

# Results of the 2016 CQWW WPX SSB Contest

BY TERRY ZIVNEY\*, N4TZ

***The generally declining propagation, coupled with the contest again falling on Easter weekend, led to fewer logs received this year. Still, with over 5,300 logs received, it's hard to complain about interest in the contest.***

Photo A. Jose, WP4PGY, wins the World Rookie plaque. →



Photo B. WP4PGY used this 5-element, 5-band, 50-foot boom quad antenna to post the highest Rookie score in the world. ↓



**Y**ou gotta go with the flow, Joe. Sometimes plans don't work out but when you adapt to the situation, you can still make things happen. For example, Ben, N3UM, was planning to do a two-man Multi-Two from K3CCR, the club station at the Collington continuing-care retirement community in Maryland, but his teammate was busy so he operated Single-Operator High-Power and won a certificate for the W3 call area with his laid-back effort in the Tribander-Single Element overlay category. If you would like to know a little more about the station, visit the QRZ page at <[www.qrz.com/lookup/k3ccr](http://www.qrz.com/lookup/k3ccr)>.

The generally declining propagation, coupled with the contest again falling on Easter weekend, led to fewer logs received this year. Still, with over 5,300 logs received, it's hard to complain about interest in the contest. Indeed, we received a record number of logs from Asia and Oceania, with impressive numbers of entries received from Japan, China, and Indonesia.

You can find out how you and your competitors did by checking out the complete line scores in the back of this issue and at <[www.cqwpw.com](http://www.cqwpw.com)> where the line scores are accompanied by a searchable database of scores for all past CQ WPX contests. You will also find public logs from all the competitors to help you identify missed opportunities.

Here's a rundown of this year's top finishers:

## Single-Operator All Band

Tom, W2SC, made it a three-peat from his 8P5A station. Andy, AE6Y, at his P49Y QTH, held on to beat Didier, FY5FY for the runner-up position. Krassy, K1LZ, again won the U.S., this time edging out many-time champion Bob, KQ2M/1. Stephane, F4DXW, used the TM6M alias to beat out last year's European champ, Davor, 9A1UN, who also sported the special callsign 9A77A. A couple of senior citizens made the top ten U.S. list: Fred, K3ZO, and Paul, N4PN, who borrowed the WQ6SL/4 callsign.

## Single-Operator Single Band

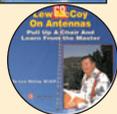
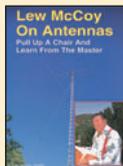
Last year, there were big scores from all continents on 10 meters. This year, the top nine scores were from South America, with CX2DK at the top. P45A ran away from the competition to capture the 15-meter plaque, with the highest score on any single band. The rest of the single-band winners oper-

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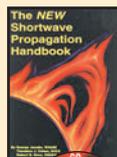
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## 2016 CQWW WPX SSB TROPHY WINNERS AND DONORS

### SINGLE OPERATOR ALL BAND

WORLD: Stanley Cohen, W8QDQ Trophy. Won by: **8P5A** operated by Tom Georgens, W2SC  
WORLD Low Power: Caribbean Contesting Consortium Trophy. Won by: **WP2Z** operated by Fred Kleber, K9VV  
WORLD QRP: Phil Krichbaum, NØKE Trophy. Won by: **Tomislav Kunst, 9A7JZC**

USA: Atilano de Oms, PY5EG Trophy. Won by: **Krassimir Petkov, K1LZ**

USA Low Power: Terry Zivney, N4TZ Trophy. Won by: **WW2Y** operated by Andy Blank, N2NT

USA QRP: Doug Zwiebel, KR2Q Trophy. Won by: **Russyll Barnette, AB3WS**

USA Zone 3 High Power: Lauri "Mac" McCreary, KG7C Trophy. Won by: **Gregory Glenn, NR6Q**

USA Zone 3 Low Power: Buz Reeves, K2GL Memorial Trophy. Won by: **NF6A** operated by Bob Wolbert, K6XX

USA Zone 4 High Power: Society of Midwest Contesters Trophy. Won by: **George A. DeMontrond III, NR5M**

USA Zone 4 Low Power: Society of Midwest Contesters Trophy. Won by: **KN5A** operated by Bob Evans, K5WA

USA Zone 5 High Power: Charles Wooten, NF4A Trophy. Awarded to: **Robert Shohet, KQ2M/1\***

EUROPE High Power: Dave Siddall, K3ZJ Trophy. Won by: **TM6M**, operated by Stephane Van Langhenhoven, F4DXW

