

Results of the 2016 CQ DX Marathon

BY JOHN SWEENEY, K9EL

The lack of sunspots did very little to dampen the enthusiasm of our CQ DX Marathon participants in 2016. Although the number of submitted logs was down from last year, the majority of participants simply moved from the higher bands to the lower bands and turned in some very impressive scores. The maximum possible score in 2016 was 332 — only 8 points below the 2015 record maximum. Competition was intense in all categories except 12-meter single-band. Overall, the single-band participation percentage actually increased over 2015, with 40, 80, and 160 more than picking up the loss of 10- and 12-meter participants. However, in spite of fewer logs and far fewer sunspots, no less than 26 all-time records were broken, 48 if we include the new award categories added in 2015. Amazingly, new records were set for CW-only and Digital-only. The lack of sunspots was clearly not a hindrance for these winners.

With the change in propagation, SSB contacts dropped by 25%. CW contacts made up nearly half of all the 110,000 QSOs submitted in 2016. Digital QSOs were up by 25%, although still fewer than CW or SSB. Last year, 10 and 12 meters accounted for almost 30% of all QSOs, yet only 10% in 2016. Fifteen, 17, and 20 remained the most popular bands while 30 through 160 now account for 30% of all QSOs. Although the total number of submitted logs was down, more countries and zones participated in 2016 than previous years.

And the Winners Are...

The battle for the top spot in the DX Marathon was no less intense in 2016 than in previous years. Bill, K2TQC, has been a top contender for many years, finishing 2nd, 3rd, and 5th in recent years and holds the current all-time record high score

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Alex, VE3NEA, is probably best known to many of us as the author of the Skimmer software and other great ham radio software <www.dxatlas.com>. Alex was originally licensed as UR5EM/UB5EM and has been active on CW/RTTY DXing since 1980. 2016 was Alex's first entry in the DX Marathon — and he easily won the Limited Class category. Alex is shown in his shack.

for Zone 5. 2016 was his year! Bill finished with a final score of 326, just one point ahead of EA1DR, PY5EG, and I4EAT who all finished with 325 points each. When multiple entrants have the same score, the standings are determined by the earliest date of the last QSO in the log. Oscar, EA1DR, has never finished lower than 8th in the last six years and has also been heavily promoting the DX Marathon in Spain. Oms, PY5EG, was last year's winner and is always a top competitor in the Marathon. I4EAT is a new DX Marathon participant and his first-time score is very impressive.

Another first-time entrant and the 2016 Limited Class winner was Alex, VE3NEA. Alex is best-known as the author of popular ham radio software such as the CW and RTTY skimmer tools, DX Atlas, Gritty, and more. I am sure he used his own tools to capture the number one spot. Alex's score of 291 was 5 points ahead of LU1FAM, who came in second with a score of 286.

In Formula Class, 100-watt option, the winner is Walter, PY4ZO, also with 286. Walter has participated in the Marathon for several years and won plaques in 2013 and 2014 for top score in South America. Scott, N4RI, also a DX Marathon veteran, repeated his second place finish with a score of 264.

Dan, WG5G, has once again finished in the top position in the QRP category. This is Dan's fifth consecutive win!



Bill, K2TQC, was first licensed in 1956 and has been a very active DXer, winning many awards and is ranked very high in the DXCC program. Bill lives in a rural area and all his antennas (36!) are quads and Delta loops fixed in trees. Bill is a very active participant in the DX Marathon and currently holds the all-time record high score for Zone 5 and is co-record holder for top U.S. score. Bill was the Unlimited Class winner in 2016. Here he is in his shack with his 2012 DX Marathon plaque for top score in North America.



Yuri, A65CA, is shown holding his 2015 plaque for the top score in Asia and will soon have another plaque with his repeat performance with his top Asia score in 2016.

Reflecting the decrease in conditions, Dan's 2016 score was 20 points less than last year at 263, but all scores in the 5-watt category were down. Coming in second at 240 points was another long-time DX Marathon participant, Fulvio, IV3AOL.

Single-Mode Winners

As mentioned earlier, the amount of CW activity has increased significantly in the DX Marathon and the battle for the top CW score was very intense. We had a 50% increase over 2015 in CW-only submissions. Lada, OK2PAY, once again took top honors, repeating his 2015 win. In addition, Lada set a new all-time CW record with his score of 321. Right behind Lada was Bob, W9KNI, at 320. Bob holds many DX Marathon records and tied the previous CW high score of 320. Bob is the plaque recipient for the top North America CW

