# **RAC Contests Log**

This year was my first time participating in the RAC Canada Day contest on my own. It was a lot of fun and also very instructive. Here are a few things I learned.

First, everything you need to know about the RAC Canada Day or Winter Day contest is located on the RAC website.

### Logs

During the contest, the following information must be logged for each station:

- Frequency
- Mode (CW or Phone)
- Date and Time (in UTC)
- Callsign
- Signal Report
- Exchange (Two letter province code for Canadian Stations, or the serial number for other stations).

At the end of the contest, logs must be submitted to RAC. They will accept paper logs for submissions with less than 100 entries, but they really prefer electronic logs, which must be formatted as Cabrillo.

A Cabrillo file is really just plain text file formatted in a very specific way. For example, here's a copy of my Cabrillo file (with only a few entries as example):

START-OF-LOG: 3.0				
CREATED-BY: RAC_Contests.ods v2020.07.04 by V	/A7FI			
CALLSIGN: VA7FI				
LOCATION: BC				
CONTEST: RAC CANADA DAY				
CATEGORY-OPERATOR: SINGLE-OP				
CATEGORY-BAND: ALL				
CATEGORY-MODE: SSB				
CATEGORY-POWER: LOW				
CATEGORY-TRANSMITTER: UNLIMITED				
CLAIMED-SCORE: 11564				
CLUB: Sun Coast Amateur Radio Club Society				
NAME: Patrick Truchon				
ADDRESS: REDACTED				
ADDRESS-CITY: Roberts Creek				
ADDRESS-STATE-PROVINCE: British Columbia				
ADDRESS-POSTALCODE: VON 2W1				
ADDRESS-COUNTRY: Canada				
EMAIL: va7fi@rbox.me				
OPERATORS: @VA7FI				
SOAPBOX: First Canada Day contest on my own.	Lots of fu	n!		
QSO: 14186 PH 2020-07-01 0008 VA7FI	59 BC	VE3PJ	59 ON	
QSO: 14198 PH 2020-07-01 0012 VA7FI	59 BC	WB0TEV	59 14	

QSO:146520 PH 2020-07-01 0112 VA7FI	59 BC VE7DX	59 BC
QSO: 14211 PH 2020-07-01 0139 VA7FI	59 BC N800	59 201
QSO: 14152 PH 2020-07-01 0148 VA7FI	59 BC VE2CJR	59 QC
QSO: 14165 PH 2020-07-01 0159 VA7FI	59 BC VE6RAC	59 AB
END-OF-LOG:		

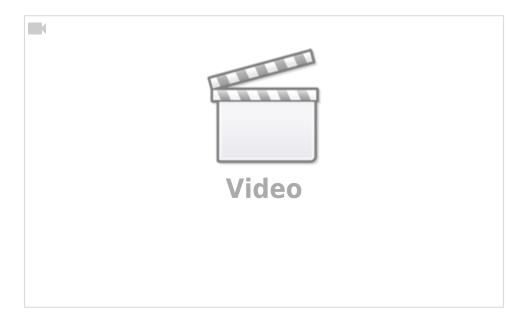
The first 21 lines give RAC all the information they need about the operator. The other lines show the contacts made, ending with an END-OF-LOG tag. For more information about the Cabrillo format, see this RAC pdf, or the WWROF website.

RAC does NOT want this information emailed to them in the body of the email. Instead, this should be saved in as plain text file named (in my case): VA7FI.LOG and attached to the email.

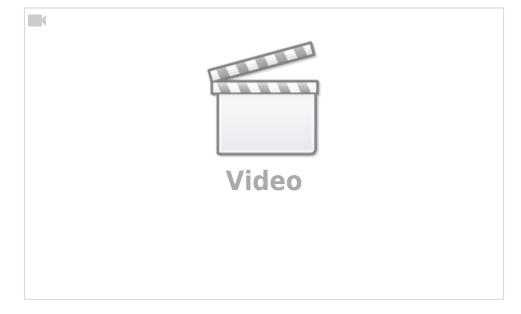
Regular contesters use logging programs which can generate these files while providing features that facilitate the logging process during the contest. Many people have recommended N1MM as being the best one. RAC also has its own Microsoft Windows contest program for its own contests.

But since I'm not a regular contester and I didn't have time to familiarize myself with a logging program that would run under GNU/Linux, I simply used a spreadsheet to log my entries and tweaked it as the day went on to add my points and check for duplicate stations. A few days after the contest was over, I cleaned up the spreadsheet and added some code to export the Cabrillo file the way RAC needs it.

