

Post-Contest Log Analyzers

"Releasing the Gorilla in Your Cabrilla"

John Miller, K6MM

IDXC Meeting

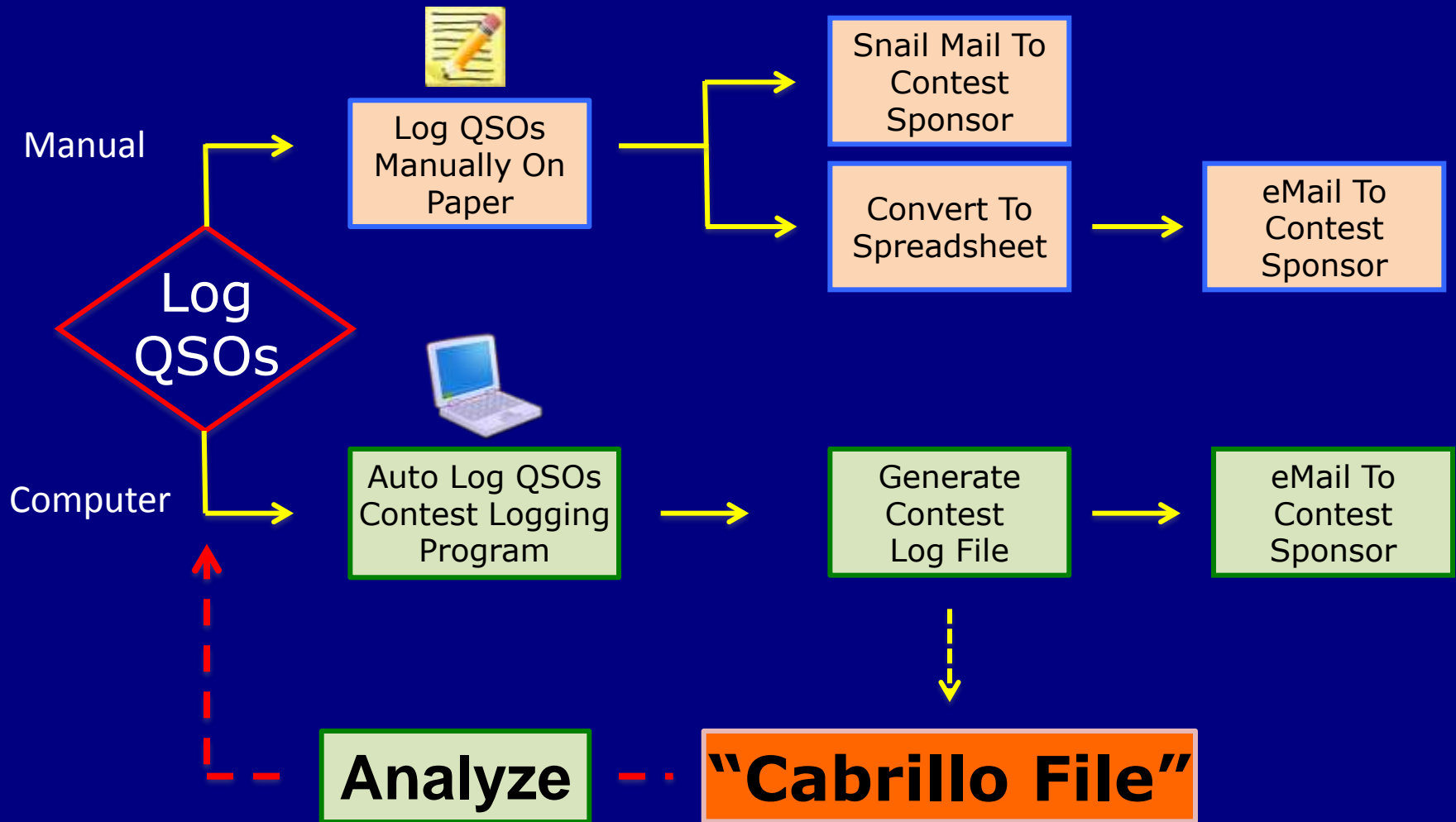
April 22, 2012



Contesting: Why Bother?

- Sharpen your operating skills
- Get the most out of your equipment
- Compete against your peers
- Support your local Contesting Club
- Prepare for WRTC 2014
- Become part of the contesting community
- Have more fun with the hobby

After The Contest: Log Submission



Cabrillo files can provide valuable insights regarding your operating decisions and help to shape your strategy for future contests.

What's A Cabrillo File?

- File Format Standard developed by Trey, N5KO
- In late 1999 became standardized electronic contest entry specification
- Serves as a standard interface (i.e., “language”) between logging program authors and contest sponsors
- Simplifies log collection, checking, and reporting of contest results.
- All common contest logging programs can automatically generate a Cabrillo Log file

START-OF-LOG: *Cabrillo version-number (3.0)*
CREATED-BY: *contest logger*
CALLSIGN: *callsign*
CATEGORY-ASSISTED:
CATEGORY-BAND:
CATEGORY-MODE:
CATEGORY-OPERATOR:
CATEGORY-POWER:
CATEGORY-STATION:
CATEGORY-TIME:
CATEGORY-TRANSMITTER:
CATEGORY-OVERLAY:
CLAIMED-SCORE: *n*
CLUB: *Northern California Contest Club*
CONTEST:
EMAIL: *text*
LOCATION:
NAME: *text*
ADDRESS:
ADDRESS-CITY:
ADDRESS-STATE-PROVINCE:
ADDRESS-POSTALCODE:
ADDRESS-COUNTRY:
OPERATORS: *callsign1 [callsign2 callsign3...]*
OFFTIME: *begin-time end-time*
SOAPBOX: *text*
QSO: *qso-data*
END-OF-LOG:

Cabrillo Line Tags

K6MM Cabrillo Log

2010 California QSO Party

START-OF-LOG: 2.0

ARRL-SECTION: SCV

CALLSIGN: K6MM

CLUB: Northern California Contest Club

CONTEST: CA-QSO-PARTY

CATEGORY: SINGLE-OP ALL HIGH MIXED

CLAIMED-SCORE: 174249

OPERATORS: K6MM

NAME: John Miller

ADDRESS: 6349 Slida Drive

ADDRESS: San Jose, CA 95129

ADDRESS: USA

CREATED-BY: N1MM Logger V10.9.5

QSO: 14047 CW 2010-10-02 1600 K6MM	0001 CA	K6KQV	0001 SCLA
QSO: 14047 CW 2010-10-02 1602 K6MM	0002 CA	W7OM	0005 WA
QSO: 14047 CW 2010-10-02 1603 K6MM	0003 CA	N0AC	0004 CO
QSO: 14047 CW 2010-10-02 1604 K6MM	0004 CA	N4CD	0003 TX
QSO: 14047 CW 2010-10-02 1604 K6MM	0005 CA	K9EN	0002 WI

QSO: 14289 PH 2010-10-03 1950 K6MM	1165 CA	N4DXI	0158 FL
QSO: 14289 PH 2010-10-03 1950 K6MM	1166 CA	WA9DLB	0022 IL
QSO: 14289 PH 2010-10-03 1952 K6MM	1167 CA	AE1T	0306 NH
QSO: 21273 PH 2010-10-03 1957 K6MM	1168 CA	WA0AVL	0332 IL
QSO: 21317 PH 2010-10-03 2003 K6MM	1169 CA	W1UE	1170 MA
QSO: 21334 PH 2010-10-03 2007 K6MM	1170 CA	WB4FEV	0088 SC

END-OF-LOG:

What's A Post-Contest Log Analyzer?

Software designed to analyze a **Cabrillo File** for a specific contest, and produce statistically valuable information.

Log Analyzers: What Can I Learn?

- How much time did I really **operate**?
- Which **times** were most productive?
- Which **bands** were most productive?
- Which **countries, continents, CQ/ITU zones, or grid** squares did I work?
- What did my QSO **rates** look like?
- How effective were my **antennas**?
- How can I have more **FUN** next time?

Log Analyzers For Cabrillo Files: Why Not Just Use My Own Logger?

- Good place to start
- N1MM, TR4W, WriteLog, Win-Test, etc. have some built-in post contest analysis capability
- Limited to the author's options
- Option to export files for further analysis
- Worthwhile exploring other methods
- Cheap, Fast, Fun

Primary Log Analyzers

1. **CBS** (Cabrillo Statistics Program) (Bob, N6TV)
2. **SH5** (Dmitriy, UA4WLI)
3. **RCSS** (Excel Spreadsheets) (Bob, K0RC)
4. **LogView** (Tim, EI8IC)

Special

5. **Global Overlay Mapper** (Tim, EI8IC)

Cabrillo Log Analyzers

	Name ==>	1. CBSW	2. SH5	3. RCSS	4. LogView
	Cost ==>	FREE	\$20	FREE	FREE
1	ARRL-10	X			
2	ARRL-160	X		X	
3	ARRL-DX-CW	X		X	
4	ARRL-DX-SSB	X		X	
5	ARRL-FIELD DAY	X		X	
6	ARRL-RTTY	X		X	
7	ARRL-SS-CW	X		X	
8	ARRL-SS-SSB	X		X	
9	ARRL-VHF-JAN				
10	ARRL-VHF-JUN				
11	ARRL-VHF-SEP				
12	ARRL-UHF-AUG				
13	BARTG-HF			X	
14	CQ-160-CW	X			
15	CQ-160-SSB	X			
16	CQ-WPX-CW	X			
17	CQ-WPX-RTTY	X			
18	CQ-WPX-SSB	X			
19	CQ-VHF		ANY CONTEST		ANY CONTEST
20	CQ-WW-CW	X	but	X	but
21	CQ-WW-RTTY	X		X	
22	CQ-WW-SSB	X	Mults Not Always Accurate		Results Shown For W/VE Only
23	FIELD DAY	X		X	
24	IARU-HF	X			
25	NAQP-CW	X			
26	NAQP-RTTY	X			
27	NAQP-SSB	X			
28	NA SPRINT-CW	X			
29	NA SPRINT-SSB	X			
30	NA SPRINT-RTTY	X			
31	OK-DX RTTY			X	
32	QSO PARTY - CA	X		X	
33	QSO PARTY - FL			X	
34	QSO PARTY - MN			X	
35	QSO PARTY - NY			X	
36	QSO PARTY - OH			X	
37	QSO PARTY - PA				
38	QSO PARTY - WI			X	
39	STEW-PERRY	X			
40	TARA-RTTY				

Primary Log Analyzers Supported Contests



	Top 4 Log Analyzers	CBS	SH5	RCSS	Log View
1	Band Changes - # of Changes	X		X	
2	Band Changes - Hourly Changes - Chart			X	
3	Beam heading - by Band		X		
4	Beam heading - by Band - Chart		X		
5	Break times - per Hour		X		
6	Callsigns - # Unique	X			
7	Callsigns - All Worked		X		
8	Callsigns - Length (# of Letters)	X	X		
9	Chart - Continents		X		
10	Continents - by Band	X	X		
11	Countries - by Band	X	X		
12	Countries - by Mode		X		
13	Countries - by Time		X		
14	Countries - by time-10		X		
15	Countries - by time-15		X		
16	Countries - by time-160		X		
17	Countries - by time-20		X		
18	Countries - by time-40		X		
19	Countries - by time-80		X		
20	Countries - Top 10 - Chart		X		
21	CQ zones		X		X
22	Distance		X		
23	Dupes	X	X		
24	Frequencies		X		
25	Grid Square Locators - by Band - List		X		X
26	Grid Square Locators - by Band - Table		X		X
27	Grid Square Locators - Grid Map		X		X
28	ITU zones		X		X
29	KML files		X		
30	Mosaic		X		

	Top 4 Log Analyzers	CBS	SH5	RCSS	Log View
31	Multipliers - by Band	X		X	
32	Multipliers - by Mode			X	
33	Not in master		X		
34	Operators	X	X	X	
35	Possible errors		X		
36	Prefixes - by Country		X		
37	Qs - by Hour - 10M - Chart		X		X
38	Qs - by Hour - 15M - Chart		X		X
39	Qs - by Hour - 20M - Chart		X		X
40	Qs - by Hour - 40M - Chart		X		X
41	Qs - by Hour - 80M - Chart		X		X
42	Qs - by Hour -160 - Chart		X		X
43	Qs - by Hour - All	X	X	X	X
44	Qs - by Hour - All - Chart		X		X
45	Qs - by Hour - Band - Mode	X	X		
46	Qs - Gross Total	X		X	X
47	Qs - Multi-Band Summary	X		X	
48	Qs - Club Roster Members			X	
49	Qs - Net Total	X		X	
50	Qs - Passed		X		
51	Qs - Per Station		X		
52	Qs - Second Radio		X		
53	Qs - Single by Band	X			
54	Rates - best 1 minute	X			
55	Rates - best 10 minutes	X	X		
56	Rates - best 120 minutes		X		
57	Rates - best 30 minutes	X	X		
58	Rates - best 60 minutes	X	X		
59	Rates = QSOs per Minute	X	X		
60	Sunspot Data		X		

Log Analyzer #1

CBS

Authors:

