

Results of the 2013 CQ WW DX SSB Contest

BY RANDY THOMPSON,* K5ZD

"There's no meters like 10 meters."

—Anonymous

Participants in the 66th edition of the CQ World-Wide DX SSB Contest couldn't say enough about how great the conditions were on 10 meters. From Ned AA7A, "I have not seen 10 meters so good since 2001." Larry W0PAN exclaimed, "Conditions were reminiscent of the '50s when I entered my first DX contest as a teenager." Lee KY7M noted, "Spectacular conditions on 10 meters with stations up above 29.0. It was the most fun I have had in a contest in a long time thanks to the smiling sunspots."

And when conditions on 10 meters are this good, it becomes almost impossible to stop operating. Red K0LUZ shared that experience: "I wasn't planning to spend so much time in front of the radio, but these were the best conditions in probably ten years." Low-power regular Marv N5AW enjoyed the activity. "WOW! May not see conditions this good again for a long time! I had a 173 hour rate on 10 Saturday morning and a 127 hour rate on Sunday." Geoff G4FKA was pleased as well: "What a great weekend for little pistols! Sunday on 28 was the best conditions I have heard on the band for over ten years. Great propagation east in the morning with China, Japan, Mongolia, South Korea, Malaysia, Laos, Thailand, and Guam all in the log." Tom ND2T wondered if he could make 10m DXCC in 6 hours? "Answer: Yes!"

What is the attraction of 10 meters? Over a full MHz available for SSB operation. That's more than all of the other bands combined!

With SSB contest activity from 28.2 up to beyond 29.1, the band is wide enough to accommodate lots of signals and give everyone a chance to call CQ or just escape the QRM. Jack W1WEF spoke for many: "Loved running on 10 with a relatively clear frequency. Hated all other bands with wall-to-wall splatter."

Of course, there are five other bands active in the contest. Peter W2IRT summarized activity: "You couldn't have asked for anything better—10 was a dream, 15 jammed from end to end, 20 wall-to-wall, not too much noise on the low bands. Personal record for score..."

Many times when 10 meters is this good, the low bands suffer, but that didn't seem to be the case this year. Many of the big multi-operator stations were able to achieve 5-Band DXCC and come close to the sixth. After the contest, Tim K3LR commented, "This contest will go down in history, as all of the bands were beyond outstanding for the entire weekend."

Great conditions deliver lots of activity and fun. There were a record 8,468 logs submitted—an increase of 278 over last year. Among the 222 DXCC entities worked during the weekend, the rarest were 3B9FR, C5/DH8FAT, S21S, and TY2SF with one contact each. The least rare country? The USA with 1,275,364 contacts reported!

One of the most unexpected and exciting calls that appeared was 7O2A on Socotra Island in Yemen operated by Dmitri RA9USU. It wasn't very long ago that Yemen was a rare catch. There was some confusion, as Yemen is normally in zone 21, but Dmitri was sending zone 37. A little research after the contest confirmed that Socotra Island is on the African continent and therefore zone 37 was the correct exchange. This cost more than a few entries the multiplier, since they put zone 21 in their log. Activating such a rare country under

difficult conditions earned Dmitri the Single Operator DXpedition plaque.

Single Operator All Band High Power

In a repeat of last year's finish for the High Power category, it was Jim W7EJ operating from CN2R in first, followed by Tom W2SC operating from 8P5A. These guys are amazing in their consistency and accuracy. Tom operated the full 48 hours. Jim operated 47 hours. Hard to believe they could think coherently after that much time awake, but Jim only had a 3.1% score reduction after check-



Ten-year-old Shuusei JH1RVN was an entrant in the new Rookie Overlay category.



Hary 9M2GET and Own 9W2SBL operating 9M2SM in the Multi-Two category.

*e-mail: <k5zd@cqww.com>

2013 WW DX SSB TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND

World
CN2R (Op.: James Sullivan, W7EJ)
 Donor: Southern California DX Club

World – Low Power
Ed Sawyer, N1UR
 Donor: Slovenian Contest Club

World – QRP
Randy Shirbroun, ND0C
 Donor: Jeff Steinman, N5TJ

World – Assisted
EF8U (Op.: Juan Hidalgo, EA8RM)
 Donor: Glenn Johnson, W0GJ

World – Assisted Low Power
KP3Z (Op.: Felipe Hernandez, NP4Z)
 Donor: Gail Sheehan, K2RED

U.S.A.
Steve London, N2IC/5
 Donor: Potomac Valley Radio Club – KC8C Memorial

U.S.A. – Low Power*
Marvin Bloomquist, N5AW
 Donor: North Coast Contesters

U.S.A. – QRP
Tom Magera, N1TM*
 Donor: Pat Collins, N8VW

U.S.A. – Assisted
Bill Kollenbaum, K4XS
 Donor: John Rodgers, WE3C

U.S.A. – Assisted Low Power
Vasily Voliy, W6AAN/3
 Donor: LA9Z/LN9Z Leia Contest Club

U.S.A. Zone 3
Bob Wolbert, K6XX
 Donor: Dave Prueett, K8CC & Greg Surma, K8GL

U.S.A. Zone 4
Kevin Stockton, N5DX*
 Donor: Dave Prueett, K8CC & Greg Surma, K8GL

Europe
CR2X (Op.: Kim Ostman, OH6KZP)
 Donor: Potomac Valley Radio Club – W4BVV Memorial

Europe – Low Power
Martin Bohadlo, OK1WCF
 Donor: Tim Duffy, K3LR

Europe – QRP
Mike Bulatov, RT4W
 Donor: Steve "Sid" Caesar, NH7C

Europe – Assisted
Imanol Antonanzas, EC2DX
 Donor: Martin Huml, OL5Y

Europe – Assisted Low Power
Andrius Ignotas, LY7Z
 Donor: Alex Goncharov, R3ZZ

Africa
ZD8O (Op.: Marko Myllymaki)*
 Donor: Chris Terkla, N1XS

Asia
Anatoly Polevik, RC9O
 Donor: Nodir Tursoon-Zadeh, EY8MM

Caribbean/Central America – High Power
8P5A (Op.: Tom Georgens, W2SC)
 Donor: Albert Crespo, NH7A

Caribbean/Central America – Low Power
Keith Ennis, XE3/K5ENS
 Donor: Alex M. Kasevich, 8R1A

Canada
CJ3T (Op.: Ron Vander Kraats, VE3AT)*
 Donor: Contest Club Ontario – VE3WT Memorial

Russia
Oleg Prelovsky, UA5B
 Donor: Roman Thomas, RZ3AA

Japan – High Power
Masaki Masa Okano, JH4UYB
 Donor: Dan Handa, W7WA – W7RM Memorial

Japan – Low Power
Haruki Ohtsubo, JH9URT
 Donor: Western Washington DX Club

Oceania
Dave Mueller, NH2T
 Donor: Barbara Yasson, AC7UH

South America
P49Y (Op.: Andy Faber)
 Donor: Yankee Clipper Contest Club

Southern Cone (CE CX LU) – Low Power
Jose Luis Murano, LU1FM
 Donor: LU Contest Group

ASEAN (XZ HS XU 3W 9M 9V V8 YB DU)
Low Power
XW0YJY (Op.: Champ Muangamphun, E21EIC)
 Donor: Bob Kupps, N6BK

SINGLE OPERATOR, SINGLE BAND

World – 28 MHz
TO1A (Op.: Herve Biraud, F5HRY)
 Donor: Joel Chalmers, K6GD

World – 21 MHz
FY5KE (Op.: Marc Sentuc, F1HAR)
 Donor: Robert Naumann, W5OV

World – 14 MHz
4L0A (Op.: Gia Gvaladze, 4L4WW)
 Donor: North Jersey DX Assn. – K2HLB Memorial

