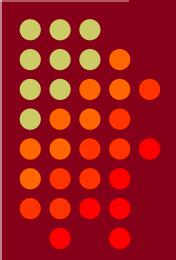
# Why Cabrillo is Important to You

Randy Thompson, K5ZD







### Purpose of this Session



- History of the Cabrillo log specification
- Cabrillo log file basics
- How the log submission process works





### "Contest Log" - 1980



1	-		1	-	18	100	1	100	18	-		100	-	100	-	-	11	187	100			III.	-	100	100	-	-				12	12	-	1		11					1	M.	H.	<b>II</b> .	48.	78	理人	Th.	- III	All h	100	100	
																	ID .	100					MD S	<b>3</b> 3 .					100					<b>36</b> -	<b>3</b>	<b>1</b> h		13		D		10		<b>M</b> D	- ALD		10	1		W	110	110	
- Alb	-	An.	-	de	and the	100	and the	100	Apr.	Am.	100	400	· w	- ATh	·w	·	age .	an .	w ·	w.	au ·	w	eur 🗀	w ·	dis	ALP.	-dh	Ab.	W	100	W.	-	-	AND .	-	an .	All A		1300	of the	Alb.	40	4,	-									

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REI SENT	PORT REC'D	TIME OFF	QТН		COMMENTS NAME	QSL VIA	Q: S	SL R
11/12	2.1	558	KW	0320	JAIYDU				082	12				
					JA9CW J			~	3	30				
					JRIBUV				4	10				
					JNINDY				5	10				
			,	22	JJ3IMX				6	24				
				22	JASDOH				7	37				
				23	JH4NMT				8	35			,	
				24	JAIRLM				9	12				
				26	JOIKSD			-,	090	10			-	
				26	JH4JW1				1	35		,		
				27	JRILGP	55			2	17				L
				28	JAIKTI				3	10				
	7	cw		33	OKIKSO					28				
				41	5470-L					46	OSL YASME			
				44	HABPT					28				
. "				44	YZIEF					28				L
				45	LZIDZ					28				
				45	OKIOPT					28				
				46	OK3CGN					28				
				46	OKIMNV					28	*			
			,	47	OKZ011		1		,	28				
				48	okzzu					28		,		
				49	OK3RJB					28				
				49	OKIPUA/P					28				
17/2		1	Year of	51	OKIDOH					28	*			





### Contest Log - 1986





#### (do not write above this line)

#### ARRL INTERNATIONAL DX CONTEST

CW Third FULL weekend in February-Phone First FULL weekend in March

CALL USED K3TUP PHONE □

ARRL SECTION (p. 8 QST) WPA

DXCC

Countries

30

Separate logs and summaries must be submitted for each mode of operation.

☐ Novice/Technician

Single operator All band

- ☐ Single band (circle one) 160 80 40 20 15 10
- ☐ QRP (5W or less output)

Multioperator

- ☐ Single transmitter ☐ Two transmitter
- □ Unlimited Multiops list ALL operators:

	- /	
80	212	66
40	496	80
20	742	80
15	659	78
10	39	24
Total	2182	358

34

Please enclose logs, dupe sheets, photos and soapbox comments with your entry and mail within 30 days after the phone contest to: ARRL Contest Branch, 225 Main Street, Newington, CT 06111.

(DXCC Countries)

2,343,468

Claimed Score

POWER OUTPUT-CHECK ANY USED:

☐ 5 watts or less

Over 150

AFFILIATED CLUB PARTICIPATION

ARRL AFFILIATED CLUB NAME MAD RIVER RADIO LLUB

"I have observed all competition rules as well as all regulations established for Amateur Radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the ARRL Awards Committee.

- Copy ALL QSO info carefully. A penalty is assessed for incorrectly copied QSO info.