EUROPE Low Power: Ed Sawyer, N1UR Trophy. Won by: **OK7Z**, operated by Karel Odehnal, OK2Z1

AFRICA: Peter Sprengel, PY5CC Trophy. Won by: **3V8SS**, operated by Ashraf Chaabane, KF3EYY

ASIA: Chris Terkla, N1XS Trophy. Won by: **4LØA**, operated by Andy Kotovsky, RW7K

NORTH AMERICA: Albert Crespo, F5VHJ Trophy. Awarded to: **FG4KH** operated by Philippe Levron, F1DUZ\*

NORTH AMERICA Low Power: Ed Sawyer, N1UR Trophy. Awarded to: **V43Z** operated by Felipe J. Hernandez, NP4Z

NORTH AMERICA QRP: Phil Krichbaum, NØKE Trophy. Won by: **Jose Osuba, WP4DT**

OCEANIA High Power: Phillip Frazier, K6ZM Memorial Trophy. Won by: **ZM4T**, operated by Holger Hannemann, ZL3IO

OCEANIA Low Power: YB Land DX Club Trophy. Won by: **Yohanes Budhiono, YB2DX**

SOUTH AMERICA: Andrew Faber, AE6Y Trophy. Won by: **P49Y**, operated by Andrew Faber, AE6Y

SOUTHERN CONE (CE, CX, LU) Low Power: LU Contest Group Trophy. Won by: **CW5W** operated by Jorge Diez, CX6VX

CANADA High Power: Saskatchewan Contest Club Trophy. Won by: **VY2ZM**, operated by Jeffrey T. Briggs, K1ZM  
CANADA Low Power: Paul Cassel, VE3SY Memorial Trophy by Contest Club Ontario. Won by: **Yuri Onipko, VE3DZ**

JAPAN: Hamad Alnusif, 9K2HN Trophy. Won by: **Masaki Okano, JH4UYB**

ASEAN (3W, 9M, 9V, DU, HS, V85, XU, XW, XZ, YB) High Power: Karsono Suyanto, YBØNDT Trophy. Won by: **XW11C**, operated by Champ Muangamphun, E21E1C

ASEAN (3W, 9M, 9V, DU, HS, V85, XU, XW, XZ, YB) Low Power: YB Land DX Club Trophy. Awarded to: **Vector Aliendry, YB5BOY**

### SINGLE OPERATOR, SINGLE BAND

WORLD: Steve Merchant, K6AW Trophy. Won by: **Jean-Pierre Lauwereys, P45A (21 MHz)**

WORLD 28 MHz: Mamuka Kordzakhia, 4L2M Trophy. Won by: **Marcelo Egues, CX2DK**

WORLD 28 MHz Low Power: Six Stars Contest Station LS1D Trophy. Won by: **Javier Capdebilla Alvarado, CA7CAQ**

WORLD 21 MHz: Stuart Santelmann KC1F Memorial (Gene Shablygin, W3UA/RA3AA sponsor) Trophy. Awarded to: **TM1W** operated by Marc Sentuc, F1HAR

WORLD 14 MHz: Lynn Schriener, W5FO Memorial by N5RZ Trophy. Won by: **SJ2W** operated by Mikael Larsmark, SM2WVW

WORLD 7 MHz Low Power: Neal Campbell, K3NC Trophy. Won by: **Mladen Bogdanov, YT6W**

WORLD 1.8 MHz: UA2 Contest Club Trophy. Won by: **Algirdas Uzdonas, LY7M**

USA 28 MHz: Maurice Schietecatte, N4LZ Trophy. Won by: **Ralf Hucce, WE6EZ5**

USA 21 MHz: Maurice Schietecatte, N4LZ Trophy. Won by: **Peter Bizlewicz, KU2M**

USA 14 MHz: Charles Wooten, NF4A Trophy. Won by: **WR8AA** operated by David Siddall, K3ZJ

USA 7 MHz: Yankee Clipper Contest Club Trophy. Won by: **John Bayne, KK9A/4**

USA 3.7 MHz: Bernie Welch, W8IMZ Memorial Trophy. Won by: **Karl Brandt, ND8DX**

ated in Europe: **SJ2W (20)**, **HG8R (40)**, **OK7K (80)**, and **LY7M (160)**.

