N1MM Setting Up for a VHF Contest

W3SZ and K3TUF

Pre-flight Checklist

- Create **new** contest database
- Download UDC if necessary
- Create the log
  - Select contest type
  - Edit station information
- Setup Super Check Partial master.mcp file
- Setup call history lookup file
- Set up per-band transverter offsets
- Set up Packet/Telnet
- (Set up N1MM DVK / .wav files)
- Open and position on screen all necessary windows
- Test all N1MM functions
- Enter test contacts
- Create/check Cabrillo file
- Delete test contacts

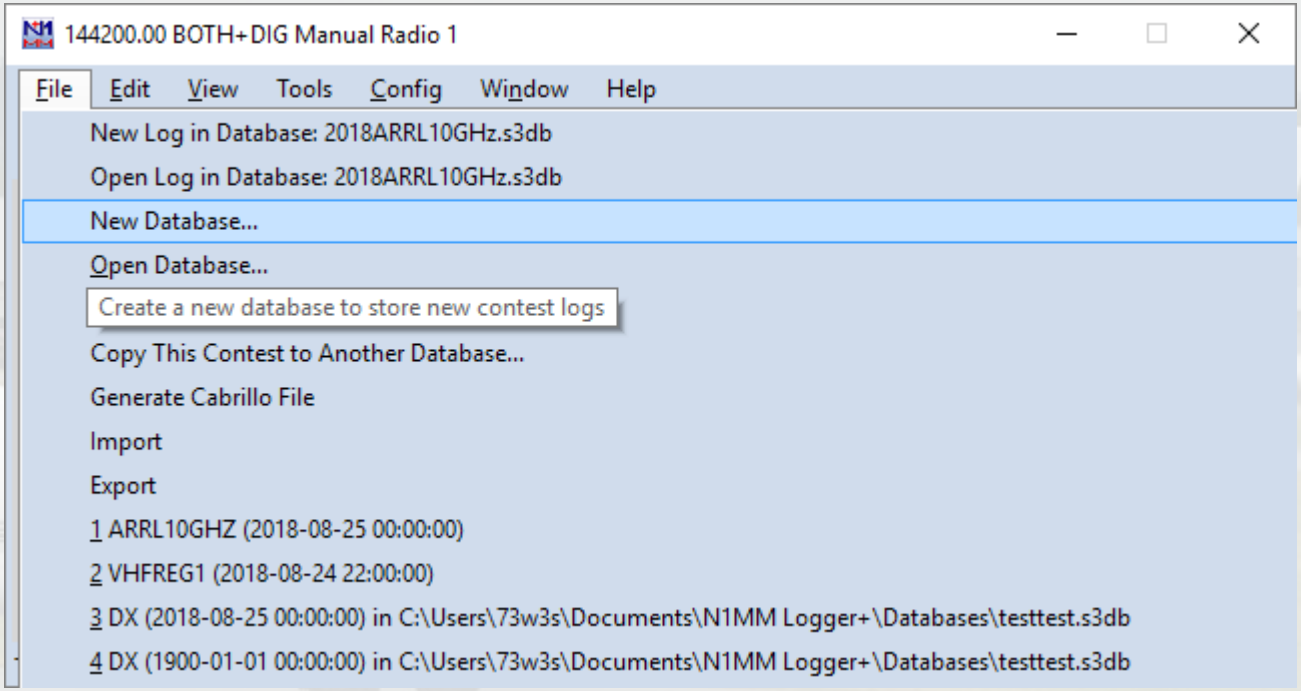
Setting up for a Contest

- Start a new database for every contest
  - This will minimize your chances of catastrophic data loss
- Doing so is extremely simple, and there is no downside
- If your data becomes corrupted, restoring its integrity will be much simpler if each database file contains only one contest.

Go to the **Entry Window**

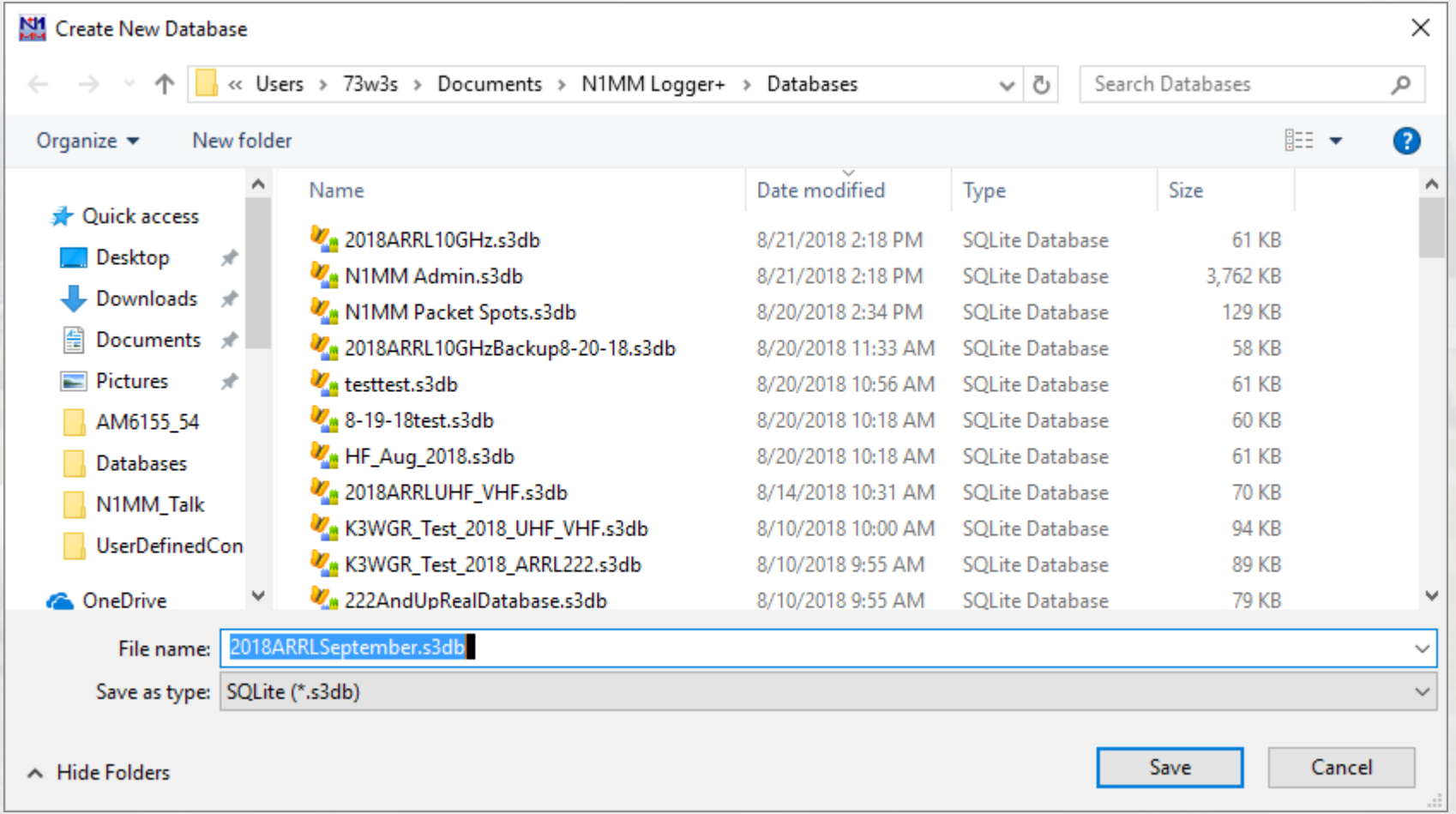
Click **File**

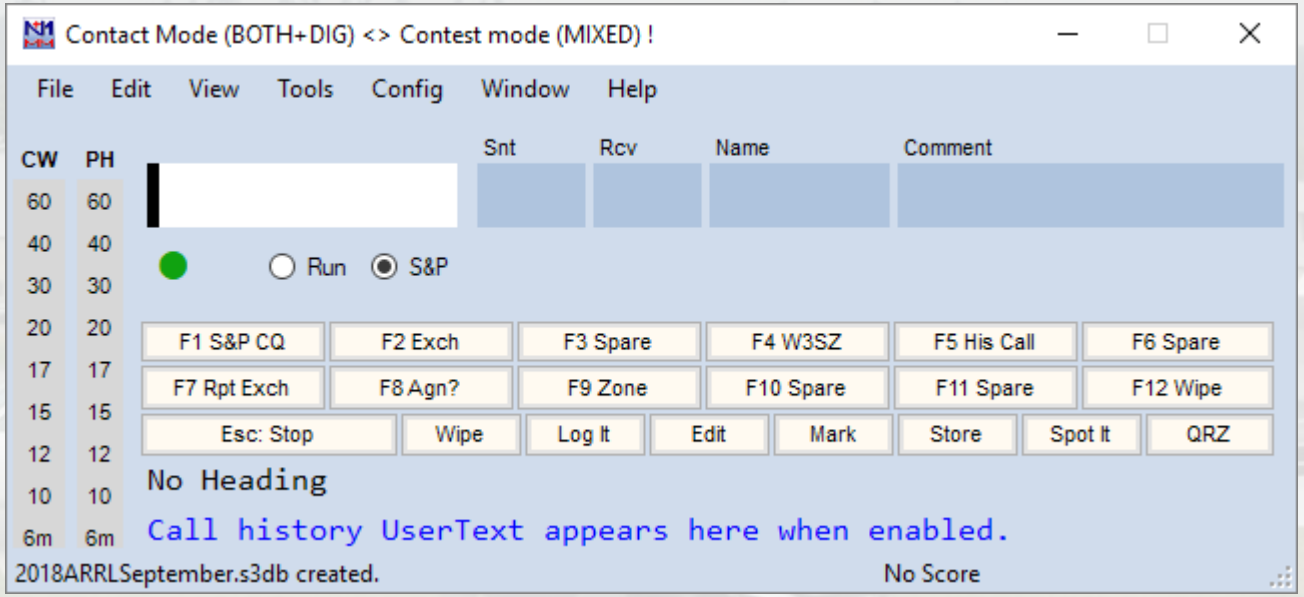
Click **New Database...**



Type your preferred **File name** for the contest database file in the text box

Click **Save**





The status bar at the bottom of the **Entry Window** will confirm that the database was successfully created.

Download the UDC if Necessary

- Some contests are “Supported” contests
  - Setting up a log for these contests merely requires their selection from the **LogType** dropdown list
- Other contests are “User Defined Contests” or “UDC” contests.
  - These require downloading a UDC file for the contest and placing that file into the appropriate directory

N1MM VHF and Up Contest Support

- Supported Contests:
  - ARRL January Sweepstakes
  - ARRL June VHF QSO Party
  - ARRL September VHF QSO Party
  - ARRL 10 GHz and Up Contest (new)
  - CQ World Wide VHF Contest
  - Various European VHF and Up Contests
- UDC Contests
  - ARRL 222 MHz and Up Distance Contest**
  - ARRL EME Contest

What about Non-Supported Contests? Options Include:

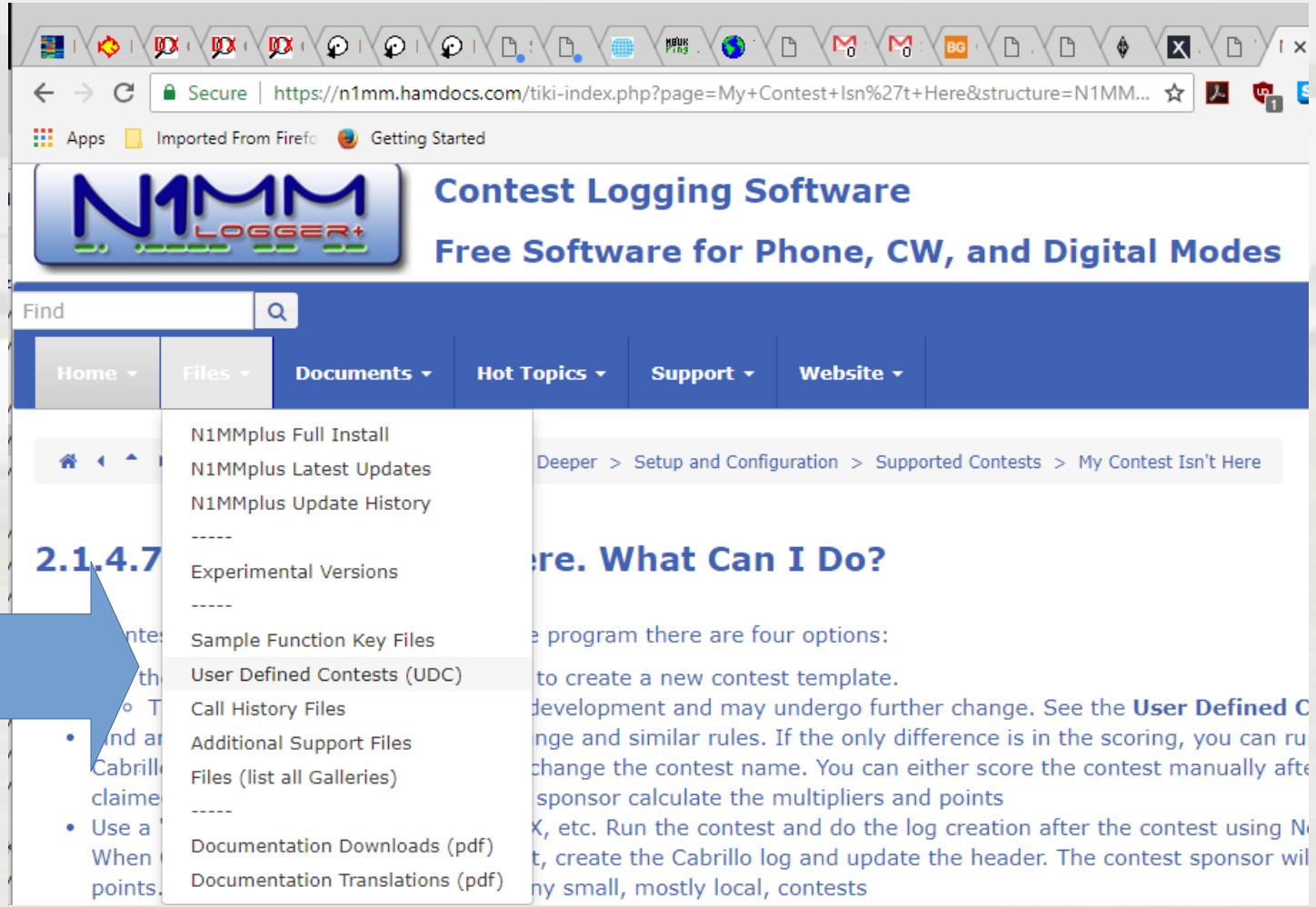
- Create your own UDC
- Use another contest with similar exchange and rules. Use text editor to modify the Cabrillo after the contest
- Use a “general” log like DX and use a text editor to modify the Cabrillo after the contest
- Request that the contest become one of the “Supported” contests in N1MM

Download the UDC if Necessary

Go to the Main N1MM Webpage

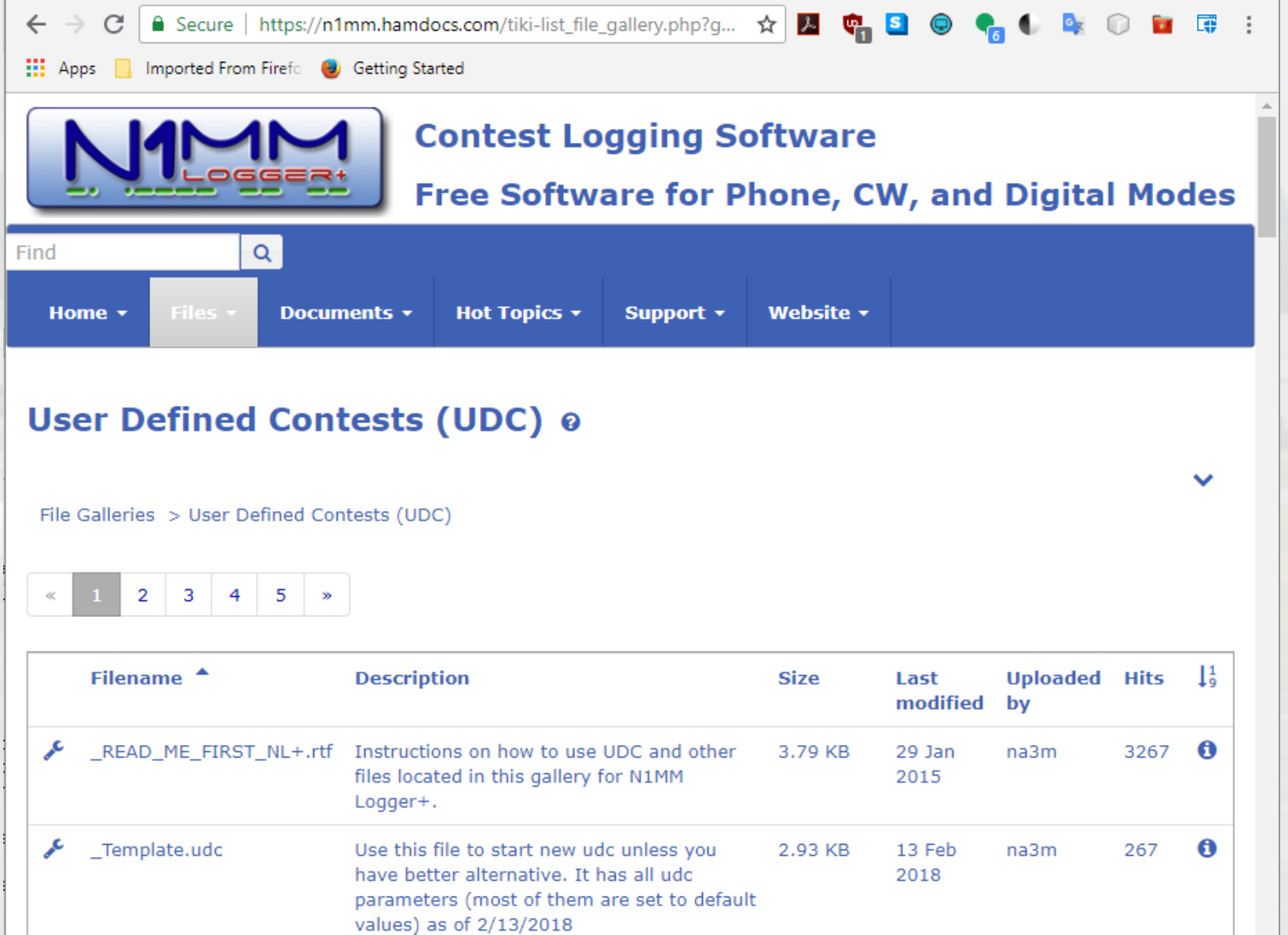
Click on **Files**

On the dropdown menu, Click on **User Defined Contests (UDC)**



Doing so will bring up this page.