০ জেন্দাটা ০

BAND	TIME	STATION		E EXCHANGE			W MUL	TIPL			POINTS	1
MHZ	UTC	STATION	SENT	RCVD	1.8	3.5	7	14	21	28	POINTS	_
7	0225	PHOGD		KW			P4					
	26	OKIRI		500								
	26	FGBEE		KW			F					1
	27	F5IN		KW								]
	27	HAZKNX		200								
-33	28	12MQP		300								]
	29	SPAAKD	559	004								1
	30	HZIHZ		000			HZ					1
	30	DYZOY		500								
	31	R85LVV		50								
	32	RB5LF	559	100								
	32	OK3TEC		100								
	33	OK31F		579 Zoo								
	34	RA9YD		200								_
5	35	DK8AX		100								_
	36	YUTAJR		100								
	37	UI 8BAA		200			41					
	40	YTZGI		100								
	42	YYIUF		100					_			
	44	OKIAJY		200						-		
	45	RT5UY		2.00					T	1		_
-	47	OKZKMR		150								_
	47	UAGMAC		050								_
	48	4V9FM		200	1							
	49	OK3CEL		100								
	49	UALOGB		50	T					-		
	50	FLGCT		100								
	51	UZBOWA		200	1							
	53	LZIGC		250	1							_
	55	OKIAMM		050								
	56	HB9 DDZ		200	T	T	4189		T	T		
	57	HASUA		100					T			
	57	44450		150		1		1	1			
	58	UB4XWB		200					1			
1.8	0302	P446D		KW	104	1		T	T			
	03	NPHA		000	K.O.	1	1		$\top$	$\top$		-
	04			KW	YV		1	1	$\top$		1	
	09	V31TP		100	V3	_	$\top$	T	$\top$	1		_
7	18	YUIEXY		KW	1	$\top$	1	1	$\top$	1		_
<u> </u>	Zo	DJANH		500		$\perp$			-			_
``	21	4351LW		50								
	ZI			200								_
	ZZ			500		1	88	>				_
	23			000			KPH	4				_
	24			×ω		$\top$			$\top$			
-	24			600		$\top$	OA					_
_	25			100	$\top$	$\top$		$\top$		$\top$		_
_					_	_	1	_		1		-

PAGE:

CALLSIGN:

CW

**□** PHONE

INTERNATIONAL

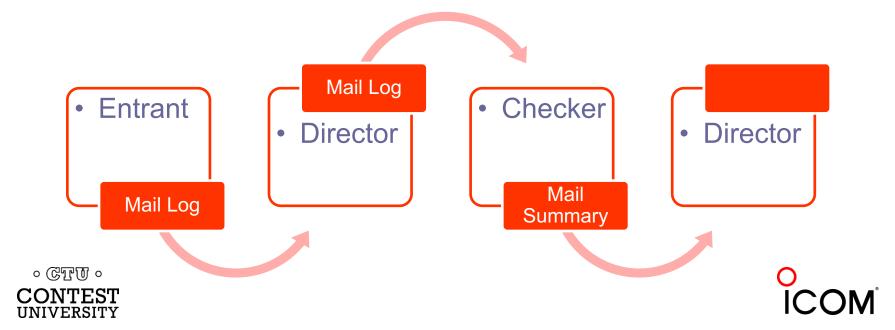
Separate summary sheets and logs required for each mode. Check entry for duplicates on each band.

Dupe/check sheets must be included with every entry of 500 or more QSOs.

### **CQWW Paper Log Processing**



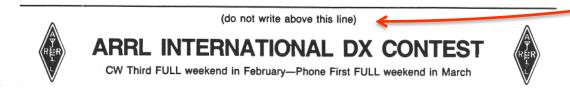
- Receive logs (4-8 weeks in mail)
- Divide logs by category
- Mail logs to log checker for that category
- Checker reviews logs and marks scoring changes on summary sheet
- Sends summary sheets back to Director



### Paper Log Results



- Director collects all summary sheets
- Write correct line score info "above this line".



