

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

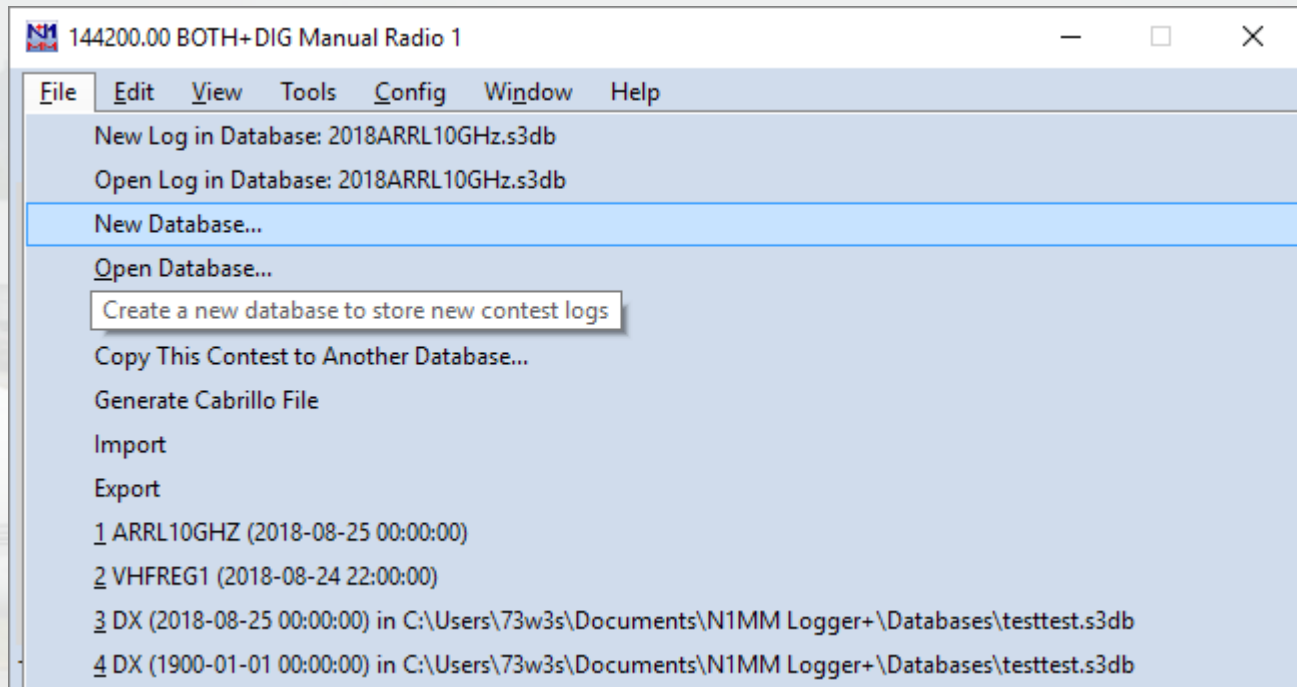
Setting up for a Contest

- 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**

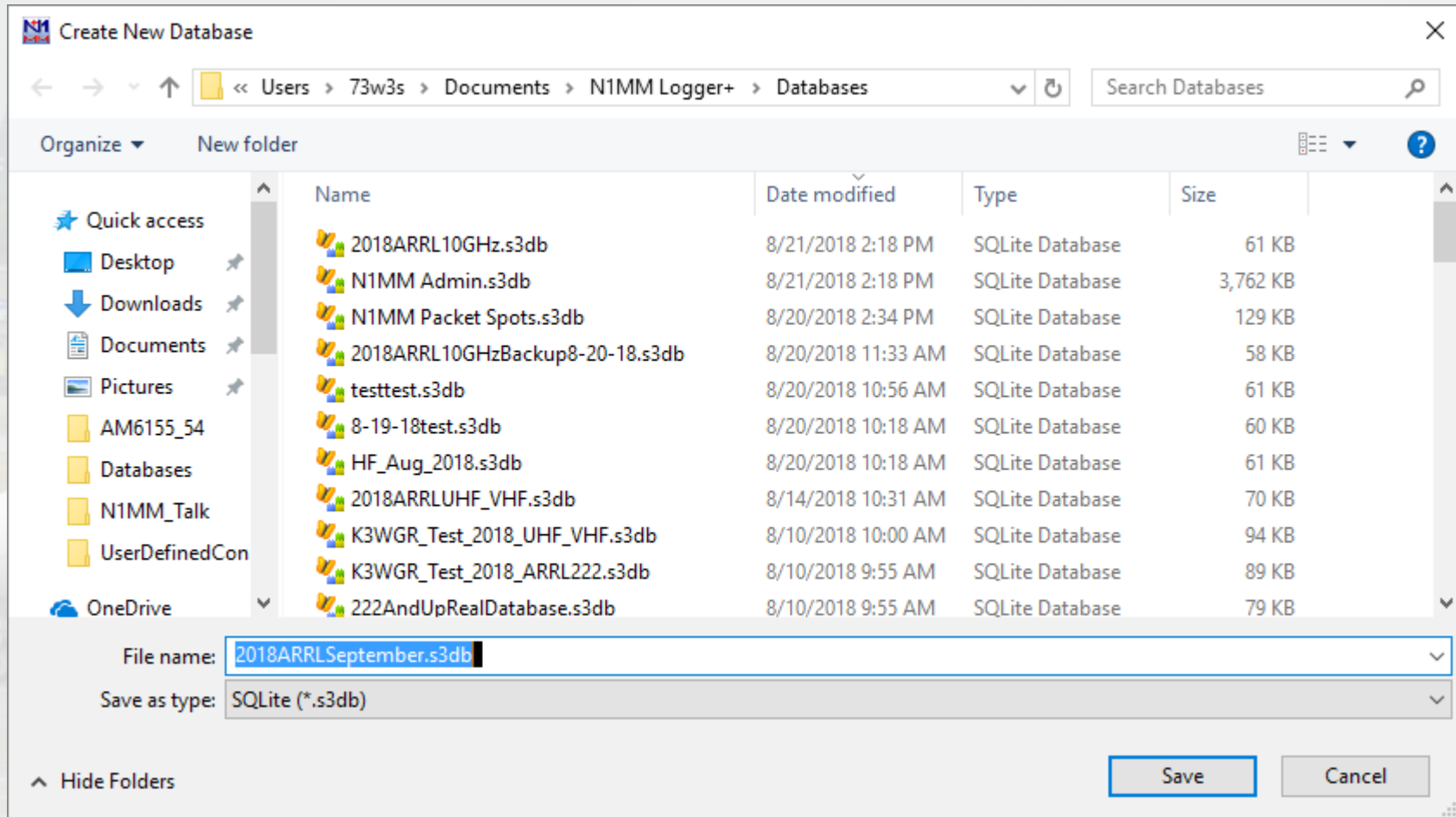
Click **File**

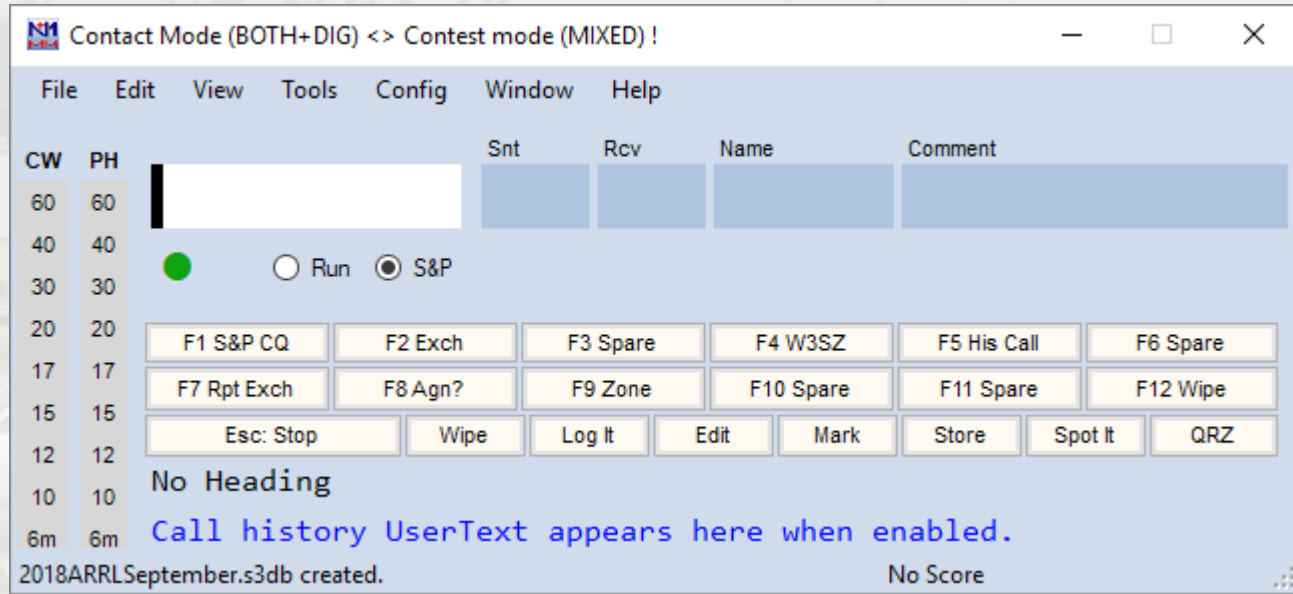
Click **New Database...**



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

Click **Save**





Contact Mode (BOTH+DIG) <> Contest mode (MIXED) !

File Edit View Tools Config Window Help

CW	PH	Snt	Rcv	Name	Comment
60	60				
40	40				
30	30				
20	20				
17	17				
15	15				
12	12				
10	10				
6m	6m				

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

No Heading

Call history UserText appears here when enabled.

2018ARRLSeptember.s3db created. No Score

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)**