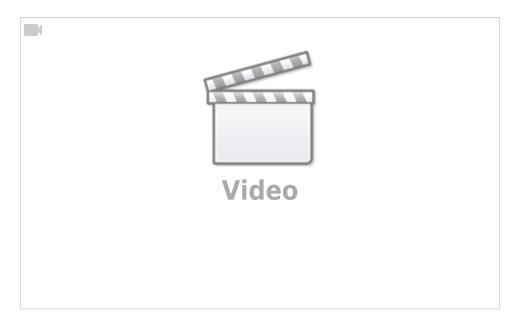
Here are a few introductory videos I made to explain how to use the spreadsheet, which should also work with the RAC Winter Contest in December.



The first video shows where to download LibreOffice, and how to set the Security settings to allow LibreOffice to run macros: Tools  $\rightarrow$  Options...  $\rightarrow$  LibreOffice  $\rightarrow$  Security  $\rightarrow$  Macro Security  $\rightarrow$  Medium



The second video shows how to use the spreadsheet during the contest, and how to export the Cabrillo file after.



The third video shows a bit of the hidden formulas and the script that generates the Cabrillo file. It's like looking under the hood of the car: it's not needed to drive it, and it doesn't really explain how to build a car either. But some might find it interesting.

#### Here is the link to

. It is:

download it

Licensed under Creative Commons By-Sa so you are free to:

- Run it for any purpose.
- Study and modify it.

- Copy it to help others.
- Improve it, and release the improvements to the public, so that the whole community benefits.

Provided that you:

- Attribute the work to me by linking to <https://ptruchon.pagekite.me>
- Distribute any derivative work under the same license.

Here's a copy of the code that generates the Cabrillo file:

```
REM ***** BASIC *****
sub cabrillo
'Get directory path from spreadsheet location. This will be used to create
./MyCallsign.log
Dim path as String
   GlobalScope.BasicLibraries.loadLibrary("Tools")
   path = Tools.Strings.DirectoryNameoutofPath(ThisComponent.url, "/") & "/"
'Define document and sheets
   dim Doc as object
  Doc = ThisComponent
   Sheet1 = Doc.Sheets.getByName("Log")
   Sheet2 = Doc.Sheets.getByName("Preamble")
'Note that for getCellByPosition(x, y): (0, 0) = A1, (1, 0) = B1, (0, 1) = A2, ...
'Create Cabrillo file named "MyCallsign.log"
   MyCallsign = Sheet2.getCellByPosition(1, 2).String 'Operator's callsign
   filename = path & MyCallsign & ".log"
'Open MyCallsign.log and get ready to write to it
   num = FreeFile()
  open filename for output as #num
'Read "Preamble" sheet and create preamble of Cabrillo File
   for i = 0 to 18 ' read first 19 rows as is.
      print #num, Sheet2.getCellByPosition(0, i).String & " " &
Sheet2.getCellByPosition(1, i).String
   next
   ' Row 20 needs "@" before the callsign
   print #num, Sheet2.getCellByPosition(0, 19).String & " @" &
Sheet2.getCellByPosition(1, 19).String
   Soapbox = Sheet2.getCellByPosition(1, 20).String
   if Len(Soapbox) > 70 then
     truncated = "y"
      Soapbox = Left(Soapbox, 70)
```

```
Msgbox("SOAPBOX message can have at most 70 characters. It was truncated to:" &
Chr(10) & Chr(10) & "'" & Soapbox & "'", 48)
  endif
  print #num, Sheet2.getCellByPosition(0, 20).String & " " & Soapbox
'Formatting Example. Comment out once finished
1
   print #num,
' print #num,
"12345678901234567890123456789012345678901234567890123456789012345678901234567890"
1
   print #num, "OSO: 1825 CW 2003-07-01 1044 VA1ABC 599 ON
                                                                    VE4EAR
599 MB"
1
   print #num, "QSO: 3510 CW 2003-07-01 1044 VA1AB
                                                       599 ON
                                                                    K4BAI
599 103"
1
   print #num, "QSO: 7155 PH 2003-07-01 1044 VE3KZ
                                                       599 ON
                                                                    K5MM
599 005"
1
   print #num, "QSO: 14205 PH 2003-07-01 1044 VE3KZ 599 ON
                                                                    K4LTA
599 10"
1
   print #num, "QSO: 21350 CW 2003-07-01 1044 VE3KZ
                                                       599 ON
                                                                    K1EA
599 55"
print #num, "QSO: 28375 PH 2003-07-01 1050 VE3KZ
                                                        59 ON
                                                                    VE5SF
59 SK"
1
   print #num, "QSO: 50125 PH 2003-07-01 1055 VE3KZ
                                                         59 ON
                                                                    VE3EJ
59 ON"
1
    print #num, "QSO:146520 PH 2003-07-01 1055 VE3KZ 59 ON
                                                                    VE3CZ
59 ON"
  MyCallsign = MyCallsign & space(14 - Len(MyCallsign)) 'pad MyCallsign to make it
14 characters long.
  MyProvince = Sheet2.getCellByPosition(1, 3).String
                                                      'my province
  MyProvince = MyProvince & space(7 - Len(MyProvince)) 'pad MyProvince to 7
characters
  ContestDate = Sheet2.getCellByPosition(1, 21).String
                                                    'contest date
'read "Log" Sheet starting at third row.
  i = 2
                                                      'first row is i = 0 so
third row is i = 2
  UTC = "anything"
                                                      'initial non-empty
condition for knowing when to stop loop
  while UTC <> ""
                                                      'while the time emtry is
not empty, process each row
     Freq = Sheet1.getCellByPosition(0, i).String
                                                     'frequency in column A (x =
0)
     Freq = Format(Freq, "0")
                                                      'round to the nearest
integer
     Freq = space(6 - Len(Freq)) \& Freq
                                                     'pad frequency to 6 digits
     UTC = Sheet1.getCellByPosition(1, i).String
                                                     'time in column B(x = 1).
```

```
Also used to stop loop.
     Callsign = Sheet1.getCellByPosition(2, i).String 'callsign in column C (x =
2)
     Callsign = Callsign & space(13 - Len(Callsign))
                                                         'pad Callsign to 13
characters
     RST = Sheet1.getCellByPosition(3, i).String
                                                         'received Signal Report in
column D (x = 3)
     RST = space(3 - Len(RST)) \& RST
                                                         'pad RST to 3 digits
      Exch = Sheet1.getCellByPosition(4, i).String
                                                         'received Exchange in
column \ E \ (x = 4)
     RSTGiven = Sheet1.getCellByPosition(5, i).String 'received Signal Report in
column D (x = 3)
     RSTGiven = space(3 - Len(RSTGiven)) & RSTGiven 'pad RSTGiven to 3 digits
     Mode = Sheet1.getCellByPosition(6, i).String
      'create line to print from "Log" sheet variables. The output should be
something like this:
                                                  599 ON
                                                                            599 MB
                                                               VE4EAR
       '0SO: 1825 CW 2003-07-01 1044 VA1AB
       'QSO: 14165 PH 2003-07-01 1044 VA1ABC
                                                   59 ON
                                                                             59 MB
                                                               K7AB
        'QS0:146520 PH 2003-07-01 1044 VA1ABC
                                                    59 ON
                                                               VE4EA
                                                                             59 MB
     logline = "QSO:"
     logline = logline & Freq & " "
     logline = logline & Mode & " "
     logline = logline & ContestDate & " "
     logline = logline & UTC & " "
     logline = logline \& MyCallsign
     logline = logline & RSTGiven & " "
     logline = logline & MyProvince & " "
     logline = logline & Callsign & " "
     logline = logline & RST & " "
     logline = logline \& Exch
     print #num, logline
                                                         'print logline to text file
     i = i + 1
                                                         'Next row
     UTC = Sheet1.getCellByPosition(1, i).String
                                                         'Look ahead to next time
entry to see if it's empty or not.
ı.
       MsgBox(MyCallsign)
   wend
    print #num, "END-OF-LOG:"
    close #num
    msgbox ("Cabrillo log file has been created here: " & Chr(10) & Chr(10) &
```