TOP SCORES

BOLD = Plaque Winners
 * = Certificate Winners
 Callsign is followed by Score

PY2MC.....	240
SP3BGD.....	199
5P1KZX.....	177

SV1NZX.....	83	N3QE.....	181
LU5FF.....	51	N5KM.....	178

Unlimited Class

K2TQC.....	326
EA1DR.....	325
PY5EG.....	325
I4EAT.....	325
R6YY.....	323

Africa

EA8AXT.....	304
CT3HF.....	239
EA8KC.....	230
ZS6C.....	227
5A1AL.....	122

10 Meters

ZY2B.....	105
ZW5B.....	89
PY1PL.....	58
PU5BOY.....	57
PU4HUD.....	56

160 Meters

NO3M*.....	186
N4IS.....	185
K7ZV.....	148
CX6VM.....	127
N8PR.....	110

Limited Class

VE3NEA.....	291
LU1FAM.....	286
K9QVB/9.....	271
N7RD.....	262
F4ESV.....	258

Asia

A65CA.....	319
JA2NDQ.....	318
R9AB.....	297
JA0DAI.....	296
9K2NO.....	295

12 Meters

WK3N.....	186
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15 Meters

CO6HLP.....	189
PY2UD.....	174
PY2KJ.....	168
PU8YPL.....	146
VU2MUD.....	123

Zones

1.....	AL7KC.....	216
3.....	W9KNI.....	320
4.....	VE3VEE.....	322
5.....	K2TQC.....	326
6.....	XE2AU.....	182
8.....	CO6HLP.....	189
9.....	HK3W.....	243
11.....	PY5EG.....	325
12.....	CE3WW.....	177
13.....	LU1FAM.....	286
14.....	EA1DR.....	325
15.....	I4EAT.....	325
16.....	R6YY.....	323
17.....	R9AB.....	297
20.....	YO9HP.....	300
21.....	A65CA.....	319
22.....	VU2CPL.....	280
24.....	BV1EK.....	168
25.....	JA2NDQ.....	318
26.....	XV4Y.....	82
27.....	DU2UXH.....	122
28.....	YB1AR.....	295
29.....	VK6DW*.....	210
30.....	VK3GA.....	299
32.....	ZL2IFB.....	316
33.....	EA8AXT.....	304
34.....	5A1AL.....	122
38.....	ZS6C.....	227
40.....	TF3DC.....	220

Formula Class - 100w

PY4ZO.....	286
N4RI.....	264
IN3FHE.....	252
EA3KU.....	251
TA1CM.....	240

Europe

EA1DR.....	325
I4EAT.....	325
R6YY.....	323
OM3EY.....	322
OK2PAY.....	321

17 Meters

LY5M.....	280
LY2FN.....	274
PP1CZ.....	201
FS/K9NU.....	92

Formula Class - 5w

WG5G.....	263
IV3AOL.....	240
W8QZA.....	219
K4AR.....	213
ON6QRP.....	199

North America

K2TQC.....	326
VE3VEE.....	322
WN4N.....	321
W9KNI.....	320
K3RA.....	319

20 Meters

VE3VEE.....	322
K2RK.....	191
CE3AA.....	172
EA2BD.....	128
G8JQW.....	53

CW

OK2PAY.....	321
W9KNI.....	320
W1NG.....	316
I2OCBB.....	314
W4QN.....	309

Oceania

ZL2IFB.....	316
VK3GA.....	299
YB1AR.....	295
VK3SIM.....	287
VK3AWG.....	253

30 Meters

I4TJE.....	276
9A2EU.....	251
LY5W.....	229

Phone

PA2LO.....	296
PY5DK.....	263
N3CDA.....	260
VU2WJ.....	251
PY1SX.....	239

South America

PY5EG.....	325
PY2XU.....	310
PY4ZO.....	286
LU1FAM.....	286
PY2RJ.....	283

40 Meters

KBØEO.....	244
K5TF.....	233
K9CJ.....	214
ZX2F.....	150
NR6Q.....	149

Digital

IKØOZD.....	306
IK5FKF.....	260

6 Meters

IW2CAM*.....	90
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80 Meters

LY7M.....	248
N8MZ.....	212

Note: Top scorers in some zones received Plaques or Country Certificates.

score. W1NG was not far behind with his 3rd place score of 316. Gert, PA2LO, easily won the Phone title with a score of 296. Gert was also the Phone winner in 2014. Second place went to PY5DK with a score of 263. Tony, IKØOZD, has won many plaques in prior DX Marathons and in 2016 he turned his attention to the Digital-only category. Not only did he win the category with his score of 306, he beat the previous high score held by N5ZM by 24 points! Piero, IK5FKF, also a previous Digital plaque winner, was second at 260 points.

Single-Band and Continental Competitions

Plaques are also awarded for the top score on each of the 10-through 80-meter bands, plus the top score on each continent. In the single-band competitions starting with 10 meters, all 17 entries were from Brazil, with ZY2B at the top with a score of 105. WK3N once again took top honors on 12 meters with a score of 186. On 15 meters, CO6HLP came out on top with a score of 189 and is our first plaque winner from Cuba. LY5M is the winner on 17 meters at 280 and VE3VEE once again was the king of 20 meters with an impressive score of 322. I4TJE was the top scorer on 30 with a score of 276. On 40 meters, KBØEO scored 244 to take first place. LY7M took top honors on 80 meters with a very impressive score of 248. The 160-meter scores were excellent as well, with NO3M beating last year's winner, N4IS, by one point with his score of 186. Congratulations to all the band plaque winners.

Many of the continental battles were also very close, with A65CA repeating his top Asia position with a score of 319 from the United Arab Emirates, just one point ahead of second place finisher JA2NDQ. The Europe plaque goes to Oscar, EA1DR, with his 325; only 4 points separated the top five positions in Europe. EA8AXT moved up to the number

one in Africa with his score of 304, breaking the old African record by 15 points. In Oceania, ZL2IFB won with a score of 316 — his 3rd top title in a row. Oms, PY5EG, one of the top overall winners in the Marathon over the past few years, took home top South America honors with a score of 325. No North America plaque was awarded as Bill, K2TQC, already took overall honors as with the highest worldwide score.

