Contesting 201: Making and Keeping your Score

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Purpose of this Session



Discuss factors important to creating winning scores

Discuss how to avoid score reductions

Use CQWW Contest as real-world example





Choose the Game

- Select category
 - All band or single band?
 - Power High, low, QRP?
 - Assisted or unassisted?

- Set a goal
 - Have fun?
 - Win a certificate?
 - Set a record?

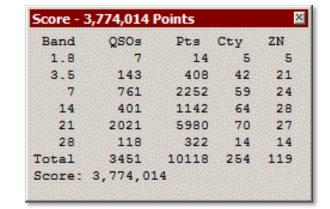




Understand Scoring

- Points for each QSO?
 - Per mode?
 - Per continent?
 - By band?
- What is a multiplier?
 - Section? Zone? Country? Prefix?

 Constantly evaluate what you are doing against the final score







Example - ARRL Sweepstakes



- You have 1000 QSOs x 80 sec
 - = 160,000 points
- Which is more valuable?
 - 1 more section or 10 contacts?

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1001 x 81 sections = 162,162 points 1010 QSOs x 80 sec = 161,600 points
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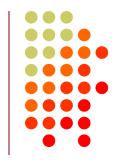
It takes 14 contacts to equal that new section!

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@60 QSOs/hour - 14 minutes
@30 QSOs/hour - 28 minutes
```





Example – CQ WW



- You have 1000 QSOs, 100 Zones, 250 countries ~ 980,000 points
- Which is more valuable?
 - Getting the 40th zone on 20 meters?
 - Working 10 more contacts?