World – 7 MHz
W4AAA (Op.: John Bayne, KK9A)
 Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz
EF8S (Op.: Mauri Leppala, OH2BYS)
 Donor: Fred Capossela, K6SSS

World – 1.8 MHz
Ondrej Kolonicny, OK1CDJ
 Donor: Martin Monsalvo, LU5DX & Carlos Monsalvo, LU6EBY – LU8DQ Memorial

U.S.A. – 28 MHz
Jerry Rosalius, WB9Z
 Donor: Donald Thomas, N6DT

U.S.A. – 21 MHz
Pat Barkey, N9RV/7
 Donor: 11PM Dayton Pizza Gang

U.S.A. – 14 MHz
Daniel Handa, W7WA
 Donor: Stanley Cohen, W8QDQ

U.S.A. – 7 MHz
Victor Walz, N2PP*
 Donor: Yankee Clipper Contest Club – KC1F Memorial

U.S.A. – 3.7 MHz
Joe Gagliardi, AA1BU
 Donor: John Rodgers, WE3C

U.S.A. – 1.8 MHz
Ronald McClain, W2VO
 Donor: Glenn Johnson, W0GJ

Europe – 28 MHz
GW9T (Op.: Steve Redmond, MW0ZZK)
 Donor: John Rodgers, WE3C

Europe – 21 MHz
Viesturs Jakovlevs, YL2SM
 Donor: Tine Brajnik, S50A

Europe – 14 MHz
RT4F (Op.: Pavel Bogachev, RK4FD)
 Donor: Charles Wooten, NF4A

Europe – 7 MHz
YT7A (Op.: Ivanko Mandic, YU7GM)
 Donor: Central Texas DX and Contest Club – NT5C Memorial

Europe – 3.7 MHz
OK5D (Op.: David Lunak, OK1DTP)
 Donor: Ted Demopoulos, KT1V

Europe – 1.8 MHz
IO4C (Op.: Giammarco Berti, IZ4ZAW)*
 Donor: Robert Kasca, S53R

Carib/J.C.A. (28 MHz)
ZF2AH (Op.: Joseph F. Hynarowski, W6VNR)
 Donor: Nate Moreschi, N4YDU

Oceania (21 MHz)
Fred Honnold, KH7Y
 Donor: Bruce D. Lee, KD6WW

Asia (21 MHz)
Vakhtang Mumladze, 4L8A
 Donor: Dallas/Fort. Worth Contest Group – W5PG Memorial

OVERLAY CATEGORIES

World – Classic
VE2IM (Op.: Yuri Onipko, VE3DZ)
 Donor: Pete Smith, N4ZR

U.S.A. – Classic
Randy Thompson, K5ZD/1
 Donor: Tom Horton, K5IID

World – Rookie
Tomislav Krpan, 9A6TKS
 Donor: Tim Duffy, K3LR – N8SM Memorial

U.S.A. – Rookie
Kevin Meyers, K4CQC
 Donor: Tim Duffy, K3LR, K3TUP Memorial

MULTI-OPERATOR, SINGLE TRANSMITTER

World
CN2AA (Ops: UA2FB, UA2FF, RN2FA, R3FA, RK7A, RL3FT, UA3ASZ, RK3AD, RA3ATX, RU3RQ, RV3MA, RX3APM)
 Donor: So. Calif. DX Club – W6AM Memorial

U.S.A.
NN3W (Ops: NN3W, K4ZW, KE3X, N3HBX, NH7C)
 Donor: Carolina DX Association

Africa
CR3A (Ops: CT1BOH, CT3BD, CT3DL, CT3DZ, CT3EE, CT3IA, CT3KU)*
 Donor: Doc Sayre, W7EW

Asia
P33W (Ops: LY4AA, LZ3FN, UU4JMG, R5GA, UA4FER, R3DCX, RW4WR, RA3AUU)
 Donor: Edward L. Campbell, NX7TT – AA6BB and KA6V Memorial

Europe
EI7M (Ops: EI3JE, EI3KD, EI8IR, EI3JZ, G4CLA, M1DSE, EI3DP, EI5GM)
 Donor: Bob Cox, K3EST

Oceania
AH2R (Ops: NH2C, JH3PRR/KH8B, JR7OMD/WI3O, 7N2JZT/NH2KO, JE8KKX/AH2K, JR3RVO/WX8M)
 Donor: Junichi Tanaka, JH4RHF

South America
PJ4X (Ops: K1QX, K2NG, PJ4LS, W1MD)
 Donor: Victor Burns, K16IM – The Cuba Libre Contest Club

Caribbean/Central America
V26B (Ops: N3OC, W2BZR, HB9OCR, K3RA)
 Donor: Bob Raymond, WA1Z

Japan
JA0QNJ (Ops: JA0QNJ, JJ0NOO)
 Donor: Arizona Outlaws Contest Club

ASEAN (XZ HS XU 3W 9M 9V V8 YB DU)
9V1YC (Ops.: 9V1YC, 9V1BH)
 Donor: Bob Kupps, N6BK

MULTI-OPERATOR, TWO-TRANSMITTERS

World
CN3A (Ops: IK2QEI, IK2SGC, IK2LFF, IK3STG, N6KT, CN8WK)
 Donor: Array Solutions

U.S.A.
KC1XX (Ops: DL4NAC, DL6KAC, KC1XX, KM3T, N1KWF, W1FV, WA1Z)
 Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND – Dan Robbins, KL7Y Memorial

Europe
TM6M (Ops: F1AKK, F4CWN, F4DXW, F8DBF, TU5KG, F1UVN, F8FKJ)
 Donor: Aki Nagi, JA5DQH

MULTI-OPERATOR, MULTI-TRANSMITTER

World
D4C (Ops: I4UFH, IZ4DPV, IK1HJS, IZ1LGB, IT9RGY, IT9SPB, CT1ESV, SK7A, 9A1TT, E77DX, YL2GM, JK3GAD, I4VEQ, IZ4UEZ, HB9DUR)
 Donor: Dave Leeson, W6NL & Barb Leeson, K6BL

U.S.A.
K3LR (Ops: K3LR, N2NC, N5UM, KB8VAO, K3LA, W2RQ, AD1C, ND8L, K1AR, N2NT, WM2H, K3UA, K1DG, N3GJ, LU7DW)
 Donor: Jim Lawson – W2PV Memorial

Europe
ES9C (Ops: ES2RR, ES7GM, ES5TV, ES2MC, ES5RY, ES5JR, ES5RW, ES4BO, ES5HTA, ES2TI, ES2NA, ES5NC, ES5QA, ES2DW, ES5GP, ES2ADO, YL3DW, YL3CW, YL1ZF, YL2GQT, YL2BJ, YL2KL, YL3AJA, YL3AD, OH1NOA, ON3GPS)
 Donor: Finnish Amateur Radio League

Oceania
AH0BT (Ops: W1FPU, W1NDE, KW2X, NA8O, K0BBC)
 Donor: Tack Kumagai, JE1CKA – JR2GMC and JA9SSY Memorial

CONTEST EXPEDITIONS

World Single Operator
7O2A (Op.: Dmitry Zhikharev, RA9USU)
 Donor: National Capitol DX Association – Stuart Meyer, W2GKH Memorial

World Multi-Op
IG9Y (Ops: HA1YA, JH5GHM, N3BNA, PC5A, PE1ITR, RC0F, RT4RO, S50X, S52RU, S54W, S57DX, S57UN, S59A, VE3LA, Edith)
 Donor: Gail Sheehan, K2RED

**Awarded to second place finisher*

Overcoming Adversity—A New Oceania Record from NH2T

By Dave Mueller, N2NL

Last year's CQ WW DX SSB Contest made me fully aware of just how difficult it would be to break the Oceania SOAB record set back in 2000 by CT1BOH operating as KH7R. The fact that the record has stood for more than a dozen years even with the explosion in activity levels is proof of how difficult it would be to surpass. I made it a goal to take one more crack at the record in 2013. Little did I know how challenging 2013 would turn out being for me.