Scroll down / scroll through the pages to find the contest whose UDC you want to download.



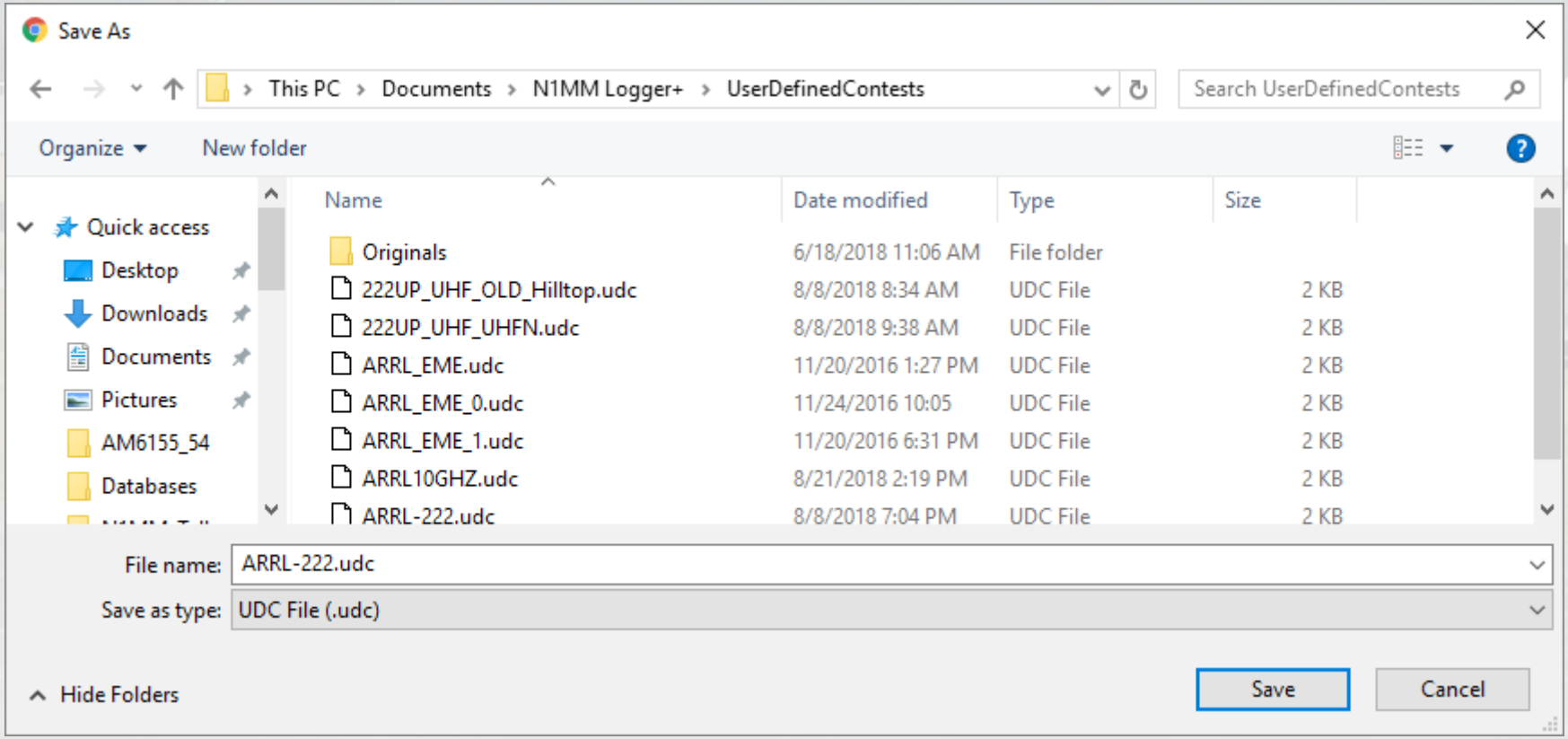
After you have scrolled down to the UDC file that you want to download:

Left-Click on the file name:

ARRL-222.udc

ARIRTTY.UDC	Italian internal contest.	1.39 KB	03 Apr 2013	na3m	526
ARKTIKAPR.zip	Arktika Polar Radioman Contest files. Exchange is RST+AC# for members (559 AC4), RST+Serial Nr for non-members. Member Numbers are mults - once only.	2.75 KB	12 Sep 2017	G4OGB	359
ARR_RTTY.udc	CT1ARR (Portuguese) PSK63 contest. v1.0.4 CS2EPC added for 10 points.	1.21 KB	11 Jun 2017	G4OGB	565
ARRL_EME.udc	VHF/UHF only, signal report as exchange, dupes are not allowed on same band CW, SSB, FM and digital modes (select "ARRLEME" not "ARRLEMEVHF").	1.71 KB	15 Dec 2016	na3m	636
ARRL-222.udc	New ARRL "222 MHz and Up Distance Contest" to kick off August 5-6, 2017. Revision 1.0.4 (contest name changed to ARRL-222)	1.41 KB	06 Aug 2018	na3m	14
AUTUMN_SPR.udc	Michurinsk Contest Group Autumn Sprint (R3R-OS) Exchange RS(T)+Serial Nr. Mults DXCC+Oblasts v1.0.2	2.37 KB	17 Oct 2017	G4OGB	139

Save the file to your **“...Documents/N1MM Logger+/UserDefined Contests”** directory:
N1MM will have previously created this directory. You DO NOT need to create it.

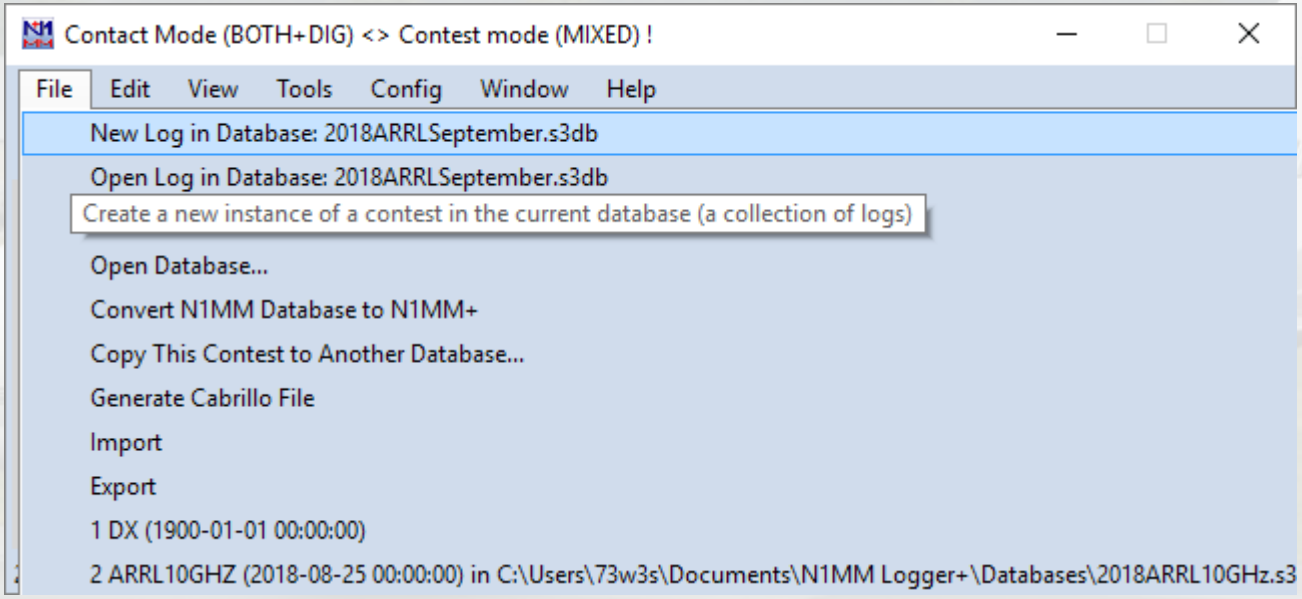


Next, Create the Log

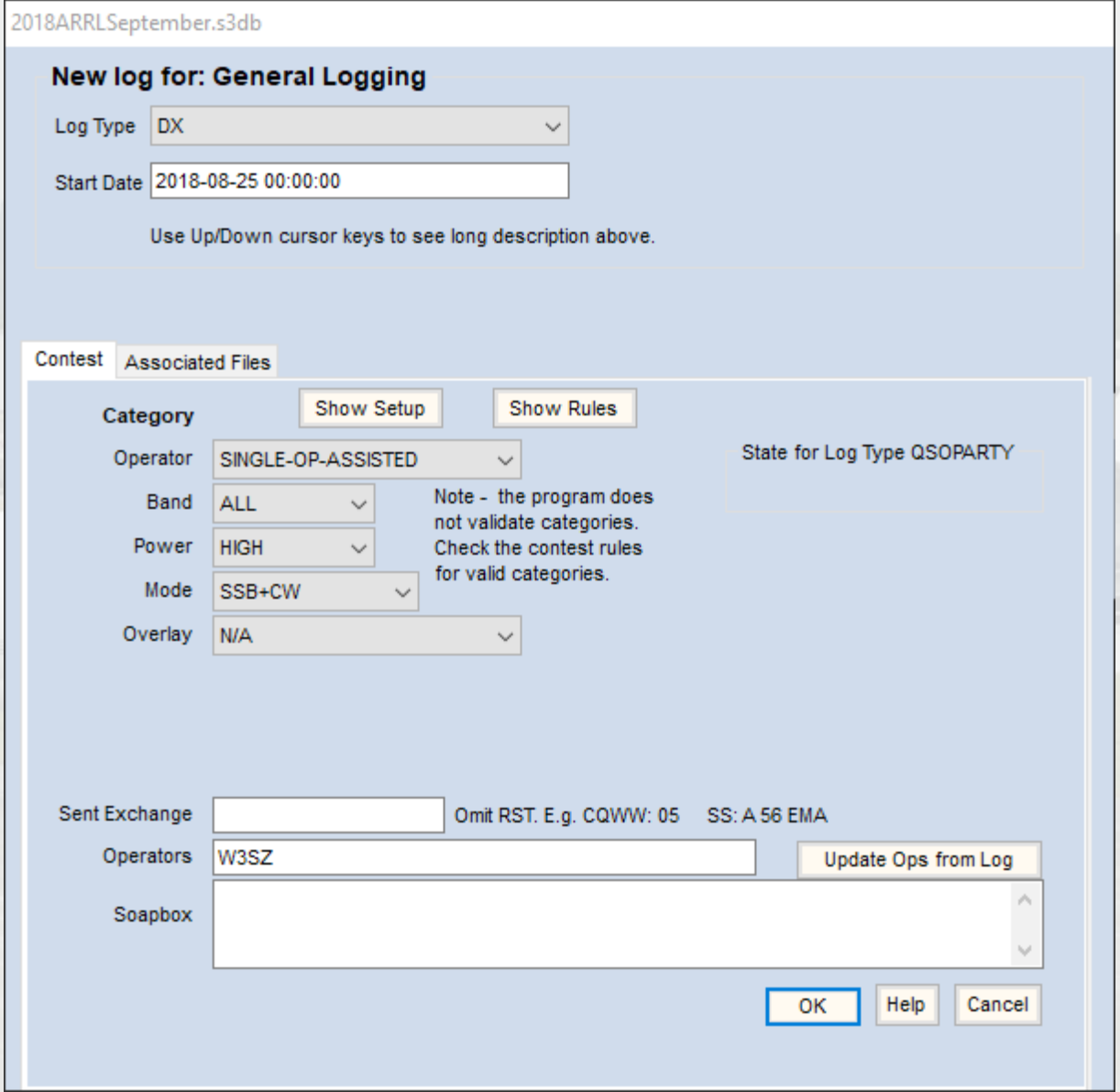
In the **Entry Window**:

Click **File**

Click **New Log in Database: 2018ARRLSeptember.s3db**



Click on the arrow for the **LogType** dropdown menu

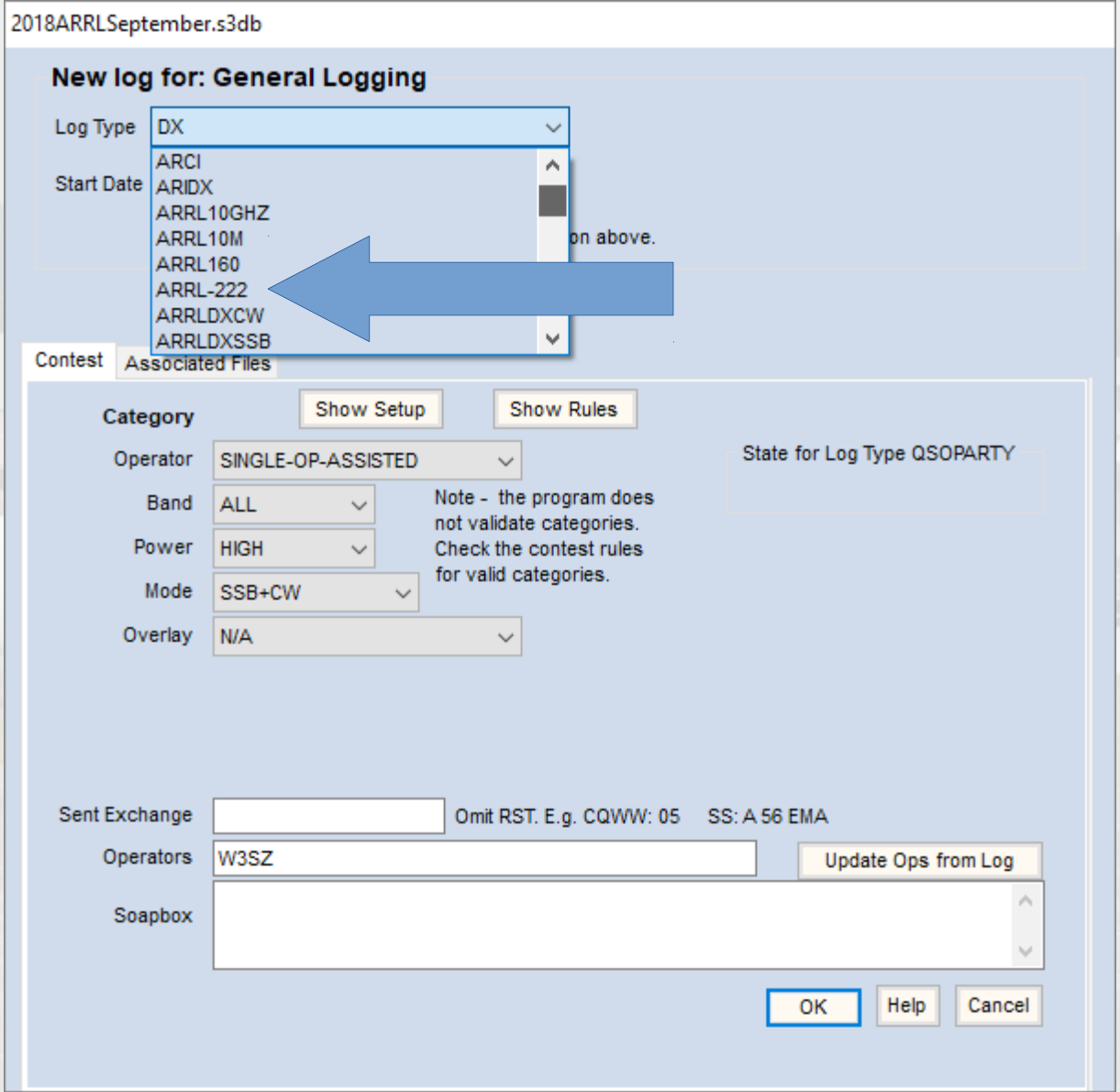


Scroll down to the contest type you want

(remember, we chose “ARRL-222” when we downloaded the UDC file)

And Click that contest name

ARRL-222.