```
1001 x 352 = 986,586 points
1010 x 350 = 989,800 points
Each mult is only worth 2.8 QSOs!
```

@60 QSOs/hour - 4 minutes
@30 QSOs/hour - 7 minutes





Tips



- Calculate trade offs based on expected <u>final</u> score!
- Short cut method

•
$$Mult\ value = \frac{QSOs}{Mults}$$

•
$$Time\ value = \frac{QSOs}{Mults} * \frac{60}{Rate}$$
 The higher the rate...
The less time you can spend!

 Your logging software can display this calculation for you – use it!

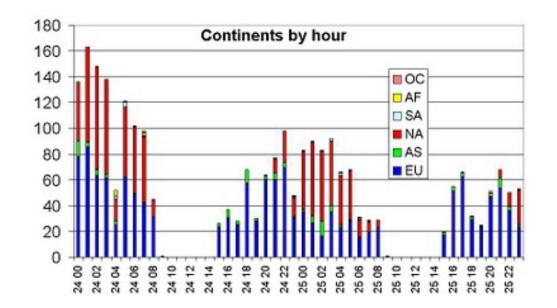




Log Analysis



- Study past results and logs
 - Do the winners focus on QSOs or multipliers?
 - Where do the QSOs come from?
 - Do activity patterns repeat?

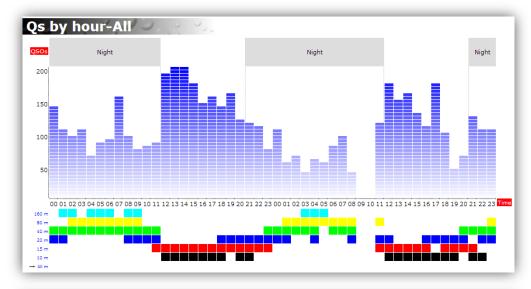






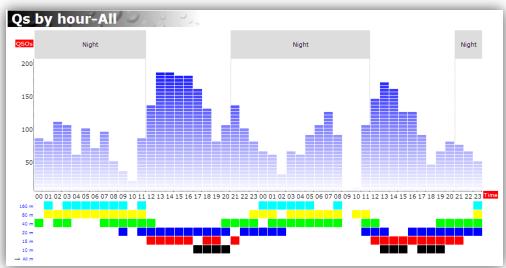
Activity Patterns Repeat

K5ZD/1 WW CW 2013



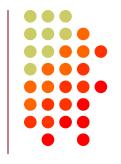
K5ZD/1 WW CW 2006







Make a Plan



- CQWW and WPX logs are open...what did your closest peer do differently?
 - Where do the QSOs come from?
 - Do activity patterns repeat?
 - What hours to be on the air?
 - Expected opening times for each band
 - When to "run" and when to "search"





Make Good QSOs



- Know who you are calling
 - NEVER NEVER TRUST CLUSTER SPOTS!
- Know who is calling you!
 - Does the prefix make sense for the situation?
- Ask for repeats if you are not sure

ERRORS REDUCE YOUR SCORE!!!!





Cost of Errors



- Many contests have a penalty for errors
 - Loss of QSO
 - Loss of QSO + 1x, 2x, or 3x penalty
- Errors happen
- Focus on yours and how to prevent them
- Post contest "log washing" is not an acceptable practice





Improve your Vocabulary



- English has 180,000 words
 - Average person uses 10,000 12,000 words
 - College educated uses 15,000 20,000 words

- CQ WW SSB 2013 logs had 108,210 calls
- 60,991 only appeared in only one log
 - Experience says >95% of these are errors
- 18,343 appeared in 20 or more logs
 - You should "know" 5,000 10,000 calls





Common Busts



SSB

- V and W
- E and I
- G and J
- WW SSB Most Busted
 - HA3ØS
 - B9/BY9GA
 - DFØHQ
 - TC9ØA
 - ES9C

CW

- I, S, H, 5
- V and 4
- B and 6
- WW CW Most Busted
 - JS3CTQ
 - ES9C
 - HF9Q
 - V47T
 - HA3ØS





Which of these calls are bad?



C73NL	FY5KE	LY7A	RG8U
CD6416	GT8IOM	OB9DCM	TM6M
E2E	1B1B	M5O	W0ASH
EY8MM	HI3TIJ	P3W	YU15OTC





BIC – Butt in Chair



 No other single thing will help you more to improve your scores

 It only works if you spend your time working people







BIC Strategy



- Plan your life to meet your contest goal
 - Work, family, food, rest, station repairs

- Part time?
 - BIC for the best rate or at different times each day

Have a goal!





Sleep Facts



You can not train for lack of sleep

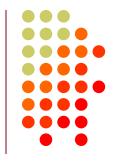
You can not store sleep