In February of 2013, I succeeded in obtaining a one-year extension on my tour to Guam as a member of the US Coast Guard. That assured I would actually still be residing in Oceania come October 2013. That is when the problems started; minor abdominal cramping began to increase in severity. I'd been to the doctor but the symptoms had been diagnosed as something minor; after all, I am only in my early 40s, live a healthy lifestyle, and have no family history of illness. Still, the symptoms worsened until I had my wife drive me to the emergency room in early May. I left the hospital a week later following emergency surgery to remove a section of my colon, outfitted with a temporary colostomy, and a diagnosis of stage 3 colon cancer. Fortunately, the surgery was completely successful, but I would need six months of adjuvant chemotherapy to minimize risk of recurrence.

My first round of chemo started two days before the WPX CW contest. Piece of cake, I thought. I'll push right through it and operate the contest full time. I only made it through 500 QSOs until the nausea meds wore off. I spent the rest of the weekend in bed. Wow . . . this was worse than I expected!

About mid way through chemo treatments, I received another bomb shell. The Navy was closing the housing area in which I lived, and I would be forced to move into new quarters. Say goodbye to the low-band vertical I'd installed thousands of feet of radials under. Say goodbye to the six Beverage RX antennas I'd installed in the jungle adjacent to my home. As consolation for the trouble, the Navy did hook me up with a fantastic new location, smack dab in the middle of senior officer housing on a hilltop with a fantastic takeoff toward NA and EU. My Coast Guard Shipmates helped me move, but putting up new antennas was all my responsibility.

It took all summer, but on my "chemo good days" I got my Spiderbeam installed, put up a vertical for the low bands, and even got three new Beverage receive antennas installed. By early October I was ready for another crack at the record.

The challenges were not yet over. During the month of October, three tropical systems passed over or close to Guam, the first of which bent my mast over by 90 degrees in heavy tropical storm-force winds. A vertically polarized Spiderbeam just wasn't going to work, so I got that repaired, along with the Beverages which were trashed by fallen trees. I finally had everything back together by the Wednesday before the start of the contest.

The contest itself was a blur. Fortunately,

the timing worked out well, as I was at the end of a chemo cycle when the side effects were minimal. Still, I had to operate VOX for the first time in a contest because one of the long-term side effects is hand-foot syndrome, and it hurt to stomp on a foot switch for any length of time. Conditions were the best I'd ever experienced in a CQ WW contest, however, and the record was the carrot that kept me in the chair. Late on the second day I had finally surpassed Jose's record score. Mission complete!

Fortunately, following my diagnosis of

colon cancer, I've had subsequent testing that has shown me to be cancer free. I completed chemotherapy in mid November, and a month later had surgery to reverse my colostomy. I should be back to full duty by early January. I still have several years of follow-up checks to make sure I remain cancer free, but close monitoring will help me catch anything early when the prognosis would be significantly better. I will be transferring in the summer of 2014 to Hawaii, but am looking forward to my remaining months on Guam to be as active as possible.



Antenna damage after the tropical storm.



The effective operating position used by Dave N2NL to set a new Oceania record as NH2T.

2013 CQ WW DX SSB TOP SCORES

WORLD SINGLE OPERATOR HIGH POWER ALL BAND

CN2R (W7EJ).....	18,277,746
8P5A (W2SC).....	17,059,840
CR2X (OH6KZP).....	16,259,949
VE2IM (VE3DZ).....	13,737,132
NH2T (N2NL).....	12,215,161
P49Y (AE6Y).....	12,140,070

28 MHz	
TO1A (F5HRY).....	3,050,775
CW5W (CX6VM).....	2,458,016
EA8EW (OH0XX).....	2,242,853

21 MHz	
FY5KE (F1HAR).....	2,566,582
P43A.....	2,258,009
4L8A.....	1,559,075

14 MHz	
4L0A (4L4WW).....	1,817,725
RT4F (RK4FD).....	1,452,948
LU1FAM.....	1,194,102

7 MHz	
W4AAA (KK9A).....	635,769
4X2M (4X4DZ).....	517,185
YT7A (YU7GM).....	501,981

3.7 MHz	
EF8S (OH2BYS).....	434,620
NP4A.....	276,873
VP2MXA (KK6ZM).....	229,066

1.8 MHz	
OK1CDJ.....	105,608
IO4C (I24ZAW).....	80,724
VE3PN.....	41,548

SINGLE OPERATOR LOW POWER ALL BAND

N1UR.....	4,911,440
XW0YJY (E21E1C).....	4,521,594
VP9I (N1SV).....	4,013,880
SU9AF.....	3,393,400
N5AW.....	3,202,994
OK1WCF.....	3,111,394

28 MHz	
HI3/NP3J (JA6WFM).....	973,047
PY2UD.....	971,700
CT9/R9DX.....	707,487

21 MHz	
UK9AA.....	855,846
YY2CAR.....	710,087
EABAH (OH1RY).....	621,762

14 MHz	
HI3TEJ.....	854,037
HC1JQ.....	746,334
D3AA.....	530,720

7 MHz	
YW5T (YV5JB).....	350,160
RZ3Z.....	58,344
ED30 (EA3GXJ).....	58,140

3.7 MHz	
UY2UO.....	64,740
F5BEG.....	57,433
OK1FPS.....	42,194

1.8 MHz	
SO9IAU.....	22,220
SO4JEN.....	13,965
SM6FJY.....	12,801

SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND

EF8U (EA8RM).....	12,743,163
UP0L (UN9LW).....	11,397,276
A65BP.....	10,733,316
K4XS.....	10,218,776
PX5E (PP5JR).....	8,737,932
VE3RA.....	8,099,535

28 MHz	
OK7K (OK1BN).....	1,629,144
LW6DG.....	1,611,240
VE9AA.....	1,420,365

21 MHz	
ED9Z (EA9LZ).....	2,120,814
9A9A.....	1,475,352
KL7KY.....	1,421,200

14 MHz	
ED8W (EA8DO).....	1,603,236
EA7LL.....	1,422,175
9A6A.....	1,354,914

7 MHz	
IG9R (IK8HCG).....	1,142,113
TM9R (F5FLN).....	765,180
RW3DU.....	404,352

3.7 MHz	
SP3GEM.....	297,053
S51DX.....	226,829
KP4KE.....	221,067

1.8 MHz	
F5UTN.....	96,936
9A5W.....	86,994
9A2AJ.....	77,490

SINGLE OPERATOR ASSISTED LOW POWER ALL BAND

KP3Z (NP4Z).....	8,416,538
LY7Z.....	4,202,490
W6AAN/3.....	4,020,458
Z71CQ.....	3,866,415
KE1J.....	3,511,052
HA3DX (HA4XH).....	3,114,252

28 MHz	
YY4DNN.....	1,306,503
PY1NX.....	1,091,125
EE8T (EA8MT).....	1,087,750

21 MHz	
PT7KJ (PY7RP).....	794,236
E74A.....	617,823
G8DX.....	610,680

14 MHz	
9Y4D.....	1,697,584
RZ1ZZ.....	652,729
S53DOS (S52OT).....	484,068

7 MHz	
MW0EDX.....	208,152
US0HZ.....	113,619
M4D (G4ATA).....	90,825

3.7 MHz	
E74O.....	74,508
SO9ORQ.....	42,174
OK2RB.....	27,608

1.8 MHz	
E77EZ.....	25,704
UT1AN.....	14,396
IK0XBX.....	10,304

SINGLE OPERATOR ORP ALL BAND

ND0C.....	1,035,648
RT4W.....	634,365
HG6C (HA6IAM).....	593,246
JH1OCC.....	534,456
JR4DAH.....	501,370
N1TM.....	477,405