Well over 100 DX Marathon certificates are awarded each year in various categories, including the top Continental score for each of the three modes, top scores in each country, CQ zone, Canadian call district, and U.S. call area for each of the four DX Marathon classes. Many new records were set this year, including 18 new country records, four zone records, nine continental records, four Canadian call district records, and nine U.S. call district records. Check out the record high scores page on the DX Marathon website. For 2017, pick a category, work hard and you may be able to get in the record book as well.

Once again Brazil took the top three spots in the club competition, but for the first time in many years, the Araucaria DX Group fell to third place, with the CDR Group taking the top position with a score of 9,615. The top U.S. club was the Northern Illinois DX Association, sponsor of the top three DX Marathon plaques. Don't forget to include your club name on your 2017 DX Marathon submission.

Helpful Hints

Each year the DX Marathon website <<http://dxmarathon.com>> publishes a large amount of information to help participants minimize errors in their submissions. The Helpful Hints page can be accessed from the DX Marathon home page. In 2016, we published almost 2,500 callsign exceptions and notes to



Dan, KBØEO, is shown with his 2015 plaque for having the highest overall score on 10 meters and he will soon be the proud owner of a new plaque for his highest overall score on 40 meters.

TOP SCORES: CONTINENTAL MODE, USA & CANADA CALL DISTRICTS

Phone					
Asia.....	VU2WJ*	251	W7	N7RD*	262
Europe	PA2LO	296	W8	WT8E*	208
NA.....	N3CDA*	260	W9	K9QVB/9*	271
SA.....	PY5DK*	263	WØ	AD1C*	225

USA Formula 100W

Asia.....	VU2MUD*	123	W1	N1AM*	202
Europe	OK2PAY	321	W2	K2DBK*	166
NA.....	W9KNI	320	W3	K2RK*	191
Oceania	YB1UUN*	144	W4	N4RI*	264
SA.....	PY4HO*	263	W5	AC7P*	224
			W6	K6LE*	180
			W9	K9OR*	197
			WØ	KFØIQ*	137

Digital

Asia.....	VU2ABS*	172
Europe	IKØOZD	306
NA.....	K8ZT	106
Oceania	FK1TS	151
SA.....	PY2MC*	240

USA Unlimited

W1	W1NG*	316
W2	K2TQC	326
W3	K3RA*	319
W4	WN4N*	321
W5	W5IF*	307
W6	N6WS*	303
W7	W9KNI	320
W8	N8DE*	308
W9	N2BJ*	315
WØ	K6XT*	297

USA Limited

W4	K4IE*	215
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USA Formula 5W

W4	K4AR*	213
W5	WG5G	263
W6	W8QZA*	219
W8	K8ZT*	106
WØ	KIØG*	108

Canada

VE1	VE1DT*	263
VE2	VE2BR*	301
VE3	VE3VEE	322
VE4	VE4HAZ*	116
VE6	VE5UA*	303
VE7	VA7CRZ*	227
VE9	VE9CB*	299

* Certificate Winners

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Lada, OK2PAY, won the CW plaque in 2015 and not only did he repeat that performance in 2016 with his Top CW score, he also set a new all-time record high CW score of 321.

Scotty, WK3N, is shown with his 2015 plaque for top 12-meter score and will soon be joined by the 2016 plaque as he repeated his win on 12 meters.

CLUB SCORES

Club	Score
CDR GROUP	9615
RIO DX GROUP	6746
Araucaria DX Group	6063
Northern Illinois DX Association	5223
Carolina DX Association	2857
Mother Lode DX/Contest Club	1757
Yankee Clipper Contest Club	1387
VU CONTEST GROUP	1294
Society of Midwest Contesters	1162
Willamette Valley DX Club	975
Lone Star DX Association	929
Potomac Valley Radio Club	881
Maritime Contest Club	816
Metro DX Club	770
Vytautas Magnus University Radio Club	751
Bahia DX Group	746
ARI	745
YB Land DX Club	736
Bavarian Contest Club	724
Italian Contest Club	677
Chilean Pacific DX Group	663
Southern California Contest Club	623
CABREUVADX	587
Mad River Radio Club	576
NERG	540
ARRL	539
GPDX PORTUGUESE DX CLUB	537
Florida Contest Group	477
Panhandle DX and Contest Club	455
EA Contest Club	386
Rhein Ruhr DX Association	373
URE	349
ARAI	340
LU Contest Group	337
EACC	325
DARC	323
OM3KEG	322
CWops	321
RCWC	319
Chiltern DX Club	316
Danish DX Group	313
Lighthouse Amateur Radio Alliance	309
Salt City DX Association	308
Clipperton DX Club	304
Contest Club Ontario	303
Southern California DX Club	303
Sveriges Sandareamatorer (SSA)	303
PX PY Clube de Caxias do Sul	301
Arizona Outlaws Contest Club	297