 Under sleep deprivation, highly practiced skills will deteriorate more slowly than those which require new or creative thought





Contest Sleep Strategy



- Preparation
 - Have good physical fitness
 - Stay on your normal sleep schedule
 - Get extra sleep 4-7 days before the contest
 - Take 3 hour nap before contest starts

- During the contest
 - Sleep for 90 or 180 minutes
 - Avoid caffeine until needed







Remember your goal!



Fatigue will make you want to quit

A short nap is better than quitting

 Sleep during low rates so you are fresh during the high rate periods





Keep Pushing



- Use time wisely
 - The clock never stops
- The next QSO could make the difference!
 - Pay attention to accuracy
- Everyone is experiencing the same conditions!
 - Don't get frustrated









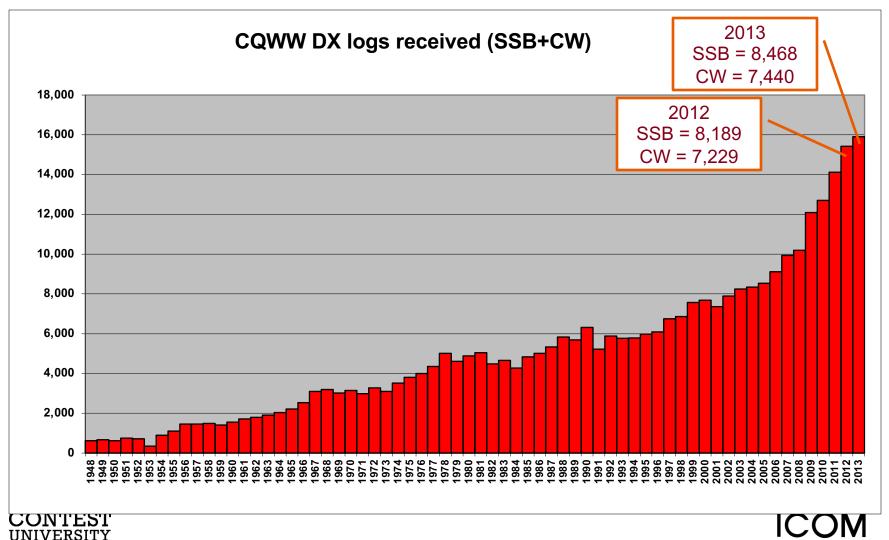
CQ WW DX Contest





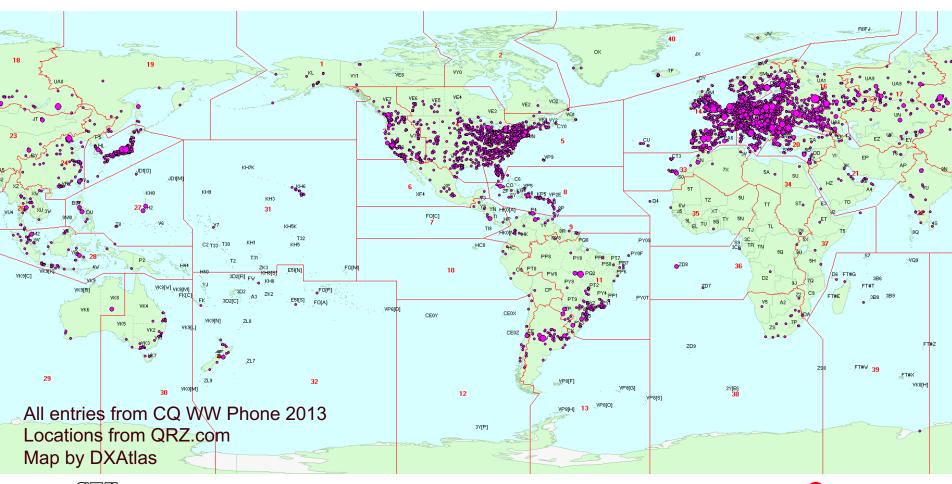
CQ WW is the Big One!





Entries - CQ WW Phone 2013









Entry Categories



	1500 W	100 W	5 W
Single Op All Bands	X	Х	Х
Single Op Single Band (160, 80, 40, 20, 15, 10)	X	Х	Х
Single Op Assisted All Bands	X	Х	Х
Single Op Assisted Single Band (160, 80, 40, 20, 15, 10)	X	Х	Х
Overlay – Rookie (All Bands)	X	Х	
Overlay – Classic (All Bands)	X	Х	
Multi-Op Single-Transmitter	X		
Multi-Op Two-Transmitter	Х		
Multi-Op Multi-Transmitter	Х		
Checklog		Χ	





New Overlay Categories!



- Overlay Categories (Single Op Only)
 - Rookie Licensed <3 years
 - Classic One radio, no assistance, 24 hours
- Enter by adding line to Cabrillo header
 - CATEGORY-OVERLAY: ROOKIE
 - CATEGORY-OVERLAY: CLASSIC
- Entrants will have two scores in results
 - Traditional category score
 - Overlay category score calculated as All Bands regardless of log entry category





Classic Overlay

- One Operator
- One Radio
- No DX Cluster (no Assisted)
- 24 hours of operating time
 - >60 minutes with no QSO is considered "off-time"
 - You may operate more time, but only first 24 hours of operating time will count for Overlay score



0000 - 0200z	2:00
0500 - 0900z	4:00
1200 – 2200z	10:00
0400 - 0900z	5:00
1300 – 1600z	3:00
	24:00
1600 – 1800z	n/a





Entry Categories – 2013 SSB



	1500 W	100 W	5 W	Total
Single Op All Bands	960	2104	118	3182
Single Op Single Band (160, 80, 40, 20, 15, 10)	489	1049	134	1672
Single Op Assisted All Bands	974	765	24	1763
Single Op Assisted Single Band (160, 80, 40, 20, 15, 10)	472	396	49	917
Overlay – Rookie (All Bands)	29	227		256
Overlay – Classic (All Bands)	295	500		795
Multi-Op Single-Transmitter	375			
Multi-Op Two-Transmitter	115			
Multi-Op Multi-Transmitter	68			
Checklog	376			

Submit your log!



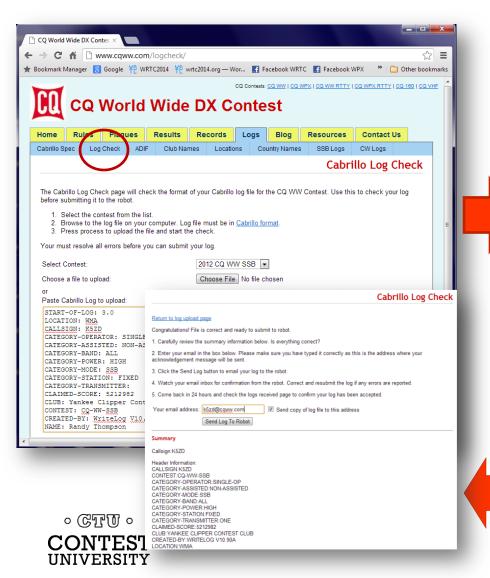
- Use Cabrillo format
- One log per callsign
- Put the correct callsign in the log!
- Confirm entry category is correct
- All dates/times are within contest period