- Store summary sheets in results order
- When final, deliver to typesetting department (in results order)





### Contest Log – 1989



World Wide DX Contest  World Wide DX Contest  Sull Weekend of October (Phone) & November (CW)  Country			CQ WORI	LD WIDE DX CONTES	T CQ			Page
Wide DX Control (CW)	CA	LLSIGN:	K3TUP	MODE: CW			BAND	): 40
World Wide DX Contest  Lest Full Weekend of October (Phone) & November (CW)  Country  Country	DATE	TIME	NUMBER	FREQ CALL	RCVD	NEW	MULTS	PTS
CORPO 5 W or LE	11/25/89	0825	281	40 OZ6PI	599 14			3
Call Sign K370F  PR: K52B   Multi-Op. Single Transmitter	11/25/89	0825	282	40 OE5JDL	599 15			3
Call Sign K37 CP. K5 Nulti-Op. Single Transmitter  Rend Open Co. Multi-Transmitter	11/25/89	0825	283	40 OK2RU	599 15			3
Call Sign   Multi-Op. Single Ind.  Multi-Op. Single Ind.  Multi-Op. Multi-Transmitter    Multi-Op. Multi-Transmitter   Multi-Transmitter	11/25/89	0826	284	40 G3SBI	599 14			3
worde: On All Builti-Op.	11/25/89	0827	285	40 HA6KOD	599 15			3
Mrs Country See . a MHz	11/25/89	0827	286	40 VE2AJD	599 05			2
one Single Op. Zone Multiplier 1.8 mm.	11/25/89	0828	287	40 VE7ZZZ	599 03			2
Multiplies a s MHz	11/25/89	0829	288	40 G4TNI	599 14			3
	11/25/89	0830	289	40 JA6VU	599 25			3
X 5	11/25/89	0830	290	40 GW3JI	599 14			3
(minus 4.7)								-
X 15 + 46 = 14 MHz	11/25/89	0831	291	40 I1BWI	599 15			3
8 MH: 14 MM:	11/25/89	0832	292	40 JA7SN	599 25			3
21 MH:	11/25/89	0832	293	40 OH9NV	599 15			3
.5	11/25/89	0833	294	40 JA3EMU	599 25			3
7.0 MHz 622 X 36 799 = 28 MHz	11/25/89	0833	295	40 JA7A0	599 25			3
	11/25/89	0833	296	40 VE6BF	599 04		-	2
14 MH: 759 X 35 + 95 = - 9/3 All Bands	11/25/89	0834	297	40 OZ1KAO	599 14			3
14 MHz 797 AII Bands	11/25/89	0834	298	40 JA4JSV	599 25			3
14 MHz 757 21 MHz 864 X 33 + 95 = 5,575,9/3 All Bands	11/25/89	0835	299	40 SMOBDS	599 14			3
21 MHz 894 7 2499 X 155 + 432 3,3	11/25/89	0835	300	40 SM6AOU	599 14			3
28 MH 894 9499 X 155	11 /05 /00	0036	201	40 82280	599 14			3
FINAL SCORE	11/25/89	0836 0837	301 302	40 Y22HC 40 Y23HJ	599 14 599 14			3
All Bands 3214 9 9477 INAL SCORE  All Bands 3214 9 9497 INAL SCORE  How to score: QSO Points X (Zones + Countries) = FINAL SCORE  How to score: QSO Points X (Zones + 70 Countries) = 100,000 point  EXAMPLE: 1000 QSO Points X (Zones + 70 Countries) = 100,000 point  Station Description: Z  Station Description: Z  Zone 1000 QSO Points X (Zones + 70 QSORE SON 15 SOVEE SON 20 QSORE SON	11/25/89 11/25/89	0837	302	40 Y23H3 40 G4DQW	599 14 599 14			3
All Bands   22 - All Bands   2000   2	11/25/89	0837	303	40 G4DQW 40 UL7LFB	599 14		UL	3
How to score: 1000 QSO Points AT COM I C-16-3	11/25/89	0840	305	40 VI/LFB	599 17	-DIII	PLICATE	_