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filename)	
end sub	
sub License	
<pre>' This spreadsheet and its script by Patrick Truchon <https: ptruchon.pagekite.me=""> ' is licensed under a Creative Commons Creative Commons Attribution-Share Alike 4.0 ' Unported License. <https: 4.0="" by-sa="" creativecommons.org="" licenses="">. ' You are free to: ' * Run them for any purpose. ' * Study and modify them. ' * Copy them to help others. ' * Improve them, and release the improvements to the public, so that ' the whole community benefits.</https:></https:></pre>	
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end sub	

## Last Thoughts

## 7300 Recorded Voice TX

The other thing I learned during the contest is how to record a short message on my IC-7300 and play it back on the air so I could save my voice a bit. The details are on page 83 of the IC-7300 manual. I ended up recording three messages:

- 1. "CQ Canada Day Contest, this is VA7FI" (in phonetics)
- 2. "VA7FI" (in phonetics)
- 3. "Thank you, you are 59, BC"

To call CQ, I used the first message on a 7 second repeat loop. If someone answered, I could either press the button again to prevent it from transmitting the message again, or use the PTT to jump in and acknowledge the station.

The second message I would use to answer a CQ call during a pile up. All I'd have to do is press the button with the timing that I thought would be best. This was great in the early morning when Justine was still in sleeping. With my headphones on, the whole thing was virtually silent.

The third message was to give my exchange once I received the other station's exchange.

I still had to use the mic a bit depending on the situation, but these pre-recorded messages took care of most of a

lot of the grunt work.