- Read the robot confirmation email
- Visit logs received web page to confirm



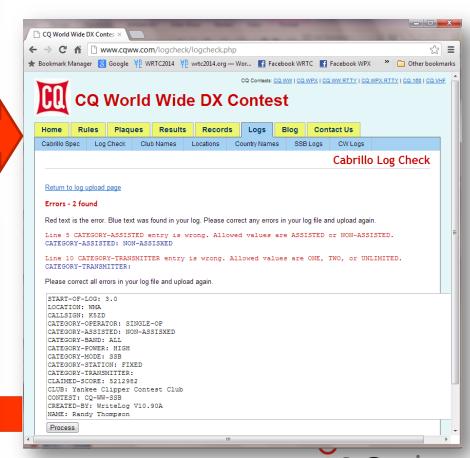


Log Check Tool

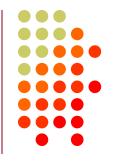




http://www.cqww.com/logcheck/



Penalties for Logging Errors



- Duplicate contacts or Incorrect exchange
 - Removed, no penalty

- Call sign errors or Not-In-Log (NIL)
 - Removed + 2x the QSO point value for that contact

- Multi-operator band change errors
 - Removed, no penalty





Log Checking Notes



- QSOs must match within a time window (+/-30 minutes)
 - No match = Not In Log
 - Please check the time on your logging computer!
 - Log every QSO you make including dupes!

- Exchange information will be checked
 - Use extra attention when working USA stations





Log Checking Report



- All entrants in CQ WW will be sent a log checking report
- LCR shows
 - How score and penalties were calculated
 - Lists all errors detected
 - Shows all multipliers counted
 - List of how other stations made mistakes when working you





Contest: 2013 CQ WW DX SSB CONTEST

Call: K5ZD

Category: Single Op All Band High Power

Overlay: Classic

Thank you for submitting a log in the 2013 CQ WW DX SSB Contest.

Your log checking report is below. We believe it is helpful for participants to receive information on how their log was scored. In addition to being fun, contesting helps us practice and develop our skills.

Explanation of the report sections:

********************* Summary ****************

3144 Claimed QSO before checking (does not include duplicates)

3133 Final QSO after checking reductions

9114 Claimed QSO points

9021 Final QSO points

465 Claimed countries

464 Final countries

152 Claimed zones

151 Final zones

617 Claimed mults

615 Final mults

5623338 Claimed score

5547915 Final score

 $Error \ rate = \frac{Errors}{Claimed \ QSOs - Dupes}$

1.3% Score reduction

0.3% Error Rate based on claimed and final gso counts

5 (0.2%) calls copied incorrectly

0 (0.0%) exchanges copied incorrectly

0 (0.0%) band change violations

6 (0.2%) not in log

15 (0.5%) duplicates (Removed without penalty)

1 (0.0%) calls unique to this log only (not removed)







How We Calculated Your Score



************* Results By Band **************

	Band	QSO	QPts	Zone	Cty	Mult			
Claimed	160M	44	110	12	24	36			
Final	160M	44	110	12	24	36			
Claimed	80M	153	425	17	57	74			
Final	80M	153	425	17	57	74			
Claimed	40M	200	555	25	71	96			
Final	40M	198	540	25		96			
111141	1011	150	0.10	20		50			
Claimed	20M	582	1695	33	102	135			
Final	20M	579	1671	33	102	135			
Claimed	15M	880	2547	22	106	139			
Final	15M	877	2520		106	139			
111141	1011	0,,,	2020		100	105			
Claimed	10M	1285	3782	32	105	137			
Final	10M	1282	3755	31	104	135			
Claimad	717	2144	0114	150	465	617	Coon-	E 600000	