2 - 13 - 13	11/25/89	0850	306	40 F32F1/F	599 09	-100	P4	3
Cution Description:	11/25/89	0908	307	40 HC8U	599 10	10	HC8	3
7 AM /OM, (6 07)	11/25/89	0913	308	40 CU2AK	599 14		CU	3
7 OVER 1 44 VEL. DEEMM	11/25/89	0916	309	40 NL7G	599 01	01	KL7	2
How to score: QSO Points X (Zones + Lown) How to score: QSO Points X (Zones + Lown) How to score: QSO Points X (Zones + Lown) How to score: QSO Points X (Zones + Lown)  Station Description: Z  Station Description: Z  Antenno(s)  T OVER 7 ON 10M, 6 OVER 6 ON 15, 5 OVER 5 ON ZO,  Antenno(s)  T OVER 7 ON 10M, 6 OVER 6 ON 15, 5 OVER 5 ON ZO,  Antenno(s)  T OVER 7 ON 10M, 6 OVER 6 ON 15, 5 OVER 5 ON ZO,  Antenno(s)  POPETO ON 10M, 6 OVER 6 ON 15, 5 OVER 5 ON ZO,  ANTENNO(s)  POPETO ON 10M, 6 OVER 6 ON 15, 5 OVER 5 ON ZO,  ANTENNO(s)  Remarks (Biggest thrill in Contest, furniest story, comments, etc.)  Remarks (Biggest thrill in Contest, furniest story, comments, etc.)  Remarks (Biggest thrill in Contest, furniest story, comments, etc.)  Remarks (Biggest thrill in Contest, furniest story, comments, etc.)  Remarks (Biggest thrill in Contest, furniest story, comments, etc.)  AND FOR TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	11/25/89	0918	310	40 JH1GTV	599 25			3
Antennoise VERT ON SO SONTE STERS (NCC)  Operatore K52D  Operatore K52D  Operatore K52D  Operatore K62D  Opera								
amments, etc.) A. T. Look for TESS (NE	11/25/89	0928	311	40 YV2BE	599 09			3
Operation of funniest story, comments of the	11/25/89	0933	312	40 V31B	599 07	07	V3	2
thrill in Contest, AMAKE 48 TO COAST	11/25/89	0939	313	40 VP9LB	599 05		VP9	2
Remarks (Bigges) NITIONS HOW	11/25/89	0945	314	40 VP5Q	599 08	08	VP5	2
Remarks (biggs. A) 17 10 18 1 10 18 10 19	11/25/89	0948	315	40 8P9HT	599 08		8P	2
Club Competition / Minimum 3 logs  Club Competition / Minimum 3 logs  Club Competition / Minimum 3 logs  This is to certify that in this contest I have operated my transmittee.  This is to certify that in this contest I have observed fully the  Signoture  within the limitations of my license and have observed fully the  Coll  LS ZD  Coll  C	11/25/89	0949	316	40 9Y4H	599 09		94	3
Club shat in the searce and the Signature	11/25/89	1000	317	40 AA6Y/KH6	599 31	31	KH6	3
This is to certify implications of my incomest.	11/25/89	1003	318	40 JA5JCC	599 25			3
within the minimum of the william of	11/25/89	1003	319	40 JA1XAF	599 25			3
This is to certify that I'm license and within the limitations of the contest.  The sand regulations of the contest.  Thomas on the contest of the contest o	11/25/89	1006	320	40 VK8AV	599 29	29	VK	3
TYPE OF FREE ANDALL	Totals This	Page:	39			6	12	109
Name Name		9-0						
8								930