28 MHz	
JH7RTO.....	176,778
CO2OO.....	136,000
G4CWH.....	99,922

21 MHz	
JO1NGT.....	95,190
ON4MW.....	67,524
YT1CS.....	61,683

14 MHz	
FY5FY.....	602,250
HG3M.....	77,700
N4JF.....	75,696

7 MHz	
OH4EA.....	30,885
IZ3BL/2.....	24,786
OK1XYZ.....	13,020

3.7 MHz	
OL4W (OK1IF).....	13,107
OH4JT.....	1,581
EA1TI.....	1,269

1.8 MHz	
RA2FB.....	756
OG4T (OH4MFA).....	558

SINGLE OPERATOR ASSISTED ORP ALL BAND

DL8LR.....	675,108
CT1BXT.....	310,080
UX5UU.....	274,108
IZ3NVR.....	242,998
JK1TCV.....	213,800
YU1LM.....	172,353

28 MHz	
JR3RWB.....	225,078
HA1ZH.....	153,439
XE2JS.....	136,374

21 MHz	
EA9CD.....	136,653
SO5NBE.....	60,135
SP6DVP.....	59,241

14 MHz	
IZ0FUW.....	97,067
EA2EA.....	75,638
OH3BU.....	70,585

7 MHz	
IZ1DGG.....	10,350
PA9M.....	4,794

3.7 MHz	
BA4WI.....	18

1.8 MHz	
HA5NB.....	6,795
9A4AA.....	209
I17U.....	154

MULTI-OPERATOR SINGLE TRANSMITTER

CN2AA.....	28,626,968
CR3A.....	27,007,552
P33W.....	26,083,506
P3N.....	23,977,818
CO3L.....	20,116,896
E17M.....	19,962,126

MULTI-OPERATOR TWO-TRANSMITTER

CN3A.....	34,264,727
UP2L.....	27,846,478
KC1XX.....	23,851,137
TM6M.....	23,072,088
K1LZ.....	19,625,840
RU1A.....	18,052,034

MULTI-OPERATOR MULTI-TRANSMITTER

D4C.....	59,424,324
HK1NA.....	41,974,119
ES9C.....	39,013,828
K3LR.....	37,402,560
PJ2T.....	37,252,749
IG9Y.....	33,716,321

ROOKIE HIGH POWER

9A6TKS.....	2,566,924
KE4CO.....	1,425,960
EA5ICU.....	1,273,813

ROOKIE LOW POWER

OH6ECM.....	1,224,006
SO6PLH.....	1,150,050
EI3HDB.....	785,547

CLASSIC HIGH POWER

VE2IM (VE3DZ).....	6,543,008
ZD8O (N5ZO).....	5,090,080
CO9T (CT3KN).....	5,024,024

CLASSIC LOW POWER

OE6Z (OE6MBG).....	2,071,611
MD2C (MD0CCE).....	1,510,200
K9JF7.....	1,291,632

UNITED STATES

SINGLE OPERATOR HIGH POWER ALL BAND

N2IC/5.....	7,529,827
N5DX.....	7,370,415
W9RE.....	7,349,634
KO2M/1.....	7,142,458
K1ZR.....	6,707,100
K3CR (LZ4AX).....	5,625,900

28 MHz	
WB9Z.....	1,119,960
W5PR.....	1,021,600
W3BGN.....	995,785

21 MHz	
N9RV/7.....	1,292,100
KD2RD.....	873,535
NW2K.....	737,044

14 MHz	
W7WA.....	1,068,120
W8TA.....	623,636
W6YX (N7MH).....	400,967

7 MHz	
W4AAA (KK9A).....	635,769
N2PP.....	187,308
W1XX.....	134,334

3.7 MHz	
AA1BU.....	122,844
K1KNQ/4.....	44,712
EA2EA.....	18,176

1.8 MHz	
W2VO.....	12,864
W8CO.....	2,940
K1HAP.....	2,233

SINGLE OPERATOR LOW POWER ALL BAND

N1UR.....	4,911,440
N5AW.....	3,202,994
NABV.....	2,852,685
N4TZ/9.....	2,409,974
K2PO/7.....	2,392,502
N5BO.....	2,146,300

28 MHz	
N8II.....	637,488
K4WL.....	463,275
KI6LZ.....	225,078

21 MHz	
W2ZAW (N2GM).....	336,753
N4MO.....	178,750
K6GHA.....	175,497

14 MHz	
K7KU (K0KR).....	176,648
N7BK.....	145,280
N4DL.....	145,254

7 MHz	
N3LL/4.....	20,150
N3XOF/2.....	18,166
WB7FJG.....	4,884

3.7 MHz	
W4QNW.....	21,210

SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND

K4XS.....	10,218,776
K3WWW.....	7,727,566
K7RL.....	6,576,900
W3UA/1.....	6,539,299
AA3B.....	6,019,104
N3RS.....	4,906,125

28 MHz	
K2SSS.....	984,742
W6YI.....	791,752
WE9V.....	769,131

21 MHz	
N7DD.....	1,084,840
K3EST/6.....	1,057,312
KV0Q.....	950,868

14 MHz	
NM2O.....	358,344
K6AW.....	158,746
W7VO.....	76,212

7 MHz	
N6SS/7.....	250,393
W1MBB/4.....	206,276
NR6O (K1GI).....	27,573

3.7 MHz	
K9FY/4.....	34,425
K4KZZ.....	28,126
N9LB.....	8,624

1.8 MHz	
K9LA.....	1,725
N4DU.....	936

SINGLE OPERATOR ASSISTED LOW POWER ALL BAND

W6AAN/3.....	4,020,458
KE1J.....	3,511,052
KS1J.....	2,715,921
KG1E.....	2,563,511
WE9R.....	2,314,240
K1BX.....	1,738,928