Claimed	All	3144	9114		465		Score	5623338	
Final	All	3133	9021	151	464	615	Score	5547915	





********************* Not In Loa ************** 7153 PH 2013-10-26 1018 K5ZD 5 T46A 21303 PH 2013-10-26 1114 K5ZD 5 ES9C 21417 PH 2013-10-26 2148 K5ZD 5 AHOBT 14224 PH 2013-10-27 1103 K5ZD 5 2EOZAZ 21313 PH 2013-10-27 1819 K5ZD 5 ED1T 14216 PH 2013-10-27 2232 K5ZD 5 VE7XF ******* Incorrectly copied JA1YPA 14181 PH 2013-10-26 0257 K5ZD 5 JA1YBA 7192 PH 2013-10-26 0746 K5ZD 5 IK2ODM 15 correct IZ2ODM 28378 PH 2013-10-26 1314 K5ZD 5 9A5SZ/P 9A1SZ/P 28560 PH 2013-10-26 1807 K5ZD 5 EB6AVK EB6AOK 28323 PH 2013-10-27 1241 K5ZD 5 LY4BHB 15 correct LY2BHB ** Unique Calls Worked (not removed) ********* 5 IZ5TJI 28378 PH 2013-10-26 1314 K5ZD 15 correct 9A1SZ/P ****** Multipliers by band 160M multiplier total 36 HA KP2 8 9 14 15 16 33 35 80M multiplier total 74 5B 6Y E7 IT9 KL KP4 PJ2 PJ4 S5 SM SP TF V2 VP2M VP5 VP9 8 9 14 15 16 20 31 33 35 40

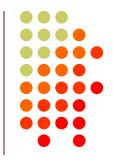
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Your Errors

Uniques FYI

Multipliers

Mistakes Made By Others



Study the errors that others make when working you

****** Statio	ns Copyi	ng Your	Exchange	Ind	correctly*	*****			
14341 PH 2013-10	-26 0027	NP2N		8	K52D	4	should	be	5
3500 PH 2013-10	-26 0602	KP4KE		8	K5ZD	4	should	be	5
7000 PH 2013-10	-26 1016	JA8WKE		25	K5ZD	4	should	be	5
14000 PH 2013-10	-26 1028	OL9R		15	K5ZD	14	should	be	5
28000 PH 2013-10	-26 1209	EI4GNB		14	K5ZD	4	should	be	5
28378 PH 2013-10	-26 1209	OZ5HP		14	K5ZD	4	should	be	5
28000 PH 2013-10	-26 1212	EI3KE		14	K5ZD	4	should	be	5
28000 PH 2013-10	-26 1256	DJ4JF		14	K5ZD	4	should	be	5
28000 PH 2013-10	-26 1342	K1V0I		5	K5ZD	4	should	be	5
28352 PH 2013-10	-26 1350	HA3HX		15	K5ZD	4	should	be	5
28000 PH 2013-10	-26 1350	EA1GQ		14	K5ZD	4	should	be	5
28453 PH 2013-10	-26 1748	DJ7HH		14	K5ZD	4	should	be	5
28000 PH 2013-10	-26 1755	F5RV0		14	K5ZD	11	should	be	5
21322 PH 2013-10	-26 1855	5X1NH		37	K5ZD	4	should	be	5
21322 PH 2013-10	-26 1906	DLOWW		14	K5ZD	4	should	be	5
21000 PH 2013-10	-26 1914	EI4GNB		14	K5ZD	4	should	be	5
21000 PH 2013-10	-26 1920	EI9GWB		14	K5ZD	4	should	be	5
21000 PH 2013-10	-26 1943	EA4GHB			K5ZD	4	should	be	5
28000 PH 2013-10				8	K5ZD	4	should	be	5
14000 PH 2013-10	-27 0253	LA8UHA		14	K5ZD	4	should	be	5
21000 PH 2013-10	-27 1125	LA8UHA		14	K5ZD	4	should	be	5
28323 PH 2013-10	-27 1240	UA3LIU			K5ZD	4	should	be	5
28000 PH 2013-10					K5ZD	4	should		_
28000 PH 2013-10	-27 1254	OK1DKR			K5ZD	4	should	be	5
28322 PH 2013-10					K5ZD	4	should		_
28322 PH 2013-10					K5ZD	4	should		_
28000 PH 2013-10				15	K5ZD	4	should		_
28500 PH 2013-10					K5ZD	4	should		_
28000 PH 2013-10					K5ZD	4	should		-
28000 PH 2013-10					K5ZD	4	should		_
14000 PH 2013-10	-27 1743	EW80M		16	K5ZD	4	should	be	5