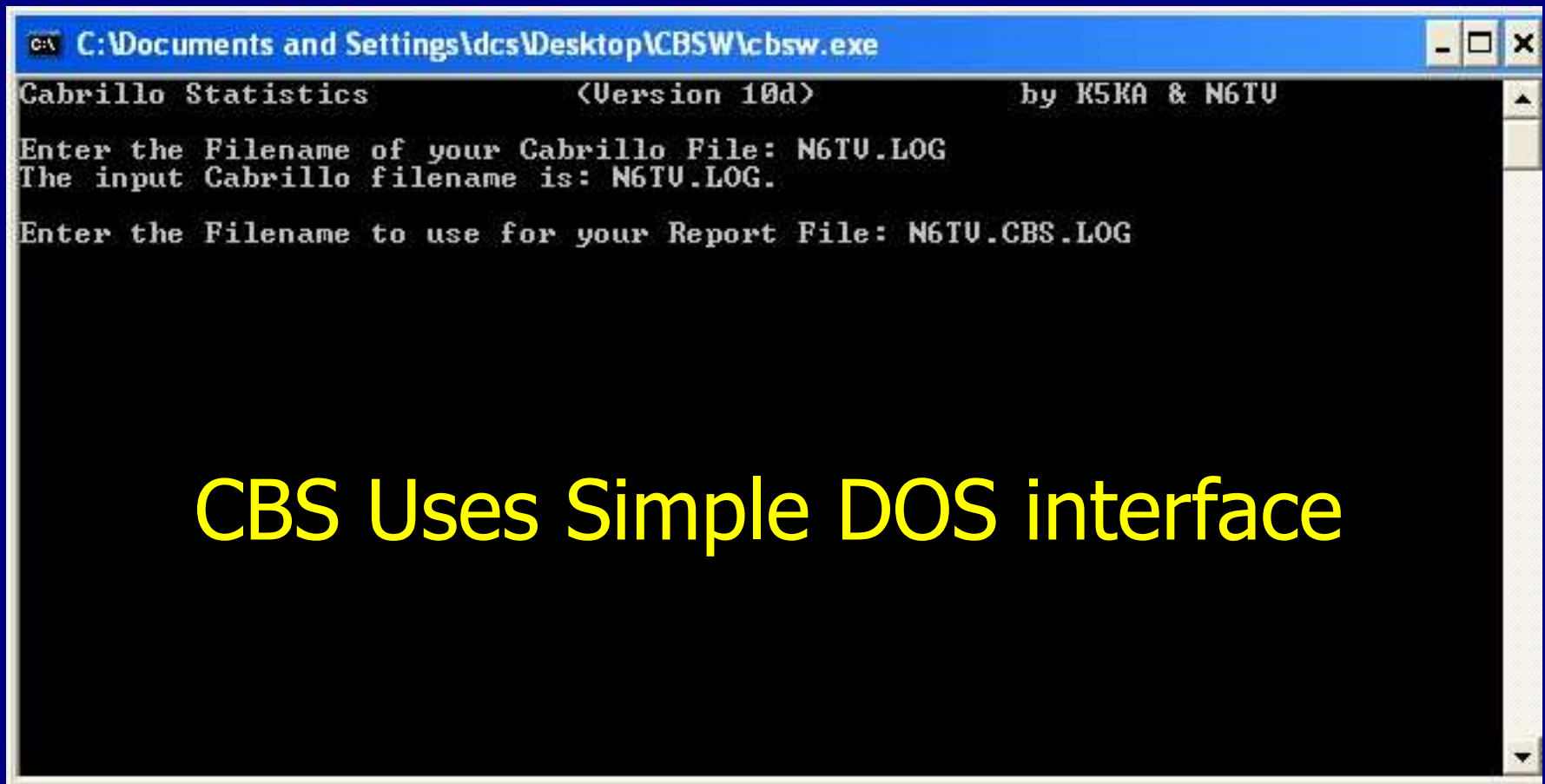
Ken Adams, K5KA (*SK*)

Bob Wilson, N6TV

CBS (Cabrillo Statistics Program)

- Original DOS version: **K5KA**; Windows + Mac: **N6TV**
- All Modes: CW, SSB, Digital
- **ARRL**: SS, 10M, 160M, DX, FD, RTTY
- **CQ**: 160, WPX, WW
- **NAQP, NA-SPRINT**
- **IARU-HF, STEW-PERRY**
- **California QSO Party**
- Produces simple, clean tables
- Generates QSO Rates, Mults, Countries, Uniques, # Dupes, Band Changes, Gross/Net QSOs

CBS (Cabrillo Statistics Program)



```
C:\Documents and Settings\dcs\Desktop\CBSW\cbsw.exe  
Cabrillo Statistics          (Version 10d)          by K5KA & N6TU  
Enter the Filename of your Cabrillo File: N6TU.LOG  
The input Cabrillo filename is: N6TU.LOG.  
Enter the Filename to use for your Report File: N6TU.CBS.LOG
```

CBS Uses Simple DOS interface

CBS: Quick Summary

Gross QSOs=1170

Dupes=3

Net QSOs=1167

Unique callsigns worked = 753

The best 60 minute rate was 108/hour from 1606 to 1705

The best 30 minute rate was 136/hour from 1607 to 1636

The best 10 minute rate was 156/hour from 1610 to 1619

The best 1 minute rates were:

4 QSOs/minute 7 times.

3 QSOs/minute 62 times.

2 QSOs/minute 241 times.

1 QSOs/minute 471 times.

There were 29 bandchanges

CBS

QSO
Rate
Summary

----- Q S O R a t e S u m m a r y -----									
Hour	160	80	40	20	15	10	Rate	Total	Pct
1600	0	0	0	105	0	0	105	105	9.0
1700	0	0	0	0	81	0	81	186	15.9
1800	0	0	0	14	57	0	71	257	22.0
1900	0	0	0	35	33	0	68	325	27.8
2000	0	0	0	82	0	0	82	407	34.9
2100	0	0	0	62	0	0	62	469	40.2
2200	0	0	0	55	0	0	55	524	44.9
2300	0	0	0	58	0	0	58	582	49.9
0000	0	0	47	11	0	0	58	640	54.8
0100	0	0	80	0	0	0	80	720	61.7
0200	0	16	15	0	0	0	31	751	64.4
0300	0	26	7	0	0	0	33	784	67.2
0400	0	6	0	0	0	0	6	790	67.7
0500	0	61	0	0	0	0	61	851	72.9
0600	8	39	0	0	0	0	47	898	76.9
0700	0	34	0	0	0	0	34	932	79.9
0800	0	0	0	0	0	0	0	932	79.9
0900	0	0	0	0	0	0	0	932	79.9
1000	0	0	0	0	0	0	0	932	79.9
1100	0	0	0	0	0	0	0	932	79.9
1200	0	0	0	0	0	0	0	932	79.9
1300	0	0	15	0	0	0	15	947	81.1
1400	0	0	0	56	0	0	56	1003	85.9
1500	0	0	0	22	19	0	41	1044	89.5
1600	0	0	0	45	11	0	56	1100	94.3
1700	0	0	0	9	17	0	26	1126	96.5
1800	0	0	0	10	2	2	14	1140	97.7
1900	0	0	2	6	15	2	25	1165	99.8
2000	0	0	0	0	2	0	2	1167	100.0
2100	0	0	0	0	0	0	0	1167	100.0
Total	8	182	166	570	237	4	1167		

CBS

	S i n g l e B a n d Q S O s					
Band	160	80	40	20	15	10
QSOs	2	101	39	315	80	2

Multi-band QSOs

1 bands	539
2 bands	151
3 bands	51
4 bands	11
5 bands	0
6 bands	1

U.S. Call Areas Worked

Area	QSOs	Pct
0	101	8.7
1	74	6.3
2	74	6.3
3	65	5.6
4	155	13.3
5	97	8.3
6	210	18.0
7	77	6.6
8	78	6.7
9	76	6.5
Total	1007	86.3

CBS

Continent Summary

	C o n t i n e n t			S u m m a r y			Total	Pct
	160	80	40	20	15	10		
North America	8	181	164	530	229	4	1116	95.6
South America	0	0	1	1	0	0	2	0.2
Europe	0	0	0	36	7	0	43	3.7
Asia	0	0	0	0	0	0	0	0.0
Africa	0	0	0	0	0	0	0	0.0
Oceania	0	1	1	3	1	0	6	0.5
Total	8	182	166	570	237	4	1167	

CBS

Country
Summary

Country	160	80	40	20	15	10	Total	Pct
DL	0	0	0	9	1	0	10	0.9
ES	0	0	0	1	0	0	1	0.1
F	0	0	0	4	0	0	4	0.3
G	0	0	0	1	0	0	1	0.1
GM	0	0	0	1	0	0	1	0.1
HA	0	0	0	3	1	0	4	0.3
HB	0	0	0	1	0	0	1	0.1
HK	0	0	0	1	0	0	1	0.1
I	0	0	0	0	2	0	2	0.2
K	8	176	153	461	205	4	1007	86.3
KG4	0	0	0	2	1	0	3	0.3
KH6	0	1	1	3	1	0	6	0.5
KL	0	2	2	5	1	0	10	0.9
LY	0	0	0	1	0	0	1	0.1
OK	0	0	0	6	3	0	9	0.8
ON	0	0	0	1	0	0	1	0.1
PY	0	0	1	0	0	0	1	0.1
S5	0	0	0	2	0	0	2	0.2
SM	0	0	0	4	0	0	4	0.3
SP	0	0	0	1	0	0	1	0.1
VE	0	3	9	62	22	0	96	8.2
YL	0	0	0	1	0	0	1	0.1
Total	8	182	166	570	237	4	1167	



-----MULTIPLIER SUMMARY-----										-----MULTIPLIER SUMMARY-----									
	Mult	160	80	40	20	15	10	Total	Pct		Mult	160	80	40	20	15	10	Total	Pct
1	TX	0	5	11	37	13	0	66	5.6	52	HI	0	1	1	2	1	0	5	0.4
2	ON	0	1	5	37	19	0	62	5.3	53	INYO	1	3	1	0	0	0	5	0.4
3	PA	0	1	9	30	12	0	52	4.4	54	SBER	0	4	1	0	0	0	5	0.4
4	DX	0	0	1	37	7	0	45	3.8	55	MB	0	1	0	3	0	0	4	0.3
5	TN	0	5	6	19	12	0	42	3.6	56	ALAM	0	1	0	2	1	0	4	0.3
6	OH	0	1	5	21	14	0	41	3.5	57	QC	0	0	1	2	1	0	4	0.3
7	CO	0	1	7	32	0	0	40	3.4	58	MARN	0	1	1	1	1	0	4	0.3
8	GA	0	2	4	24	10	0	40	3.4	59	SLUI	0	2	1	1	0	0	4	0.3
9	IL	0	0	4	18	18	0	40	3.4	60	UT	0	2	2	0	0	0	4	0.3
10	SCLA	1	8	5	16	6	2	38	3.2	61	MODO	0	2	2	0	0	0	4	0.3
11	AL	0	1	2	23	10	0	36	3.1	62	CALA	0	3	1	0	0	0	4	0.3

-----MULTIPLIER SUMMARY-----									
	Mult	160	80	40	20	15	10	Total	Pct
1	TX	0	5	11	37	13	0	66	5.6
2	ON	0	1	5	37	19	0	62	5.3
3	PA	0	1	9	30	12	0	52	4.4
4	DX	0	0	1	37	7	0	45	3.8
5	TN	0	5	6	19	12	0	42	3.6
6	OH	0	1	5	21	14	0	41	3.5
7	CO	0	1	7	32	0	0	40	3.4
8	GA	0	2	4	24	10	0	40	3.4
9	IL	0	0	4	18	18	0	40	3.4
10	SCLA	1	8	5	16	6	2	38	3.2

33	AR	0	2	2	5	1	0	10	0.9	84	MADE	0	1	1	0	0	0	2	0.2
34	BC	0	1	1	8	0	0	10	0.9	85	FRES	0	2	0	0	0	0	2	0.2
35	AR	0	0	1	5	4	0	10	0.9	86	SIER	0	2	0	0	0	0	2	0.2
36	MO	0	0	1	5	3	0	9	0.8	87	ALPI	0	1	1	0	0	0	2	0.2
37	MS	0	0	1	3	5	0	9	0.8	88	MEND	0	2	0	0	0	0	2	0.2
38	SCRU	0	4	1	4	0	0	9	0.8	89	SACR	0	2	0	0	0	0	2	0.2
39	SC	0	0	0	6	3	0	9	0.8	90	SBEN	0	1	1	0	0	0	2	0.2
40	CCOS	1	3	1	2	1	1	9	0.8	91	YUBA	0	2	0	0	0	0	2	0.2
41	IA	0	1	1	5	1	0	8	0.7	92	STAN	0	0	0	0	1	0	1	0.1
42	SMAT	0	2	0	3	2	1	8	0.7	93	NT	0	0	0	1	0	0	1	0.1
43	NEVA	0	7	1	0	0	0	8	0.7	94	MONT	0	0	1	0	0	0	1	0.1
44	LA	0	0	1	4	2	0	7	0.6	95	PLUM	0	1	0	0	0	0	1	0.1
45	KY	0	0	0	1	6	0	7	0.6	96	KERN	0	1	0	0	0	0	1	0.1
46	OK	0	1	1	4	0	0	6	0.5	97	TRIN	0	1	0	0	0	0	1	0.1
47	SONO	0	5	0	0	1	0	6	0.5	98	MERC	0	1	0	0	0	0	1	0.1
48	WV	0	0	1	4	1	0	6	0.5	99	DELN	0	1	0	0	0	0	1	0.1
49	WY	0	0	2	4	0	0	6	0.5	100	SBAR	0	1	0	0	0	0	1	0.1
50	MT	0	1	1	3	0	0	5	0.4	101	IMPE	0	1	0	0	0	0	1	0.1
51	PLAC	0	2	1	2	0	0	5	0.4		Total	8	182	166	570	237	4	1167	