28 MHz	
K1ZO.....	311,856
NV9L.....	311,664
W9ILY.....	262,975

21 MHz	
N9TGR.....	314,171
K4MM.....	96,384
KV8S.....	89,160

14 MHz	
AD4RE.....	139,122
W4LC.....	131,364
KK7AC.....	87,210

7 MHz	
W6AWW.....	13,572
W9QL.....	9,216
W4HLN/8.....	216

1.8 MHz	
KF7ADB.....	12

SINGLE OPERATOR ORP ALL BAND

1.8 MHz		EI4II66,847
SO9IAU22,220		SP3DRM32,376
SO4JEN13,965		
SM6FJY12,801		
SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND		
EC2DX8,075,516		
DJ8OG6,606,680		
IW2HAJ6,570,473		
ON4IA6,252,168		
UT7U6,245,136		
OH8L (OH8LQ)6,071,796		
28 MHz		
OK7K (OK1BN)1,629,144		
E70T1,378,960		
OE8Q (OE8SKO)1,374,450		
21 MHz		
9A9A1,475,352		
OH1F (OH1TM)1,390,090		
DO8N (DL2ARD)1,345,344		
14 MHz		
EA7LL1,422,175		
9A6A1,354,914		
9A5Y (9A7DX)1,337,877		
7 MHz		
TM9R (F5FLN)765,180		
RW3DU404,352		
RY3D387,288		
3.7 MHz		
SP3GEM297,053		
S51DX226,829		
YU7U182,817		
1.8 MHz		
F5UTN96,936		
9A5W86,994		
9A2AJ77,490		
SINGLE OPERATOR ASSISTED LOW POWER ALL BAND		
LY7Z4,202,490		
HA3DX (HA4XH)3,114,252		
S50XX2,522,970		
Y7BT2,182,188		
9A2EU1,913,856		
EE1A (EA1HDD)1,841,060		
28 MHz		
M0BJL600,972		
I0UZF546,882		
EA4AK504,431		
21 MHz		
E74A617,823		
G8DX610,680		
IK4TVP393,621		
14 MHz		
RZ1ZZ652,729		
S53DOS (S52OT)484,068		
F4FLO371,536		
7 MHz		
MW0EDX208,152		
US0HZ113,619		
M4D (G4ATA)90,825		
3.7 MHz		
E74O74,508		
SO9ORQ42,174		
OK2RB27,608		
1.8 MHz		
E77EZ25,704		
UT1AN14,396		
IK0XBX10,304		
SINGLE OPERATOR QRP ALL BAND		
RT4W634,365		
HG6C (HA6IAM)593,246		
UX2MF455,000		
EA3FF359,161		
IZ1ANK315,256		
RW3AI263,444		
28 MHz		
G4CWH99,922		
R4FAD76,336		
SP5DDJ63,791		
21 MHz		
ON4MW67,524		
YT1CS61,683		
I4PZP54,144		
14 MHz		
HG3M77,700		
OH4EA30,885		
IZ3IBL/224,786		
OK1XYZ13,020		
7 MHz		
OL4W (OK1IF)13,107		
OH4JT1,581		
EA1TI1,269		
3.7 MHz		
RA2FB756		
OG4T (OH4MFA)558		
1.8 MHz		
DL8LR675,108		
CT1BXT310,080		
UX5UU274,108		
IZ3NVR242,998		
YU1LM172,353		
PE2K143,675		
28 MHz		
HA1ZH153,439		
HA5BSW93,412		
R4FA44,073		
21 MHz		
SO5NBE60,135		
SP6DVP59,241		
EA1PS32,085		
14 MHz		
IZ0FUW97,067		
EA2EA75,638		
OH3BU70,585		
7 MHz		
IZ1DGG10,350		
PA9M4,794		
1.8 MHz		
HA5NB6,795		
9A4AA209		
II7U154		
MULTI-OPERATOR SINGLE TRANSMITTER		
E17M19,962,126		
OM8A16,345,962		
SJ2W15,783,775		
9A1P14,893,016		
OM7M14,875,848		
SN2B13,660,452		
MULTI-OPERATOR TWO-TRANSMITTER		
TM6M23,072,088		
RU1A18,052,034		
OL4A16,798,908		
SK3W15,540,875		
HG7T14,849,976		
PI4DX14,423,709		
MULTI-OPERATOR MULTI-TRANSMITTER		
E59C39,013,828		
DR1A32,615,320		
II9P24,423,180		
OT5A20,162,142		
LZ9W20,072,872		
DF0HQ19,387,046		
ROOKIE HIGH POWER		
9A6TKS2,566,924		
EA5ICU1,273,813		
II4I (IZ4ZB)798,252		
ROOKIE LOW POWER		
OH6ECM1,224,006		
SO6PLH1,150,050		
EI3HDB785,547		
CLASSIC HIGH POWER		
OH0Z (OH6EI)4,764,384		
OE3K (OE3DIA)4,562,910		
EA4KD3,058,814		
CLASSIC LOW POWER		
OE6Z (OE6MBG)2,071,611		
MD2C (MD0CCE)1,510,200		
DL2CC1,168,790		



Siggi TF3CW used this simple antenna for his 21-MHz single-band effort.

ing and Tom went down only 2.9%. The median score reduction for all entries was 7.9%. The major difference between their scores is the extra point advantage of being in Africa vs North America.

Continuing the repeat from 2012, the third place score was from CR2X, this time operated by Kim OH6KZP. Yuri VE3DZ visited zone 2 for the 15th time and operated VE2IM into fourth. The most incredible effort of the top scorers has to be NH2T, operated by Dave N2NL, in fifth place. Using very modest antennas and battling cancer, Dave broke the 12-year-old Oceania scoring record (see sidebar story). Andy AE6Y represented another continent in the Top Ten from P49Y in Aruba. It didn't help when Andy did not hear his alarm and overslept for 4 hours on Sunday morning!

In one of the most surprising results of the weekend, the USA Single Operator All Band category was a shootout between stations *not* on the East Coast. Steve N2IC/5 in north-west New Mexico ended up on top. Second place, in just his second single operator effort ever, was Kevin N5DX operating from the K5GO station in Arkansas. Perennial contender, Mike W9RE in Indiana finished

third. N2IC/5 is 884 miles (1422 km) west/south west of N5DX. To provide some perspective, W9RE is about 820 miles (1319 km) west of Boston, MA. The quiet conditions and polar paths available really helped the guys out west. The top East Coast entries were KQ2M/1 followed by K1ZR.

The top score in continental Europe was from far north at OH8X operated by Toni OH2UA. Toni will be one of the last operators to have enjoyed the monster 80- and 160-meter Yagis that were a symbol of the Radio Arcala station. The antennas were lost when the tower collapsed in early December. UU7J, operated by Andi UU0JM, finished next just ahead of Pal HA8JV. The rest of the European Top Ten was very close with a number of northern stations taking advantage of the excellent conditions to have personal best scores.

Single Operator All Band Low Power

Continuing the theme of improbable finishes, the world number one low-power score was by Ed N1UR. Ed is always a top competitor for low power from his spectacular

2013 WW DX SSB SINGLE-OP TOP SCORES IN MOST ACTIVE ZONES

Zone 3		
K6XX3,779,127	K3ZO5,141,932	EU1A6,626,928
WC6H (NU6S)3,629,087	VE9HF4,972,649	UA5B6,568,528
K6NA3,066,992		RG6G4,160,600
*K2PO/72,392,502	Zone 14	
K5RR/72,172,457	CR2X (OH6KZP)16,259,949	US5D (UT7DX)3,411,282
W7ZR2,026,832	DJ5MW5,976,252	EW2A3,015,402
	G6PZ (GI0RTN)5,508,405	
Zone 4		
CJ3T (VE3AT)12,107,384	OZ7X (OZ5KF)5,230,816	Zone 20
VE3JM9,042,976	EE3A (EA3ATM)5,205,411	YP0C (YO3CZW)4,466,052
N2IC/57,529,827	DJ7WW4,215,720	H2T (5B4XF)3,455,870
N5DX7,370,415		OD5ZZ975,520
W9RE7,349,634	Zone 15	
VE3OI5,032,668	OH8X (OH2UA)9,506,679	*SV1PMR774,426
	HA8JV6,868,904	YO2LEA621,348
	OH0X (OH2TA)6,408,466	*TA1ED509,472
	OE3K (OE3DIA)5,044,444	
	OH0Z (OH6EI)4,827,340	Zone 25
	4O3A4,821,375	JH4UYB5,991,726
Zone 5		
KQ2M/17,142,458		JA7NVF4,900,896
K1ZR6,707,100		JA8WKE4,440,870
K3CR (LZ4AX)5,625,900		JR4OZR4,279,522
K5ZD/15,547,915		JE1LFX3,027,232
	Zone 16	
	UU7J (UU0JM)7,410,582	JA6LCJ2,958,425

location in the Vermont mountains, but I doubt he ever expected to beat all of the other 2,103 entrants in the category! Second place came from an area of the world that is rarely represented in the single operator Top Ten. Champ E21EIC made a lot of people happy by giving out a rare multiplier from XWØYJY in Laos. Les N1SV visited VP9I in Bermuda to take third. Fourth place was the always rare zone 34 multiplier SU9AF operated by Andrew RW3AH. Marv N5AW finished second in the USA and fifth overall to go along with a new record score for W5. Martin OK1WCF earned the top European score. EA7OT and OE6Z were the other top European finishers.

Single Operator All Band Assisted

For the first time ever, the High Power Assisted category had more entries than the non-assisted category (974 to 960). This demonstrates the continuing popularity of using the DX Cluster to help find new countries among all of the contest activity across multiple bands. The world high scorer was EF8U operated by Juan EA8RM from the club station EA8URL. The next two finishers were from Asia—Vladimir UPØL and Alexander A65BP.