JAØ-DX-GANG	296
SEMDXA	295
North Coast Contesters	292
CADXA	290
Spokane DX Association	290
Labre-SP	283
Grupo DXXE	280
DDXG	273
LARU	273
USA	272
MUTUM DX GROUP	269
Texas DX Society	269
Regionalis Radios Sportklub Puspokladany	263
Croatian Contest Club	251
Minnesota Wireless Association	244
Central California DX Club, Inc	240
Cape Fear Am Radio Soc	238
SP DX Club	238
VKCC	235
Northern California Contest Club	233
Southeastern DX Club	233
West Rand ARC	227
Mile High DX Association	225
Waterland	217
East Tennessee DX Association (ETDXA)	213
MRCC	209
Sunday Creek Amateur Radio Federation	208
Oklahoma DX Association	207
Nixa Amateur Radio Club	202
LIR	199
Haraoa	193
DUPAGE ARC	190
FRC	189
QARS	186
Allegheny Valley Radio Association	183
Southwest LA amateur Repeater Club	183
Utah DX Association	173
Radio Club de Chile	172
Luxembourg Amateur Radio Union (LARU)	169
Radio Club Venezolano	167
RRDXA	160
Team Papa	149
TRAC TRABZON	147
EA QRP	129
Baguio Amateur Radio Club and DXer's Association	122
RK Electron	121
ACG	102
Rochester (NY) Amateur Radio Association	99
Ham Society of the Philipines	90
Alabama Contest Group	88
Northeast Wisconsin DX Association	53

help every participant reduce the number of errors in their submissions. We also recommend that you regularly update your logging program callsign database. Unusual callsign prefixes seem to multiply every year, so updating your program's database is critical to properly determine the DX location and/or zone.

Fortunately, many participants are updating their databases regularly as a record number of submissions were error-free in 2016 with 24% of all submissions containing no errors — a big improvement over last year's 16% rate. Total error rate was 1.9%, also a tremendous improvement over 2016. The database that is used for scoring includes start and end dates for all major expeditions, so please make sure that dates and times are properly logged along with the callsign, country, and zone for each QSO.

The two highest error categories in 2016 were Busted Calls and Wrong Zone. Unfortunately, the number of bad and incorrect DX spots seems to be on the increase. When logging a QSO from a DX spot, listen carefully to the DX station to make sure the callsign is logged correctly. Busted calls accounted for 25% of all subtractions. Wrong Zone was also responsible for 25% of all score reductions. It is very important that all non-U.S. hams understand that U.S. callsign numbers are no longer required to match their QTH. A W6 could be in New York, or a KL7 could be in Puerto Rico. With many special callsigns in Russia in 2016, there were also many Zone 16, 17, 18, and 19 errors. Zone 2 continues to be a problem as well. Very few VE2 stations are actually located in Zone 2. The DX Marathon website does list the most active Zone 2 stations.

Invalid callsigns was the next largest category. These may be busted calls that were so bad that we could not determine

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the real callsign or simple logging errors. Once again there were many mix-ups between "O" (Zero) and "O" (Oh). The computer is not forgiving, so check your log carefully. Wrong country continues to be the fourth major cause of score reductions, although the wrong country error rate did drop by 50% from 2016. Pirates were a much bigger problem in 2016 and their activity is always frustrating. We do publish all pirate activity that we are aware of on the website. As mentioned earlier, the computer software does check start and end dates for most DXpeditions and a significant number of Wrong Date/Time errors occurred this year. Not-in-Log subtractions were minimal, thanks in part to the many stations that now post their logs online.

As part of this issue you will find a complete listing of all scores plus a listing of the Top Scores in all available categories. The DX Marathon website will include additional information and details on the 2016 results plus photos of plaque winners as they become available. For any questions or comments about the DX Marathon, please contact the author. Thank you for your participation in 2016 and best of luck in 2017!

COUNTRY WINNERS

Callsign is followed by score

* = Certificate Winners

Alaska.....	AL7KC*	216
Antarctica.....	DP1POL*	134
Argentina.....	LU1FAM*	286
Australia.....	VK3GA*	299
Bahrain.....	A92GE*	294
Balearic Islands.....	EA6DB*	131
Belarus.....	EV1R*	300
Belgium.....	ON6QRP*	199
Brazil.....	PY5EG	325
Canada.....	VE3VEE	322
Canary Islands.....	EA8AXT	304
Chile.....	CE3WW*	177
China.....	BA4TB*	147
Colombia.....	HK3W*	243
Crete.....	SV9COL*	252
Croatia.....	9A2EU*	251
Cuba.....	CO6HLP	189
Curacao.....	PJ2/W9VA*	81
Czech Republic.....	OK2PAY	321
Denmark.....	OZ7YY*	313
Easter Island.....	CBØY*	73
England.....	G4AYU*	152
Fernando de Noronha.....	PYØF/PP1CZ*	119
Finland.....	OH5RF*	185
France.....	F5CQ*	304
Germany.....	DL5AN*	315
Greece.....	SV1CNS*	226
Guernsey.....	GUØSUP*	175
Hungary.....	HAØHW*	263
Iceland.....	TF3DC*	220
India.....	VU2CPL*	280
Indonesia.....	YB1AR*	295
Iraq.....	YI3WHR*	155
Ireland.....	EI7CC*	239
Italy.....	I4EAT*	325