CBS: Summary

- (+) FREE
- (+) Quick
- (+) Generates all the basic statistics
- (+) Covers most U.S. based contests
- (+) Continuous improvement by author
- (-) Simple but time-worn DOS interface
- (-) No graphics or charting options

Overall: **Very useful log analyzer**



Log Analyzer #2

SH5

Author:

Dmitriy Gulyaev, UA4WLI

SH5

- Authored by Dimitry of TR4W fame
- Opens a Cabrillo, TR Log, *.dat, or ADIF file
- Nice user interface
- Extremely easy to use, and fast
- Can check any contest – although Mults aren't always accurately represented
- Very complete and useful statistical summary
- 49 outstanding Reports are automatically saved as HTML files for offline viewing

SH5: Choice of 2 Color Schemes

SH5 2010 CA-QSO-PARTY K6MM

1 year 6 months ago

Main

Parameter	
Callsign	K6MM
Country	United States
Locator	CM87XH
Sunrise	☉ 14:04
Sunset	☿ 01:50
Contest	CA-QSO-PARTY
Category	SINGLE-OP ALL HIGH MIXED
Operators	K6MM
Start date	02-Oct-2010 16:00
End date	03-Oct-2010 20:07
Operating time	28:07 (1687 min.)
Break time	11:27 (687 min., 40.72 %)
QSOs	1,170
Second Radio QSOs	1 (0.09 %)
Dupes	3 (0.26 %)
Unique callsigns	753
QSOs per station	1.55
Kilometers per QSO	2,853 km
Countries	21
Locators	21 (6.48 %)
Moves	30
Claimed score	174,249 pts
Software	N1MM Logger V10.9.5
Sunspot number (SSN)	044
Callsigns not found in sh5.master	92 (12.22%)
Prefixes	245

Classic

SH5 2010 CA-QSO-PARTY K6MM

1 year 6 months ago

Main

Parameter	
Callsign	K6MM
Country	United States
Locator	CM87XH
Sunrise	☉ 14:04
Sunset	☿ 01:50
Contest	CA-QSO-PARTY
Category	SINGLE-OP ALL HIGH MIXED
Operators	K6MM
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Sunspot number (SSN)	044
Callsigns not found in sh5.master	92 (12.22%)
Prefixes	245

Black

1. MAIN
2. SUMMARY
3. LOG
4. OPERATORS
5. ALL CALLSIGNS
6. RATES
7. COUNTRIES
8. COUNTRIES BY TIME
 - o Countries by time-160
 - o Countries by time-80
 - o Countries by time-40
 - o Countries by time-20
 - o Countries by time-15
 - o Countries by time-10
15. QS PER STATION
16. PASSED QSOS
17. DUPES
18. QS BY HOUR
 - o Qs by hour-All
 - o Qs by hour-160
 - o Qs by hour-80
 - o Qs by hour-40
 - o Qs by hour-20
 - o Qs by hour-15
 - o Qs by hour-10
26. SECOND RADIO QS
27. PREFIXES
28. DISTANCE
29. BEAM HEADING
30. BREAK TIME
31. CONTINENTS
32. KML FILES
33. LOCATORS
34. LOCATORS MAP
35. LOCATORS LIST
36. CALLSIGN LENGTH
37. CQ ZONES
38. ITU ZONES
39. FREQUENCIES
40. SUN
41. MOSAIC
42. NOT IN MASTER
43. POSSIBLE ERRORS
44. CHARTS
 - o Top 10 countries
 - o Continents
 - o Beam heading
48. COMMENTS
49. SH5 INFO

Main

Parameter	
Callsign	K6MM
Country	United States
Locator	CMB7XH
Sunrise	o 14:04
Sunset	o 01:50
Contest	CA-QSO-PARTY
Category	SINGLE-OP ALL HIGH MIXED
Operators	K6MM
Start date	02-Oct-2010 16:00
End date	03-Oct-2010 20:07
Operating time	28:07 (1687 min.)
Break time	11:27 (687 min., 40.72 %)
QSOs	1,170
Second Radio QSOs	1 (0.09 %)
Dupes	3 (0.26 %)
Unique callsigns	753
QSOs per station	1.55
Kilometers per QSO	2,853 km
Countries	21
Locators	21 (6.48 %)
Moves	30
Claimed score	174,249 pts
Software	N1MM Logger V10.9.5
Sunspot number (SSN)	044
Callsigns not found in sh5.master	92 (12.22%)
Prefixes	245

SH5: Main Screen

- 28h 7m Op Time
- 11h 27m Break Time
- 1170 QSOs
- 3 Dupes
- 753 Unique Callsigns
- 21 Countries
- 92 Callsigns (12%)
Not in Master DX File
- 245 Unique Prefixes

SH5: Summary Screen

Summary

Band	Time, HH:mm	CW			Phone			Digital		All		Countries	
		QSOs	%		QSOs	%		QSOs	%	QSOs	%		
160	00:15	7	0.6		2	0.2				9	0.8		1
80	02:53	97	8.3	■	85	7.3	■			182	15.6	■	4
40	01:55	154	13.2	■	12	1.0				166	14.2	■	5
20	07:51	330	28.2	■	242	20.7	■			572	48.9	■	19
15	03:08	130	11.1	■	107	9.1	■			237	20.3	■	8
10	00:05	3	0.3		1	0.1				4	0.3		1
All	16:07	721	61.6	■	449	38.4	■			1170	100.0		21

- QSO Analysis: # and %
- Breakdown by Band, Mode
- Total Time spent on each Band
- # of Countries Worked by Band

SH5: Rates

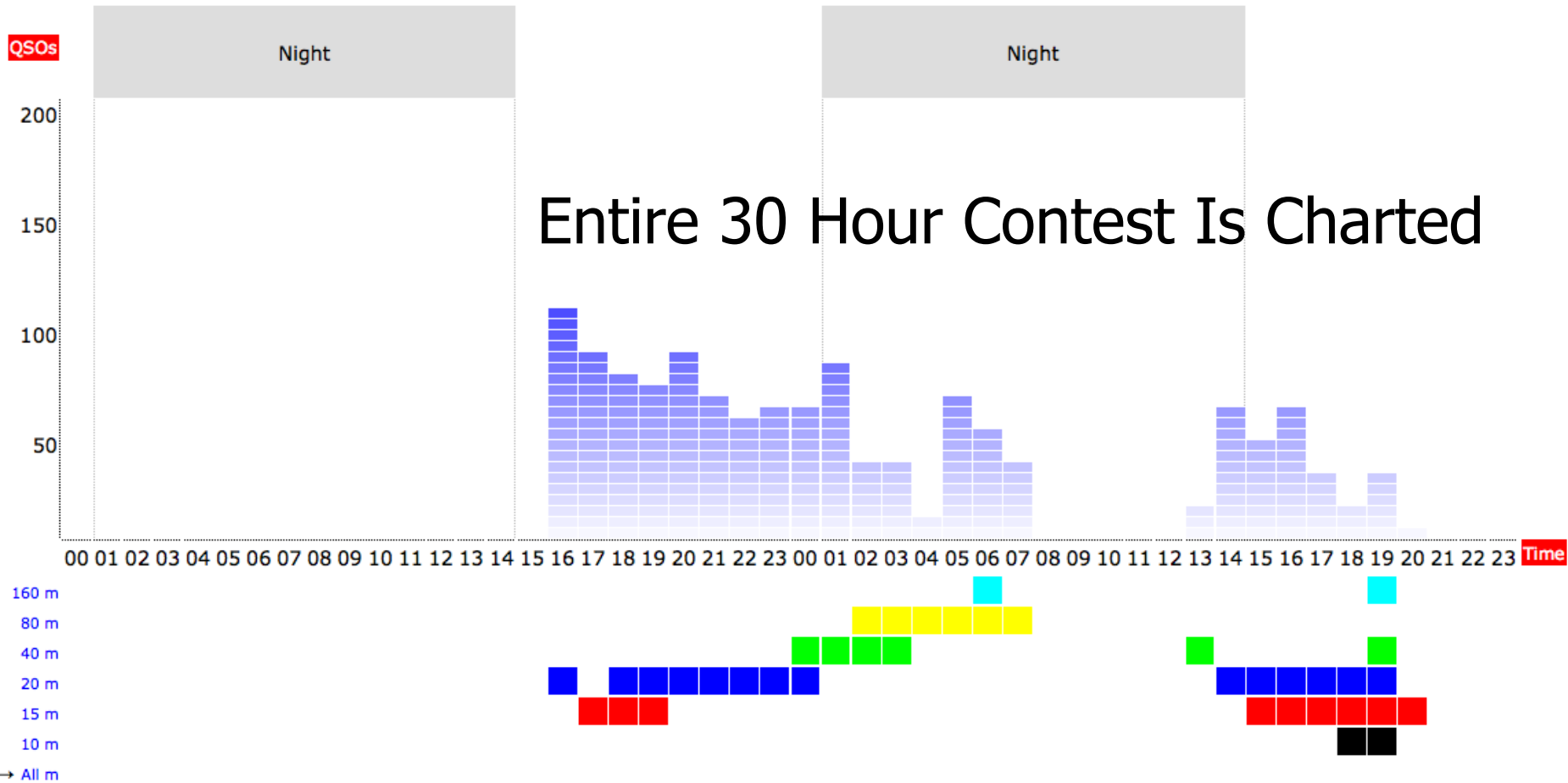
Rates

Period, min.	QSOs	QSOs per minute	QSOs per hour	From		To	
				Time	QSO #	Time	QSO #
10	26	2.6	156	02-Oct-2010 16:10	16	02-Oct-2010 16:19	41
20	48	2.4	144	02-Oct-2010 16:10	16	02-Oct-2010 16:30	63
30	68	2.3	136	02-Oct-2010 16:03	3	02-Oct-2010 16:33	70
60	108	1.8	108	02-Oct-2010 16:04	4	02-Oct-2010 17:04	111
120	190	1.6	95	02-Oct-2010 16:03	3	02-Oct-2010 18:03	192

- Highest rates per hour
- Breakdown by 10, 20, 30, 60, 120 minute periods
- Specific From/To Time periods
- Specific QSO# range