Fourth place went to Bill K4XS who overcame several obstacles on his way to such a fine score: “On Wednesday I started getting a cold and by Friday I had a sore throat ... not good for an SSB contest. Constant throat gargles with Listerine did the trick and helped a lot. This was my first venture into the iron man CQ WW All Band Assisted category ... at age 67!” Nice job, OM!

Sergio PP5JR moved away from his usual single band entry to try the All Band Assisted category as PX5E. It earned him fifth place and the fourth continent represented in the Top Ten. VE3RA and EC2DX had a virtual photo finish for sixth place.

The Low Power Assisted category was dominated by Felipe NP4Z using the club call KP3Z. The choice to go low power was dictated by the electric utility. “After all the station upgrades it was disap-

pointing that there was no power or very low voltages for almost the whole weekend ... The option was to run low power, since the automatic amps do not like low voltage. The second radio with external power supply kept shutting down at full power. A 12 volt battery with an external charger on the generator fixed the problem.” Second place went to Andrius LY7Z, another northerly station that took advantage of the conditions. Vasily W6AAN/3 was the top USA scorer and third overall. Abdulhafiz 7Z1CQ had a very nice score to finish fourth.

Single Operator Single Band

The single band categories were dominated by a trio of French operators from the FY5KE Radio Amateur Club de Kourou in French Guiana. Herve F5HRY and Marc F1HAR took a full week of “holidays” to upgrade the FY5KE club station: “With the help of Didier FY5FY and a lot of preparation during the previous years, we eventually raised three new towers (24m/27m/30m) respectively dedicated to 15m, 20m, and 40m. The antenna work ended just one day before the contest (not a single piece of the inside stations assembled at that time), with three fully exhausted ops, bitten by mosquitos and burned by sun...”

Herve F5HRY finished in first place on 10 meters with the callsign TO1A. Jorge CX6VM used the callsign CW5W to finish second. He says, “My best ever QSOs in a SOAB contest, and still on only one band.” Third place went to another travelling Finn, Olli OHØXX, operating as EA8EW. GW9T operated by Steve MWØZZK, was the top European scorer just a few points ahead of Clive GM3POI at GM3X. There was a close race in the USA also, as Jerry WB9Z in Indiana finished just ahead of Chuck W5PR in Texas.

Marc F1HAR enjoyed the new antenna at FY5KE to finish first on 15 meters. Jean-Pierre P43A made a last-minute decision to try 15 meters instead of 20 and was pleased with his choice. Gary VA7RR used the special callsign CJ7RR to post a very nice score from the

2013 CQ WW DX SSB BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CN2R	229/13/46	532/18/74	1093/26/94	1723/38/120	1213/35/126	3580/37/119
8P5A	95/ 9/20	418/18/58	1387/31/103	2391/38/120	2404/34/112	3431/32/105
CR2X	178/14/44	434/24/85	969/28/94	1961/36/113	2509/36/121	3060/36/116
VE2IM	85/ 7/ 6	542/16/71	1106/27/93	1578/36/113	2041/36/125	2440/35/116
NH2T	35/10/15	273/27/53	605/34/75	1039/33/ 97	2181/36/101	2722/39/103

WORLD SINGLE OPERATOR ASSISTED ALL BAND

EF8U	12/ 4/12	173/16/57	597/26/ 89	1819/36/122	1587/35/120	2468/37/133
UPØL	89/ 9/27	468/13/61	1339/30/110	1291/37/131	919/34/123	1532/39/134
A65BP	65/ 9/33	271/14/62	892/32/107	1060/37/113	991/35/120	2031/37/133
K4XS	33/16/27	99/23/74	561/34/109	1184/39/135	675/38/134	1956/37/142
PX5E	5/ 4/ 4	59/14/37	254/27/ 79	982/34/ 93	966/39/124	2682/37/141

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CN2AA	167/16/63	426/22/81	1414/36/116	2277/39/143	3147/38/146	3515/40/164
CR3A	110/13/49	371/24/90	1018/33/113	2366/38/152	2398/39/151	3953/40/166
P33W	261/13/66	358/19/80	1500/35/121	2586/40/154	2395/39/144	3148/40/156
P3N	228/14/68	726/22/83	1479/34/117	1972/39/144	2126/39/142	3492/40/144
CQ3L	74/ 9/39	196/14/62	920/29/101	2310/38/141	1969/38/135	3421/37/136

WORLD MULTI-OPERATOR TWO TRANSMITTER

CN3A	162/14/48	587/19/83	1650/34/116	3395/38/151	3905/39/151	3836/40/156
UP2L	278/12/59	1008/22/88	2193/38/126	2403/39/146	3115/39/142	2492/39/137
KC1XX	42/13/36	518/25/85	1407/35/123	1782/39/149	3150/40/155	2625/38/155
TM6M	211/12/52	748/20/82	1376/34/111	2627/40/149	3682/38/145	2725/40/153
K1LZ	74/15/50	568/27/92	1035/34/117	1761/38/151	2106/39/145	2224/39/157

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

D4C	649/23/85	985/30/111	2335/36/132	5540/40/172	5057/40/171	5114/40/172
HK1NA	575/17/60	787/26/ 80	2762/34/122	3749/38/150	3581/38/143	5132/39/144
ES9C	1218/21/85	1826/28/102	3266/39/137	4891/40/165	4905/40/161	3118/40/164
K3LR	489/19/69	999/28/100	2227/35/130	3346/40/169	3739/40/163	3380/39/167
PJ2T	172/12/28	831/28/ 85	2331/29/117	3887/37/141	4308/38/133	4650/38/131

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
N2IC/5	17/12/12	98/21/47	598/30/73	503/33/ 94	1434/37/120	1688/36/126
N5DX	35/13/19	93/21/57	618/29/81	686/35/110	918/32/106	1858/36/106
W9RE	41/12/22	180/18/58	460/31/84	1023/32/122	1096/35/118	1224/35/102
KQ2M/1	0/ 0/ 0	37/ 8/23	158/24/58	1192/39/124	1492/40/115	1818/33/ 98
K1ZR	7/ 5/ 3	351/17/68	397/20/71	867/31/100	960/32/ 95	1574/28/ 96

USA SINGLE OPERATOR ASSISTED ALL BAND

K4XS	33/16/27	99/23/74	561/34/109	1184/39/135	675/38/134	1956/37/142
K3WW	40/13/28	177/19/68	276/32/98	895/35/116	638/35/116	1829/35/127
K7RL	9/ 6/ 4	63/18/32	693/31/84	542/37/117	1237/36/129	1217/35/131
W3UA/1	22/10/19	111/17/67	446/31/92	562/33/114	718/36/112	1486/33/125
AA3B	30/ 8/20	215/15/67	243/28/91	739/33/120	599/34/118	1270/29/126

USA MULTI-OPERATOR SINGLE TRANSMITTER

NN3W	40/17/38	218/24/81	776/33/109	875/39/141	1276/38/148	1811/37/152
K8AZ	25/13/23	157/22/74	539/33/110	1045/40/137	1161/39/136	1761/37/148
W1NA/Ø	30/11/28	139/22/81	680/32/108	747/37/131	806/39/130	1153/35/140
N1MM	7/ 6/ 6	118/14/57	214/27/87	932/39/132	765/36/130	1420/32/134
AA9A	9/ 6/ 7	119/16/55	388/30/92	491/35/113	761/37/129	1473/36/143

USA MULTI-OPERATOR TWO TRANSMITTER

KC1XX	42/13/36	518/25/85	1407/35/123	1782/39/149	3150/40/155	2625/38/155
K1LZ	74/15/50	568/27/92	1035/34/117	1761/38/151	2106/39/145	2224/39/157
K9CT	57/15/21	194/20/68	768/34/107	999/39/137	2129/40/148	2264/38/152
WK1Q	53/14/38	383/24/79	570/32/102	936/39/138	1858/38/143	1993/36/141
NØNI	92/15/34	278/23/76	564/34/107	949/39/132	1685/39/134	1929/33/126

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	489/19/69	999/28/100	2227/35/130	3346/40/169	3739/40/163	3380/39/167
W3LPL	344/18/64	755/27/96	1443/35/118	2167/40/155	2703/39/152	3106/39/161
WE3C	84/18/53	381/24/87	1313/35/123	2461/40/158	2963/39/158	2681/38/154
NQ4I	201/18/52	510/26/86	991/34/119	1788/39/144	1451/38/140	1793/38/146
W4RM	75/15/33	250/23/78	860/30/100	1133/38/134	2167/37/136	1674/33/134

Pacific Northwest. Pat N9RV/7 in Montana enjoyed the polar openings to take the top USA spot. Viesturs YL2SM was the high European scorer just a few points ahead of Siggf TF3CW.

