,955,178
NORTHEAST WISCONSIN DX ASSN	4	914,285	ARCK	4	1,864,349
HILLTOP TRANSMITTING ASSN	5	821,579	BLACK SEA CONTEST CLUB	7	1,780,842
BERGEN ARA	3	664,624	THRACIAN ROSE CLUB	8	1,776,865
SHENANDOAH VALLEY WIRELESS	6	584,430	CATALONIA CONTEST CLUB	3	1,577,355
UTAH DX ASSOCIATION	3	581,934	599 CONTEST CLUB	6	1,342,782
BIG SKY CONTESTERS	4	541,020	SK6AW HISINGENS RADIOKLUBB	3	1,272,464
MERIDEN ARC	3	437,407	VU CONTEST CLUB	4	995,315
NORTH CAROLINA DX AND CONTEST CLUB	3	341,044	VU CONTEST GROUP	5	908,181
			GRIMSBY AMATEUR RADIO SOCIETY	4	862,816
			CHILTERN DX CLUB	5	743,851
			NOVOKUZNETSK RADIO CLUB	3	703,108
			BARIVM DX TEAM	3	700,570
			RUSSIAN CW CLUB	4	595,057
			SPEKTR	3	570,132
			NORDX CLUB	5	460,995
			EUROPEAN PSK CLUB	5	403,811
			CDR GROUP	5	336,318
			CONTEST CLUB HARZ HEIDE	3	238,235
			RU-QRP CLUB	5	139,772

### DX