## Single-Operator Low Power

By far, the most popular category continues to be single-operator unassisted low-power all-band. Fred, K9VV, used WP2Z to edge out Felipe, NP4Z, who traveled to V43Z. The top five low-power scores came from North America. WW2Y (N2NT) let his amplifiers take the weekend off and took the low-power U.S. record away from N1UR, who has moved on to the high-power category. As was the case in the high-power categories, stations to the south dominated the 10- and 15-meter bands, while European stations dominated the rest of the low-power, single-band standings.

## Single-Operator Assisted

There were 1,773 single operators who reported using assistance during the contest. Worldwide, E7DX (E77DX, op) edged out PX5E (PP5JR, op), while



Photo C. Tucker, W4FS, wins the U.S. Rookie plaque.

EUROPE: 28 MHz: Chuck Dietz, W5PR Trophy. Won by: **Alfonso Sanchez Sanchez, EA3FZY**  
EUROPE 14 MHz: SJ2W Contest Team Trophy. Awarded to: **E17M operated by Dmitriy Pavlov, E13JZ\***  
EUROPE 3.7 MHz: Ranko Boca, 4O3A Trophy. Awarded to: **Jordi Casali Portet EA3PT**

#### SINGLE OPERATOR ASSISTED

WORLD: D4C Contest Team Trophy. Won by: **E7DX operated by Emir Braco Memic, E77DX**  
WORLD QRP: Explorers Radio Club Trophy. Won by: **Fabio Menna, IZ8JFL/1**  
USA: Alabama Contest Group Trophy. Won by: **WU3A/1 operated by Gene Shablygin, W3UA**  
EUROPE: Martin Huml, OL5Y Trophy. Awarded to: **Pavel Bogachev, RK4FD**  
OCEANIA: Sid Caesar, NH7C Trophy. Won by: **Bill Main, VK4ZD**

#### OVERLAY CATEGORIES

WORLD Tribander/Single-Element: Nate Moreschi, N4YDU Trophy. Won by: **Steve Telenius-Lowe, PJ4DX**  
USA Tribander/Single-Element: Paul H. Newberry, Jr., N4PN Trophy. Won by: **WQ6SL/4 operated by Paul H. Newberry, Jr., N4PN**  
USA Tribander/Single-Element Low Power: Alex M. Josza, KG1E Trophy. Won by: **Doug Friend, WB8TLI**  
EUROPE Tribander/Single-Element: Roger Miner, K1DQV Trophy. Won by: **EW5Z operated by Sergey Babakhin, EU1A**  
WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **Jose Cano, WP4PGY**  
USA Rookie: Joe Cazzalino, WX4CAZ Trophy. Won by: **NN2DX operated by Tucker McGuire, W4FS**

#### MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Latvian Contest Club Trophy. Won by: **P33W operated by LZ2HM, 5B4AIE, R4FO, UA4FER, RW4WR, and RA3AUU**  
WORLD Low Power: Mike Goode, N9NS Memorial (Hoosier DX and Contest Club sponsor) Trophy. Won by: **YV1KK operated by YV1CTE, YV1JGT, YV1KK, YV1YLY, and YV1ALE**  
USA: Steve Bolia, N8BJQ Trophy. Won by: **KE3X operated by AJ3M, KD4D KE3X, N3HBX, N3QE, and W3IDT**  
USA Low Power: Matt Tatro, NM1C Trophy. Won by: **KB3WD operated by KB3WD and NZ3D**  
AFRICA: Rhein Ruhr DX Association Trophy. Won by: **CQ9T operated by CR9ABH, CS9ABC, CS9ABE, and CT3KN**  
ASIA: W2MIG Memorial (NX7TT Sponsor) Trophy. Awarded to: **UP2L operated by R9IR, R9HBA, RM9I, UN7LZ, and UN9LG \***  
EUROPE: Tonno Vahk, ES5TV Trophy. Won by: **IR4M operated by I4EWH, I4FYF, I4IFL, IK4DCW, IK4HVR, IK4MGP, IZ4JUK, IZ4ZZB, and IZ5TH**

#### MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: Ken Adams, K5KA Memorial Trophy. Won by: **CN2AA operated by RA3CO, RL3FT, RM2U, RN5M, RX3APM, UA3ASZ and UA4Z**  
USA: Florida Contest Group Trophy. Won by: **NV9L operated by NV9L, AC9IG K9GS, and WB9Z**  
AFRICA: Walter Skudlarek, DJ6QT Trophy. Awarded to: **5E5E operated by OK1RI, OM6NM, OK1FFU, OK1JKT, OK1VVT, EA9LZ, EA7GX, and W7EJ\***  
EUROPE: Rich Strand, KL7RA Memorial Trophy. Won by: **HG7T operated by HA7TM, HA8LLK, HA9PP, HA0DU, HG5DX, and UZ5DX**

#### MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Gail M. Sheehan, K2RED Trophy. Won by: **D41CV operated by DF7ZS, HB9DUR, I4UFH, IZ4DPV, RD1A, RW1F, SQ9CNN, and SQ9DIE**  
USA: Dale Hoppe, K6UA Memorial Trophy. Won by: **WX3B operated by WX3B, WR3R, K1RH, N8IVN, N8II, K3AJ, K3WI, NH7C, KB3LLS, KK4ODQ, N3SB, and ELIZABETH**  
EUROPE: Rick Dougherty, NQ4I Trophy. Won by: **LZ9W operated by LZ1ZD, LZ1PM, LZ2CJ, LZ1KU, LZ2HQ, LZ2UU, LZ1UQ, LZ1ZX, LZ1WDX, LZ3FM, LZ1FG, LZ3UM, LZ1ANA, LZ1BMV, LZ1LG, LZ1PJ, LZ3AS, and VASKO**

#### CONTEST EXPEDITION

WORLD: C6APR Memorial by Andre Coelho, PT7ZZ Trophy. Won by: **FP/KV1J operated by Eric Williams, KV1J**

*\*Denotes awarded to runner-up in category*

WU3A/1 (W3UA, op) was tops in the U.S. A lot of activity took place in the assisted single-band categories as well. LR1E (LW6DG, op) repeated on 10 meters. 4Z7T (4X6TT) handily won on 15, 9Y4D beat RW9USA on 20, US1I (UX2IO) beat S56X by an eyelash on 40, while IY1A (IZ1LBG) nosed out S54ZZ on 80. Assistance in finding stations was especially useful on 160 where SP1FPG was the king of the band.

### Single-Operator QRP

In spite of declining conditions, 257 very low-powered operators sent in logs. 9A7JZC was world-high QRP all bands, beating out DL8LR. AB3WS was the top U.S. finisher. IZ8JFL/1 was the top assisted QRP all-band scorer. QSO finding assistance seemed to add more to the QRP scores than to the top scores of the higher-powered categories.

### Overlay Categories

The Rookie overlay category was established to encourage recently-

licensed hams to try the contest experience. This year, 284 entries checked this overlay category, down slightly from 306 last year. Jose, WP4PGY, operated all-band, high-power to win the World Rookie plaque (*Photos A and B*). W4FS used the remote NN2DX station to lead the U.S. Rookies (*Photo C*). HZ1HZ and EF7D (EA7JXZ, op) were other rookies scoring more than a million points. Laila obtained her late father's callsign (HZ1HZ), in case you were wondering about that familiar call used by a rookie entry!

The Tribander/Single-Element overlay category was intended to provide a measuring tool for average stations. Still, the best operators with good locations for their tribanders can achieve huge scores. There were 808 entrants in this overlay. Steve, PJ4DX, ran away with this category (see sidebar), while VE3DZ dominated the low-power crowd with a score that would have been fifth place among the high-power TBW stations. N4PN showed up with



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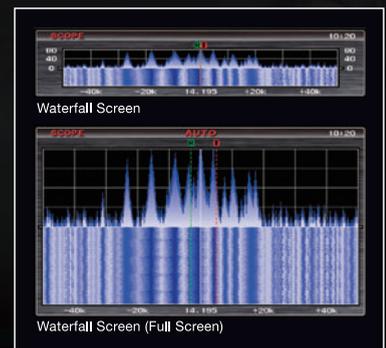
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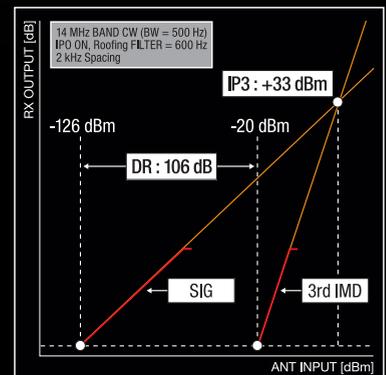
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yet another nice callsign, WQ6SL/1, to lead the U.S. Tribander/Single-Element all band competitors. N4BP, using the WN1GIV callsign on 10 meters, won with less than 10% of his score last year. WB8TLI had the highest U.S. low-power score.