Twenty meters is always a challenging band. There were openings around the clock, and at times it seemed like the entire contesting world was packed in shoulder to shoulder. The WW8OH soapbox comments referred to it as a “beautiful layered tapestry of signals, one on top of the other.” The top score was by Gia 4L4WW operating with the call 4L0A. Pavel RK4FD operated from RT4F to finish second and have the top European score. Lucas LU1FAM tried something a little different and finished third from Argentina, a long way from the high population centers of Europe and North America. Dan W7WA is a regular on 20 meters and was able to take fourth.

Forty meters SSB is a mosh pit of signals between 7.125 and 7.200. With the loud multi-operator stations stacked top to bottom, it takes commitment and a good ears for a single operator to compete. In a rare event, the World top score went to a station in the USA—W4AAA operated by John KK9A: “Conditions were fantastic. At one point during the night 40m was open in all directions. I was running Europe an hour after their sunrise and at the same time I had stations in Japan, Australia, and South America calling me.” Second place was Arthur 4X4DZ operating with the call 4X2M. Ivanko YU7GM operated as YT7A to earn third place and the top European score.

Seventy-five meters was an interesting battle between experienced veterans and enthusiastic newcomers. The winner was Mauri OH2BYS operating from EF8S with an impressive setup of two radios, two wire Yagis, and three Beverage antennas for receiving. “I had many difficulties to copy weak stations because of the statics due to the rain.” Second place went to Pedro, NP4A, operating from his mountaintop location in Puerto Rico. Pedro reported, “The only antennas I have are a pair of 160 meter dipoles feed with 600 ohms open line ... and five Beverage antennas that let me hear very well on that band.” He logged the contest on paper and then had to type

in the log over the following days. Patrick, KK6ZM, joined a family operation in Montserrat and talked his father and uncles into letting him try 75 meters. He made a very impressive score as VP2MXA. The top European score was by David OK1DTP operating OK5D.

Top band saw a spirited competition as well. Ondra OK1CDJ operated from the OL7M location to achieve the winning score. With IZ4DPV away at D4C, rookie operator Giammarco IZ4ZAW borrowed the station and used the call IO4C to put up a fine second-place effort. Peter VE3PN took top honors in North America. Ronald W2VO was the top USA. Honorable mention must go to Eddie LU2DKT, who perseveres on the band despite being far away and in the middle of Summer QRN.

Check out the close three-way battle for Single Operator Assisted Low Power on 10 meters. PY1NX, EE8T, and LW0F all were within just a few points of each other. 9Y4D had a dominating score on 20 meters for low power assisted.

QRP

To overcome their frustration of dealing with poor propagation, contesters in northern W9 and W0 have taken to calling their part of the world the “black hole” because signals do not seem to escape. Given this history, it is quite remarkable that the World high score for the Single Operator All Band QRP category came from ND0C in Minnesota! At nearly 1000 QSOs and 103 different countries worked, Randy showed both skill and perseverance: “This score is a personal best for me, surpassing 2011. This was all S&P... I tried running a few times on 10, but just couldn’t get anything going. I had 4 hours on Saturday morning and early afternoon when I averaged over 60 QSOs per hour with S&P—pretty good for QRP!” And what is the ND0C superstation? A Yaesu FT-897D running 5 watts to a Cycle 24 TX38 tribander at 40 feet above ground, a Cushcraft D40 rotatable dipole, and an inverted Vee.

Another outstanding QRP score was achieved by Didier FY5FY operating from the FY5KE station. He used the new 5-element Yagi to almost double the existing world record for 20 meters. Yoshirou JH7RTQ had the next highest QRP single band score up on 10 meters.

Multi-Operator

The **Multi-Operator Single-Transmitter** category has become the battleground for sophisticated technical and operating strategies among the top teams. A new entry, CN2AA, staffed by operators from Russia and Kaliningrad (UA2) took the top score with a new World record. They used multiple interlocked stations on the run band to maximize contacts and multipliers. You can learn more about them at www.cn2aa.com. Very close behind in second place was the Madeira Contest Team of CR3A. This team achieved their fantastic result with only two radios—one for the run station and one for the multiplier station. On the island of Cyprus, it was a race between two Russian teams with P33W finishing ahead of P3N. EI7M had the best European score just a few points short of setting a new record.

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR2X	178/14/44	434/24/85	969/28/94	1961/36/113	2509/36/121	3060/36/116
OH8X	146/11/47	346/19/71	621/29/83	2177/32/105	1841/37/109	1455/34/102
UU7J	258/12/53	574/16/64	999/29/96	1159/36/106	1126/32/92	1873/32/98
HABJV	266/9/52	494/13/59	870/26/85	1061/32/97	819/34/98	1605/38/101
EU1A	14/4/14	412/13/54	761/29/89	694/24/82	1203/34/102	1614/40/131

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

EC2DX	49/9/44	80/17/68	564/33/104	1155/33/106	1017/37/111	1789/40/125
DJ8OG	153/10/53	268/17/74	439/33/99	598/38/120	776/39/111	1437/40/126
IW2HAJ	83/7/42	257/12/61	526/29/93	876/38/114	719/35/112	1559/40/138
ON4IA	68/5/35	356/16/61	348/32/97	763/35/109	1501/38/113	775/37/113
UT7U	98/8/48	305/13/61	666/32/102	715/38/117	1045/36/127	1166/38/124

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

EI7M	125/12/57	579/19/86	1642/37/120	1184/37/140	2310/40/147	3494/40/159
OM8A	235/15/67	521/22/95	1326/38/130	1226/40/155	1793/40/147	2466/39/155
SJ2W	77/13/61	262/23/89	993/37/118	2881/38/148	1910/38/138	1555/40/150
9A1P	120/14/69	679/20/87	1128/35/119	1357/40/149	1593/40/139	2616/40/156
OM7M	270/14/71	221/19/81	1608/38/130	1299/40/149	1606/40/151	1970/40/163

EUROPE MULTI-OPERATOR TWO TRANSMITTER

TM6M	211/12/52	748/20/82	1376/34/111	2627/40/149	3682/38/145	2725/40/153
RU1A	149/8/52	957/25/101	1661/38/126	2494/40/146	2501/40/139	1881/39/135
OL4A	276/13/60	954/20/89	1578/31/114	1871/39/147	1814/39/140	2342/40/149
SK3W	243/10/53	901/22/93	774/37/110	2299/39/146	2373/38/141	1601/40/146
HG7T	216/10/48	956/21/83	1549/38/126	1533/39/134	1967/40/140	2088/40/148

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

ES9C	1218/21/85	1826/28/102	3266/39/137	4891/40/165	4905/40/161	3118/40/164
DR1A	897/16/74	1777/25/98	3134/39/135	3844/40/163	2987/40/154	3314/40/161
II9P	562/13/66	1176/25/93	2065/33/113	4105/39/148	2983/39/150	3238/40/156
OT5A	778/12/60	1798/16/82	2579/33/114	2914/38/149	2169/39/137	2041/39/139
LZ9W	384/10/56	1728/25/98	2606/37/128	3466/40/158	2377/37/133	1777/39/138



Rich N0HJZ (left) and George KQ8Z had fun and enjoyed the pileups as C6ARW and C6AZZ.