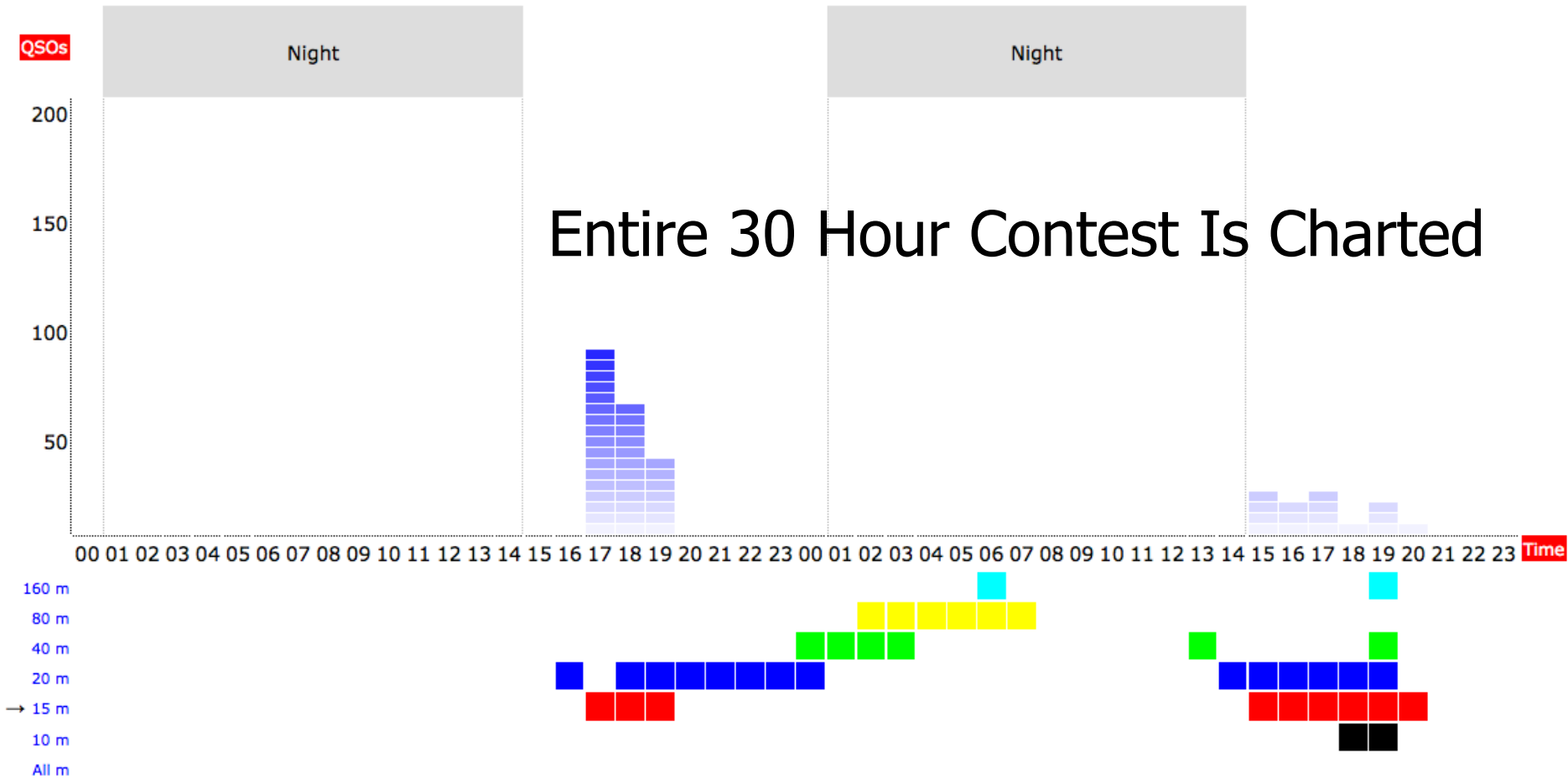
SH5: QSOs by Hour – All Bands

Qs by hour-All



SH5: QSOs by Hour – 15M

Qs by hour-15



SH5: Break Times

Break time

#	From		To		Break time, min.	Total
	Time	QSO #	Time	QSO #		
1	02-Oct-2010 18:36	243	02-Oct-2010 18:43	244	7	00:07
2	02-Oct-2010 20:25	355	02-Oct-2010 20:31	356	6	00:13
3	02-Oct-2010 21:44	459	02-Oct-2010 21:49	460	5	00:18
4	02-Oct-2010 21:59	469	02-Oct-2010 22:08	470	9	00:27
5	02-Oct-2010 22:48	520	02-Oct-2010 22:55	521	7	00:34
6	03-Oct-2010 00:04	586	03-Oct-2010 00:09	587	5	00:39
7	03-Oct-2010 00:45	636	03-Oct-2010 00:50	637	5	00:44
8	03-Oct-2010 01:49	720	03-Oct-2010 02:20	721	31	01:15
9	03-Oct-2010 03:11	770	03-Oct-2010 03:17	771	6	01:21
10	03-Oct-2010 03:21	775	03-Oct-2010 03:26	776	5	01:26
11	03-Oct-2010 03:27	777	03-Oct-2010 03:33	778	6	01:32
12	03-Oct-2010 03:40	784	03-Oct-2010 04:51	785	71	02:43
13	03-Oct-2010 05:46	839	03-Oct-2010 05:53	840	7	02:50
14	03-Oct-2010 07:05	901	03-Oct-2010 07:10	902	5	02:55
15	03-Oct-2010 07:11	903	03-Oct-2010 07:17	904	6	03:01
16	03-Oct-2010 07:39	929	03-Oct-2010 07:47	930	8	03:09
17	03-Oct-2010 07:53	932	03-Oct-2010 13:38	933	345	08:54
18	03-Oct-2010 13:38	933	03-Oct-2010 13:43	934	5	08:59
19	03-Oct-2010 13:55	947	03-Oct-2010 14:02	948	7	09:06
20	03-Oct-2010 15:18	1023	03-Oct-2010 15:24	1024	6	09:12
21	03-Oct-2010 15:46	1043	03-Oct-2010 15:52	1044	6	09:18
22	03-Oct-2010 15:53	1045	03-Oct-2010 15:59	1046	6	09:24
23	03-Oct-2010 16:00	1048	03-Oct-2010 16:08	1049	8	09:32
24	03-Oct-2010 16:45	1093	03-Oct-2010 16:50	1094	5	09:37
25	03-Oct-2010 17:02	1104	03-Oct-2010 17:08	1105	6	09:43
26	03-Oct-2010 17:12	1107	03-Oct-2010 17:18	1108	6	09:49
27	03-Oct-2010 17:33	1119	03-Oct-2010 17:44	1120	11	10:00
28	03-Oct-2010 17:50	1125	03-Oct-2010 17:56	1126	6	10:06
29	03-Oct-2010 17:58	1128	03-Oct-2010 18:06	1129	8	10:14
30	03-Oct-2010 18:10	1130	03-Oct-2010 18:17	1131	7	10:21
31	03-Oct-2010 18:19	1132	03-Oct-2010 18:24	1133	5	10:26
32	03-Oct-2010 18:40	1142	03-Oct-2010 19:17	1143	37	11:03
33	03-Oct-2010 19:35	1161	03-Oct-2010 19:42	1162	7	11:10
34	03-Oct-2010 19:42	1162	03-Oct-2010 19:48	1163	6	11:16
35	03-Oct-2010 19:52	1167	03-Oct-2010 19:57	1168	5	11:21
36	03-Oct-2010 19:57	1168	03-Oct-2010 20:03	1169	6	11:27

SH5: Continents

Continents

Continent	QSOs							
	160	80	40	20	15	10	All	%
NA North America	9	181	164	531	229	4	1118	95.6
SA South America			1	1			2	0.2
EU Europe				37	7		44	3.8
AF Africa								0.0
AS Asia								0.0
OC Oceania		1	1	3	1		6	0.5

- QSO Breakdown by Band and Continent
- # and % of QSOs
- HTML Linked to other reports

37 European
QSOs on 20M

SH5: 37 European QSOs on 20M

QSO #	Band	Mode	Time	Qs	Callsign	Cont.	Country	Dist., km	Head., °	In MASTER	Dupe	CQ	ITU
8	20m	CW	02-Oct-2010 16:06	1	G4RRA	EU	G England	8630	34	In MASTER		14	27
44	20m	CW	02-Oct-2010 16:22	1	DJ9AO	EU	DL Germany	9270	27	In MASTER		14	28
58	20m	CW	02-Oct-2010 16:28	2	DL3GA	EU	DL Germany	9370	30	In MASTER		14	28
59	20m	CW	02-Oct-2010 16:28	2	DL3DXX	EU	DL Germany	9350	26	In MASTER		14	28
78	20m	CW	02-Oct-2010 16:37	1	S53M	EU	S5 Slovenia	9880	26	In MASTER		15	28
245	20m	CW	02-Oct-2010 18:44	1	HA8VK	EU	HA Hungary	9960	25	In MASTER		15	28
252	20m	CW	02-Oct-2010 18:50	1	F5IN	EU	F France	9090	33	In MASTER		14	27
338	20m	CW	02-Oct-2010 20:09	1	DL1OLI	EU	DL Germany	9100	28	In MASTER		14	28
339	20m	CW	02-Oct-2010 20:11	1	LY2RN	EU	LY Lithuania	9210	19	Not in MASTER		15	29
340	20m	CW	02-Oct-2010 20:13	1	GM3YOR	EU	GM Scotland	8150	32	In MASTER		14	27
346	20m	CW	02-Oct-2010 20:17	1	HB9IJJ	EU	HB Switzerland	9540	31	Not in MASTER		14	28
429	20m	CW	02-Oct-2010 21:17	1	DK4YJ	EU	DL Germany	9450	29	In MASTER		14	28
438	20m	CW	02-Oct-2010 21:23	4	OK4U	EU	OK Czech Republic	9500	24	In MASTER		15	28
950	20m	CW	03-Oct-2010 14:05	1	SM5QU	EU	SM Sweden	8640	20	In MASTER		14	18
956	20m	CW	03-Oct-2010 14:08	1	F5JU	EU	F France	8890	35	In MASTER		14	27
958	20m	CW	03-Oct-2010 14:09	1	SM5CSS	EU	SM Sweden	8640	20	In MASTER		14	18
960	20m	CW	03-Oct-2010 14:11	2	ON4RO	EU	ON Belgium	8840	31	In MASTER		14	27
970	20m	CW	03-Oct-2010 14:18	1	F5NKX	EU	F France	9260	34	In MASTER		14	27
971	20m	CW	03-Oct-2010 14:20	1	OK2PAY	EU	OK Czech Republic	9520	26	In MASTER		15	28
974	20m	CW	03-Oct-2010 14:23	2	ON4RO	EU	ON Belgium	8840	31	In MASTER	Dupe	14	27
978	20m	CW	03-Oct-2010 14:29	1	DM3ZF	EU	DL Germany	9260	26	In MASTER		14	28
979	20m	CW	03-Oct-2010 14:30	1	OK1CF	EU	OK Czech Republic	9350	26	In MASTER		15	28
980	20m	CW	03-Oct-2010 14:30	1	SM5IMO	EU	SM Sweden	8580	20	In MASTER		14	18
989	20m	CW	03-Oct-2010 14:43	1	SP6NIC	EU	SP Poland	9410	24	In MASTER		15	28
992	20m	CW	03-Oct-2010 14:44	1	OK2RU	EU	OK Czech Republic	9670	24	In MASTER		15	28
993	20m	CW	03-Oct-2010 14:48	1	SM5CCE	EU	SM Sweden	8640	20	In MASTER		14	18
1004	20m	CW	03-Oct-2010 14:58	1	ES7GN	EU	ES Estonia	8860	16	In MASTER		15	29
1011	20m	CW	03-Oct-2010 15:05	1	S51AP	EU	S5 Slovenia	9800	27	Not in MASTER		15	28
1013	20m	CW	03-Oct-2010 15:07	2	OK1VD	EU	OK Czech Republic	9430	25	In MASTER		15	28
1017	20m	CW	03-Oct-2010 15:11	1	F5JSD	EU	F France	8910	33	In MASTER		14	27
1021	20m	CW	03-Oct-2010 15:16	3	HA7UG	EU	HA Hungary	9860	25	In MASTER		15	28
1062	20m	PH	03-Oct-2010 16:13	4	OK4U	EU	OK Czech Republic	9500	24	In MASTER		15	28
1083	20m	PH	03-Oct-2010 16:35	2	DL3GA	EU	DL Germany	9370	30	In MASTER		14	28
1087	20m	PH	03-Oct-2010 16:37	1	YL2BJ	EU	YL Latvia	9060	17	In MASTER		15	29
1120	20m	PH	03-Oct-2010 17:44	1	DL8UI	EU	DL Germany	9100	28	In MASTER		14	28
1134	20m	PH	03-Oct-2010 18:27	3	HA7UG	EU	HA Hungary	9860	25	In MASTER		15	28
1135	20m	PH	03-Oct-2010 18:29	1	DL7OK	EU	DL Germany	9010	29	In MASTER		14	28

SH5: Country Summary

Countries

#	Cont.	Country	Distance, km	QSOs										Bands	Propagation predictions	Map	
				CW	SSB	DIG	160	80	40	20	15	10	All				%
1	EU	DL Germany	9180	7	3					9	1		10	0.9	2	2011 2012	map
2	EU	ES Estonia	8860	1						1			1	0.1	1	2011 2012	map
3	EU	F France	9260	4						4			4	0.3	1	2011 2012	map
4	EU	G England	8570	1						1			1	0.1	1	2011 2012	map
5	EU	GM Scotland	8070	1						1			1	0.1	1	2011 2012	map
6	EU	HA Hungary	9860	3	1					3	1		4	0.3	2	2011 2012	map
7	EU	HB Switzerland	9540	1						1			1	0.1	1	2011 2012	map
8	SA	HK Colombia	6170	1						1			1	0.1	1	2011 2012	map
9	EU	I Italy	10090	2							2		2	0.2	1	2011 2012	map
10	NA	K United States	2990	624	388		9	176	153	464	206	4	1012	86.5	6	2011 2012	map
11	OC	KH6 Hawaii	3680	1	5			1	1	3	1		6	0.5	4	2011 2012	map
12	NA	KL Alaska	3520	7	3			2	2	5	1		10	0.9	4	2011 2012	map
13	EU	LY Lithuania	9210	1						1			1	0.1	1	2011 2012	map
14	EU	OK Czech Republic	9500	7	2					6	3		9	0.8	2	2011 2012	map
15	EU	ON Belgium	9010	2						2			2	0.2	1	2011 2012	map
16	SA	PY Brazil	8930	1					1				1	0.1	1	2011 2012	map
17	EU	S5 Slovenia	9800	2						2			2	0.2	1	2011 2012	map
18	EU	SM Sweden	8400	4						4			4	0.3	1	2011 2012	map
19	EU	SP Poland	9380	1						1			1	0.1	1	2011 2012	map
20	NA	VE Canada	3730	50	46			3	9	62	22		96	8.2	4	2011 2012	map
21	EU	YL Latvia	9060		1					1			1	0.1	1	2011 2012	map

9 Germany QSOs on 20M

QSO #	Band	Mode	Time	Qs	Callsign	Cont.	Country	Dist., km	Head., °	In MASTER	Dupe	CQ	ITU
44	20m	CW	02-Oct-2010 16:22	1	DJ9AO	EU	DL Germany	9270	27	In MASTER		14	28
58	20m	CW	02-Oct-2010 16:28	2	DL3GA	EU	DL Germany	9370	30	In MASTER		14	28
59	20m	CW	02-Oct-2010 16:28	2	DL3DXX	EU	DL Germany	9350	26	In MASTER		14	28
338	20m	CW	02-Oct-2010 20:09	1	DL1OLI	EU	DL Germany	9100	28	In MASTER		14	28
429	20m	CW	02-Oct-2010 21:17	1	DK4YJ	EU	DL Germany	9450	29	In MASTER		14	28
978	20m	CW	03-Oct-2010 14:29	1	DM3ZF	EU	DL Germany	9260	26	In MASTER		14	28
1083	20m	PH	03-Oct-2010 16:35	2	DL3GA	EU	DL Germany	9370	30	In MASTER		14	28
1120	20m	PH	03-Oct-2010 17:44	1	DL8UI	EU	DL Germany	9100	28	In MASTER		14	28
1135	20m	PH	03-Oct-2010 18:29	1	DL7OK	EU	DL Germany	9010	29	In MASTER		14	28