### We need a better way!



**Electronic Log Submission** 





### Requirements



- What makes up a contest log?
- What data do we need for each QSO?
- What data is needed from the summary sheet?
- Formatting?
- Human readable?





### **QSO Data**



3/9	21	0050	JH3DPB JA7YAA VS6BG	59	TX	59	KW KW 100
		55	KH6ND				KW
			ZL1ANJ				150
	28		HC8A				KW
			OA4ANR				100
		0100	KL7RA				KW
	14		VP2E				KW

Easy for humans to understand, but not for computers





#### **ARRL Format "V1" – 1993**



## ARRL Suggested Standard File Format For Submission of Contest Log Data

- All files must be in standard ASCII format.
- All files must be on an MS-DOS formatted disk, 3.5 inch (720-KB or 1.44-MB) or 5.25 inch (360-KB or 1.2-MB).
- The diskette label should clearly indicate the call sign used, contest name, entry class, and date of the contest.
- A paper summary sheet is required of all logs, either an official ARRL summary sheet or a close facsimile with a signed contest participation disclaimer.
- All diskettes become the property of the ARRL and are not returnable.
- All QSO data must appear in each line, aligned by columns...

#### SAMPLE FILE:

```
20 CW 15/02/92 0001 UW9WA 599 MA 599 100 * 3
20 CW 15/02/92 0001 UZ1AWJ 599 MA 599 200 * 3
20 CW 15/02/92 0002 OZ1IKW 599 MA 599 100 * 3
20 CW 15/02/92 0002 YU1GN 599 MA 599 100 * 3
20 CW 15/02/92 0003 UZ9XWT 599 MA 599 100 * 3
20 CW 15/02/92 0003 UZ4WWA 599 MA 599 200 3
20 CW 15/02/92 0004 OZ4UN 599 MA 599 500 3
20 CW 15/02/92 0005 OK1ALW 599 MA 599 KW * 3
20 CW 15/02/92 0005 DF5UL 599 MA 599 KW * 3
20 CW 15/02/92 0005 YU7XM 599 MA 599 100 3
20 CW 15/02/92 0006 RH0E 599 MA 599 300 * 3
20 CW 15/02/92 0006 RH0E 599 MA 599 006 * 3
```





### **Next Steps**



 Logging software authors had embraced ARRL Format V1

 But, floppy disks and paper summary sheets wasn't making things better

 In 1998 K5FUV at ARRL invited Trey, N5KO, to investigate electronic log submission





#### Other Possible Formats



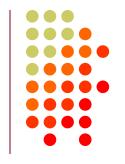
- ADIF
  - Late response from developers
- DARC Contest Data Exchange Format
   "STuetzerbach Format" STF
  - Discovered too late

- XML
  - Too new and not easy to read





### ARRL Format V2



 Needed summary sheet data to put complete log submission in one file

 CQ Magazine would not accept file format with ARRL in the name





### Cabrillo Log Format – 1999



- Name of Portuguese explorer whose name was popular near where Trey lived!
- 1999-08-16 Cabrillo V2.0 recognized by ARRL and CQ











#### **Cabrillo Basics**

#### Sample Log File

START-OF-LOG: 3.0 CALLSIGN: AA1ZZZ CONTEST: CQ-WW-SSB

CATEGORY-OPERATOR: SINGLE-OP CATEGORY-ASSISTED: NON-ASSISTED

CATEGORY-BAND: ALL
CATEGORY-POWER: HIGH
CATEGORY-MODE: CW

CATEGORY-TRANSMITTER: ONE CATEGORY-OVERLAY: ROOKIE

LOCATION: WMA

CREATED-BY: SuperLogger v1.0

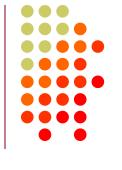
NAME: John Smith ADDRESS: 100 Main St ADDRESS-CITY: Uxbridge

OPERATORS: K5ZD

SOAPBOX: Put your comments here.

QSO: 3799 PH 2000-10-26 0711 AA1ZZZ QSO: 14256 PH 2000-10-26 0713 AA1ZZZ QSO: 21250 PH 2000-10-26 0716 AA1ZZZ QSO: 28530 PH 2000-10-26 0721 AA1ZZZ QSO: 7250 PH 2000-10-26 0751 AA1ZZZ

END-OF-LOG:



The beginning of each line is **<LABEL>**: followed by a space

Header

	0	04	59	K9QZO	05	59
	0	28	59	P29AS	05	59
QSO Data	0	22	59	4S7TWG	05	59
QSO Dala	0	23	59	JT1FAX	05	59
	0	03	59	WA6MIC	05	59