Japan.....	JA2NDQ*	318
Kuwait.....	9K2NO*	295
Libya.....	5A1AL*	122
Lithuania.....	LY7Z*	294
Luxembourg.....	LX1CW*	295
Madeira Island.....	CT3HF*	239
Mexico.....	XE2AU*	182
Netherlands.....	YO2LO	296
New Caledonia.....	FK1TS*	151
New Zealand.....	ZL2IFB	316
Northern Ireland.....	GI4SJK*	268
Paraguay.....	ZP5BVK*	194
Philippines.....	DU2UXH*	122
Poland.....	SQ8N*	305
Portugal.....	CT1IUA*	320
Qatar.....	A75GT*	186
Romania.....	YO9HP*	300
Russia (Asia).....	R9AB*	297
Russia (Europe).....	R6YY*	323
Saint Martin.....	FS/W9ILY*	106
Saudi Arabia.....	7Z1SJ*	266
Serbia.....	YU1WAT*	121
Slovak Republic.....	OM3EY*	322
South Africa.....	ZS6C*	227
Spain.....	EA1DR	325
Sweden.....	SMØMPV*	303
Taiwan.....	BV1EK*	168
Turkey (Asia).....	TA3MHA*	217
Turkey (Europe).....	TA1CM*	240
United Arab Emirates.....	A65CA	319
Uruguay.....	CX6VM*	127
USA.....	K2TQC	326
Venezuela.....	YV1KK*	240
Vietnam.....	XV4Y*	82
Wales.....	GW4EVX*	110

Note: Top scorers in some countries received plaques.