### Multi-Operator

The guys at P33W recaptured the Multi-Operator Single-Transmitter plaque, even though their score dropped substantially with the disappearance of 10 meters. The KE3X crew had the top U.S. M/S score. YV1KK raised the bar in our newest category, Multi-Single Low Power, with KB3WD and HI3K also beating last year's record. KB3WD set the new U.S. low-power mark. A total of 91 stations (up from 76 last year) tried this category, compared to the 133 (down from 184) stations in the more established High-Power category.

Last year's Multi-Multi champs CN2AA led the pack of 41 (66 last year) stations in the Multi-Two category. Only six U.S. stations entered the Multi-Two category, with NV9L beating KI7Y. D41CV blew away the Multi-Multi Category, more than doubling the score of runner-up LZ9W. WX3B led the three U.S. stations entering this category. This contest

marked the last time KL7RA will be heard as Rich passed away and the North Pole Contest Group decided to obtain his call and retire it.

### Records

The only new world record this year was in the relatively new Multi-Single Low Power category, where YV1KK set the mark. Other new records of note were 8P5A (North America AB), K1LZ (USA AB), WW2Y (USA AB-LP), and SJ2W (Europe-14MHz),

Records for all of the various categories and countries can be found at <[www.cqwp.com/records.htm](http://www.cqwp.com/records.htm)>.

### Final Observations

We are glad to be able to once again include the complete listing of stations and their line scores. Assisted stations' line scores are found immediately after the single-operator unassisted line scores for each call area or country. Logs received after the official deadline are shown in italics and were not eligible for any awards. In addition, searchable databases of the entire history of the CQWW WPX Contest results are available on the contest website, <[www.cqwp.com](http://www.cqwp.com)>.



*A Spiderbeam at 30 feet worked wonders for PJ4DX, the winner of the World Tribander/Single-Element plaque.*



*Steve, PJ4DX, at the controls of his station.*

### CQ WPX SSB March 2016 de PJ4DX

Everything was "down" this year. My beam was down about 6 feet (one telescopic mast section) due to strong winds. My 40-meter, phased array was down due to a mysteriously-high SWR condition that I didn't have time to fix before the contest (but every cloud has a silver lining and this allowed me to enter the Tribander/Single Element section). My QSO total was down by nearly 1,300 QSOs compared with 2015, my multiplier total by nearly 100 mults, and my claimed score was down by nearly 6 million points!

Last year I recorded over 2,500 QSOs on 10 meters alone. This year, I only had 314. Conditions were poor on Day 1, and I was seriously considering calling it a contest before midday on Sunday, but suddenly things improved and Sunday afternoon and evening were really great.

Rig: Yaesu FT-2000, Acom 1500-amp at 1-kilowatt output to a Spiderbeam for 10, 15, 20 meters at only 30 feet above ground, and single quarter-wave wire verticals on 40 and 80 meters mounted on fiberglass poles.

*– 73, Steve, PJ4DX*

There are a number of volunteers who make this contest possible. K5ZD, K3WW, and W4AU provided the skilled personal analysis of the logs that computers alone cannot provide. Software support from K1EA and K5TR enables the timely processing of your logs. Doug, K1DG, handles the plaques in a very timely manner. Paper logs were manually entered by KD9MS, KC9EOQ, W7KAM, K9ZM, KB9OWD, and N4TZ. K5ZD has updated the outstanding CQ WPX website.

The 2017 CQWW WPX SSB Contest will be held **March 25-26**. The log deadline is **five days** after the conclusion on the contest, **March 31 at 2359Z**. Updated rules will be published in the January issue of CQ and will be posted on the websites mentioned above.

(Scores on page 98)

### CQWW WPX SSB CONTEST ALL-TIME RECORDS

The contest is held each year on the last full weekend of March. The All-Time Records will be updated and published annually. Data following the calls: year of operation, total score, and number of prefix multipliers.

WORLD RECORD HOLDERS Single Operator			U.S.A. RECORD HOLDERS Single Operator		
1.8	CN2R ('07)	1,613,955 399	1.8	K1ZM ('95)	327,712 308
3.5	CN2R ('06)	11,849,076 894	3.5	K1UO ('10)	2,161,782 602
7.0	CN2R ('05)	14,724,696 931	7.0	WU3A/1 ('11)	4,731,424 796
14	CN2R ('08)	15,778,840 1199	14	KQ2M ('09)	7,034,082 1082
21	CN2R ('11)	20,704,164 1443	21	KQ2M/1 ('11)	9,591,670 1210
28	D4C ('14)	17,885,556 1404	28	KQ2M/1 ('14)	8,264,263 1141
AB	CN2R ('13)	30,683,396 1433	AB	K1LZ ('16)	15,981,756 1281
LP	FY5FY ('15)	17,380,143 1251	LP	WW2Y ('16)	8,047,572 1027
QRP	HC8A ('94)	7,520,562 714	QRP	KR2Q ('00)	2,688,158 649
Assisted	CQ3L ('15)	23,505,780 1388	Assisted	K11G ('11)	13,075,616 1268