Complete the form:

Set the **Start Date** and time.

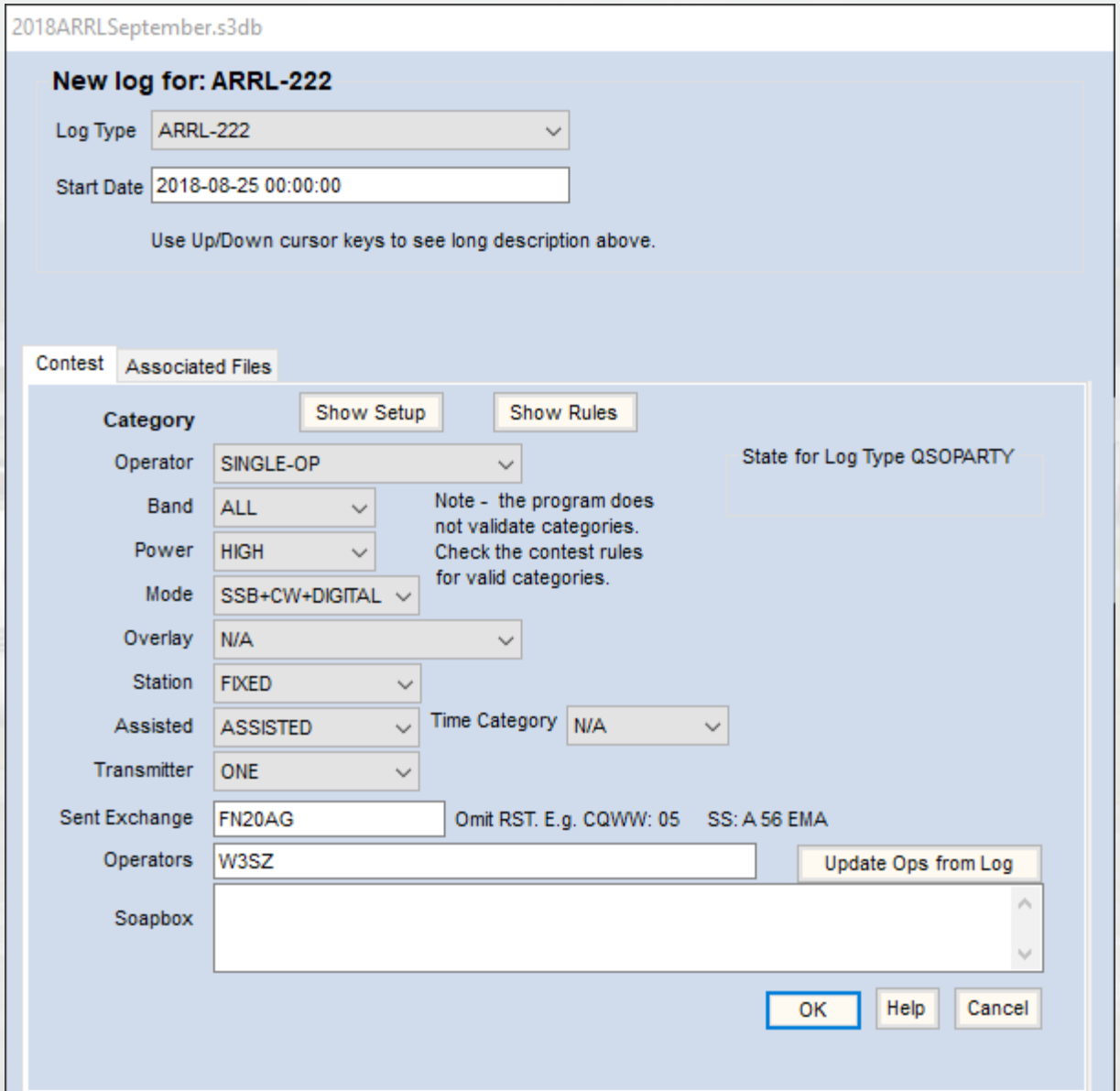
Enter your grid (4 or 6 digit as appropriate) into the **Sent Exchange** textbox.

Enter the **Operators**

Set the other drop-downs to the appropriate values.

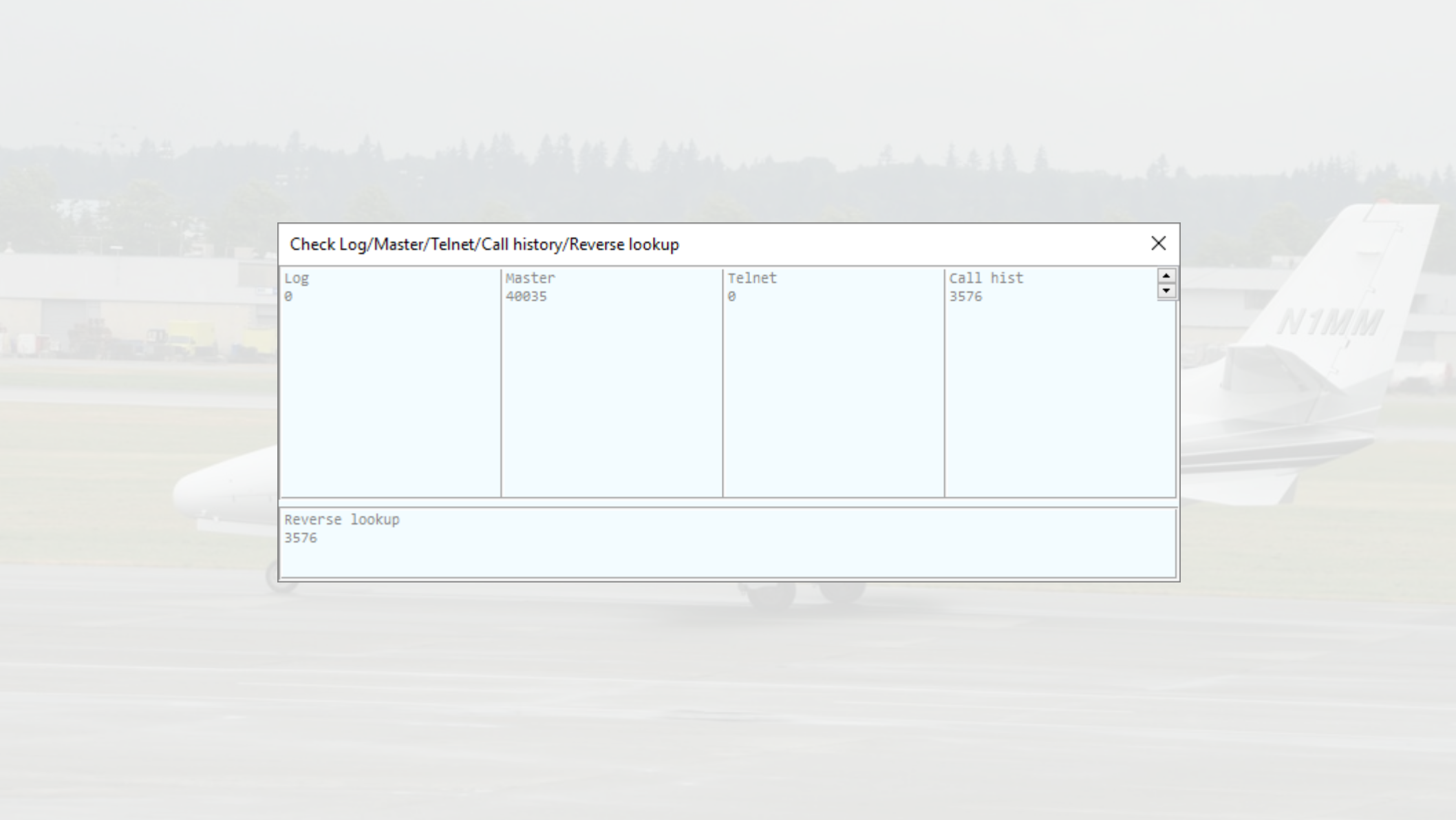
If you may be making some digital contacts, make sure that **Mode** is set to **SSB+CW+DIGITAL**

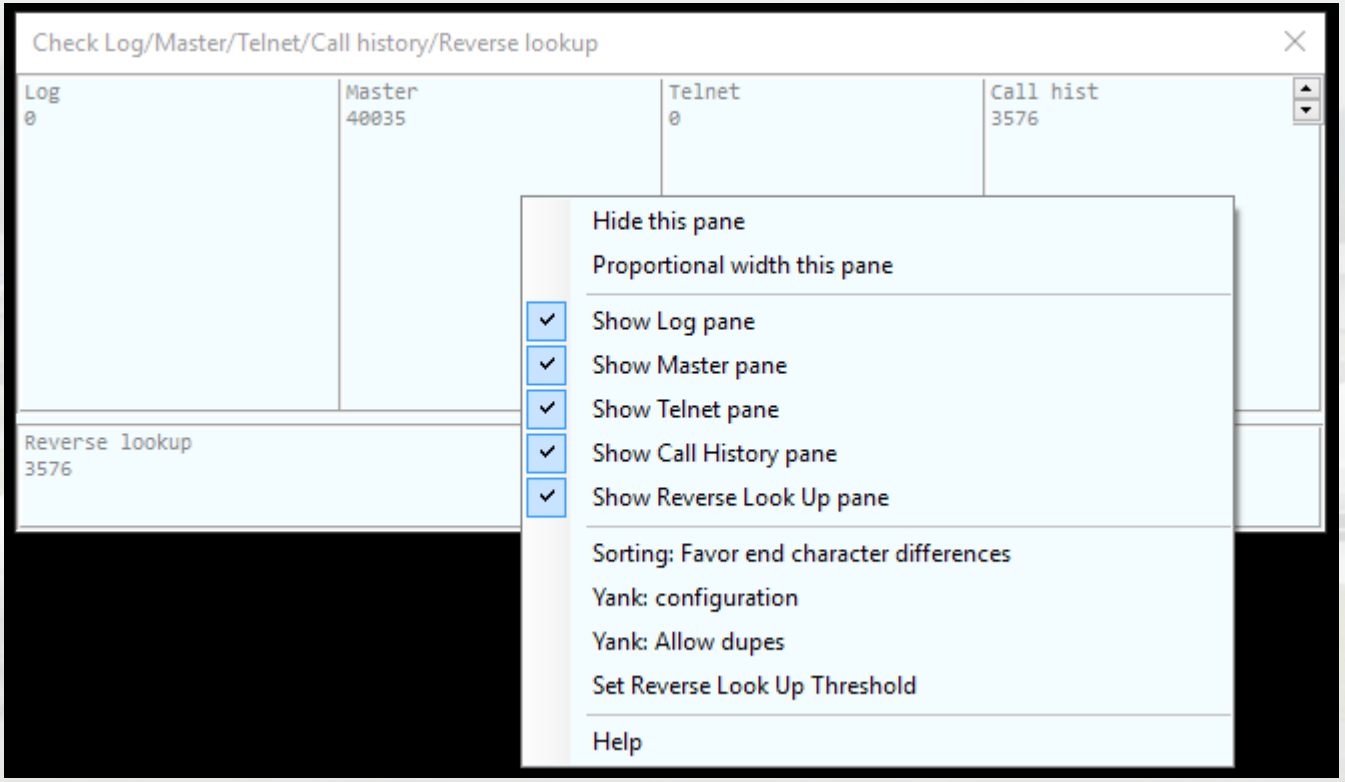
When finished, Click **OK** (We will come back to **Associated Files** in a minute).

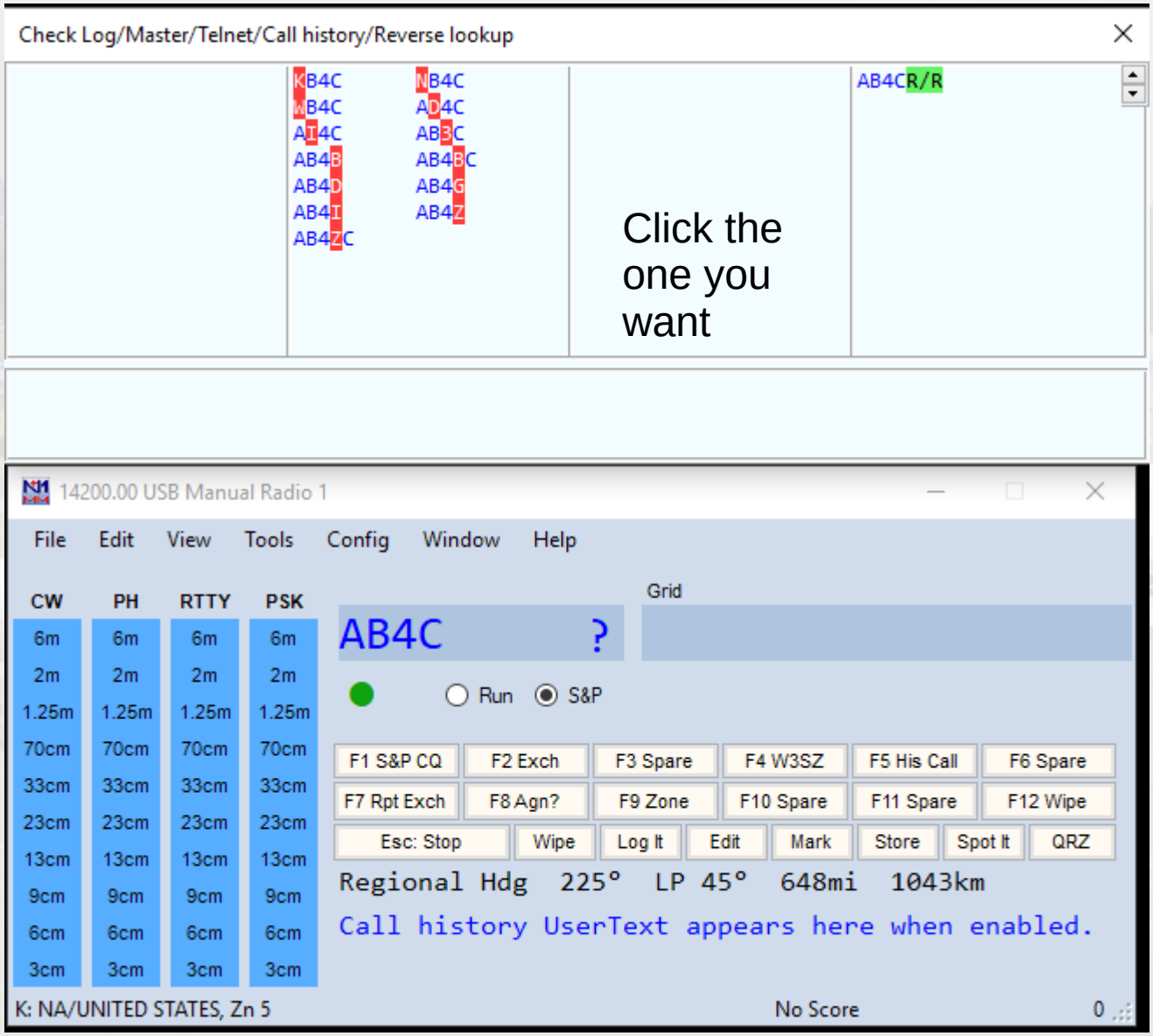


Super Check Partial master.scp file

- Master.scp file is a list of known “good” callsigns
- When you start typing a call into the entry window, possible matches will appear in the **Check** window
  - Callsigns that differ from the one you have typed by one letter have difference highlighted in red
  - Callsigns that are longer than what you have typed have the additional characters highlighted in green
- Check window can also show matches from the **Log**, **Telnet**, and the **Call History** file


Check Log/Master/Telnet/Call history/Reverse lookup
Log
0
Master
40035
Telnet
0
Call hist
3576
Reverse lookup
3576