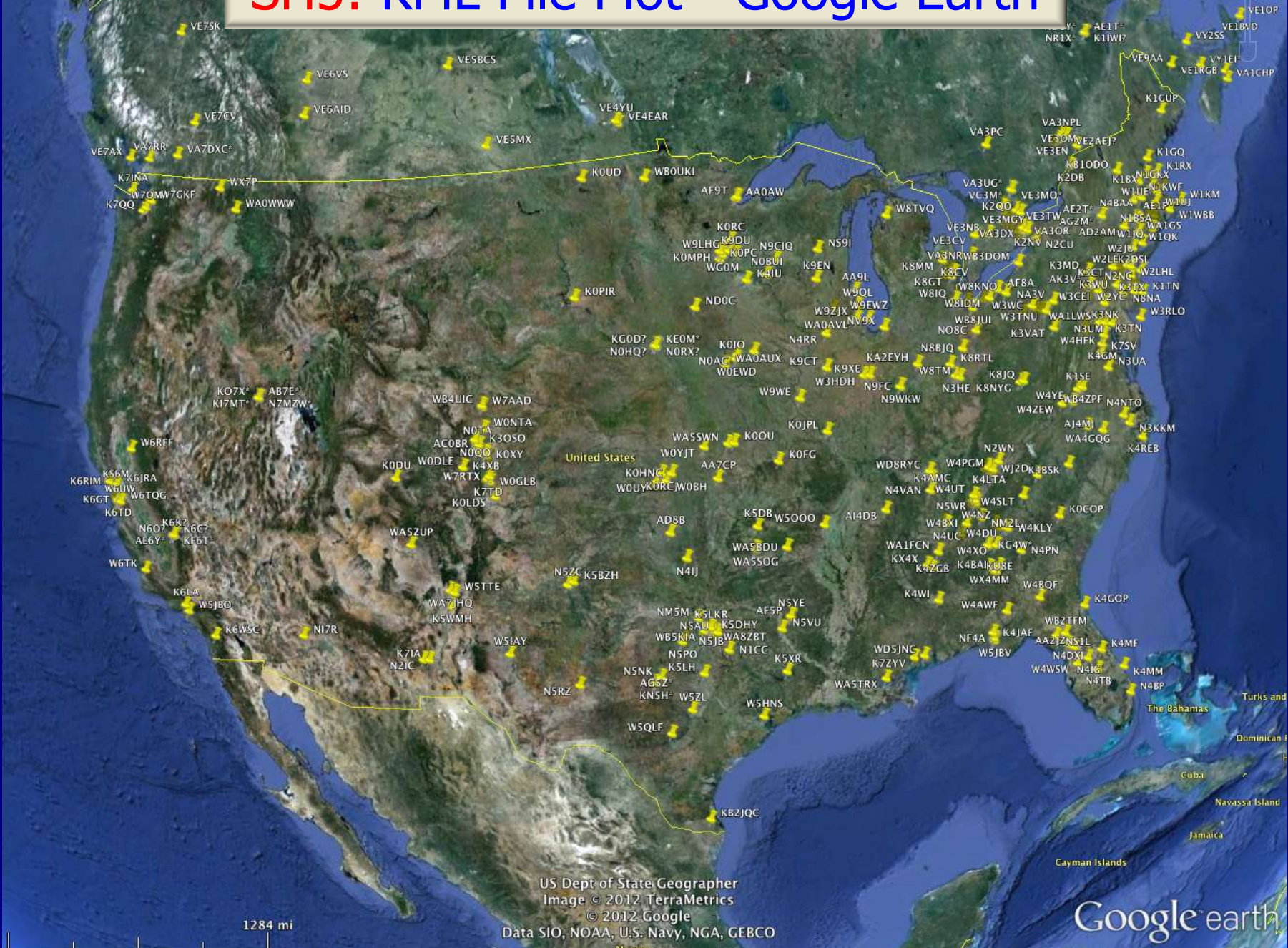
SH5: KML Files Generated Automatically

Display Geographic Data in Google Earth

KML files

Band	KML file	Size, kB
160	2010_ca-qso-party_k6mm_160.kml	1
80	2010_ca-qso-party_k6mm_80.kml	17
40	2010_ca-qso-party_k6mm_40.kml	17
20	2010_ca-qso-party_k6mm_20.kml	52
15	2010_ca-qso-party_k6mm_15.kml	21
10	2010_ca-qso-party_k6mm_10.kml	0
All	2010_ca-qso-party_k6mm_All.kml	78

SH5: KML File Plot - Google Earth



1284 mi

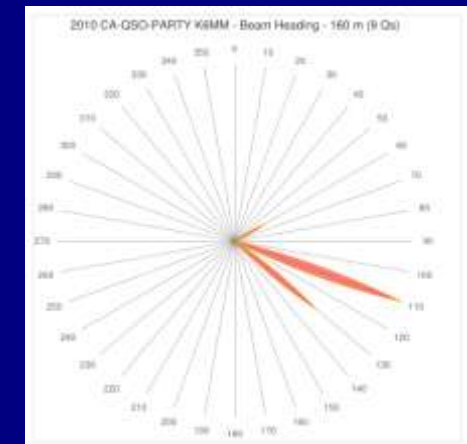
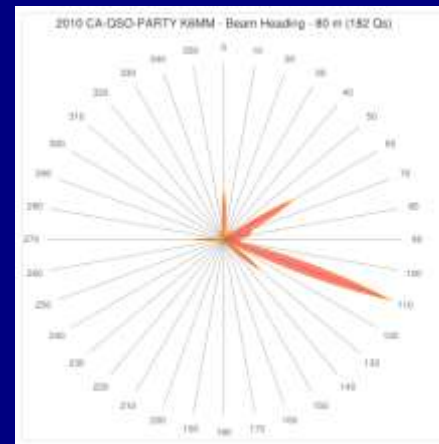
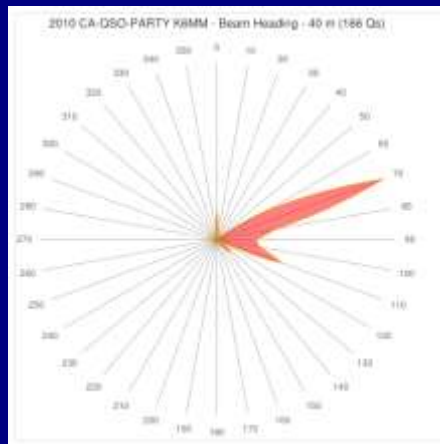
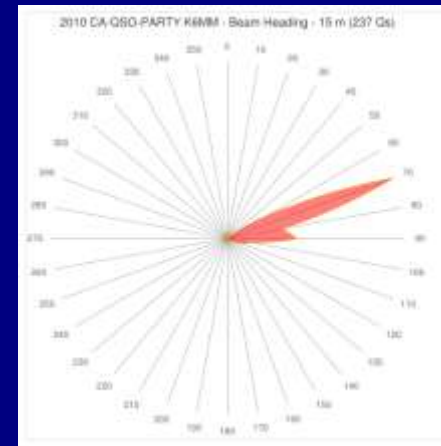
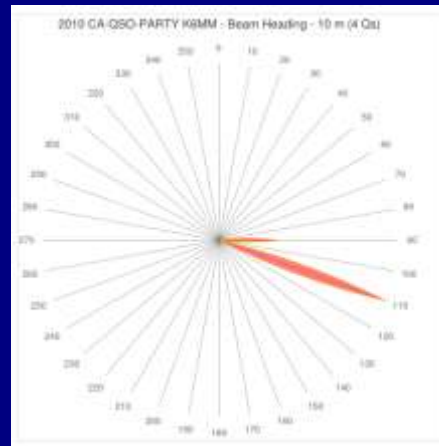
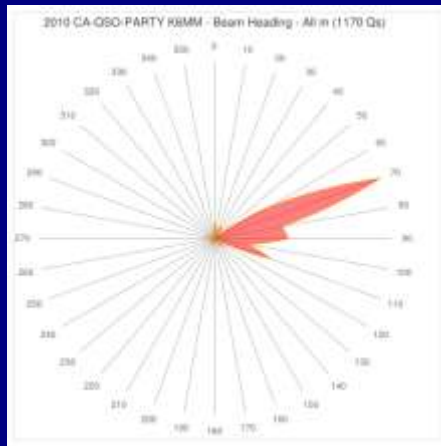
US Dept of State, Geographer
Image © 2012 TerraMetrics
© 2012 Google
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google earth

SH5: KML File Plot - Google Earth



SH5: Beam Heading Charts - By Band



SH5: Comparing Logs

- Compare two or more of your own logs for the same contest
- Compare your contest log to a public contest log
- Compare your contest log to a respected colleague's log

Compare 2 Logs: K6MM - CQP 2009 vs CQP 2010

Rates

Period, min.	QSOs	QSOs per minute	QSOs per hour	From		To	
				Time	QSO #	Time	QSO #
10	20	2.0	120	03-Oct-2009 16:04	4	03-Oct-2009 16:13	23
20	36	1.8	108	03-Oct-2009 16:04	4	03-Oct-2009 16:24	39
30	54	1.8	108	03-Oct-2009 16:02	2	03-Oct-2009 16:33	55
60	86	1.4	86	03-Oct-2009 16:00	1	03-Oct-2009 17:00	86
120	160	1.3	80	03-Oct-2009 16:04	4	03-Oct-2009 18:05	163

Rates

Period, min.	QSOs	QSOs per minute	QSOs per hour	From		To	
				Time	QSO #	Time	QSO #
10	26	2.6	156	02-Oct-2010 16:10	16	02-Oct-2010 16:19	41
20	48	2.4	144	02-Oct-2010 16:10	16	02-Oct-2010 16:30	63
30	68	2.3	136	02-Oct-2010 16:03	3	02-Oct-2010 16:33	70
60	108	1.8	108	02-Oct-2010 16:04	4	02-Oct-2010 17:04	111
120	190	1.6	95	02-Oct-2010 16:03	3	02-Oct-2010 18:03	192

CQWW WPX 2011 SSB: 4944 Public Logs



CQ World-Wide WPX Contest

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[Score Database](#) [Statistics](#) [Claimed Scores SSB](#) [Claimed Scores CW](#) [Public Logs](#)

Public Logs - CQ WPX 2011 SSB

This page contains links to all public logs for the 2011 CQ WPX SSB Contest.

Note:

- Checklogs are not included.
- All logs have had lines beginning with ADDRESS, EMAIL, and X- removed. Email addresses within the SOAPBOX fields have been blanked.
- The published logs are "as used" in the log checking process.
- All logs are in Cabrillo format. You should be able to read them using any text editor or viewer.

Scroll Down
To NF4A

Number of logs found: 4944

2E0CNL	DL7VRG	IK6GPZ	KA8HKC	N4VA	PY3FBI	SP7SZC	VU2UR
2E0PLA	DL8AX	IK7NXU	KA8NJW	N4VAN	PY3OPP	SP7TEX	VU3DJQ
2E0VKG	DL8DXL	IK7SBU	KA8Q	N4WPJ	PY3PA	SP7UWL	VY1EI
2E0WDX	DL8EAQ	IK7XNF	KA9JAC	N4WZ	PY3TIO	SP8CGU	VY2MGY
2E1FVS	DL8LR	IK8MYM	KA9MOM	N4YT	PY4DK	SP8DHJ	VY2ZM
2M0CFB	DL8QS	IK8NSR	KA9O	N4ZAK	PY4EK	SP8HXN	W0BH
3D2A	DL8UAA	IK8UND	KA9OBZ	N4ZZ	PY4RGS	SP8LBK	W0BM
3G1C	DL8WJM	IN3ADW	KB0NHW	N5AW	PY4XX	SP8LXE	W0CEM
3V1A	DL8YR	IN3FHE	KB1FRK	N5DGG	PY4ZO	SP8NR	W0DN
3V8SS	DL8ZAW	IN3HUU	KB1P	N5DO	PY5AB	SP8QJM	W0ERP
4D1HR	DL9DYL	IN3MNS	KB1REQ	N5DTT	PY5KC	SP8TDV	W0ETT
4H1T	DL9EO	IN3UFW	KB1SUN	N5DY	PY5KW	SP8UFB	W0GAF
4K6FO	DL9GWD	IO2Z	KB1TBU	N5JR	PY5QW	SP9AQF	W0HBH
4K7Z	DL9HD	IO4C	KB1THU	N5LTM	PY7GK	SP9BGS	W0KIT
4K8M	DL9KI	IO4UI	KB1UMM	N5RR	PY7VI	SP9CLO	W0MU
4K9W	DL9LF	IO5O	KB2NGK	N5VU	PY7XC	SP9CLU	W0NFS
4L4CC	DL9LM	IO9E	KB3LIX	N6AJR	PY7ZBK	SP9DEM	W0QVM
4L6DI	DL9NDV	IO7L	KB3QTA	N6AN	PY7ZY	SP9DSD	W0RAN