Results 2016 CQ DX Marathon

UNLIMITED CLASS															
Callsign	Countries	Zones	Score												
K2TQC	287	39	326	K5DC	240	40	280	VA7CRZ	190	37	227	PY2KJ	137	31	168
EA1DR	285	40	325	VU2CPL	244	36	280	ZS6C	193	34	227	BV1EK	133	35	168
PY5EG	285	40	325	W8AV	240	40	280	OK1BLU	188	37	225	VU2LBW	133	35	168
I4EAT	285	40	325	LY5M	241	39	280	WB2NVR	188	35	223	PX2A	134	32	166
R6YY	283	40	323	PY2COY	240	38	278	PU1KDX	188	34	222	PY2XC	135	31	166
OM3EY	283	39	322	K6YK	237	40	277	7Z1JA	182	38	220	PP5JN	133	32	165
VE3VEE	282	40	322	I4TJE	236	40	276	TF3DC	184	36	220	PY2BEK	137	26	163
OK2PAY	281	40	321	A93JA	235	40	275	K8YC	185	35	220	K7VIT	128	35	163
WN4N	283	38	321	LY2FN	236	38	274	PY2FUL	186	34	220	PY2GZ	130	33	163
CT1IUA	280	40	320	K1ESE	233	40	273	JN3SAC	182	37	219	K6KNS	129	34	163
W9KNI	280	40	320	OZ8BZ	235	38	273	W4CU	182	37	219	PY2KG	134	29	163
OK2SG	280	39	319	WC3W	233	39	272	N9JV	183	35	218	KF7PBM	127	33	160
K3RA	280	39	319	W4DAO	234	37	271	W5ZO	182	35	217	PP5BZ	128	32	160
OM5XX	279	40	319	N6RW	233	38	271	TA3MHA	180	37	217	PR7AP	126	33	159
K5EK	279	40	319	PA0INA	231	39	270	AL7KC	177	39	216	SM5DJZ	120	29	159
A65CA	279	40	319	PT2AP	237	32	269	W6OU	177	37	214	PY2GAT	122	37	159
JA2NDQ	281	37	318	K5WAF	229	40	269	K9CJ	174	40	214	W6DCC	125	33	158
W1NG	276	40	316	WD9DZV	232	37	269	W9ZCL	178	35	213	VU2AE	122	36	158
K7BV	276	40	316	K8AJS	228	40	268	WA4JQS	175	38	213	EB3WH	127	29	156
ZL2IFB	276	40	316	G14SJQ	229	39	268	N8MZ	177	35	212	W1RH	121	34	155
N2BJ	275	40	315	K7ACZ	228	39	267	VK6DW	174	36	210	W9JJB	129	25	154
DL5AN	275	40	315	LY9Y	229	37	266	AJ8B	176	33	209	PP5KR	121	32	153
IZ0CBB	275	39	314	7Z1SJ	227	39	266	EA3XP	175	34	209	K6LRN	117	34	151
OZ7YY	275	38	313	LX1ER	229	36	265	CT2GMH	176	32	208	PY1CW	117	34	151
NI3P	273	40	313	PY4HO	224	39	263	AF5CC	172	35	207	ZX2F	116	34	150
DL1NKS	274	38	312	VE1DT	223	40	263	W9OA	170	37	207	TC3P	117	32	149
W9ILY	272	40	312	HA0HW	224	39	263	PY2XV	173	34	207	PY2HU	121	28	149
K9NU	273	39	312	PY5DK	226	37	263	HZ1TL	173	34	207	NR6Q	117	32	149
PY2XU	270	40	310	K9ARZ	232	31	263	PY6TS	174	33	207	K7ZV	118	30	148
IK2YCW	271	39	310	WX6V	223	39	262	VU2PTT	169	36	205	YM7KA	117	30	147
W4QN	269	40	309	WE9V	223	38	261	KR6N	167	36	203	PY2MP	120	27	147
K9NB	269	40	309	IK5FKF	221	39	260	WA0JZK	170	32	202	BA4TB	115	32	147
N8DE	268	40	308	N3CDA	221	39	260	PP1CZ	168	33	201	PY1FI	115	32	147
K2ZJ	269	39	308	KA6BIM	221	38	259	9K2OD	167	34	201	ZY2A	112	32	144
K9QVB	269	38	307	PY5VC	220	39	259	W9MU	164	36	200	PY2ABN	107	36	143
W5IF	267	40	307	N4KW	218	40	258	NI0C	161	39	200	PY2LED	115	28	143
IK00ZD	266	40	306	G14DOH	215	40	255	PW2D	160	39	199	PU2TRX	111	28	139
K3WA	266	40	306	VE10P	215	39	254	W3OA	160	37	199	VK2RT	105	33	138
SQ8N	266	39	305	VE3ZZ	216	37	253	PU2RTO	157	37	194	N9EP	108	30	138
W1JR	267	37	304	VK3AWG	214	39	253	ZP5BVK	162	32	194	YB2TX	108	30	138
F5CQ	265	39	304	SV9COL	214	38	252	WT2P	159	34	193	N6VH	108	29	137
EA8AXT	264	40	304	PY9MM	212	39	251	VK2IR	160	33	193	WB1ASL	109	28	137
SM0MPV	263	40	303	PY2AE	213	38	251	EA1IQM	158	33	191	PS5A	105	30	135
N6WS	264	39	303	9A2EU	213	38	251	PU2UAF	157	33	190	K4WES	105	30	135
VE5UA	264	39	303	WA2VQW	212	39	251	PT4T	154	36	190	DF5BX	109	26	135
K9KK	263	40	303	VU2WJ	215	36	251	W9MK	155	35	190	PU9ATH	103	31	134
VE3CRG	263	40	303	W1EBI	211	40	251	W9XS	161	29	190	DP1POL	101	33	134
OK2FD	262	40	302	W7WM	212	38	250	KZ2I/4	150	39	189	NY9H	104	28	132
VE2BR	262	39	301	W6XX	211	39	250	NV4A	156	33	189	PU2MJJ	96	34	130
CT4NH	263	38	301	PY2KP	211	37	248	VK4ACN	153	36	189	KI7DG	100	30	130
DJ9ZB	262	39	301	LY7M	210	38	248	JR3RIU	150	38	188	K6DN	105	25	130
E1V1R	262	38	300	W1PR	209	38	247	K1SND	153	35	188	CX6VM	97	30	127
YO9HP	260	40	300	KA4RRU	207	39	246	WA9PIE	154	33	187	PY4XX	94	33	127
VE9CB	261	38	299	N7US	208	38	246	HZ1DG	150	36	186	PY5BK	99	27	126
VK3GA	260	39	299	N9LAH	206	38	244	WK3N	157	29	186	TA4MA	103	22	125
K6XT	260	37	297	KB0EO	205	39	244	A75GT	154	32	186	PP5AM	96	28	124
W07R	257	40	297	W1NK	205	38	243	NO3M	153	33	186	PU2TLW	93	31	124
R9AB	258	39	297	PS2T	204	38	242	OH5RF	156	29	185	VU2MUD	92	31	123
PA2LO	256	40	296	PY2CX	204	38	242	PY2ZEA	150	35	185	PY2SHF	93	30	123
JA0DAI	257	39	296	PY2MC	201	39	240	N4IS	151	34	185	NN6DX	93	30	123
LX1CW	256	39	295	WA5VGI	200	40	240	PY1ZV	150	33	183	PY2LCD	90	28	118
NU8Z	255	40	295	YV1KK	201	39	240	WA5KBH	155	28	183	PY2VZ	89	28	117
9K2NO	256	39	295	DL5XL	203	36	239	KL7KK	147	35	182	WA9MAG	86	31	117
YB1AR	261	34	295	CT3HF	201	38	239	VK4CC	147	35	182	PY2TUA	86	30	116
W3GQ	255	39	294	E17CC	202	37	239	N3QE	151	30	181	NJ6G	87	26	113
LY7Z	254	40	294	PP5NY	201	38	239	K6UM	147	34	181	AA4SC	89	24	113
A92GE	257	37	294	N4ANV	203	35	238	IK2HTY	147	34	181	PY9MT	81	29	110
K5BG	253	40	293	N5ZC	201	37	238	PY2ZZ	152	27	179	PS8RV	88	22	110
W0RIC	250	40	290	PT7ZT	200	36	236	N0RB	144	34	178	GW4EVX	88	22	110
NV9L	248	40	288	K6SCA	198	38	236	W07V	144	34	178	N8PR	84	26	110
EA5YI	249	39	288	VK3GK	198	37	235	N5KM	143	35	178	PY2XZ	83	27	110
VK3SIM	251	36	287	PY2VM	197	38	235	CE3WW	140	37	177	PY2WND	82	26	108
SM5GLC	248	38	286	K5TF	196	37	233	CE7KF	147	28	175	N4DLT	82	25	107
W4HG	245	40	285	NA6O	196	37	233	PY2UD	142	32	174	FS/W9ILY	78	28	106
PY2RJ	245	38	283	N0FCD	197	36	233	PY2ALC	138	35	173	ZY2B	81	24	105
W90A/9	242	40	282	PY2LSM	194	38	232	K7UT	138	35	173	PY2BN	76	29	105
WS7L	242	40	282	PU2WSQ	197	35	232	PY5EW	133	39	172	K9MM	73	30	103
K2UF	241	39	280	PY5XH	196	35	231	PY1NX	135	35	170	K4IQJ	75	27	102
				G14VHO	198	33	231	PX2B	150	19	169	PU5SSR	77	23	100
				LY5W	190	39	229	LX1EA	137	32	169	PU2WDX	77	23	100