The screenshot shows a web browser window displaying the N1MM Contest Logging Software website. The browser's address bar shows the URL: <https://n1mm.hamdocs.com/tiki-index.php?page=My+Contest+Isn%27t+Here&structure=N1MM...>. The website header features the N1MM LOGGER+ logo and the text "Contest Logging Software" and "Free Software for Phone, CW, and Digital Modes". A navigation menu includes "Home", "Files", "Documents", "Hot Topics", "Support", and "Website". The "Files" dropdown menu is open, listing various options: "N1MMplus Full Install", "N1MMplus Latest Updates", "N1MMplus Update History", "Experimental Versions", "Sample Function Key Files", "User Defined Contests (UDC)", "Call History Files", "Additional Support Files", "Files (list all Galleries)", "Documentation Downloads (pdf)", and "Documentation Translations (pdf)". A blue arrow points to the "User Defined Contests (UDC)" option. The background of the website shows a blurred image of an airport runway.



Contest Logging Software

Free Software for Phone, CW, and Digital Modes

Find

- Home ▾
- Files ▾
- Documents ▾
- Hot Topics ▾
- Support ▾
- Website ▾

User Defined Contests (UDC) ⓘ

File Galleries > User Defined Contests (UDC)

« 1 2 3 4 5 »

Filename ▲	Description	Size	Last modified	Uploaded by	Hits	↓ ⓘ
_READ_ME_FIRST_NL+.rtf	Instructions on how to use UDC and other files located in this gallery for N1MM Logger+.	3.79 KB	29 Jan 2015	na3m	3267	
_Template.udc	Use this file to start new udc unless you have better alternative. It has all udc parameters (most of them are set to default values) as of 2/13/2018	2.93 KB	13 Feb 2018	na3m	267	













Doing so will bring up this page.