Main

Parameter	
Callsign	NF4A
Country	United States
Locator	EM73
Sunrise	☉ 11:36
Sunset	☎ 23:56
Contest	CQ-WPX-SSB (55 th)
Category	SINGLE-OP ALL SSB HIGH
Operators	NF4A
Start date	26-Mar-2011 00:00
End date	27-Mar-2011 23:59
Operating time	47:59 (2879 min.)
Break time	21:21 (1281 min., 44.49 %)
QSOs	1,986
Second Radio QSOs	0 (0.00 %)
Dupes	4 (0.20 %)
Unique callsigns	1,625
QSOs per station	1.22
Kilometers per QSO	5,616 km
Countries	119
Locators	87 (26.85 %)
Moves	25
Claimed score	4,684,792 pts
Software	Win-Test 4.7.0
Sunspot number (SSN)	104
Callsigns not found in sh5.master	102 (6.28%)
Prefixes	931

CQWW WPX 2011 SSB: Charlie Wooten, NF4A

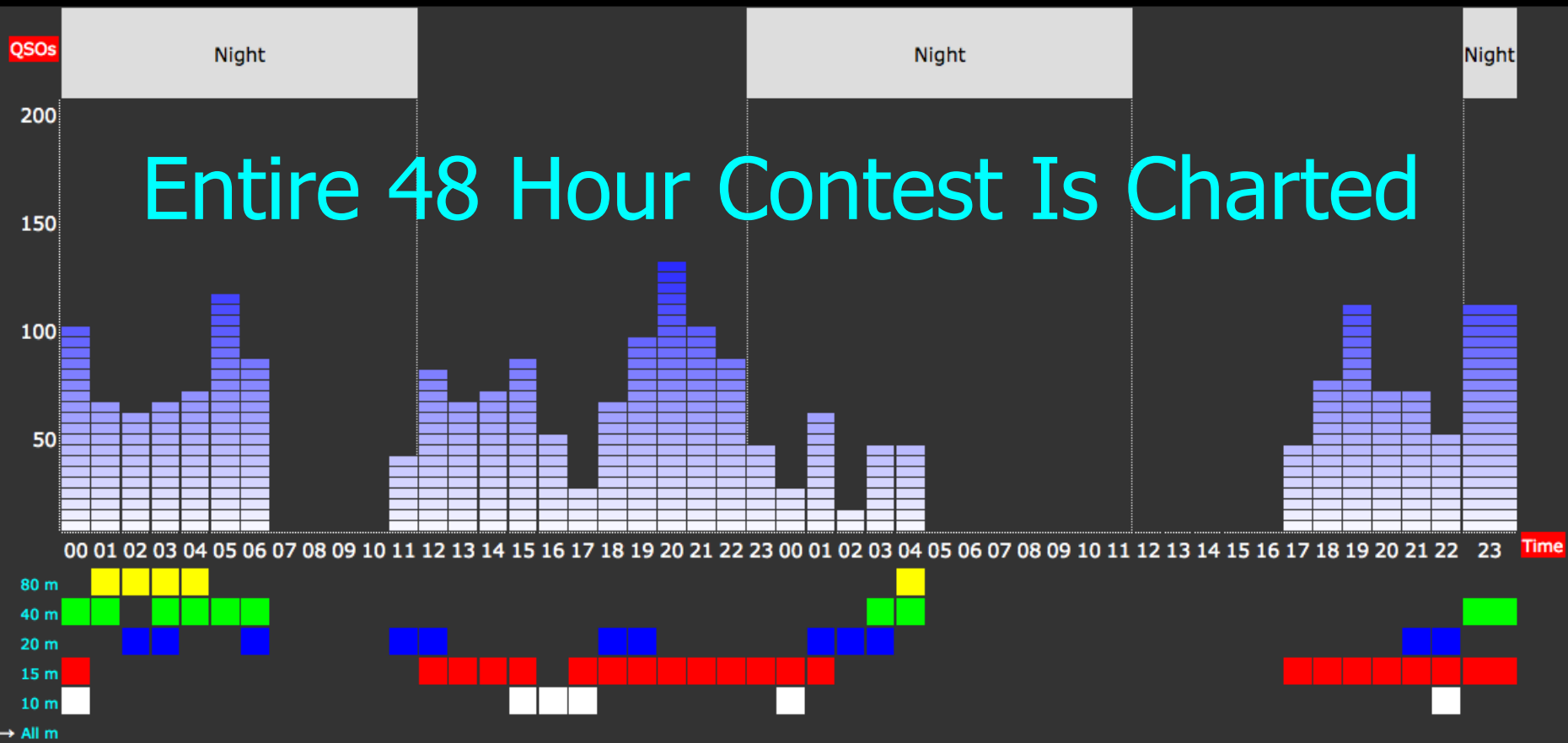
- 47h 59m Op Time
- 21h 21m Break Time
- 1986 QSOs
- 4 Dupes
- 1625 Unique Callsigns
- 119 Countries
- 102 Callsigns (6%)
Not in Master DX File
- 931 Unique Prefixes

CQWW WPX 2011 SSB: Charlie Wooten, NF4A

printable

PX-SSB NF4A

Qs by hour-All



4 Log Comparison

North American QSO Party (NAQP)
2011 RTTY Contest

All NCCC Members

John, K6MM

Kevin, K6TD

Stu, K6TU

Ron, N6EE

2011 NAQP RTTY: Rules

1. Operating Time vs Break Time

- Contest Duration: 12 Hours Total = 720 minutes
- Single Operator: Maximum of 10 out of 12 Hours
- Off time: 2 Hours = 120 minutes
- Off times must be minimum of 30 minutes
- Net operating time: 10 hours = 600 minutes

2. Strategy: Calling CQ vs Search & Pounce

3. Band Changes: How Often, Which Bands

SH5: 2011 NAQP-RTTY: QSO-Band Summary

NAQP-RTTY K6MM 470 Qs
56,280 pts

Summary

Band	Time, HH:mm	CW		Phone		Digital		All		Countries
		QSOs	%	QSOs	%	QSOs	%	QSOs	%	
160										
80	00:29					32	6.8	32	6.8	2
40	02:06					111	23.6	111	23.6	3
20	04:44					255	54.3	255	54.3	5
15	01:02					71	15.1	71	15.1	2
10						1	0.2	1	0.2	1
All	08:21					470	100.0	470	100.0	5

NAQP-RTTY K6TD 472 Qs
60,372 pts

Summary

Band	Time, HH:mm	CW		Phone		Digital		All		Countries
		QSOs	%	QSOs	%	QSOs	%	QSOs	%	
160										
80	00:24					25	5.3	25	5.3	1
40	03:03					173	36.7	173	36.7	4
20	03:42					222	47.0	222	47.0	4
15	00:57					46	9.7	46	9.7	3
10	00:11					6	1.3	6	1.3	2
All	08:17					472	100.0	472	100.0	8

NAQP-RTTY K6TU 408 Qs
51,408 pts

Summary

Band	Time, HH:mm	CW		Phone		Digital		All		Countries
		QSOs	%	QSOs	%	QSOs	%	QSOs	%	
160										
80	00:44					31	7.6	31	7.6	2
40	02:49					149	36.5	149	36.5	4
20	03:16					151	37.0	151	37.0	4
15	01:20					71	17.4	71	17.4	2
10	00:03					6	1.5	6	1.5	2
All	08:12					408	100.0	408	100.0	5

NAQP-RTTY N6EE 481 Qs
64,800 pts

Summary

Band	Time, HH:mm	CW		Phone		Digital		All		Countries
		QSOs	%	QSOs	%	QSOs	%	QSOs	%	
160										
80	00:44					40	8.3	40	8.3	2
40	03:16					181	37.6	181	37.6	5
20	03:14					180	37.4	180	37.4	8
15	01:27					79	16.4	79	16.4	4
10						1	0.2	1	0.2	1
All	08:41					481	100.0	481	100.0	9

- QSO Analysis: # and %
- Breakdown by Band, Mode
- Total Time spent on each Band

SH5: 2011 NAQP-RTTY – Breaks Between QSOs

NAQP-RTTY K6MM

470 Qs

56,280 pts

Break time

#	From		To		Break time, min.	Total
	Time	QSO #	Time	QSO #		
1	16-Jul-2011 19:48	107	16-Jul-2011 19:55	108	7	00:07
2	16-Jul-2011 20:44	161	16-Jul-2011 20:59	162	15	00:22
3	16-Jul-2011 21:08	172	16-Jul-2011 21:14	173	6	00:28
4	16-Jul-2011 21:16	175	16-Jul-2011 21:22	176	6	00:34
5	16-Jul-2011 21:59	197	16-Jul-2011 22:10	198	11	00:45
6	17-Jul-2011 00:42	326	17-Jul-2011 00:48	327	6	00:51
7	17-Jul-2011 01:20	347	17-Jul-2011 01:25	348	5	00:56
8	17-Jul-2011 01:31	350	17-Jul-2011 02:18	351	47	01:43
9	17-Jul-2011 02:23	355	17-Jul-2011 02:34	356	11	01:54
10	17-Jul-2011 02:52	370	17-Jul-2011 04:09	371	77	03:11
11	17-Jul-2011 04:25	383	17-Jul-2011 04:30	384	5	03:16
12	17-Jul-2011 04:39	395	17-Jul-2011 04:45	396	6	03:22

NAQP-RTTY K6TD

472 Qs

60,372 pts

Break time

#	From		To		Break time, min.	Total
	Time	QSO #	Time	QSO #		
1	16-Jul-2011 20:15	148	16-Jul-2011 20:20	149	5	00:05
2	16-Jul-2011 20:38	157	16-Jul-2011 20:43	158	5	00:10
3	16-Jul-2011 21:33	200	16-Jul-2011 23:40	201	127	02:17
4	17-Jul-2011 00:37	239	17-Jul-2011 00:42	240	5	02:22
5	17-Jul-2011 01:23	272	17-Jul-2011 01:28	273	5	02:27
6	17-Jul-2011 01:33	275	17-Jul-2011 02:20	276	47	03:14
7	17-Jul-2011 03:24	344	17-Jul-2011 03:30	345	6	03:20
8	17-Jul-2011 05:39	461	17-Jul-2011 05:44	462	5	03:25

NAQP-RTTY K6TU

408 Qs

51,408 pts

Break time

#	From		To		Break time, min.	Total
	Time	QSO #	Time	QSO #		
1	16-Jul-2011 18:28	31	16-Jul-2011 18:37	32	9	00:09
2	16-Jul-2011 18:55	47	16-Jul-2011 19:00	48	5	00:14
3	16-Jul-2011 19:05	51	16-Jul-2011 19:16	52	11	00:25
4	16-Jul-2011 19:51	73	16-Jul-2011 20:04	74	13	00:38
5	16-Jul-2011 20:59	129	16-Jul-2011 21:04	130	5	00:43
6	16-Jul-2011 21:04	130	16-Jul-2011 21:09	131	5	00:48
7	16-Jul-2011 21:57	158	16-Jul-2011 22:03	159	6	00:54
8	16-Jul-2011 22:03	159	16-Jul-2011 22:11	160	8	01:02
9	16-Jul-2011 22:39	183	16-Jul-2011 22:44	184	5	01:07
10	16-Jul-2011 23:53	226	16-Jul-2011 23:58	227	5	01:12
11	16-Jul-2011 23:58	227	17-Jul-2011 02:13	228	135	03:27
12	17-Jul-2011 03:40	296	17-Jul-2011 03:45	297	5	03:32

NAQP-RTTY N6EE

481 Qs

64,800 pts

Break time

#	From		To		Break time, min.	Total
	Time	QSO #	Time	QSO #		
1	16-Jul-2011 19:19	68	16-Jul-2011 19:27	69	8	00:08
2	16-Jul-2011 20:09	101	16-Jul-2011 20:15	102	6	00:14
3	16-Jul-2011 20:15	102	16-Jul-2011 20:23	103	8	00:22
4	16-Jul-2011 20:39	111	16-Jul-2011 20:44	112	5	00:27
5	16-Jul-2011 22:00	175	16-Jul-2011 23:03	176	63	01:30
6	16-Jul-2011 23:45	214	16-Jul-2011 23:51	215	6	01:36
7	17-Jul-2011 00:12	230	17-Jul-2011 00:17	231	5	01:41
8	17-Jul-2011 00:22	234	17-Jul-2011 00:28	235	6	01:47
9	17-Jul-2011 01:04	273	17-Jul-2011 01:10	274	6	01:53
10	17-Jul-2011 01:30	290	17-Jul-2011 02:05	291	35	02:28
11	17-Jul-2011 03:59	392	17-Jul-2011 04:04	393	5	02:33
12	17-Jul-2011 04:09	397	17-Jul-2011 04:16	398	7	02:40
13	17-Jul-2011 05:43	472	17-Jul-2011 05:49	473	6	02:46