Multi-Operator Single Transmitter			Multi-Operator Single Transmitter		
CN2AA ('14)	52,766,482	1759	WW2DX ('12)	19,167,080	1373
Multi-Operator Two Transmitter			Multi-Operator Two Transmitter		
D4C ('15)	86,622,448	1936	K1LZ ('10)	30,393,480	1560
Multi-Operator Multi-Transmitter			Multi-Operator Multi-Transmitter		
CN2AA ('15)	121,620,720	2040	NQ4I ('14)	31,335,980	1690

CLUB RECORD		QRP RECORD		WPX (Prefix) RECORD	
Contest Club Finland ('00)	250,320,141	HC8A ('94)	7,520,562	ES9C ('14)	2057

### CONTINENTAL RECORD HOLDERS

AFRICA			SOUTH AMERICA		
1.8	CN2R ('07)	1,613,955 399	14	KH6ND ('03)	6,493,727 887
3.5	CN2R ('06)	11,849,076 894	21	AH7DX ('00)	7,645,990 890
7.0	CN2R ('05)	14,724,696 931	28	TX0DX ('00)	12,049,422 847
14	CN2R ('08)	15,778,840 1199	AB	KH7X ('11)	20,676,524 1244
21	CN2R ('11)	20,704,164 1443	1.8	HK1KYR ('10)	44,814 77
28	D4C ('14)	17,885,556 1404	3.5	P40A ('96)	1,715,076 426
AB	CN2R ('13)	30,683,396 1443	7.0	HK1T ('12)	14,512,230 1062

ASIA			EUROPE		
1.8	*YM0T ('05)	486,846 222	1.8	SN3R ('07)	835,884 434
3.5	H2T ('10)	3,067,296 534	3.5	EI7M ('10)	3,527,075 731
7.0	5B/KC2TIZ ('10)	6,761,872 754	7.0	EI7M ('11)	10,787,690 1054
14	P33W ('10)	8,004,130 1030	14	SJ2W ('16)	10,553,158 1309
21	4L8A ('15)	7,816,419 1053	21	CR6T ('14)	10,338,560 1312
28	H22H ('00)	9,092,146 931	28	GM7V ('00)	8,305,756 982
AB	UP0L ('12)	18,541,055 1235	AB	CQ8X ('14)	20,759,765 1385

NORTH AMERICA			MULTI-OPERATOR SINGLE TRANSMITTER		
1.8	VA1A ('99)	535,225 271	AF	D4C ('15)	86,622,448 1936
3.5	ZF1A ('08)	2,269,344 462	AS	P33W ('14)	43,457,520 1720
7.0	Ti4CF ('05)	8,057,479 751	EU	EI7M ('14)	31,158,736 1648
14	KP2A ('95)	7,088,976 912	NA	VP2EC ('92)	24,409,580 1115
21	VP2EH ('11)	14,899,185 1305	OC	KH7X ('12)	19,038,120 1180
28	KP2A ('00)	11,385,710 1046	SA	HC8A ('93)	32,502,677 1107
AB	8P5A ('16)	27,306,666 1422	AF	EB8AH ('11)	68,072,520 1765

OCEANIA			MULTI-OPERATOR TWO TRANSMITTER		
1.8	KH6ND ('07)	26,432 59	AF	UP2L ('14)	46,044,068 1748
3.5	WH7Z ('03)	1,208,900 308	EU	OL4A ('14)	36,280,074 1774
7.0	ZL3A ('08)	8,200,800 816	NA	WP2Z ('14)	34,886,363 1607

MULTI-OPERATOR MULTI-TRANSMITTER		
AF	CN2AA ('15)	121,620,720 2040
AS	P3A ('00)	53,554,592 1456
EU	ES9C ('14)	73,120,179 205
NA	KL7RA ('14)	42,051,076 1763
OC	KH7R ('02)	32,806,032 1304
SA	HK1NA ('13)	65,361,128 1687

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3CX1200D7	4CX10000A	845
3CX1200Z7	4CX15000A	6146B
3CX1500A7	4CX20000B	3-500ZG
3CX3000A7	4CX20000C	3-1000Z
3CX6000A7	4CX20000D	4-400A
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