PY1WS	77	22	99	PY2AKG	14	12	26	PY1YU	47	20	67	PX1M	75	23	98				
PY1KR	71	27	98	PY2CDR	13	10	23	PY5IP	33	14	47	PY1BAB	70	28	98				
XE1EE	74	24	98	PY1KS	15	7	22	PY1TTN	9	9	18	PY6MV	69	29	98				
PY2TTE	72	25	97	PU2LRZ	12	8	20	PU1VKG	1	1	2	PY3BEG	74	23	97				
PY2ZA	74	23	97	PU2NJJ	12	8	20	FORMULA CLASS - 100W OPTION								PY1UA	74	22	96
AF7VT	69	27	96	PQ2HX	9	7	16	Callsign	Countries	Zones	Score	VE9UN	72	23	95				
TA7EB	81	15	96	PU2VOR	7	7	14	PY4ZO	246	40	286	PY6AZ	71	24	95				
PY1MT	70	26	96	PY2KS	5	5	10	N4RI	226	38	264	PU6WJG	70	23	93				
PY1FR	66	29	95	PU2TNT	5	5	10	IN3FHE	218	34	252	PY2BTF	71	22	93				
TA7JE	74	20	94	PY2JCM	5	5	10	EA3KU	213	38	251	K7ZYV	70	20	90				
PU2OAL	72	22	94	PU2VJI	5	4	9	TA1CM	204	36	240	4F3BZ	63	27	90				
ZX5B	70	23	93	PY3ASQ	5	4	9	SQ9S	201	37	238	PY6UL	60	26	86				
PW8PM	69	24	93	PY1EJ	5	4	9	JA1IRH	193	38	231	PY1WDS	65	20	85				
K9CQ	74	19	93	PX2D	4	4	8	SV1CNS	190	36	226	PY1CML	60	23	83				
FS/K9NU	73	19	92	PU2PCI	4	3	7	AC7P	189	35	224	PU2UJG	56	22	78				
PY5XA	69	23	92	PU1ATP	3	2	5	PP2RON	187	37	224	PU2NAX	57	21	78				
IW2CAM	74	16	90	PU22NJJ	1	1	2	TF3JB	167	38	205	TA3EP	64	12	76				
W7SLS	64	26	90	LIMITED CLASS - 100W OPTION								PS2F	55	20	75				
ZW5B	68	21	89	Callsign	Countries	Zones	Score	HA7LJ	169	35	204	CT7ANO	48	20	68				
K5TXT	68	20	88	VE3NEA	251	40	291	N1AM	167	35	202	PP7DX	45	20	65				
PY2DNR	64	24	88	LU1FAM	249	37	286	PY3IT	164	35	199	TA2BS	54	10	64				
PU5SVE	58	27	85	K9QVB/9	231	40	271	SP3BGD	161	38	199	CT1CQK	46	14	60				
PY2XDX	62	22	84	N7RD	224	38	262	IZ2BHQ	165	33	198	PY6UN	44	14	58				
W9VA	61	22	83	F4ESV	225	33	258	EA5JG	168	30	198	PU4HUD	36	20	56				
K6DSW	58	24	82	W9RF	218	37	255	K9OR	160	37	197	KA9JAC	37	16	53				
PJ2/W9VA	60	21	81	IK2ULV	211	36	247	W3ZL	161	33	194	W2VU	34	15	49				
PU5DTH	62	16	78	HK3W	208	35	243	PR8MET	161	33	194	TA3ATE	33	16	49				
PY2VOA	57	21	78	PY1SX	200	39	239	AB9YC	161	32	193	PU5RHT	28	17	45				
PY1KB	57	21	78	PU2WDF	199	36	235	Y0AAC	163	29	192	ZL/F1TUJ	22	12	44				
ZV2K	59	18	77	EA8KC	196	34	230	PY2XIZ	155	37	192	ZW1M	32	14	36				
PX0F	60	16	76	AD1C	189	36	225	K2RK	156	35	191	LX2CS	31	5	36				
W9IXX	52	24	76	EA2HW	183	35	218	TA3AER	157	33	190	KD4LEM	23	10	33				
PY1FOX	55	21	76	PA0MIR	181	36	217	PY2GTO	153	35	188	PY1MX	22	10	32				
CB0Y	47	26	73	K4IE	176	39	215	KW9U	155	32	187	ZY33FDN	16	12	28				
LX3X	60	11	71	TA4AKS	180	34	214	KB3LIX	152	31	183	PY1MM	12	13	25				
PU1MIL	50	20	70	HA0IV	179	34	213	K6LE	145	35	180	PY1TR	12	9	21				
PW8AR	52	17	69	WT8E	175	33	208	EI3CTB	144	33	177	IZ3NVR	17	3	20				
PU2NZZ	47	21	68	YV5OIE	170	35	205	5P1KZX	145	32	177	PQ4Q	8	5	13				
PU2UMZ	48	20	68	TA2NC	162	37	199	CO2AJ	145	30	175	PU2RSD	2	2	4				
PY3TX	42	25	67	VU3NXI	161	33	194	VU2DED	141	32	173	FORMULA CLASS - 5W OPTION							