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

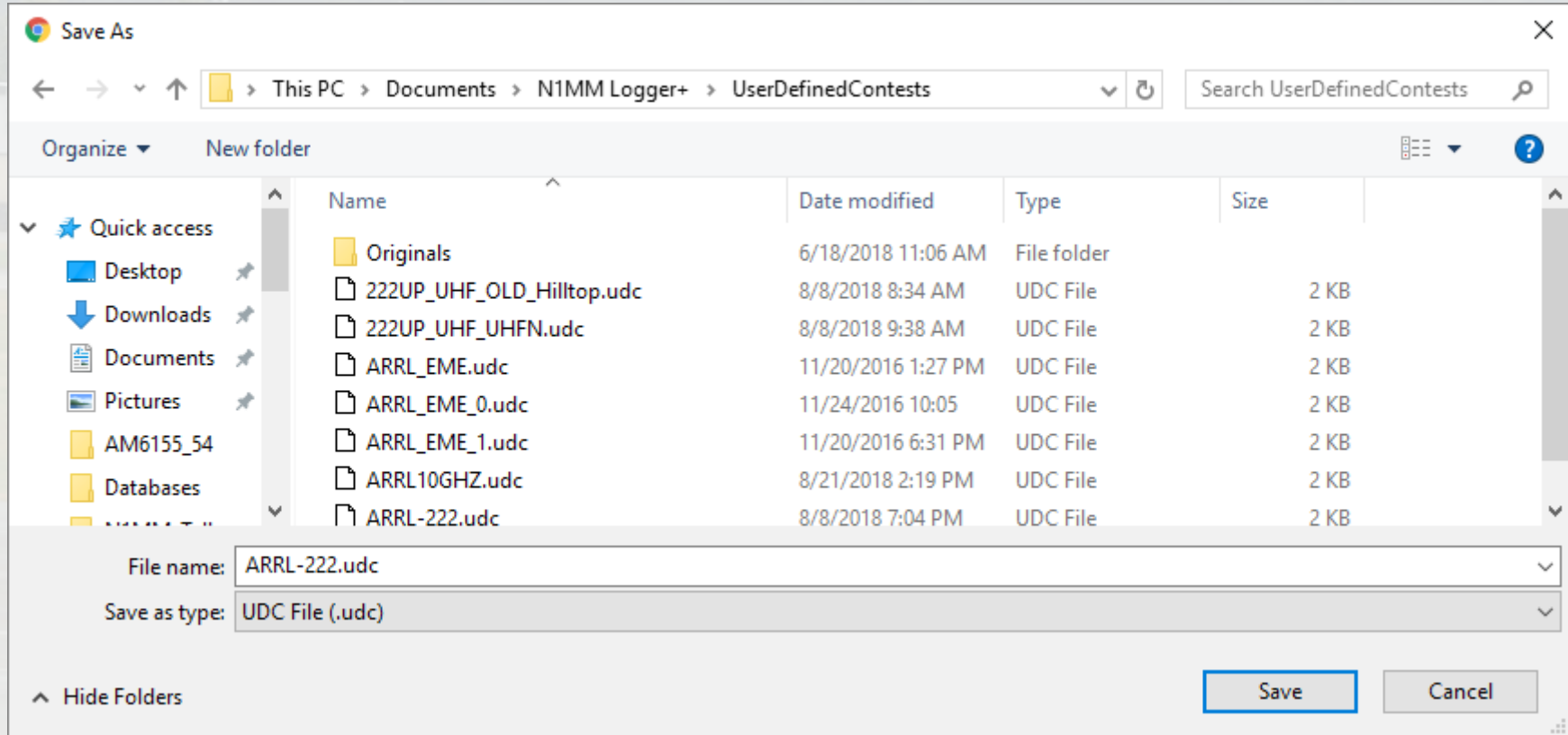
After you have scrolled down to the UDC file that you want to download:

Left-Click on the file name:

ARRL-222.udc

2017						
	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.