#### **Cabrillo Basics**

#### Sample Log File

START-OF-LOG: 3.0 ←

CALLSIGN: AA1ZZZ
CONTEST: CQ-WW-SSB

CATEGORY-OPERATOR: SINGLE-OP CATEGORY-ASSISTED: NON-ASSISTED

CATEGORY-BAND: ALL
CATEGORY-POWER: HIGH
CATEGORY-MODE: CW

CATEGORY-TRANSMITTER: ONE CATEGORY-OVERLAY: ROOKIE

LOCATION: WMA

CREATED-BY: SuperLogger v1.0

NAME: John Smith ADDRESS: 100 Main St ADDRESS-CITY: Uxbridge

OPERATORS: K5ZD

SOAPBOX: Put your comments here.

QSO: 3799 PH 2000-10-26 0711 AA1ZZZ 59 05 K9QZO 59 04 QSO: 14256 PH 2000-10-26 0713 AA1ZZZ 59 28 59 05 P29AS 4S7TWG 59 22 OSO: 21250 PH 2000-10-26 0716 AA1ZZZ 59 05 OSO: 28530 PH 2000-10-26 0721 AA1ZZZ 59 23 JT1FAX OSO: 7250 PH 2000-10-26 0751 AA1ZZZ 59 05 WA6MIC 59 03

END-OF-LOG:

MUST have Start-of-Log: Number is version (2.0 or 3.0)

MUST have End-of-Log:





#### **Cabrillo Basics**

#### Sample Log File

START-OF-LOG: 3.0 CALLSIGN: AA1ZZZ

CONTEST: CQ-WW-SSB ≪

CATEGORY-OPERATOR: SINGLE-OP CATEGORY-ASSISTED: NON-ASSISTED

CATEGORY-BAND: ALL
CATEGORY-POWER: HIGH
CATEGORY-MODE: CW

CATEGORY-TRANSMITTER: ONE CATEGORY-OVERLAY: ROOKIE

LOCATION: WMA

CREATED-BY: SuperLogger v1.0

NAME: John Smith ADDRESS: 100 Main St ADDRESS-CITY: Uxbridge

OPERATORS: K5ZD

END-OF-LOG:

SOAPBOX: Put your comments here.

OSO: 3799 PH 2000-10-26 0711 AA1ZZZ 59 05 K9QZO 59 04 QSO: 14256 PH 2000-10-26 0713 AA1ZZZ P29AS 28 59 05 59 QSO: 21250 PH 2000-10-26 0716 AA1ZZZ 59 05 4S7TWG OSO: 28530 PH 2000-10-26 0721 AA1ZZZ 59 05 2.3 JT1FAX 59 OSO: 7250 PH 2000-10-26 0751 AA1ZZZ 59 0.5 WA6MIC 59 0.3

MUST have callsign used in the contest

MUST have contest name

specified by the sponsor





### **Category Information**



#### V3.0 (preferred)

- Each descriptor has its own line
- All lines must be included

V2.0 (old)

All descriptors on one line

CATEGORY-OPERATOR: SINGLE-OP

CATEGORY-ASSISTED: NON-ASSISTED

CATEGORY-BAND: ALL

CATEGORY-POWER: HIGH

CATEGORY-MODE: CW

CATEGORY-TRANSMITTER: ONE CATEGORY-OVERLAY: ROOKIE

CATEGORY: SINGLE-OP ALL HIGH

CATEGORY-OVERLAY: ROOKIE





#### Other Header Fields

#### Sample Log File

START-OF-LOG: 3.0 CALLSIGN: AA1ZZZ CONTEST: CQ-WW-SSB

CATEGORY-OPERATOR: SINGLE-OP CATEGORY-ASSISTED: NON-ASSISTED

CATEGORY-BAND: ALL
CATEGORY-POWER: HIGH
CATEGORY-MODE: CW

CATEGORY-TRANSMITTER: ONE CATEGORY-OVERLAY: ROOKIE

LOCATION: WMA

CREATED-BY: SuperLogger v1.0

NAME: John Smith
ADDRESS: 100 Main St
ADDRESS-CITY: Uxbridge

OPERATORS: K5ZD

SOAPBOX: Put your comments here.