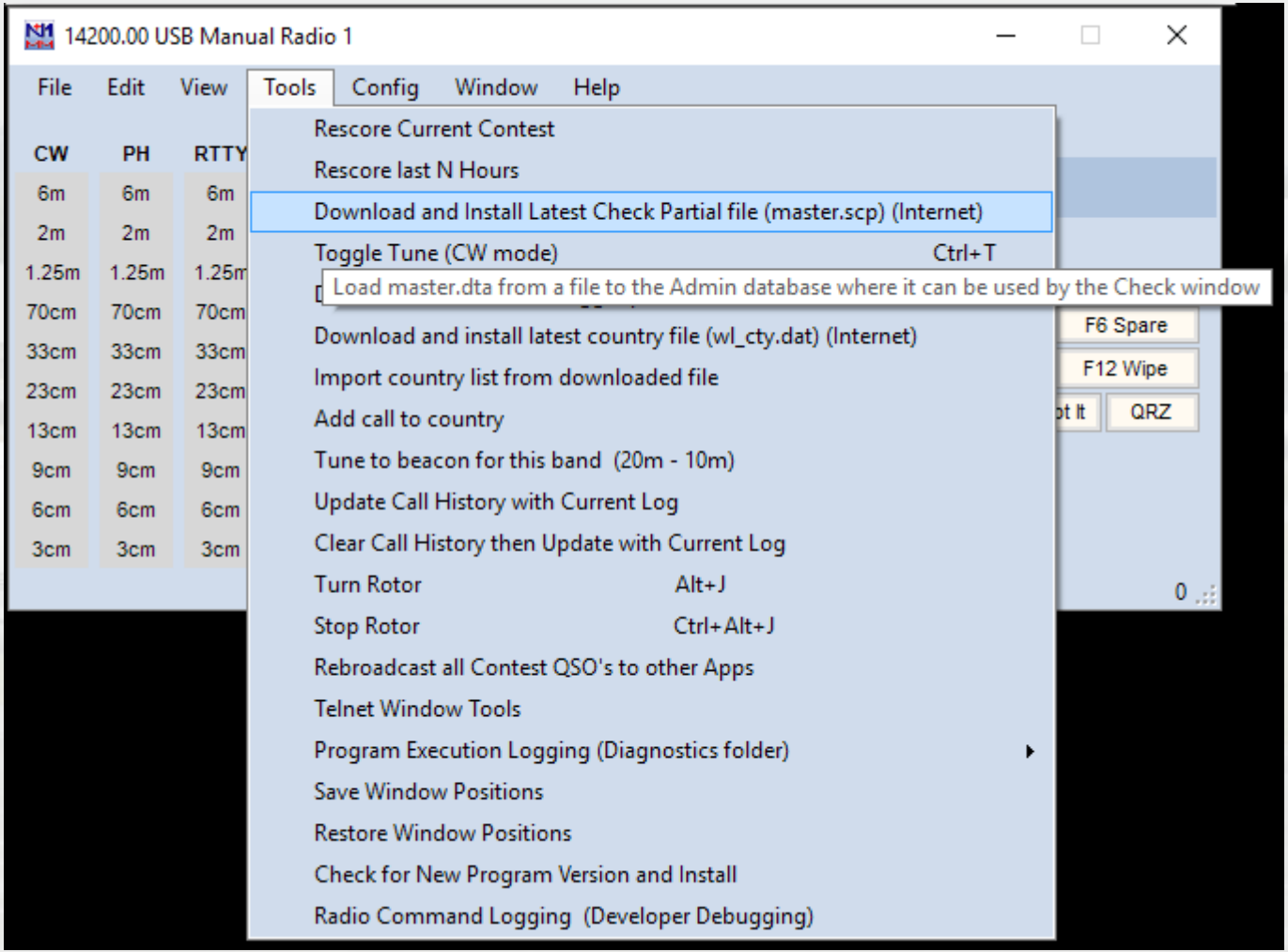

Check Log/Master/Telnet/Call history/Reverse lookup
Log
0
Master
40035
Telnet
0
Call hist
3576
Reverse lookup
3576
Hide this pane
Proportional width this pane
Show Log pane
Show Master pane
Show Telnet pane
Show Call History pane
Show Reverse Look Up pane
Sorting: Favor end character differences
Yank: configuration
Yank: Allow dupes
Set Reverse Look Up Threshold
Help

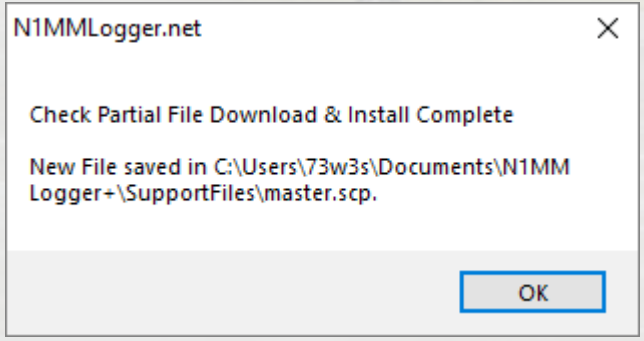

Check Log/Master/Telnet/Call history/Reverse lookup
KB4C
MB4C
AI4C
AB4B
AB4D
AB4I
AB4ZC
NB4C
AD4C
ABBC
AB4BC
AB4G
AB4Z
Click the one you want
AB4CR/R
14200.00 USB Manual Radio 1
File
Edit
View
Tools
Config
Window
Help
CW
PH
RTTY
PSK
6m
2m
1.25m
70cm
33cm
23cm
13cm
9cm
6cm
3cm
AB4C ?
Grid
Run
S&P
F1 S&P CQ
F2 Exch
F3 Spare
F4 W3SZ
F5 His Call
F6 Spare
F7 Rpt Exch
F8 Agn?
F9 Zone
F10 Spare
F11 Spare
F12 Wipe
Esc: Stop
Wipe
Log It
Edit
Mark
Store
Spot It
QRZ
Regional Hdg 225° LP 45° 648mi 1043km
Call history UserText appears here when enabled.
K: NA/UNITED STATES, Zn 5
No Score
0

Download latest **master.scp** file:

Click **Tools**

Click **Download and Install Latest Check Partial file (master.scp) (Internet)**

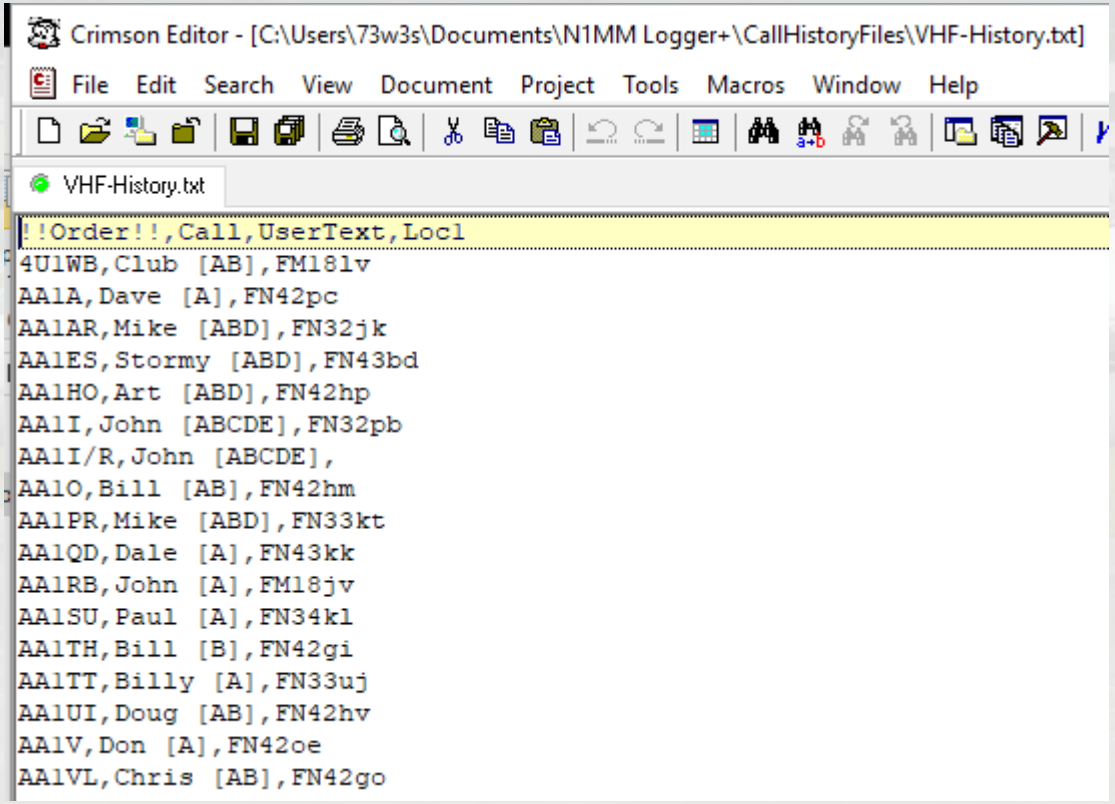




Call History Lookup File

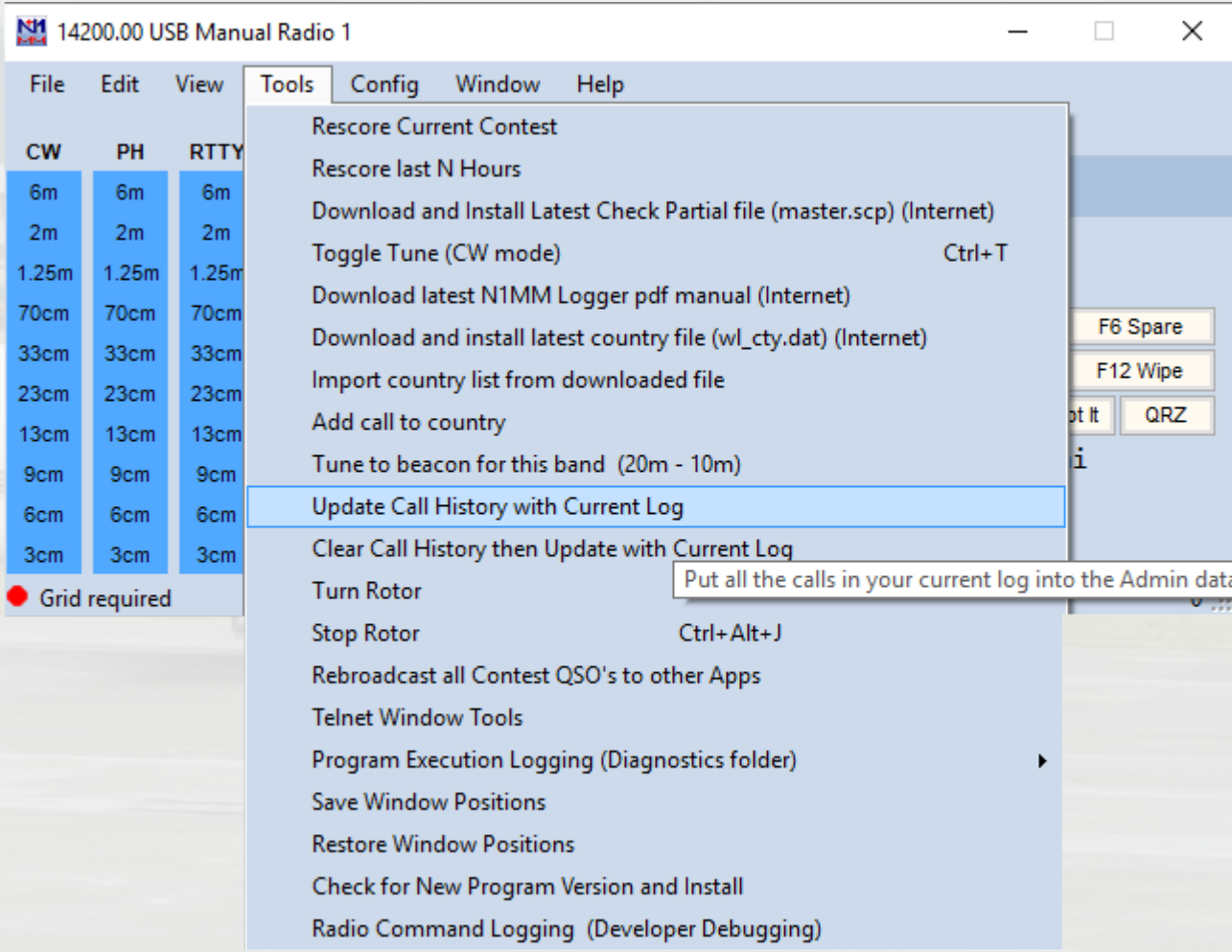
- **Call History File** supplies not only calls for the **Check** window, but also potentially contains Name, Section, State, Grid, and other information
- If used, it will automatically populate the **Grid** field when a call is entered into the **Entry** window followed by a tap on the **space bar**.

Call History Lookup File



Call History Lookup File

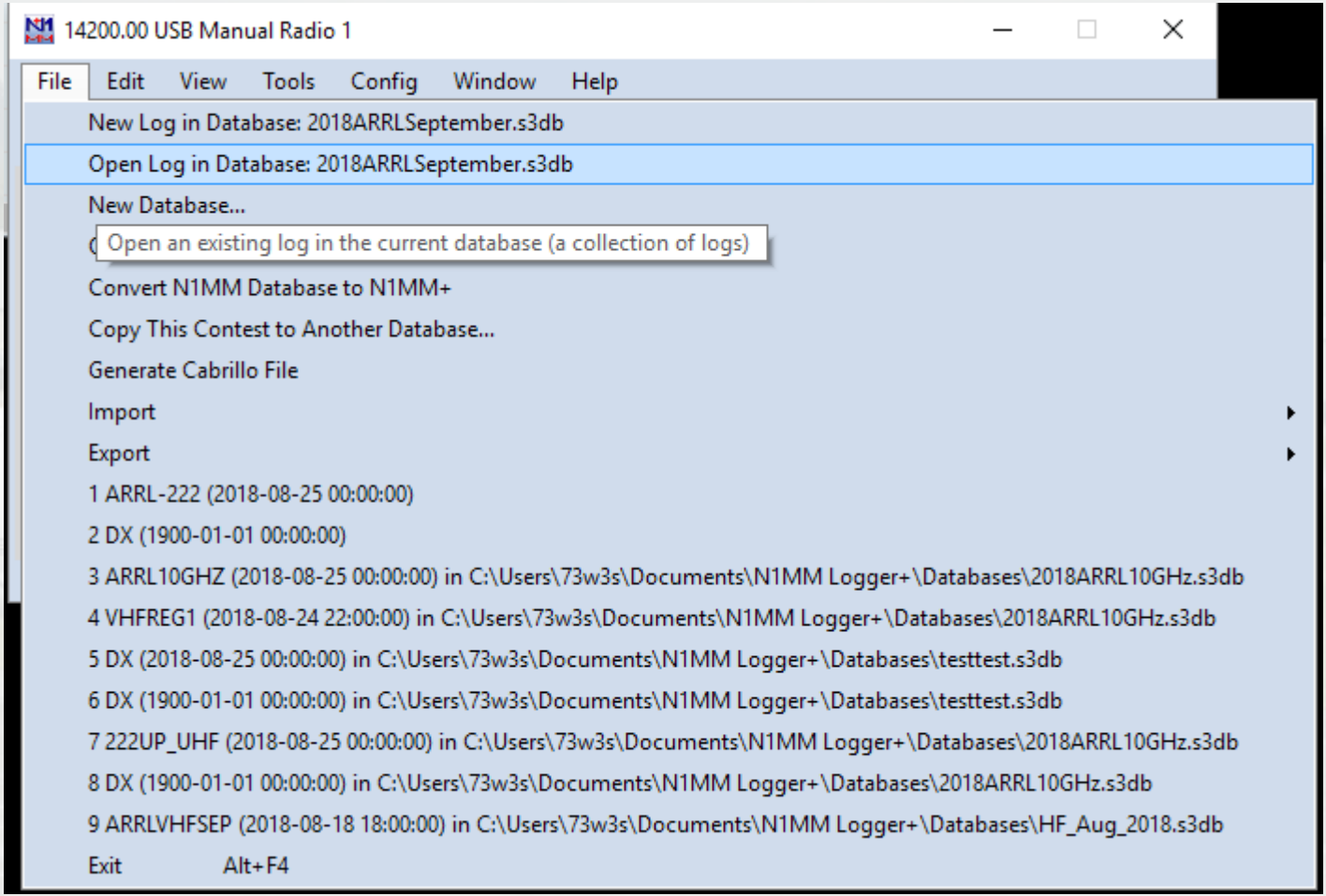
- Can create using any text editor
- Can create from current log
- Can keep adding to **Call History File** by sequentially entering contest logs as you create them



Once **Call History File** has been created or updated, need to associate it with the contest:

On **Entry Window**, Click File

Then Click **Open Log in Database: 2018ARRLSeptember.s3db**

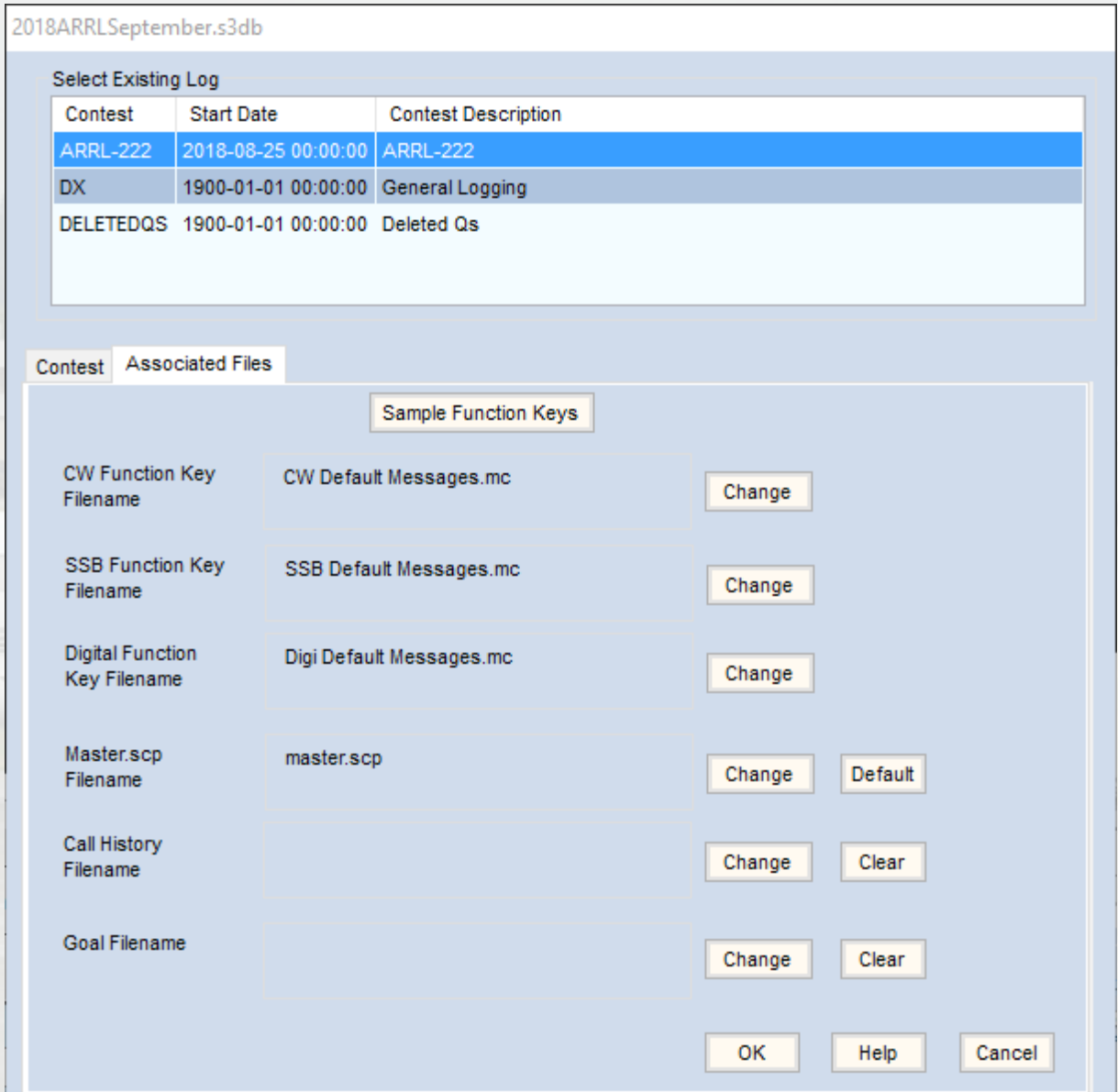


This will bring up the **Contest Setup Window**

Click on **Associated Files**

Then on the row marked **Call History Filename** and click **Change.**

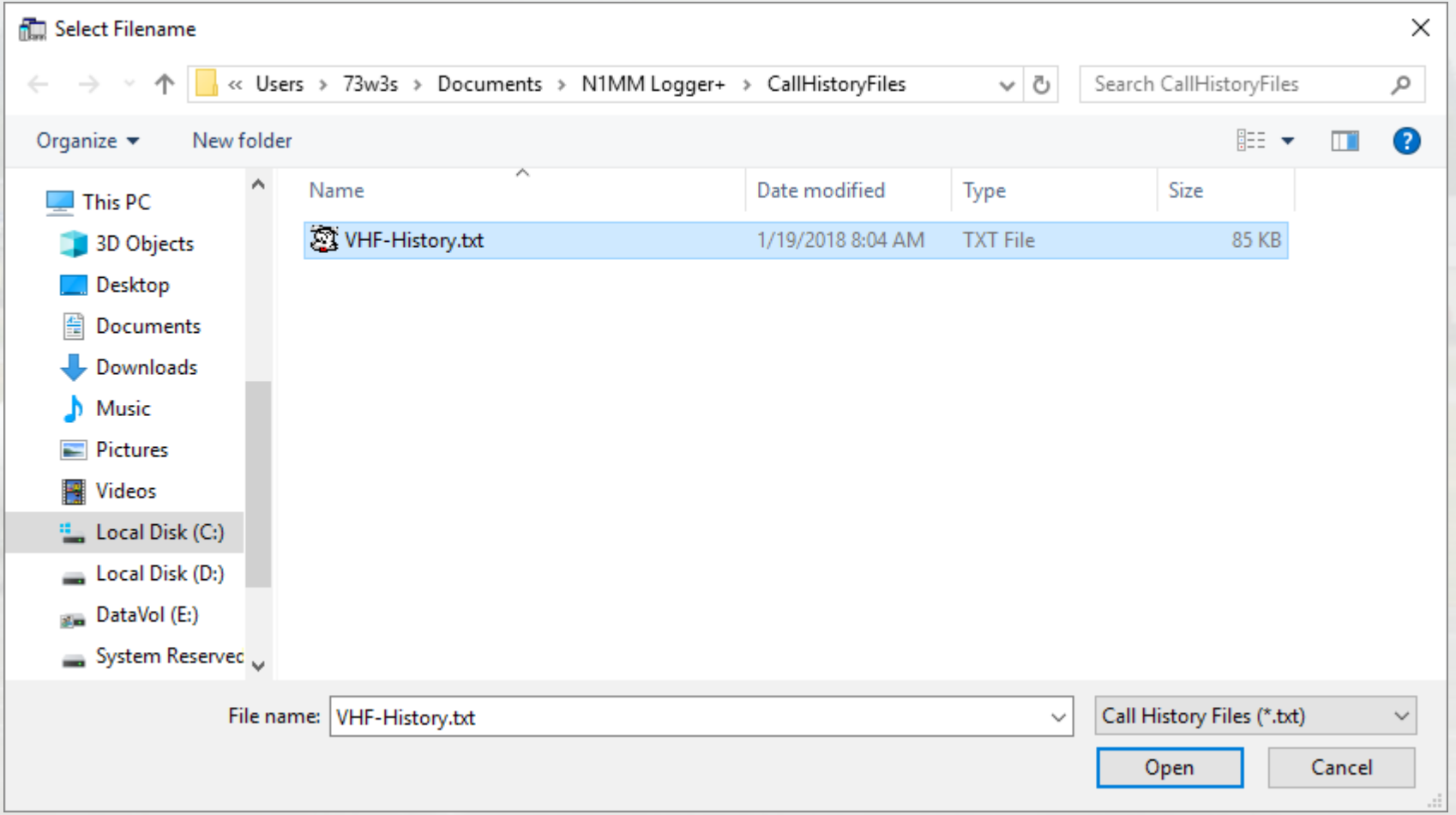
(You don’t need to do this if you set up the **Call History File** location for a previous contest, unless you want to select a different **Call History File**).



Select the desired **Call History File** and Click **Open**.

You will be returned to the **Contest Setup Window**.

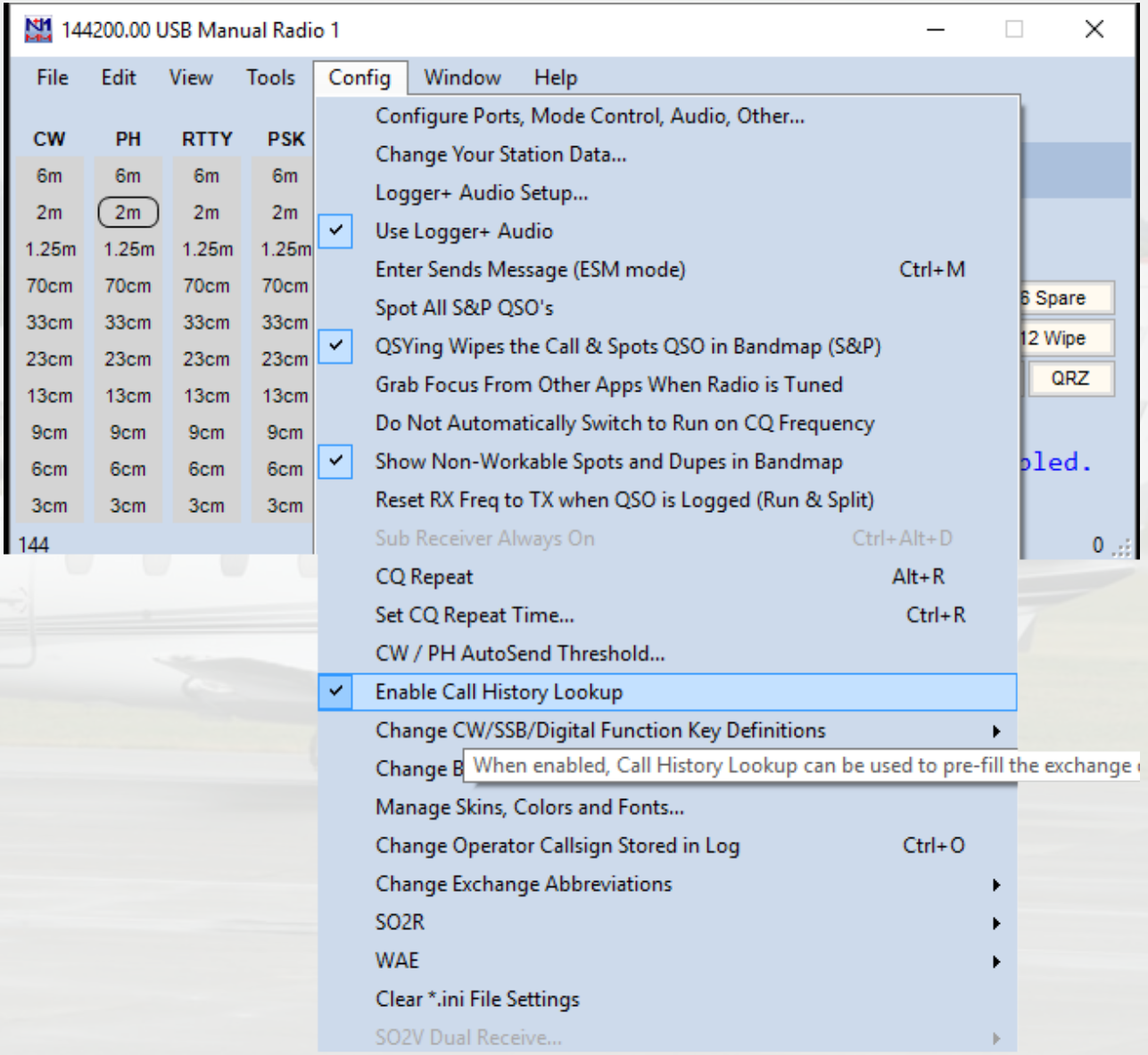
Click **OK**.



Don’t forget to ENABLE Call History Lookup!

On **Entry Window**, Click **Config**

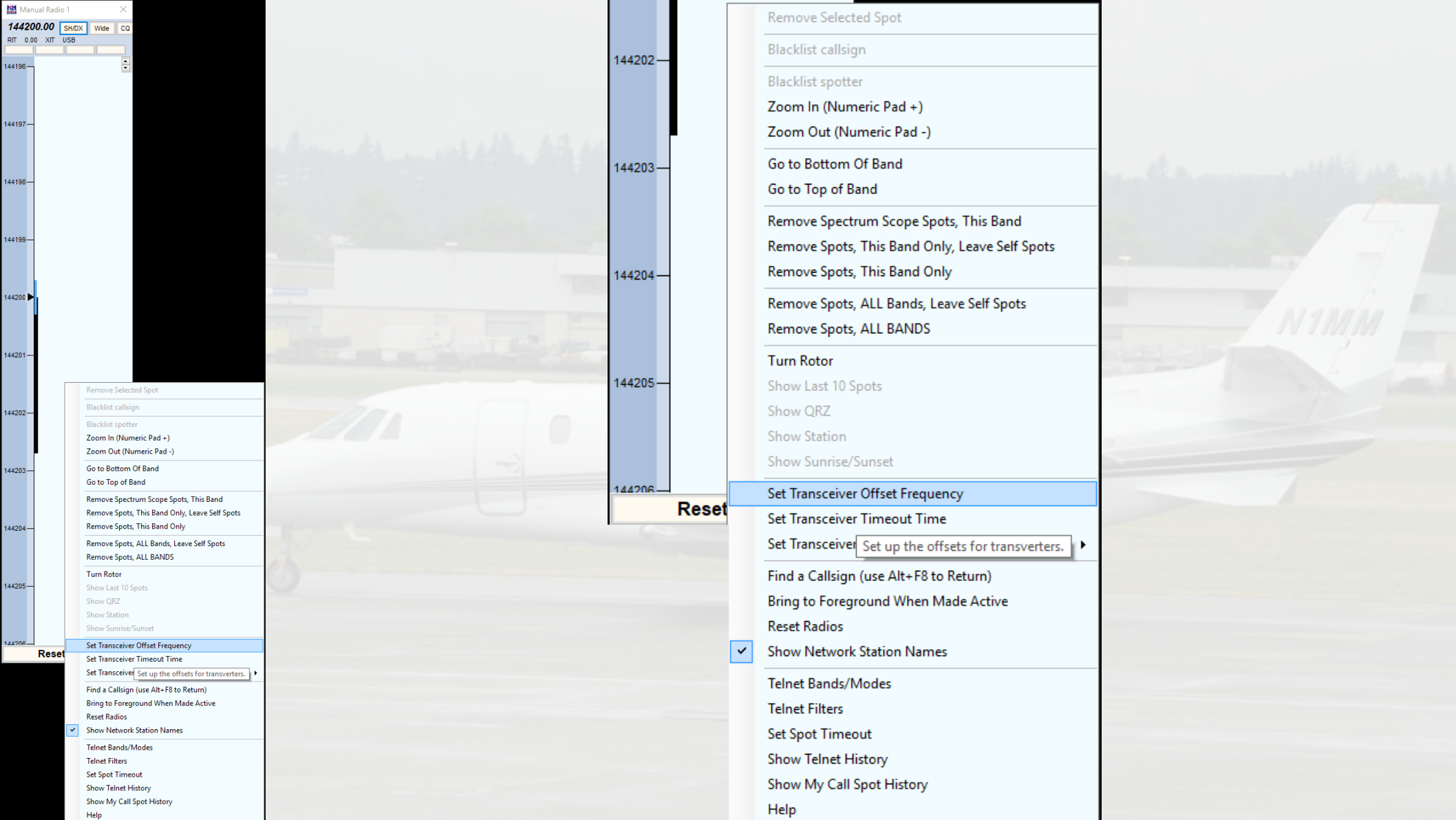
Then Click
Enable Call History Lookup

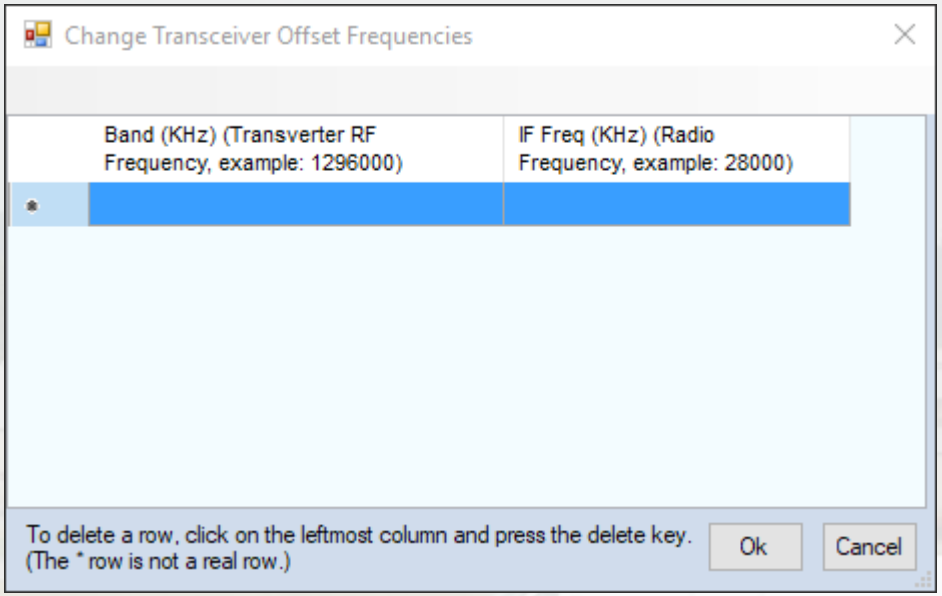


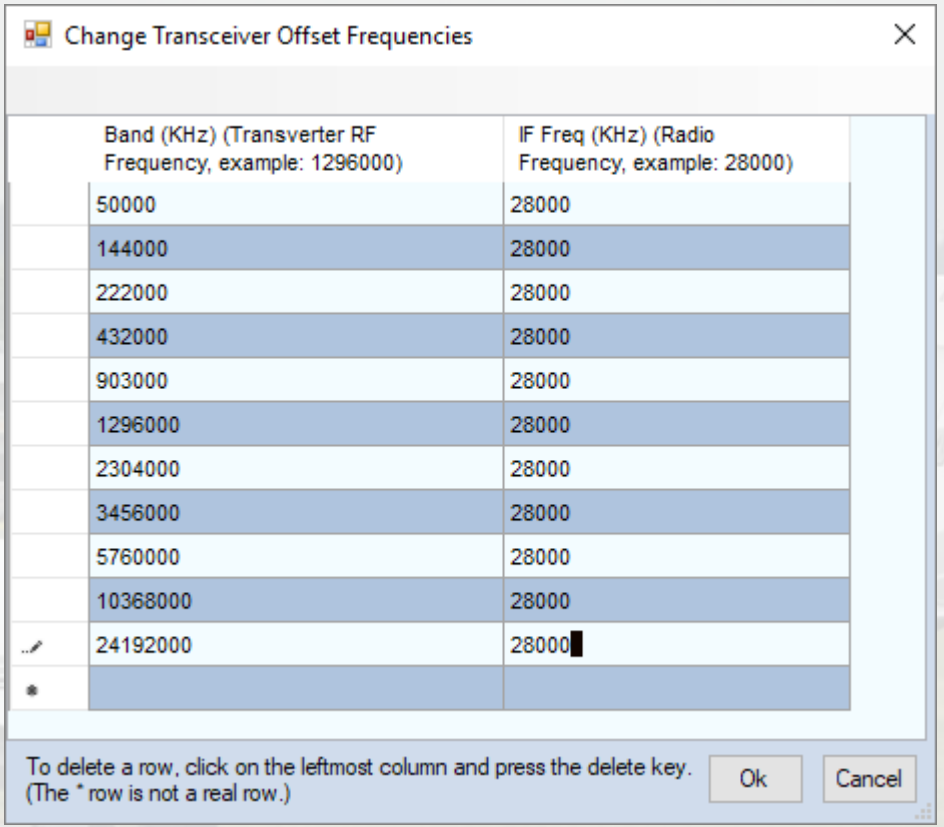
Setup Transverter Offsets

- This needs to be done on a per-band basis, using the bandmap
- Right-click on the bandmap and Click **Set transceiver offset frequency**