PY2TMV	48	18	66	IK2RPE	153	38	191	CE3AA	135	37	172	Callsign	Countries	Zones	Score				
PY4KP	47	18	65	CO6HLP	154	35	189	PU2KNM	137	31	168	WG5G	225	38	263				
PY1SGT	49	16	65	XE2AU	151	31	182	PY2MSR	135	31	166	IV3AOL	206	34	240				
ZW2F	45	19	64	TA2DX	155	24	179	K2DBK	138	28	166	W8QZA	183	36	219				
PU2NJO	41	22	63	PY2SPW	145	32	177	TC101SO	127	34	161	K4AR	179	34	213				
PY2BI	46	16	62	GU0SUP	142	33	175	TA4SO	129	32	161	ON6QRP	163	36	199				
PY1NZ	45	15	60	VU2ABS	136	36	172	PY3FJ	125	36	161	NY4G	165	33	198				
PR2DX	41	19	60	VU2IBI	144	25	169	W4KVS	131	26	157	DF5WW	154	34	188				
PU8PSF	44	15	59	CE3OP	132	36	168	Y13WHR	123	32	155	IN3UFW	109	24	133				
PY2RT	37	22	59	YV5EN	135	32	167	CT7AIX	123	29	152	IK4UXA	93	22	115				
PU4GOD	43	16	59	LX1CC	139	27	166	PY2DPM	116	35	151	EB3EPR	90	24	114				
PY1PL	44	14	58	OP4A	125	35	160	FK1TS	117	34	151	KI0G	85	23	108				
PY2ADA	40	18	58	YE4IJ	131	28	159	VU3DMP	120	31	151	K8ZT	79	27	106				
K8JTD	38	19	57	TA4PR	123	31	154	PU8YPL	118	28	146	GU4YBW	82	20	102				
PY2JOS	39	18	57	G4AYU	124	28	152	YB1UUN	114	30	144	YB2ERL	71	27	98				
PU5BOY	39	18	57	ON2AD	120	31	151	PY1AX	116	25	141	W4ER	65	23	88				
PR1T	52	4	56	HA0IR	120	29	149	KF0IQ	109	28	137	G8JQW	44	9	53				
ZZ462SP	36	19	55	PY4LH	119	29	148	SP3AU	107	30	137	PY1CMT	36	14	50				
PY2ESG	37	17	54	ZP6ARO	114	32	146	PU2LEW	108	27	135	W6OGC	34	11	45				
FS/K9EL	38	14	52	CA3CBM	109	29	138	PY1JR	103	32	135	K5ATG	17	11	28				
LU5FF	36	15	51	TA3LSD	108	29	137	PT9DX	102	28	130	PY4WJ	5	5	10				
PY2RED	33	18	51	TA4OSK	113	21	134	YB9WZJ	98	31	129	PU5YSV	2	2	4				
PW1A	35	16	51	EA6DB	107	24	131	AK1P	101	28	129	LATE and CHECK LOGS							
PY1CDR	29	21	50	EA3KX	103	26	129	PY5II	103	26	129	Callsign	Countries	Zones	Score				
PY5PWR	32	18	50	EA2BD	100	28	128	PY1TV	99	25	124	K9EL	274	40	314				
ZV2MU	38	10	48	PY1MK	99	28	127	PY1TS	92	32	124	PY4OY	236	40	276				
PU9VCC	34	14	48	F4ELJ	98	27	125	PG1R	101	22	123	HA00001	193	40	233				
PT9BM	34	12	46	5A1AL	98	24	122	DU2UXH	93	29	122	ZL1BBW	146	33	179				
PY2CTA	30	16	46	PY0F/PP1CZ	93	26	119	YU1WAT	97	24	121	HC5VF	103	29	132				
ZY83BJO	28	16	44	TA4CS	95	21	116	TA4A	94	27	121	VK6HG	104	26	130				
PY5DS	28	16	44	PP5AMP	84	27	111	VE4HAZ	89	27	116	AE7U	92	29	121				
PY2YV	23	14	37	PY3MU	78	24	102	W4WNT	94	22	116	AC2IK	77	21	98				
PY2QX	21	15	36	PY2RN	72	29	101	TA2ACW	96	19	115								
PP2CC	21	15	36	PY4VG	73	25	98	PY2WRO	77	32	109								
PU2TYA	22	13	35	PY4TJ	73	22	95	PY6JB	83	26	109								
ZV9TL	19	15	34	PU1TMU	69	24	93	YV6BXN	90	18	108								
PY22ADA	25	9	34	PY2EDY	68	24	92	TC4A	85	22	107								
PU2MMP	17	13	30	KE4QCM	64	21	85	EA1IPH	87	17	104								
PU1KVA	16	12	28	SV1NZX	69	14	83	N5ZY	77	25	102								
PY2ZJ	17	10	27	XV4Y	61	21	82	CE4KCA	75	25	100								
PY2IML	17	10	27	PY1TJ	52	20	72	NV2K	79	20	99								
PY2EQ	21	6	27																