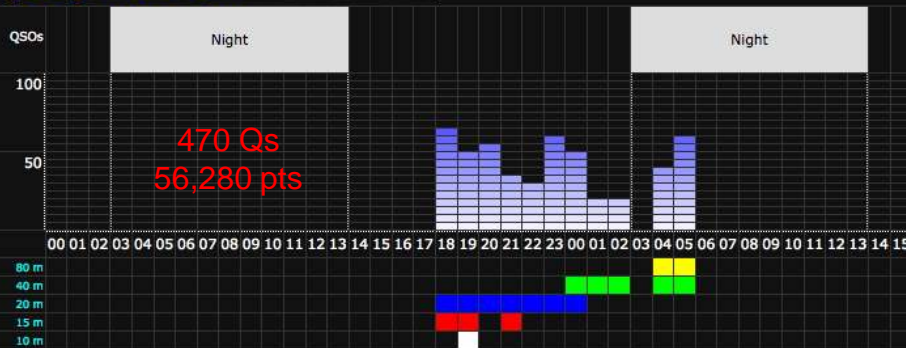
Off-Time Strategy

Net Operating Time: 10 Hours – (Intentional Breaks + Wasted Time)

SH5: 2011 NAQP-RTTY – Qs By Hour

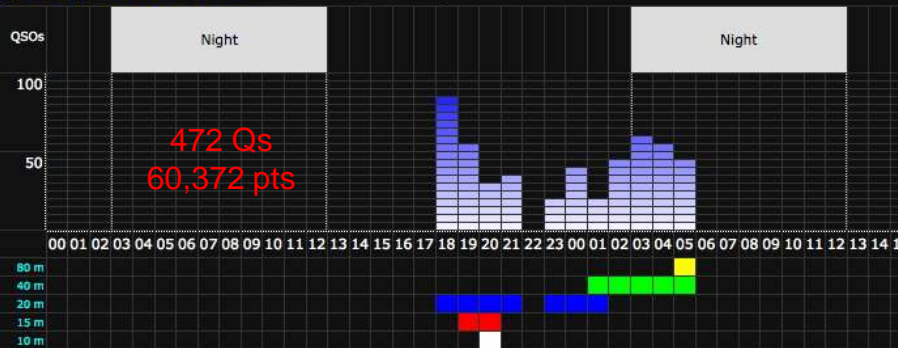
RTTY K6MM

Qs by hour-All



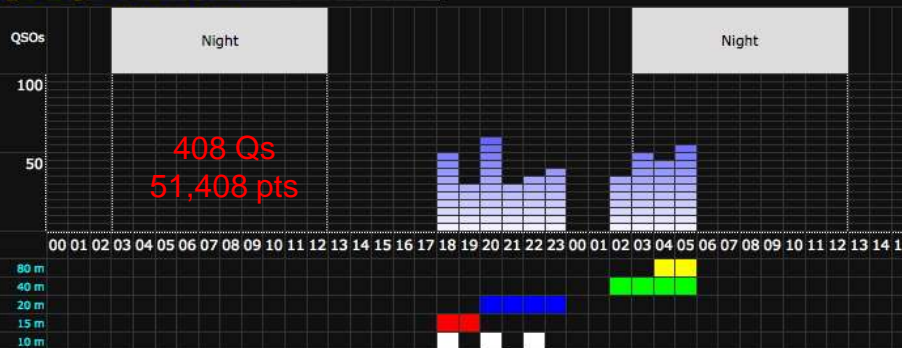
RTTY K6TD

Qs by hour-All



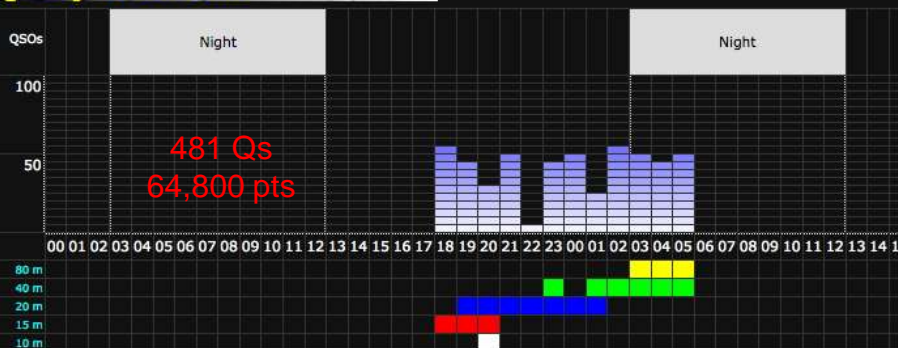
RTTY K6TU

Qs by hour-All



RTTY N6EE

Qs by hour-All



Band Strategy: How much time spent on each band?

SH5: Summary

- (+) Attractive user interface
- (+) Excellent Charts, Tables, Graphs
- (+) Easy to use and understand results
- (+) Can check any contest
- (+) Great for comparative analyses
- (+) 49 Reports linked as HTML files for offline viewing
- (-) Can only display one log at a time
- (-) No user manual or documentation
- (-) Registration is \$20.00



Overall: Outstanding log analyzer

Log Analyzer #3

RCSS
(KØRC Spreadsheets)

Author:
Bob Chudek, KØRC

RCSS

- Series of customized Excel spreadsheets for specific contests
- **ARRL:** 160M, DX, Field Day, RTTY, Sweepstakes
- **OK DX RTTY**
- **QSO Parties:** CA, FL, IA,, MN, ND, WI
- Resulting statistics and charts generated automatically
- Can compare any 2 logs simultaneously
- **Bonus:** Built-in Roster check for Club Members!

RCSS

2nd Log

Reports, log searches, hourly rates

This tool is for the California QSO Party Contest logs only!
The information below was retrieved from the imported log(s)

Log 1 = K6MM		Log 2	
Imported!		Empty!	
Callsign	K6MM	Callsign	
First QSO Date	2-Oct-2010	First QSO Date	
First QSO Time	16:00	First QSO Time	
Mode CW	721	Mode CW	
Mode FM		Mode FM	
Mode PH	449	Mode PH	
Mode RY		Mode RY	
Total QSOs	1170	Total QSOs	
My Start QTH	CA	My Start QTH	

Log 1 QSO Summary		Log 2 QSO Summary	
CA Counties	44	CA Counties	
US States	49	US States	
RAC Sections	7	RAC Sections	
DX QSOs	63	DX QSOs	

Enter a callsign and press Enter to search Log 1 and Log 2 The standard ? and * wildcard characters can be used.		
Lookup a callsign	Hits	Hits
k6*	55	
Lookup a callsign	Hits	Hits
N6*	41	
Lookup a callsign	Hits	Hits
w6*	39	

California QSO Party Log Analyzer

Contest	Log 1	Log 2
Begin Date:	2-Oct-2010	
Begin Day:	Saturday	
Begin UTC:	16:00	16:00
End Date:	3-Oct-2010	
End Day:	Sunday	
End UTC:	22:00	22:00
Duration (hh:mm)	30:00	

© 2009 by Robert Chudek - KØRC

Enter birthdate (mm-dd-yyyy)	Jan 01, 1945
This is the weekday you were born:	Monday

This is your age in years, months, and days:

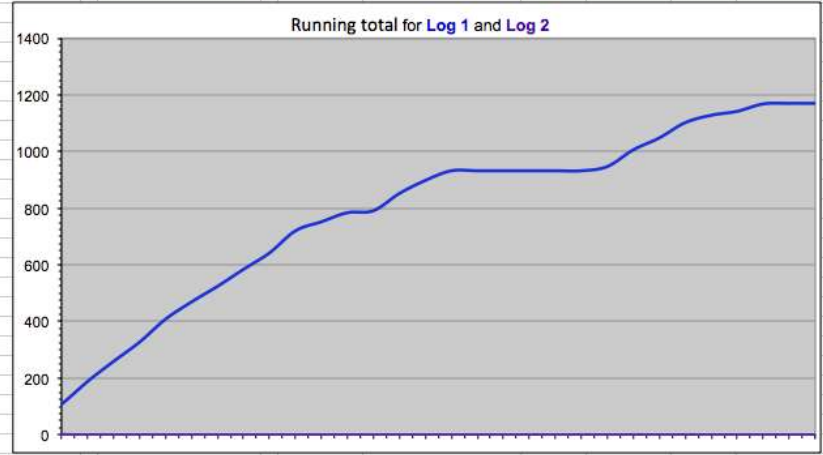
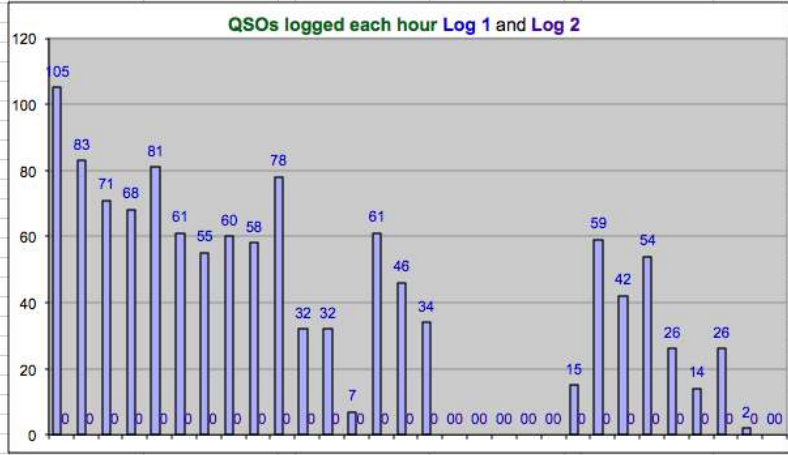
Years	67
Months	3
Days	8

You have been alive for approximately:

Solar cycles	6.14
Years	67.27
Months	807.26
Weeks	3,498.14
Days	24,571.06
Hours	589,705.50
Minutes	35,382,330.00
Seconds	2,122,939,800.00

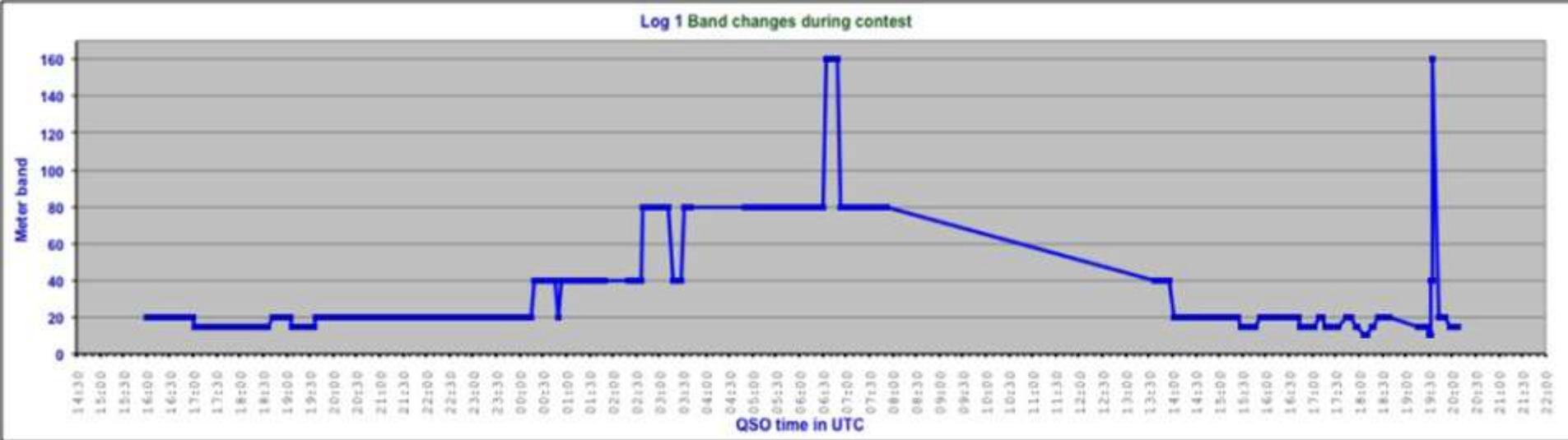
Contest Period	Contest Date and UTC	Log 1 QSOs	Running total	Log 2 QSOs	Running total
1	02-Oct-2010 16:00	105	105		
2	02-Oct-2010 17:00	83	188		
3	02-Oct-2010 18:00	71	259		
4	02-Oct-2010 19:00	68	327		
5	02-Oct-2010 20:00	81	408		
6	02-Oct-2010 21:00	61	469		
7	02-Oct-2010 22:00	55	524		
8	02-Oct-2010 23:00	60	584		
9	03-Oct-2010 00:00	58	642		
10	03-Oct-2010 01:00	78	720		
11	03-Oct-2010 02:00	32	752		
12	03-Oct-2010 03:00	32	784		
13	03-Oct-2010 04:00	7	791		
14	03-Oct-2010 05:00	61	852		
15	03-Oct-2010 06:00	46	898		
16	03-Oct-2010 07:00	34	932		
17	03-Oct-2010 08:00		932		
18	03-Oct-2010 09:00		932		
19	03-Oct-2010 10:00		932		
20	03-Oct-2010 11:00		932		
21	03-Oct-2010 12:00		932		
22	03-Oct-2010 13:00	15	947		
23	03-Oct-2010 14:00	59	1006		
24	03-Oct-2010 15:00	42	1048		
25	03-Oct-2010 16:00	54	1102		
26	03-Oct-2010 17:00	26	1128		
27	03-Oct-2010 18:00	14	1142		
28	03-Oct-2010 19:00	26	1168		
29	03-Oct-2010 20:00	2	1170		
30	03-Oct-2010 21:00		1170		
OVER!	03-Oct-2010 22:00				
		238		0	