(See next slide)


Manual Radio 1
144200.00
SH/DX
Wide
CQ
RIT 0.00 XIT USB
144196
144197
144198
144199
144200
144201
144202
144203
144204
144205
144206
Reset
Remove Selected Spot
Blacklist callsign
Blacklist spotter
Zoom In (Numeric Pad +)
Zoom Out (Numeric Pad -)
Go to Bottom Of Band
Go to Top of Band
Remove Spectrum Scope Spots, This Band
Remove Spots, This Band Only, Leave Self Spots
Remove Spots, This Band Only
Remove Spots, ALL Bands, Leave Self Spots
Remove Spots, ALL BANDS
Turn Rotor
Show Last 10 Spots
Show QRZ
Show Station
Show Sunrise/Sunset
Set Transceiver Offset Frequency
Set Transceiver Timeout Time
Set Transceiver
Set up the offsets for transverters.
Find a Callsign (use Alt+F8 to Return)
Bring to Foreground When Made Active
Reset Radios
Show Network Station Names
Telnet Bands/Modes
Telnet Filters
Set Spot Timeout
Show Telnet History
Show My Call Spot History
Help
144202
144203
144204
144205
144206
Reset
Remove Selected Spot
Blacklist callsign
Blacklist spotter
Zoom In (Numeric Pad +)
Zoom Out (Numeric Pad -)
Go to Bottom Of Band
Go to Top of Band
Remove Spectrum Scope Spots, This Band
Remove Spots, This Band Only, Leave Self Spots
Remove Spots, This Band Only
Remove Spots, ALL Bands, Leave Self Spots
Remove Spots, ALL BANDS
Turn Rotor
Show Last 10 Spots
Show QRZ
Show Station
Show Sunrise/Sunset
Set Transceiver Offset Frequency
Set Transceiver Timeout Time
Set Transceiver
Set up the offsets for transverters.
Find a Callsign (use Alt+F8 to Return)
Bring to Foreground When Made Active
Reset Radios
Show Network Station Names
Telnet Bands/Modes
Telnet Filters
Set Spot Timeout
Show Telnet History
Show My Call Spot History
Help



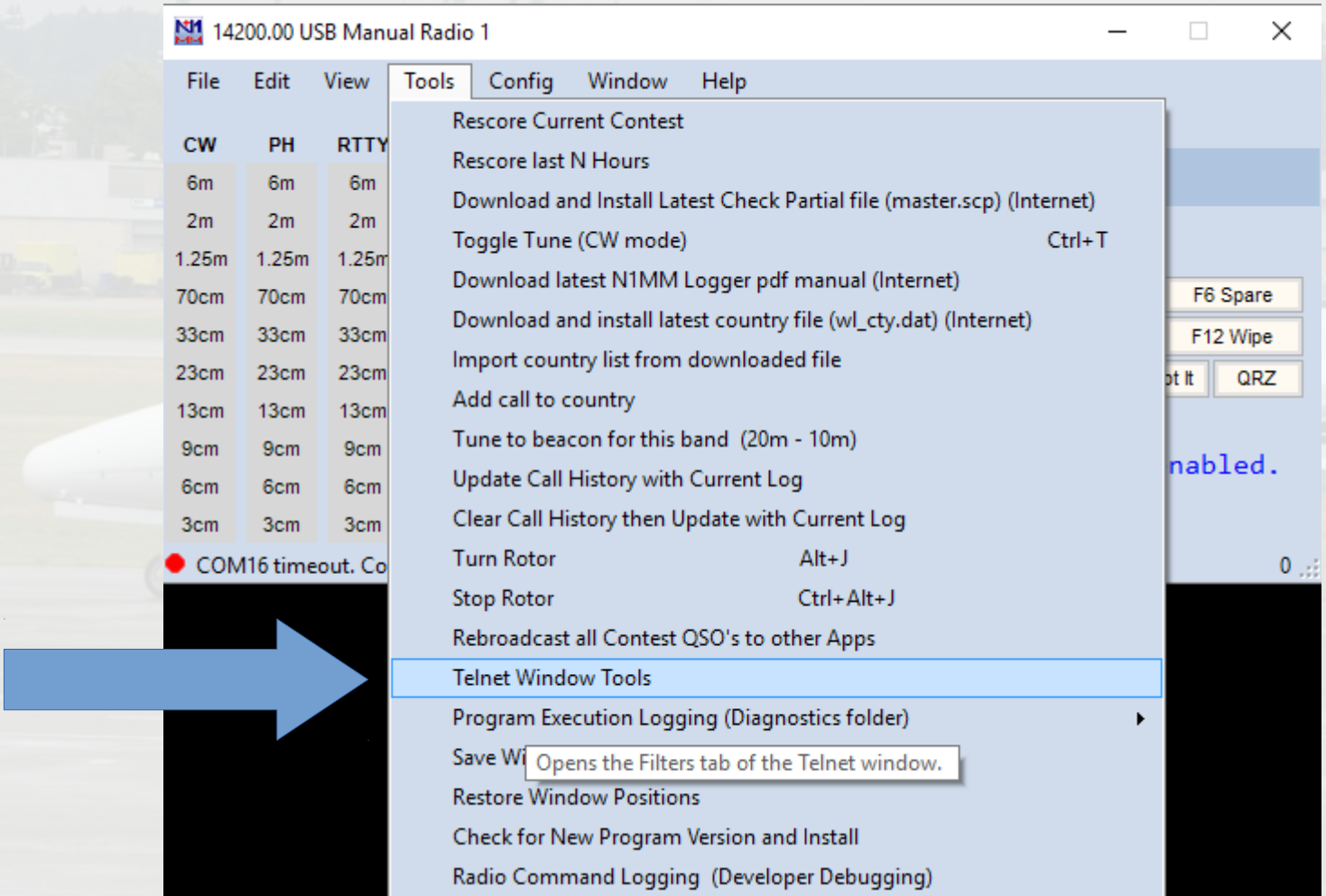


Fill in your transverter RF frequencies and IF frequencies and click **OK**.

NO NEED for you to calculate your LO frequencies!

You can also add a correction in 10s of Hz, e.g. 144000,12 for a correction of 120 Hz

Setting up Packet / Telnet for N1MM



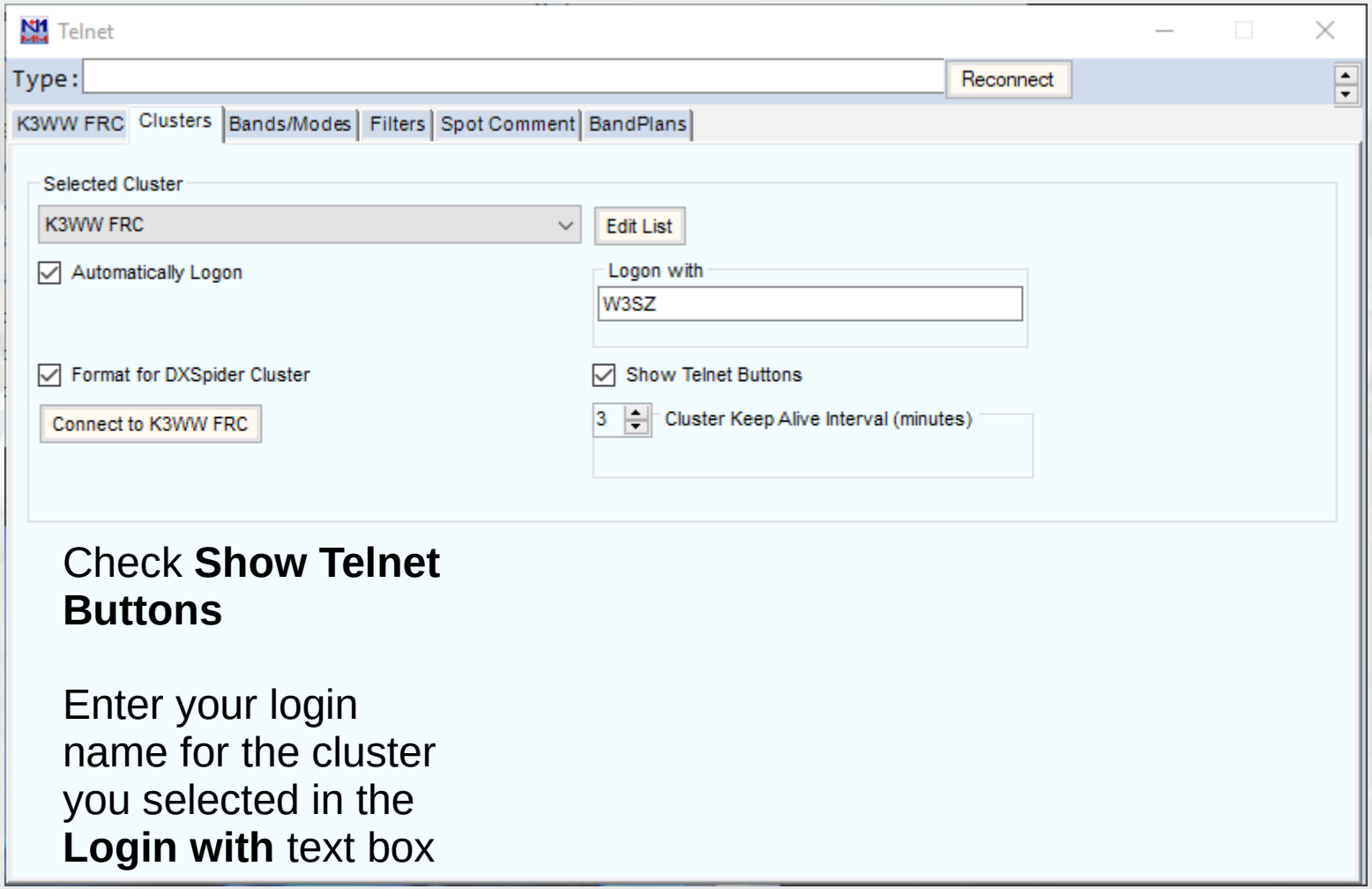
Telnet Setup:

Click on the **Clusters** tab

Use the **Selected Cluster** dropdown arrow / menu to select a cluster that you know has VHF and Up coverage

Check **Automatically Logon**

If its a **DXSpider Cluster**, check that box

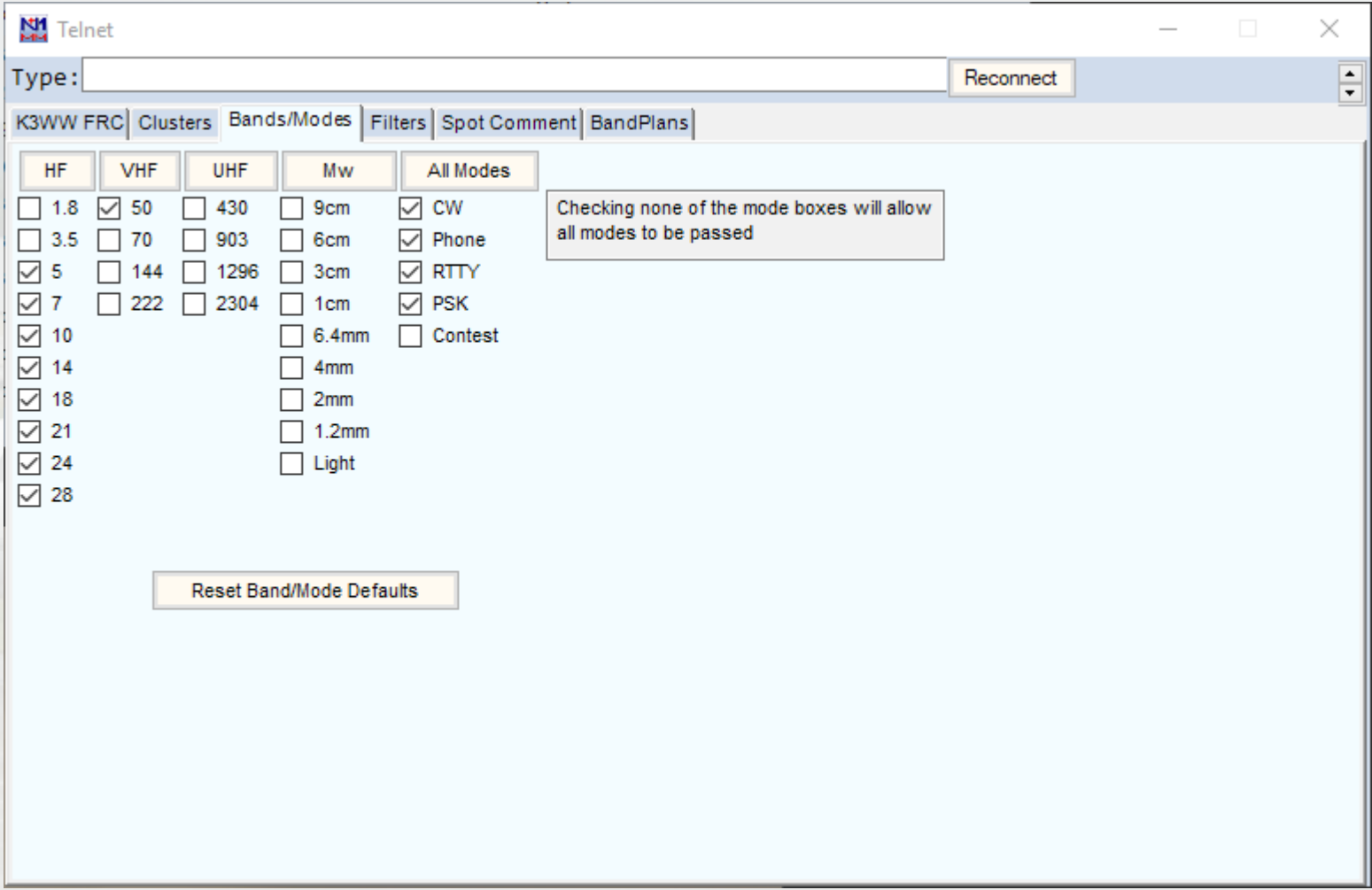


Check **Show Telnet Buttons**

Enter your login name for the cluster you selected in the **Login with** text box

Click the **Bands/Modes** tab

Check the boxes for the bands and modes for which you want to receive spots



Check the checkboxes for both:

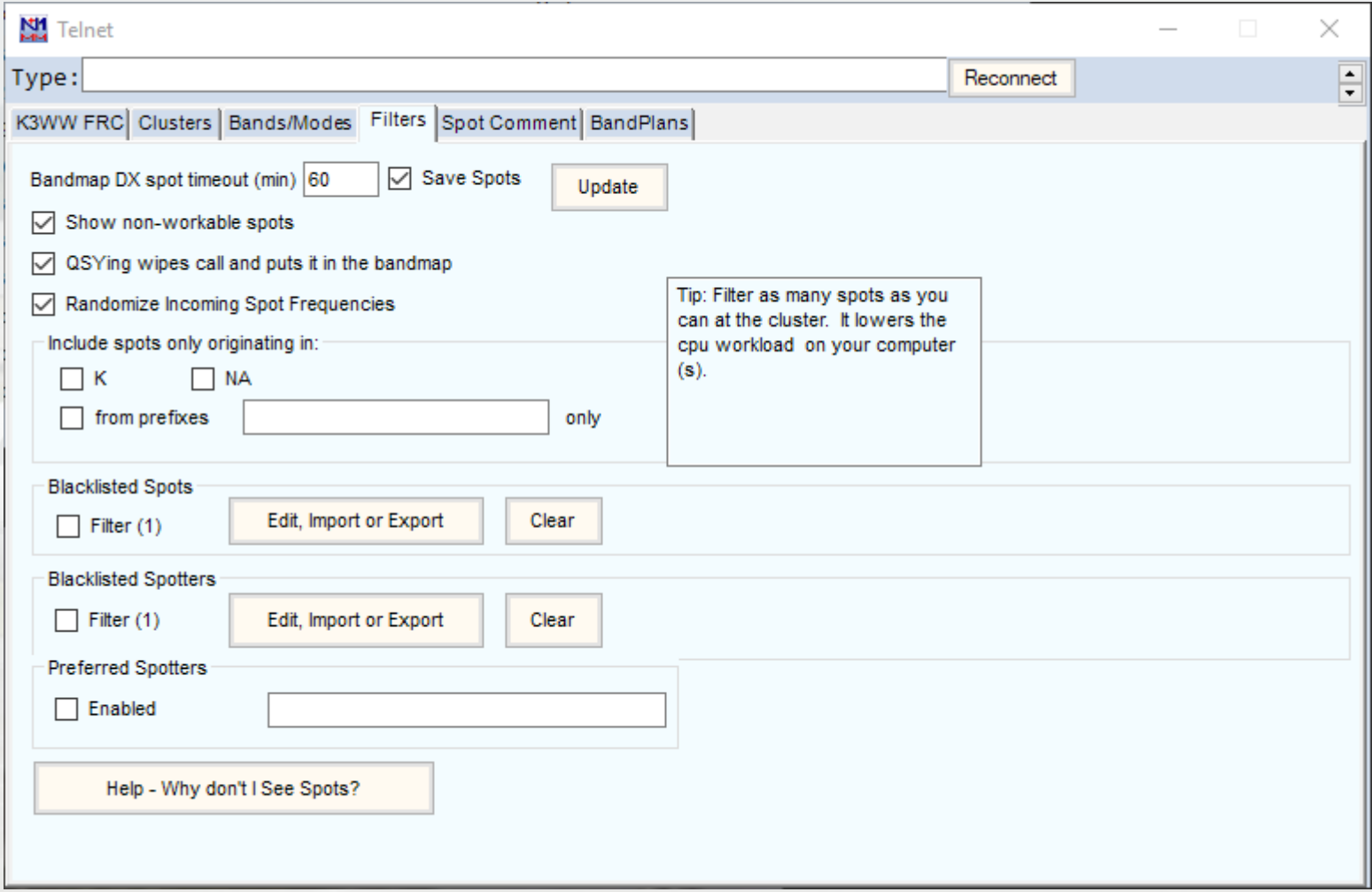
Show non-workable spots

and

QSYing wipes call and puts it in the bandmap

If desired, also filter by region / prefix

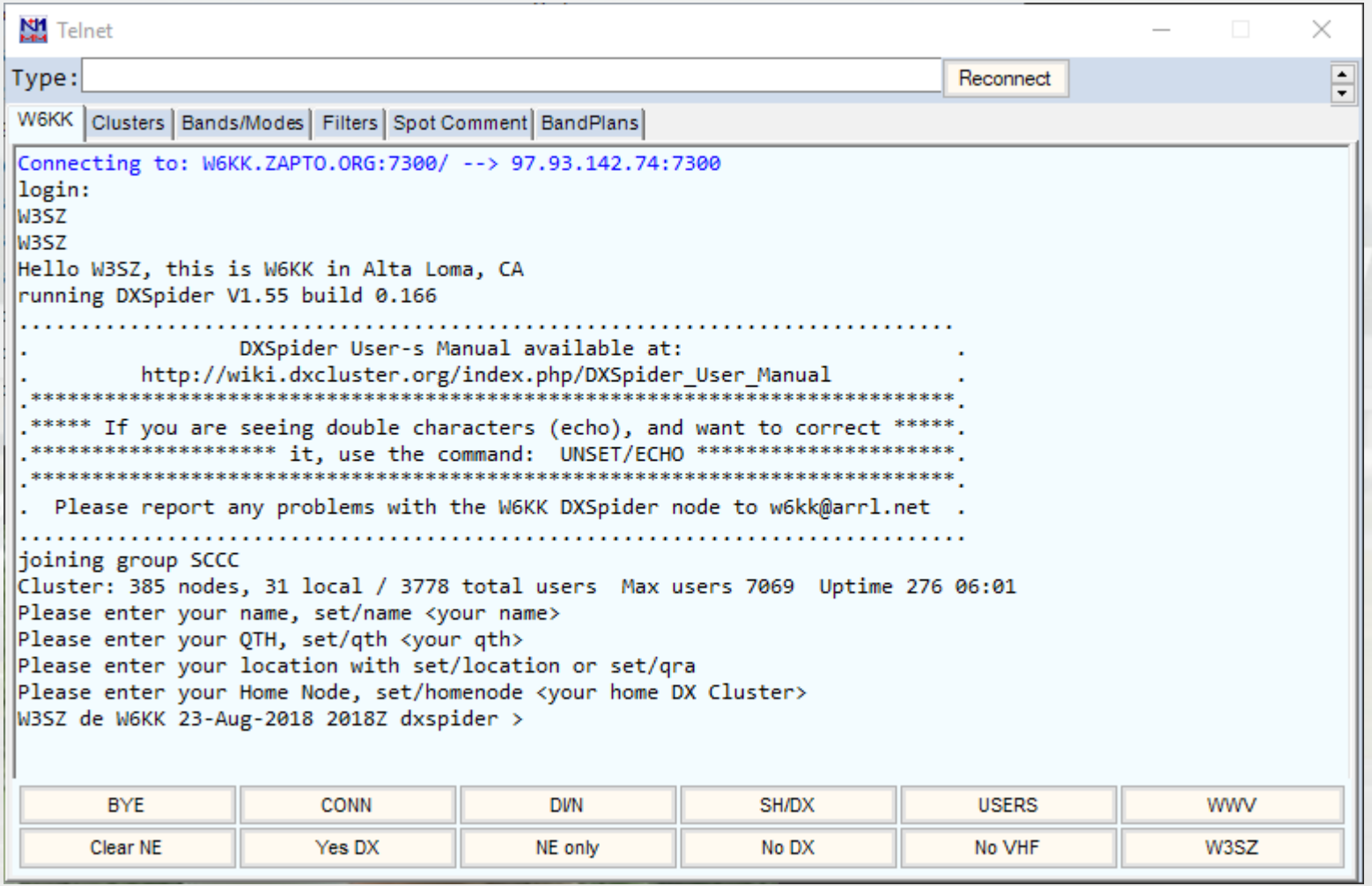
You can ignore the **Spot Comment** and **BandPlans** tabs



Click on the **first tab**, which will be labeled with the callsign of the DXCluster that you selected (here **W6KK**).

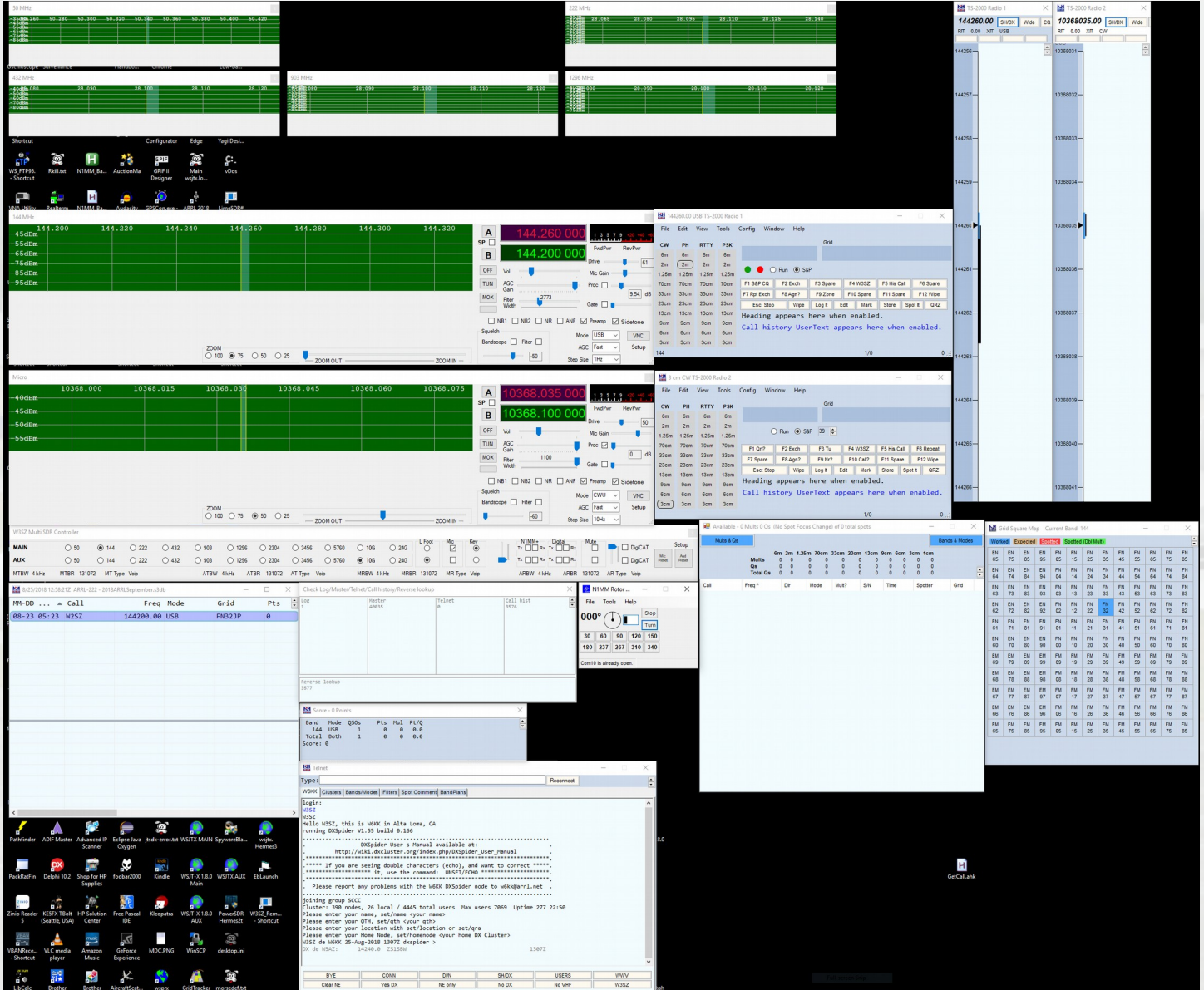
Check to make sure you are logged on successfully and that there are no errors.

Most DX Clusters use port 7300, and you may have to open your firewall, router, and modem for that port.