```
***** Stations Copying K5ZD Incorrectly *********
14252 PH 2013-10-26 0005 PR5C
                                          11 K4ZD
                                           8 K5JD
14000 PH 2013-10-26 0104 HI3CC
 7212 PH 2013-10-26 0126 A71BX
                                          21 K5KD
 7207 PH 2013-10-26 0139 EA5RCI
                                          14 K5LD
7180 PH 2013-10-26 0146 RN3F
                                          16 OK5ZD
 3796 PH 2013-10-26 0516 SN2B
                                          15 K5KD
7192 PH 2013-10-26 0747 PR5D
                                          11 K9ZD
21000 PH 2013-10-26 1103 UA9SUV
                                          16 K9ZD
21000 PH 2013-10-26 1127 SP9BMH
                                          15 K9ZD
28000 PH 2013-10-26 1201 IR6D
                                          15 K4ZD
28378 PH 2013-10-26 1222 PA8F
                                          14 KW5ZD
21352 PH 2013-10-26 1955 ED5T
                                          14 K5ZU
21204 PH 2013-10-26 2006 PI4M
                                          14 K4ZD
21235 PH 2013-10-27 1151 OG3P
                                          15 K5CD
21000 PH 2013-10-27 1155 SP9SDR
                                          15 K1ZD
21366 PH 2013-10-27 1228 EC2DX
                                          14 K5CD
28323 PH 2013-10-27 1251 RA6GW
                                          16 K9ZD
28000 PH 2013-10-27 1304 DJ4JF
                                          14 K9ZD
28000 PH 2013-10-27 1333 R3ZV
                                          16 K9ZD
28200 PH 2013-10-27 1506 OM3TLE
                                          15 K1ZD
14180 PH 2013-10-27 1529 YR8D
                                          20 K5ZT
28000 PH 2013-10-27 1858 LU8YE
                                          13 K5ZW
```



Summary



- Have a goal and a plan
- Understand the scoring
- Expand your callsign vocabulary
- B.I.C.
- Submit log
- Study your LCR
- Have fun!





World Wide Radio Operators Foundation

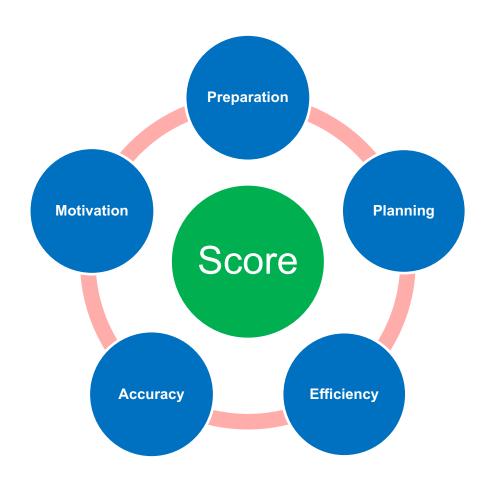


- Non-profit corporation focused on support of radio contesting
- Developed contester's code of ethics
- WWROF funds
 - CQWW infrastructure including the robot, web site, log checking software/hardware
 - Webinar series
 - Other projects that support contesting
- Learn more and donate at www.WWROF.org





Questions?







Hour 43 – The "look"