QSO: 3799 PH 2000-10-26 0711 AA1ZZZ QSO: 14256 PH 2000-10-26 0713 AA1ZZZ QSO: 21250 PH 2000-10-26 0716 AA1ZZZ QSO: 28530 PH 2000-10-26 0721 AA1ZZZ QSO: 7250 PH 2000-10-26 0751 AA1ZZZ

END-OF-LOG:



LOCATION: used to determine section or call area where operation occurred

Address is optional, used to mail certificates

59	05	K9QZO	59	04	0
59	05	P29AS	59	28	0
59	05	4S7TWG	59	22	0
59	05	JT1FAX	59	23	0
59	05	WA6MIC	59	03	0





#### Other Fields



#### OPERATORS:

Calls of all operators, use @ to show station used
 OPERATORS: K3EST @N6RO

#### SOAPBOX:

Limit line to 75 characters, use multiple lines

SOAPBOX: The contest was great fun SOAPBOX: until my amplifier blew up!

#### • CREATED-BY:

 Optional, sometimes helps us know which programs are not formatting correctly





#### Other Fields



- CLUB:
  - Single ops only one club name
  - Multi-ops may list multiple club names

CLUB: 1/3 Yankee Clipper Contest Club 2/3 North Coast Contesters

- Robot will give warning if multiple clubs, but can be ignored
- CLAIMED-SCORE:
  - Optional, not used





### **QSO Data**



QSO:	3799	PH	2000-10-26	0711	AA1ZZZ	59	05	K9QZO	59	04	0
QSO:	14256	PH	2000-10-26	0713	AA1ZZZ	59	05	P29AS	59	28	0
QSO:	21250	PΗ	2000-10-26	0716	AA1ZZZ	59	05	4S7TWG	59	22	0
QSO:	28530	PΗ	2000-10-26	0721	AA1ZZZ	59	05	JT1FAX	59	23	0
QSO:	7250	PH	2000-10-26	0751	AA1ZZZ	59	05	WA6MIC	59	03	0

-----info sent-----info rcvd-----

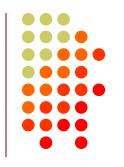
QSO:	freq	mo	date	time	call	rst	exch	call	rst	exch	t
QSO:	****	**	yyyy-mm-dd	nnnn	*****	nnn	****	*****	nnn	****	n
QSO:	3799	PH	2000-11-26	0711	N6TW	59	03	JT1Z	59	23	0

- QSO: indicates a QSO
- Each line contains all frequency, date, time, and sent/received info
- Every line must include all fields
- Use spaces or tabs between fields
- Columns do not need to line up

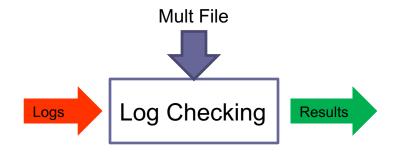




## Why no Multipliers or QSO Points?



- Electronic logs enable fully computerized log checking
- All logs are scored in a consistent way without "interpretation" by the entrants
  - Common multiplier file and scoring algorithm
  - What country is TO2A? TX5K? GM4WXQ?







(FY, FO/c, GM/s)

### What about dupes?



- Submit all QSOs that you make
  - Even if you are single band
  - The Header tells us your category for scoring

There is no penalty for logging duplicate contacts





#### **Cabrillo Notes**



- Must be ASCII text file
- You can edit with any text editor (such as Notepad or Wordpad)
- Please do not use special fonts to create slashed zeroes
- Use tabs or spaces between line items
  - Text columns do NOT need to line up
- ACCURATE DATE/TIME IS IMPORTANT!