The top USA score for Multi-Single was NN3W operating from the N3HBX station. This was a last-minute effort when Rich realized he couldn't do a single op. He pulled together a team of part-time operators who managed to achieve the victory. Not far behind was the experienced multi-single team of K8AZ in Ohio.

The **Multi-Operator Two-Transmitter** category had four continents represented in the top four scores. The Italian lead team of CN3A broke their African scoring record set in 2010 on the way to a substantial margin of victory. Second place went to the big station in Kazakhstan, UPØL. They had a fantastic signal on every band. Third place went to team KC1XX, who was engaged in a fierce rivalry with the ops at K1LZ. Both beat the USA record, but it is KC1XX that gets bragging rights for the coming year. The French team at TM6M took the top European score over RU1A.

It was truly a battle of the titans for the **Multi-Operator Multi-Transmitter** category. The D4C team on Cape Verde put in a tremendous amount of work preparing for the contest with one goal in mind – breaking the CN8WW record from 2000. They made multiple trips to the island, dealt with heavy rain and wind storms, created a promotional video on YouTube (search D4C), and did all they could to be ready. Unfortunately for them, the same propagation that made contacts between the USA and Europe so easy, took away some of the big QSO hours they were depending on for the record. The result is still a fantastic score—fourth highest of all time—but not what the team was hoping for.

Second place went to the always improving Jumanji Contest Station HK1NA with a strong effort and strong signals on all bands. The surprise result of the competition was the third-place score by ES9C operating from ES5TV in Estonia. The team took full advantage of the polar paths into the USA and Japan to put up incredible QSO totals on the high bands. Perhaps the 70-meter-high tower with a 4-high H-frame of stacked 5-element Yagis on 15 meters also helped! From Tonno ES5TV: "We never even dreamed about such score. This one goes down in history. Weekend of a lifetime for sure." The second-place DR1A team in southern Germany could only listen in frustration as the openings did not happen for them. K3LR set a new USA record in winning the USA for the ninth consecutive year!

Overlay Categories

There were two new overlay categories added to the CQ WW DX SSB Contest this year. An Overlay category is like a separate contest within a contest. Each entrant has their traditional category score and then a separate score for the Overlay category. The Overlay scores are listed separately in the score results for the CQ WW in either high-power or low-power classifications <www.cqww.com> and the expanded results at <www.cq-amateur-radio.com>.

The Rookie Overlay category is reserved for single operators who have been licensed for less than three years at the time of the

CQ WW SSB 2013 on the Web

Here are a few of the videos that have been posted following the 2013 CQ WW DX SSB Contest. It always fun to see the people, places, and activities behind the call signs we hear over the air.

XQ7UP: http://www.youtube.com/watch?v=SqN_60NSdbg
C6ARW pileup: <http://www.youtube.com/watch?v=AVmneoOgzQE>
F5TRO @ TM1T: <http://www.youtube.com/watch?v=x51VVQ5-VJU>
PJ2T: <http://www.youtube.com/watch?v=aDs-2jZ-FSw>
D4C: <http://www.youtube.com/watch?v=zgtBfYj0mjs>
ED5T: <http://www.youtube.com/watch?v=bW9SjIKGdWc>
9K2HN: <http://www.youtube.com/watch?v=MAGiimYAmao>
J47X (op SV7BVM): <http://www.youtube.com/watch?v=Smf4llhYYDs>
YP10KQT: <http://www.youtube.com/watch?v=FwrZvbNFPQQ>
E11A: http://www.youtube.com/watch?v=_GkXFV-e7EM
XR6T: <http://www.youtube.com/watch?v=bCRg5LwxGBI>
SP2MKT: <http://www.youtube.com/watch?v=yIf2GZYWL-M>
EF7K: <http://www.youtube.com/watch?v=seGISa-VQ0c>
3V7A: <http://www.youtube.com/watch?v=KM8GOUTX150>
ES5TV: <http://www.youtube.com/watch?v=Z9fDlBfHmFs>

contest. They not only get to compete directly with their peers, but we get to see who the up-and-coming operators of the future may be. The top high-power Rookie entrants were Tom 9A6TKS and Kevin KE4CQ. The top low-power Rookie scores came from Jan OH6ECM and Halina SQ6PLH. We were very pleased to have 256 entries in the first year of the new Rookie category.

The Classic Overlay category was created to remind us of a simpler time in radio contesting, back when an operator would use one radio and his own skills to find DX and build his score. This category does not permit use of the DX Cluster or other assistance. As an added challenge, the Classic Overlay score is based on the first 24 hours of operating time. This gives operators who are unable to dedicate the full weekend a place to compete with each other. The winner of the high-power Classic category was Yuri VE3DZ operating from VE2IM. He operated 45 hours for his traditional category score, but counted only the first 24 hours for the Overlay. Marko ZD8O did the same to finish second. Randy K5ZD/1 operated 27 hours and counted the first 24 to take the top USA score. On the low-power side, Mike OE6MBG operated exactly 24 hours from OE6Z to achieve the top score. MD2C did the same to finish second. The top USA score, and third overall, was Jim K9JF/7. We received 795 logs in the Classic category and a number of very positive comments. We look forward to seeing what winning strategies will emerge in the coming years.

Final Thoughts

The main complaint after the contest was the number of stations that would not sign their call sign after each QSO. Sometimes even after many QSOs! To the runners, this is a tool for managing the pileup and saving time. For the listeners, it is frustrating not knowing how long it will be and whether they should wait or keep tuning. Do we need to create a new rule to balance out the interests of both sides?

One area where complaints were lower this year was with signal quality. A new rule was added for 2013 stating that poor signal quality was unsportsmanlike and possible grounds for disqualification. We believe the new rule had the desired impact and we were pleased that no one was bad enough to need

more than a warning. That said, it is important for the big-gun stations to realize that poor signals cause the smaller stations to give up in frustration. That doesn't make the contest better for anyone. Please take some time before the contest and have a local listen to your audio and signal width.

There is a team of people behind the CQ WW Contest. You can see the full list on the cqww.com website. There is a working group that helps you submit your logs and cleans up any formatting or other errors that prevent the logs from being checked correctly. We had help from volunteers to type in the 77 paper logs so they could be included in the checking. Another group works on investigating those logs where we suspect there may be a rules violation. Special thanks to Ken K1EA for all of his time and effort to constantly improve the log-checking software. John K1AR handles the plaque program, and Barry W5GN makes sure the 2,102 certificates will get into the mail.

We continued our use of Software Defined Radios (SDR) to record the full contest bands to disk. This allows us to go back and "replay" the contest when we have a question about what we see in the log. Steve N8BJQ led the SDR team, which included WZ7I, KH6LC, N4ZR, K8ND, OH6BG, OH6LI, S55OO, S50XX, HA1AG, and ES5PC.

Compliance with the new 5-day log deadline increased to 92% of all entries. Having the logs early enabled us to immediately begin the checking process and get the results out earlier than ever before! We still accept late logs, but they are not eligible to win any awards or appear in the top-score boxes. Late logs are shown in italics in the line scores.

We look forward to seeing everyone again for the CQ WW DX SSB Contest on October 25–26, 2014. Full rules, records, line scores, and other information is available on the web at <www.cqww.com>.

73, Randy, K5ZD

CQ WW Station Scores Online

This year's CQ WW results complete CQ magazine's year-long transition to publishing individual station scores ("line scores") on CQ's website only. To access the line scores go to the CQ home page at <www.cq-amateur-radio.com> and click on the link under the current issue highlights.—W2VU