15 Data Tabs



RCSS

Band Changes During Contest



RCSS

Counties By Band & Mode

County list	Cty Code	Total QSOs	160		80		40		20		15		10		Total	
			CW	PH	CW	PH	CW	PH	CW	PH	CW	PH	CW	PH		
Alameda	ALAM	4			1				2	1				2	2	
Alpine	ALPI	2				1								1	1	
Amador	AMAD	4			2	2								2	2	
Butte	BUTT															
Calaveras	CALA	4				3	1							1	3	
Colusa	COLU															
Contra Costa	CCOS	9	1		1	2	1		1	1		1	1	5	4	
Del Norte	DELN	1				1									1	
El Dorado	ELDO	3		1		1			1					1	2	
Fresno	FRES	2			2									2		
Glenn	GLEN															
Humboldt	HUMB	4			1	3								1	3	
Imperial	IMPE	1				1									1	
Inyo	INYO	5	1		1	2	1							3	2	
Kern	KERN	1				1									1	
Kings	KING															
Lake	LAKE	2			1		1							2		

County list	Cty Code	Total QSOs	160		80		40		20		15		10		Total	
			CW	PH	CW	PH	CW	PH	CW	PH	CW	PH	CW	PH		
Alameda	ALAM	4	0	0	1	0	0	0	0	2	1	0	0	2	2	
Alpine	ALPI	2	0	0	0	1	1	0	0	0	0	0	0	1	1	
Amador	AMAD	4	0	0	2	2	0	0	0	0	0	0	0	2	2	
Butte	BUTT															
Calaveras	CALA	4	0	0	0	3	1	0	0	0	0	0	0	1	3	
Colusa	COLU															
Contra Costa	CCOS	9	1	0	1	2	1	0	1	1	0	1	1	5	4	
Del Norte	DELN	1	0	0	0	1	0	0	0	0	0	0	0		1	
El Dorado	ELDO	3	0	1	0	1	0	0	1	0	0	0	0	1	2	
Fresno	FRES	2	0	0	2	0	0	0	0	0	0	0	0	2		

San Mateo	SMAT	8			1	1			1	2		2	1		3	5
Santa Barbara	SBAR	1			1										1	
Santa Clara	SCLA	39	2		6	2	4	1	7	9	3	3	1	1	23	16
Santa Cruz	SCRU	9			2	2		1	2	2				4	5	
Shasta	SHAS															
Sierra	SIER	2			1	1								1	1	
Siskiyou	SISK	3			1	2								1	2	
Solano	SOLA	4				4									4	
Sonoma	SONO	6			1	4					1			2	4	
Stanislaus	STAN	1									1			1		
Sutter	SUTT															
Tehama	TEHA	4			2	1	1							3	1	
Trinity	TRIN	1				1									1	
Tulare	TULA															
Tuolumne	TUOL															
Ventura	VENT	3			1	1	1							2	1	
Yolo	YOLO															
Yuba	YUBA	2			1	1								1	1	
CA QSOs CW		112	7		48		29		17		8		3		112	
CA QSOs Phone		97		2		68		4		16		6		1		97
CA QSOs Total		209		9		116		33		33		14		4		209

Counties on CW			5		31		20		9		6		3		37	
Counties on PH				2		34		3		5		3		1		35
Counties Total	Max=58	44		6		42		21		10		8		3		44

KØRC Spreadsheets: Summary

- (+) Highly customized for the selected contest
- (+) Shows Rates, QSOs, Bands, Mults, Modes
- (+) Evaluates 2 logs simultaneously
- (+) Built-In Club Roster checker
- (+) Continuous improvement by KØRC
- (-) Limited to a few select contests
- (-) 15 tabs of data. Managing large volumes of data in spreadsheet form can be tedious at times
- (-) Need to have Excel installed on computer



Overall: Good log analyzer

Log Analyzer #4

LogView

Author:

Tim Makins, EI8IC

LogView

- Web-Based Log Visualization Tool
- Plots Qs on to one of 8 different maps
- Online database of 1M+ W/VE callsigns
- Shows your QSO build-up over time
- Step through log manually or via animation
- Keep a running count of Multipliers worked
- Display all or selected bands
- Save map for offline viewing and analysis
- Highlight gaps in your antenna coverage

4. LogView: Summary

(+) FREE

(+) Unique Visualization Tool

(+) Replay your entire contest in “real time”, QSO-by-QSO

(+) QSO patterns are one measure of antenna effectiveness

(-) Can only plot W/VE callsigns. No DX database.

Overall: Pure Eye Candy



Bonus

Global Overlay Mapper
(GOM)

Author:

Tim Makins, EI8IC

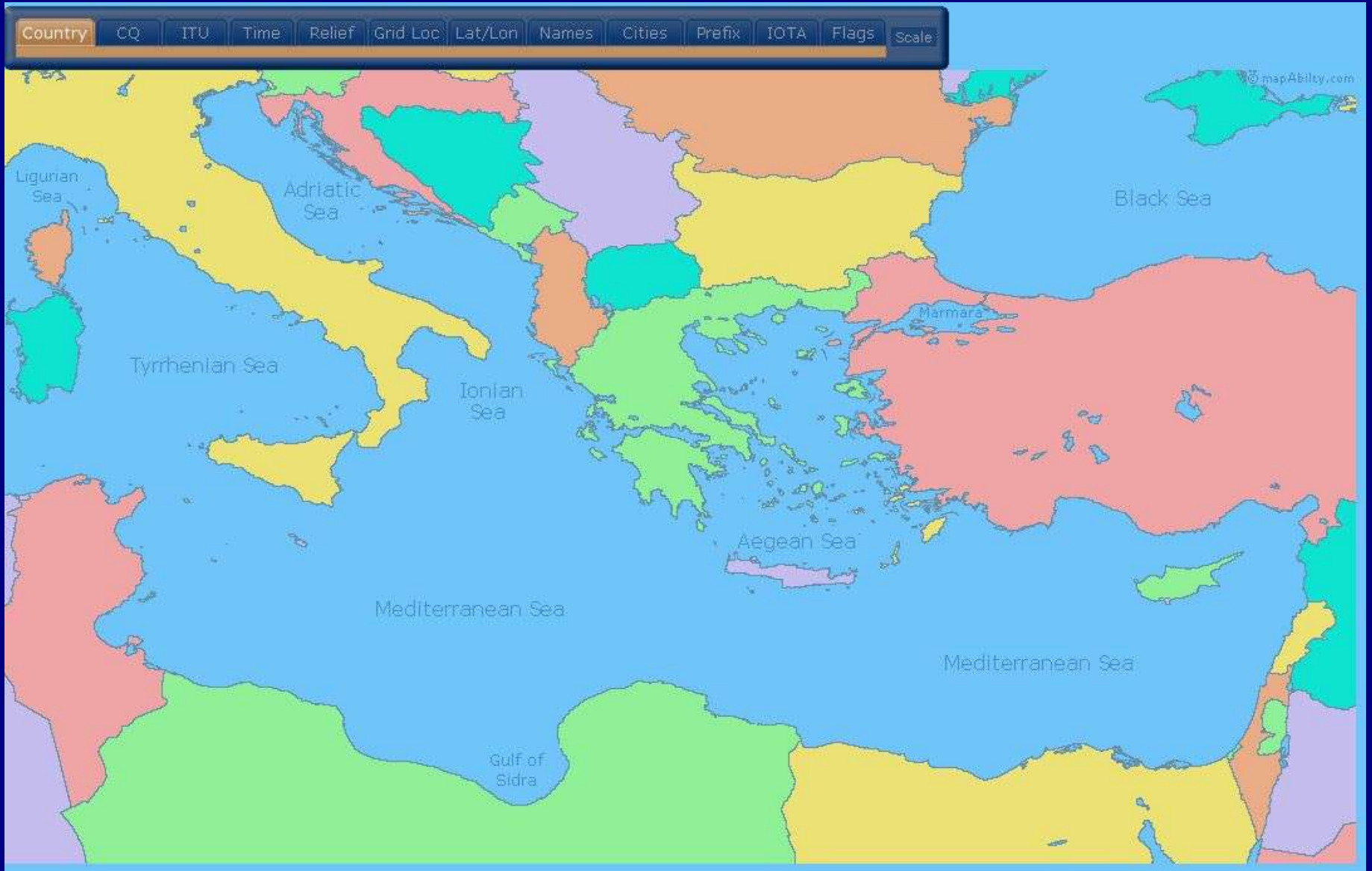
Global Overlay Mapper (GOM)

- Series of pre-structured Overlay Maps
- 1 World Map
- 8 Continental + 29 Sub Continental Maps
- Background, 12 active layers, and custom Scalebar
- Country Outlines, CQ, ITU & Time Zones, Color Relief Map, Grid Locator & Lat/Lon meshes
- 2204 Major Cities
- The latest Prefix, IOTA, and Flag Information

Global Overlay Mapper (GOM)

The screenshot displays the Global Overlay Mapper (GOM) software interface. The title bar reads "Global Overlay Mapper" and includes a system clock showing "10:01:39". The menu bar contains "North America", "South America", "Europe", "Africa", "Asia", "Oceania", "Polar", "World", "Locate", and "Help". The "Europe" menu is open, showing a list of regions: "Europe", "Scandinavia", "North-West Europe", "North-East Europe", "West Mediterranean", and "East Mediterranean". The "East Mediterranean" option is currently selected. Below the menu, there is a toolbar with buttons for "Country", "CQ", "IT", "Grid", "Grid Loc", "Lat/Lon", "Names", "Cities", "Prefix", "IOTA", "Flags", and "Scale". The main map area shows a map of North America with labels for "Baffin Bay", "Hudson Bay", "Labrador Sea", "Atlantic Ocean", "Sargasso Sea", "Caribbean Sea", "Gulf of Mexico", "Pacific Ocean", and "Gulf of Alaska".

Eastern Mediterranean



Eastern Mediterranean: Names



Eastern Mediterranean: Names + Cities



Eastern Mediterranean: IOTA



Eastern Mediterranean: Names + Flags



Post-Contesting Log Analyzers: Why Bother?

- **Manage Operating Time**
 - Manage Break Times carefully
 - Minimize Wasted Time
 - **Maximize Net Operating Time** = Maximum Allowed Time – (Required Breaks + Wasted Time)
- **Improve Skills & Technique**
 - Calling CQ vs Search & Pounce
 - Copying exchanges accurately
 - Manage Band Changes
- **Check Station Efficiency**

Log Analyzers

- No “ideal” solution – but several very good log analyzers available in different formats
- Most are Free or very low cost
- Many useful ways to review your data
- Can provide valuable feedback on your operating strategy, technique and station efficiency
- Boost the **Fun Factor** in Contesting

Bottom Line

- Working the contest and sending in that Log was the most difficult part
- Taking some time to further analyze your log now might just boost your next score by 20-30%
- Put another way.....

Release that **Gorilla...**

In your **Cabrill-a**

And you just might

Improve your **Skilla!**





References

<http://nccc.cc>

NCJ
National Contest Journal
March/April 2012
pp. 31-35

Resources		
Here are links to some useful ham radio and contesting websites.		
<p>Contest Calendars ARRL Contest Page LA9HW Contest Calendar WA7BNM Contest Calendar SM3CER Contest Service YK4DX Contest Calendar</p> <p>Contest Clubs MVDXCC - Mississippi Valley DX/Contest Club MLDXCC - Mother Lode DX/Contest Club NTCC - North Texas Contest Club TDXS - Texas DX Society CCO - Contest Club Ontario CNCG - Cinco Nueve Contest Group MCC - Marconi Contest Club (Italy) YCCC - Yankee Clipper Contest Club TCG - Tennessee Contest Club PVRC - Potomac Valley Radio Club MRRC - Mad River Radio Club NCCC - Northern California Contest Club NCDXC - Northern California DX Club FRC - Frankford Radio Club REDXA - Redwood Empire DX Association</p> <p>Contest Software CT NA TR WriteLog N1MM Logger CT File Archive Q-rate CT Simulators Log Converter Contest Log Converter WT4I Contest Tools MMTTY RTTY Software CW Contest Trainer Morse Runner</p> <p>Post-Contest Log Analyzers CBSW (Cabrillo Statistics Program) SH5 KORC Spreadsheets LogView Cabrillo Log Evaluator Global Overlay Mapper</p>	<p>Miscellaneous AC6V's Ham Radio and DX Reference Guide Amateur Radio Contesting FAQ eHam.net eHam.net Links Fonts For Amateur Radio Honda EU2000i Generator Maintenance H.R. 1478 - Congressional Antenna Bill List of Recommended Suppliers Mariana Islands DX Association NG3K Amateur Radio Contest/DX Page SETI@home WP3C Homepage and DX Reference "Managing Interstation Interference"</p> <p>Propagation HFRadio.org Propagation Center Propagation Information Live Propagation Data and Forecasts 27 Day Propagation Forecast Space Environment Center G3USF's HF Beacon List</p>	<p>NCCC Member Pages Northern California Contest Club members: Send your home page link to K6MM for inclusion here.</p> <p>A6GY - P40L - P49Y - Andy Faber K6DGW - Fred Jensen K6IF - Dan Levin K6MM - John Miller N6EE - Ron Lodewyck N6XI - Rick Tavan K6XX - Bob Wolbert K7XC - Tim Marek K9YC - Jim Brown N6GQ - Jeff Kinzli W0YK - Ed Muns W6ONV - Steve Toumi WA6BOB - John Orton ("Bob" on the air)</p> <p>State QSO Parties: 7th District California Florida Michigan New England Ohio Pennsylvania Texas</p>