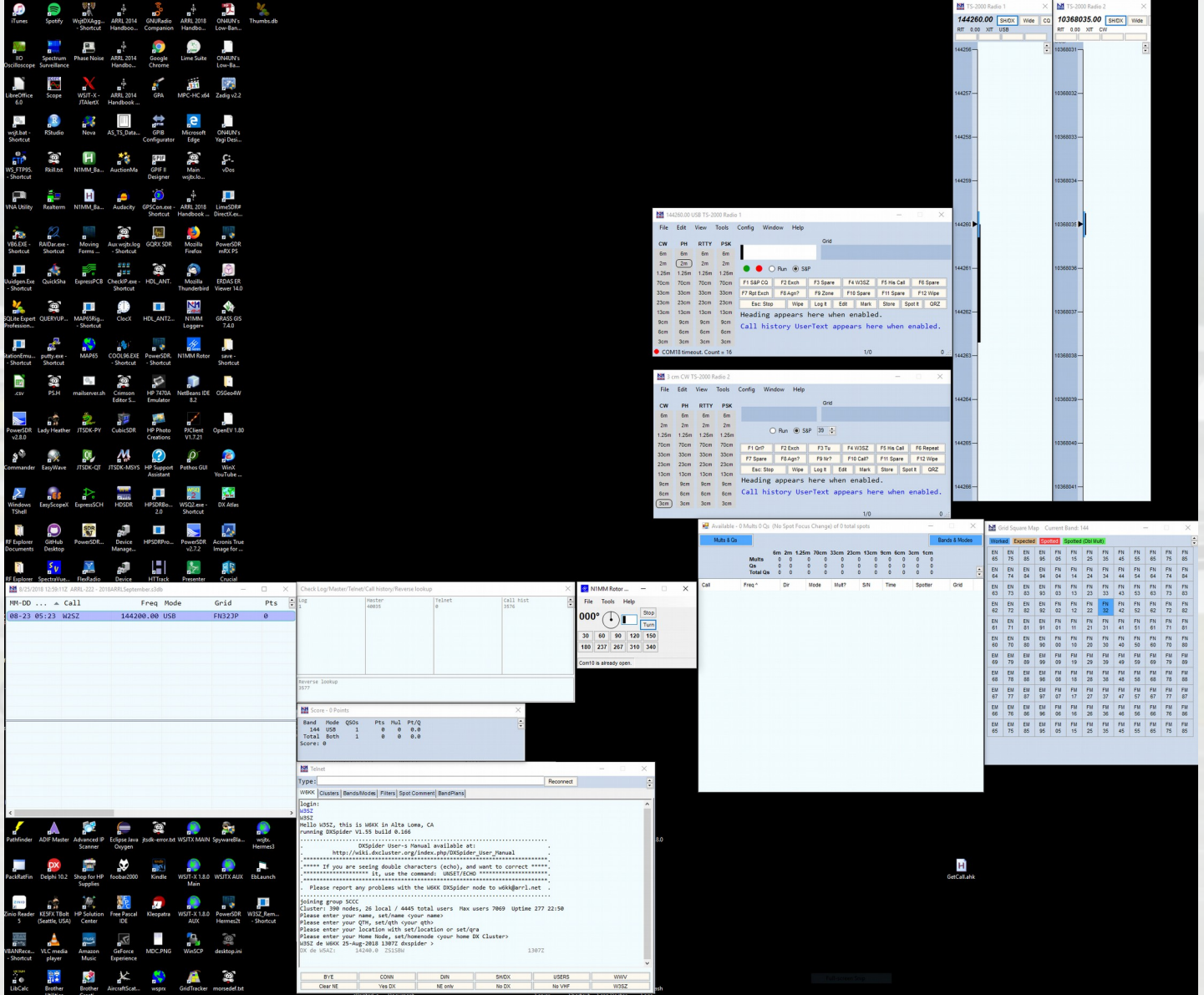


More info here:
http://n1mm.hamdocs.com/tiki-index.php?page=Telnet+Window

Setup N1MM Windows



Setup N1MM Windows



Test All N1MM Functions

Log contacts

Bandswitching And Radio Control

Rotor Control

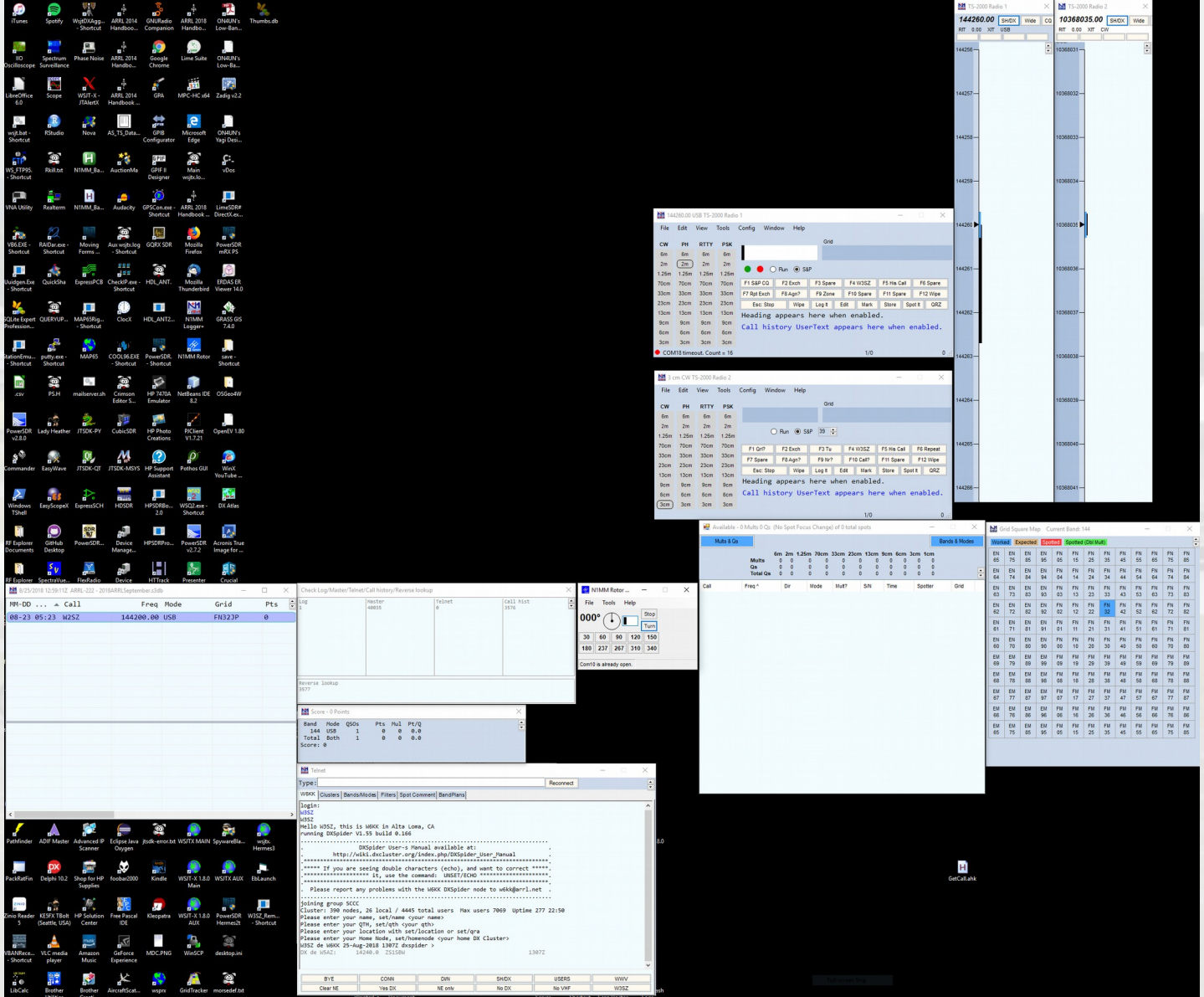
Telnet

Bandmap

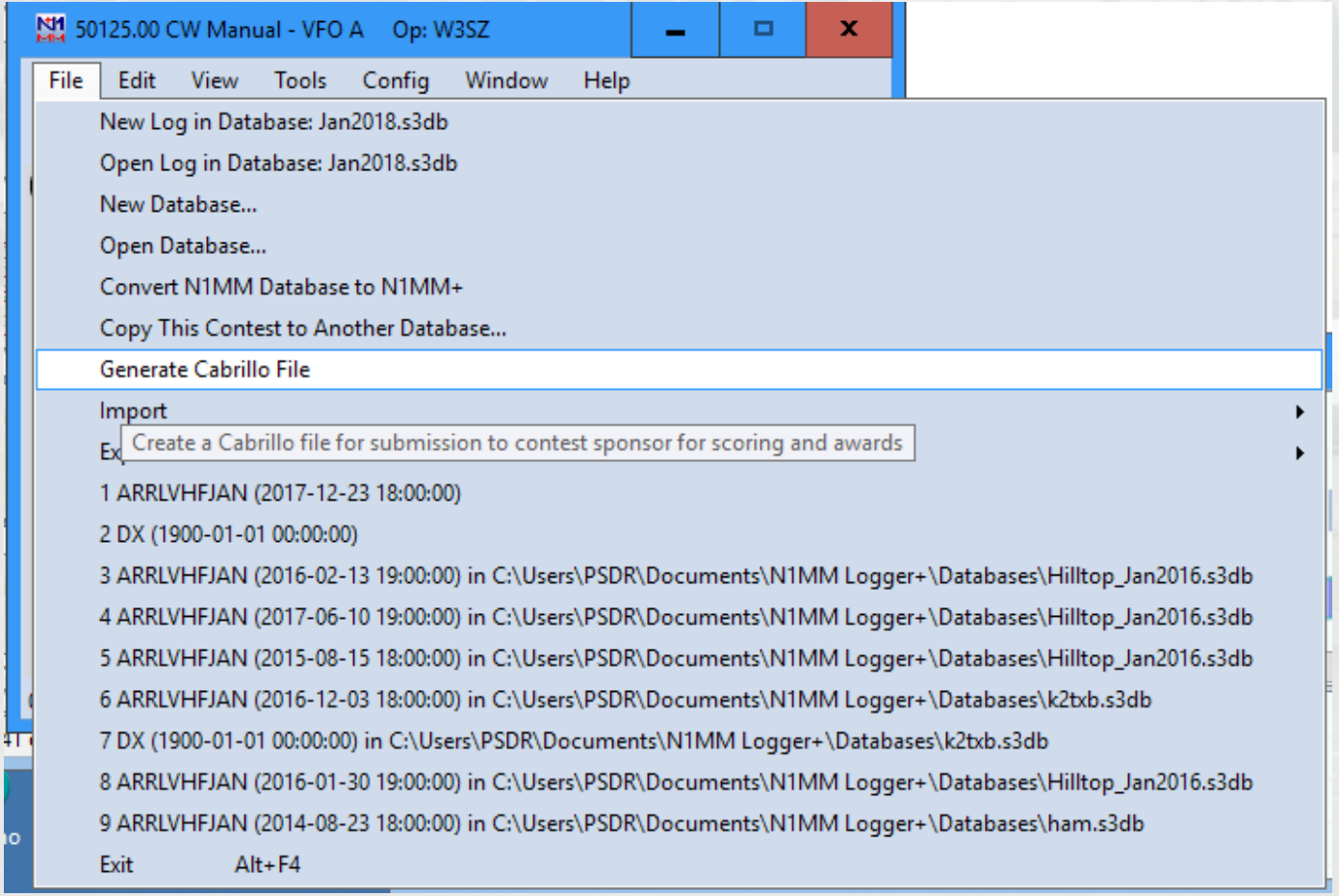
Super Check Partial (master.scp and Call History Lookup)

CW and DVK Keying, PTT, Audio

Macros/HotKeys

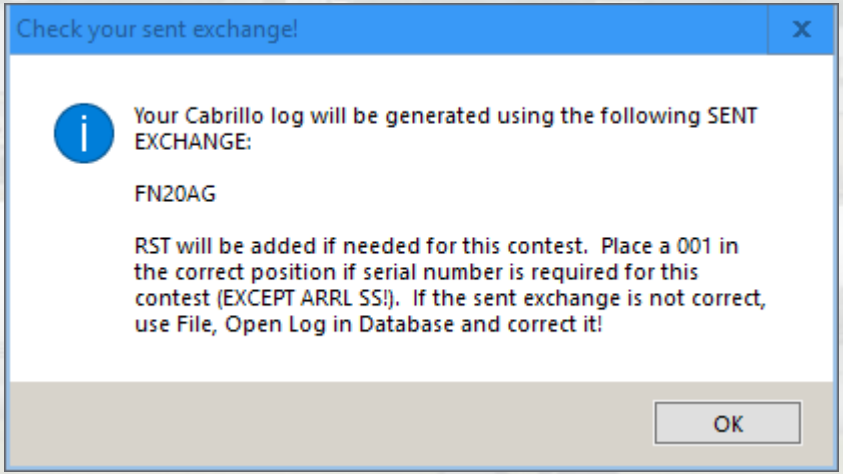


Create a Cabrillo



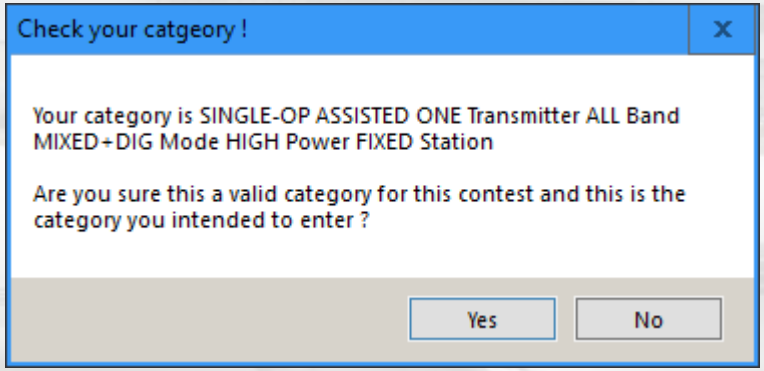
Click on “File” and then on “Generate Cabrillo File”

Create a Cabrillo



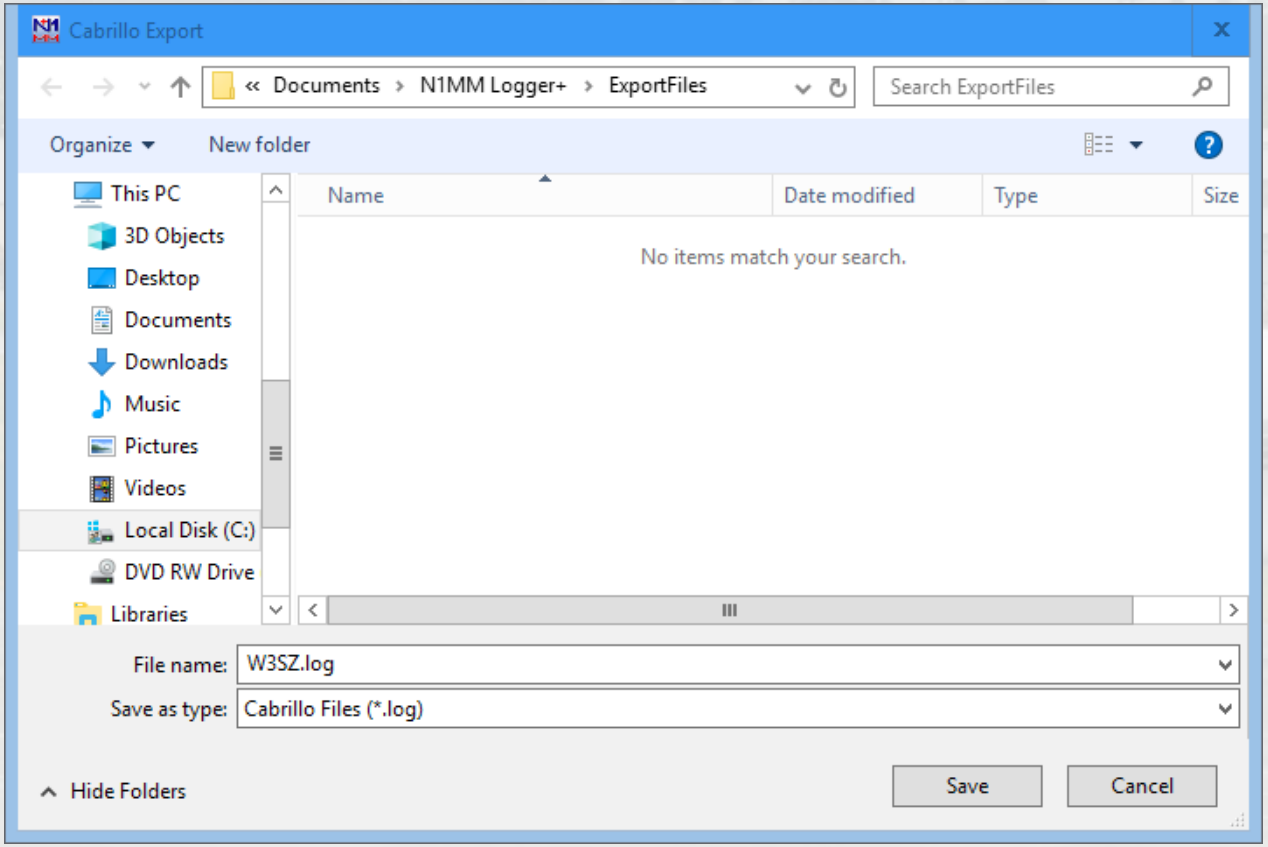
Click “OK”

Create a Cabrillo



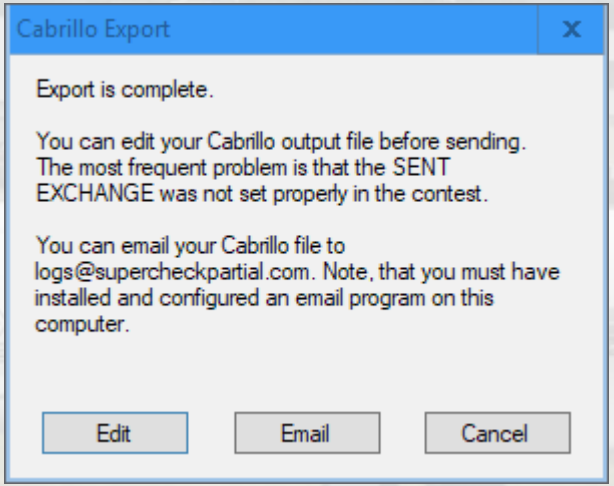
Click “Yes” if the parameters are correct

Create a Cabrillo



Change the Cabrillo file name if desired

Create a Cabrillo



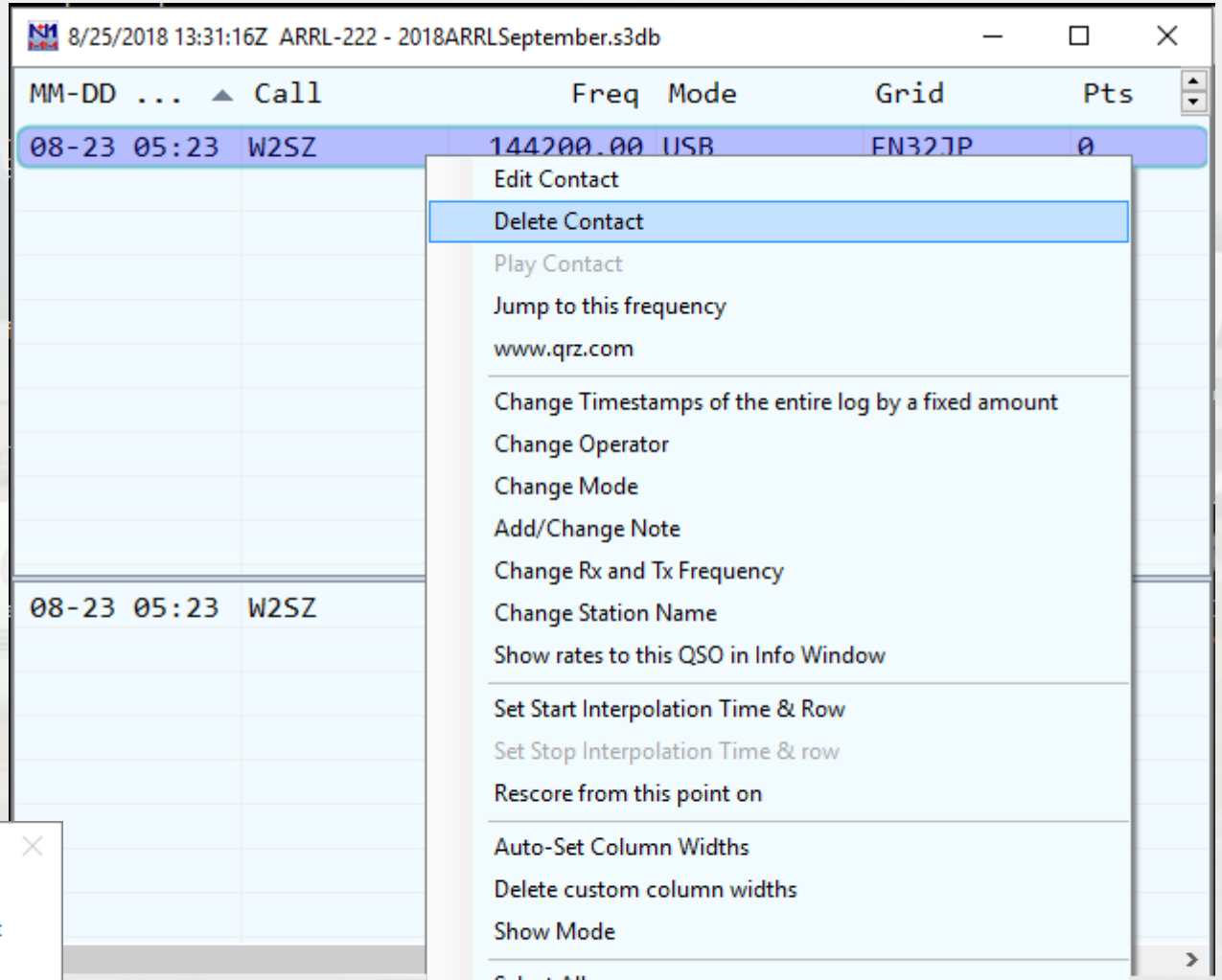
Click “Edit”

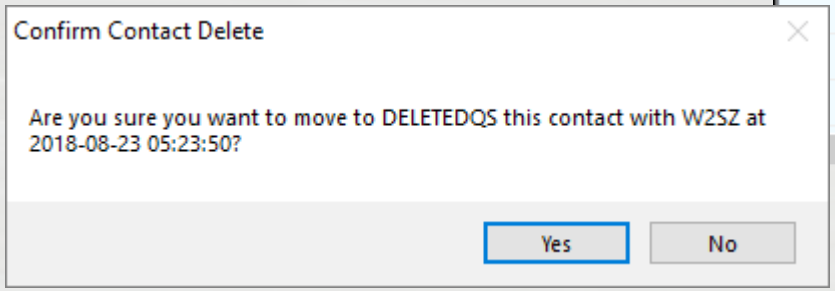
Create a Cabrillo

```
START-OF-LOG: 3.0
LOCATION: EPA
CALLSIGN: W3SZ
CLUB: Mt Airy VHF Radio Club
CONTEST: ARRL-10-GHZ
CATEGORY-OPERATOR: SINGLE-OP
CATEGORY-ASSISTED: ASSISTED
CATEGORY-BAND: ALL
CATEGORY-MODE: MIXED
CATEGORY-POWER: HIGH
CATEGORY-STATION: FIXED
CATEGORY-TRANSMITTER: ONE
CLAIMED-SCORE: 620
OPERATORS: W3SZ
NAME: Roger Rehr
ADDRESS: 2 Merrymount Road
ADDRESS-CITY: Reading
ADDRESS-STATE-PROVINCE: PA
ADDRESS-POSTALCODE: 19609
ADDRESS-COUNTRY: USA
CREATED-BY: N1MM Logger+ 1.0.7245.0
QSO:    10G CW 2018-08-18 1148 W3SZ          FN20AG       K3TUF          FN10WE
QSO:    10G CW 2018-08-18 2004 W3SZ          FN20AG       K3WHC          FN21HB
QSO:    10G CW 2018-08-18 2025 W3SZ          FN20AG       AB4CR          FN21HB
QSO:    10G CW 2018-08-19 1059 W3SZ          FN20AG       W2RMA          FM19AW
QSO:    10G CW 2018-08-19 1119 W3SZ          FN20AG       N3RG           FM29KI
QSO:    10G CW 2018-08-19 1425 W3SZ          FN20AG       WA3GFZ         FN21HB
END-OF-LOG:
```

Delete Test Contacts

In the **Log Window**,
Right-Click the contact that you want to delete
Click **Delete Contact**
Click **Yes**





Questions?