### **Submitting Your Log**

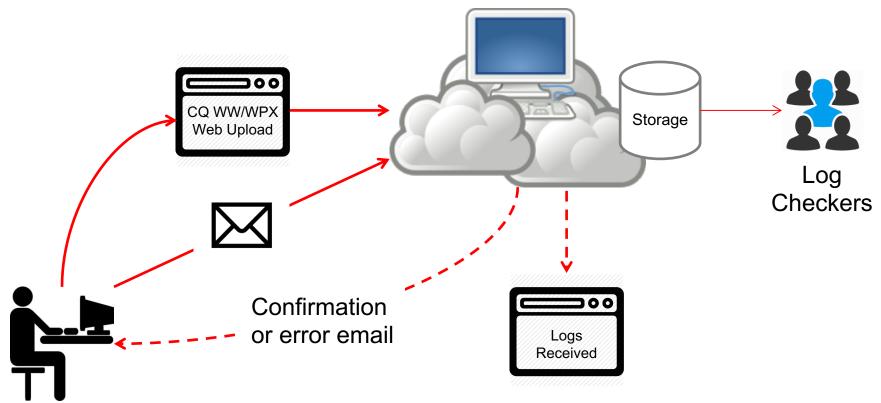
A few tips





### **ARRL** and CQ "Robot"

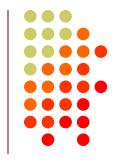








### **Email Tips**



- Log can be an attachment or in the body of the email
  - Use <call>.cbr or <call>.log for file name
- Subject line should have only your callsign
  - Subject line must have less than 4 words (spam defense mechanism)
- READ THE CONFIRMATION EMAIL!
  - Your log may have errors or been rejected
- Each new log submitted <u>replaces</u> any previous one





#### **Final Confirmation**



 Your log is not officially received you receive an email confirmation with tracking number in subject line

From: Contest Robot <unreplyable@cqwpx.com>
To:
Cc:
Subject: [1545759.cq-wpx-ssb] AK1W

2015 CQ World-Wide WPX Contest, SSB

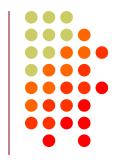
Callsign: AK1W
Operators: K5ZD
Category-Operator: SINGLE-OP
Category-Transmitter: ONE
Category-Band: ALL

- Check your category!!
  - The robot may enter a default if something is missing or invalid





#### **Note**



Do not put any information about your entry in the email subject or body.

The log checkers only see the log file!





### **Log Submission Deadlines**



- See the contest rules for log deadline
  - For CQ Contests, it is 5 days
  - For ARRL Contests, it is ~15 days
- Robot accepts late logs
- If you need more time, request an extension

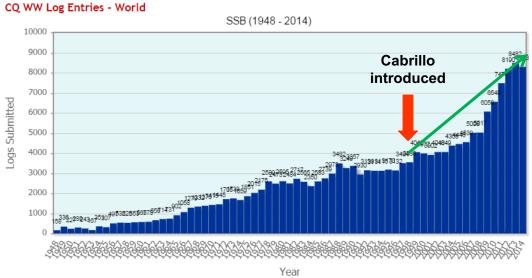
Why not just submit your log as soon as the contest is over?

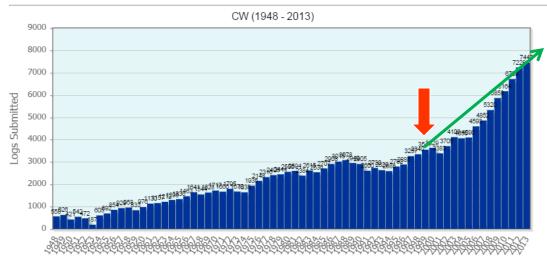




### Impact of Electronic Logs











## World Wide Radio Operators Foundation



- Non-profit corporation focused on support of radio contesting
- WWROF funds
  - CQWW infrastructure including the robot, web site, log checking software/hardware
  - Manages Cabrillo log format standard
  - Webinar series
  - Other projects that support contesting
- Learn more and donate at www.WWROF.org







### **Questions?**



Cabrillo Specification: <a href="http://wwrof.org/cabrillo/">http://wwrof.org/cabrillo/</a>

Questions or Change Requests: <a href="mailto:cabrillo@wwrof.org">cabrillo@wwrof.org</a>

ARRL Article about Cabrillo: <a href="http://bit.ly/1FzgkM9">http://bit.ly/1FzgkM9</a>