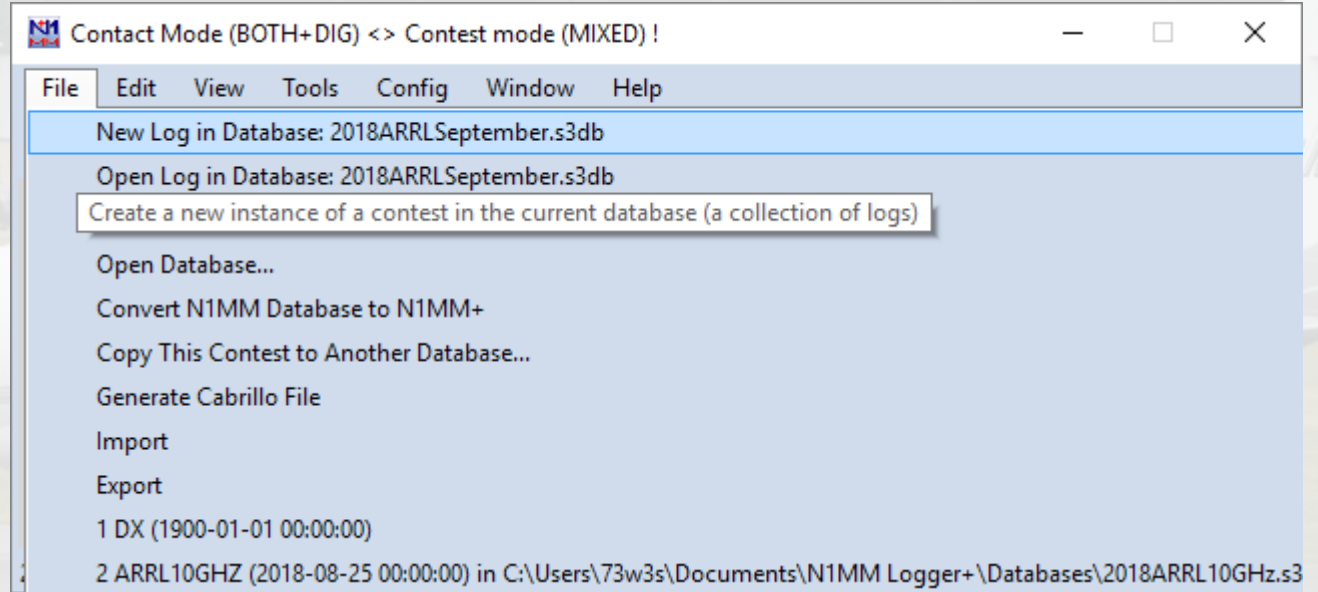


Next, Create the Log

In the **Entry Window**:

Click **File**

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




New log for: General LoggingLog Type Start Date

Use Up/Down cursor keys to see long description above.

Contest **Category**Operator Band Power Mode Overlay

State for Log Type QSOPARTY

Note - the program does not validate categories. Check the contest rules for valid categories.

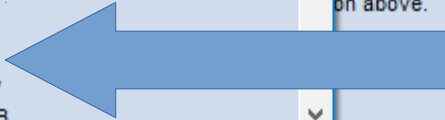
Sent Exchange Omit RST. E.g. CQWW: 05 SS: A 56 EMAOperators Soapbox 

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

New log for: General Logging

Log Type

Start Date



on above.

Contest Associated Files

Category

Show Setup

Show Rules

Operator Band Power Mode Overlay

State for Log Type QSOPARTY

Note - the program does not validate categories. Check the contest rules for valid categories.

Sent Exchange Omit RST. E.g. CQWW: 05 SS: A 56 EMAOperators

Update Ops from Log

Soapbox

OK

Help

Cancel

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).

New log for: ARRL-222

Log Type

Start Date

Use Up/Down cursor keys to see long description above.

Contest

Category

Show Setup

Show Rules

Operator

State for Log Type QSOPARTY

Band

Note - the program does not validate categories. Check the contest rules for valid categories.

Power

Mode

Overlay

Station

Assisted

Time Category

Transmitter

Sent Exchange

Omit RST. E.g. CQWW: 05 SS: A 56 EMA

Operators

Update Ops from Log

Soapbox

OK

Help

Cancel

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

KB4C NB4C
 WB4C AD4C
 AT4C AB3C
 AB4B AB4BC
 AB4D AB4G
 AB4I AB4Z
 AB4ZC

AB4CR/R

Click the
 one you
 want

CW	PH	RTTY	PSK
6m	6m	6m	6m
2m	2m	2m	2m
1.25m	1.25m	1.25m	1.25m
70cm	70cm	70cm	70cm
33cm	33cm	33cm	33cm
23cm	23cm	23cm	23cm
13cm	13cm	13cm	13cm
9cm	9cm	9cm	9cm
6cm	6cm	6cm	6cm
3cm	3cm	3cm	3cm

AB4C ?

Run S&P

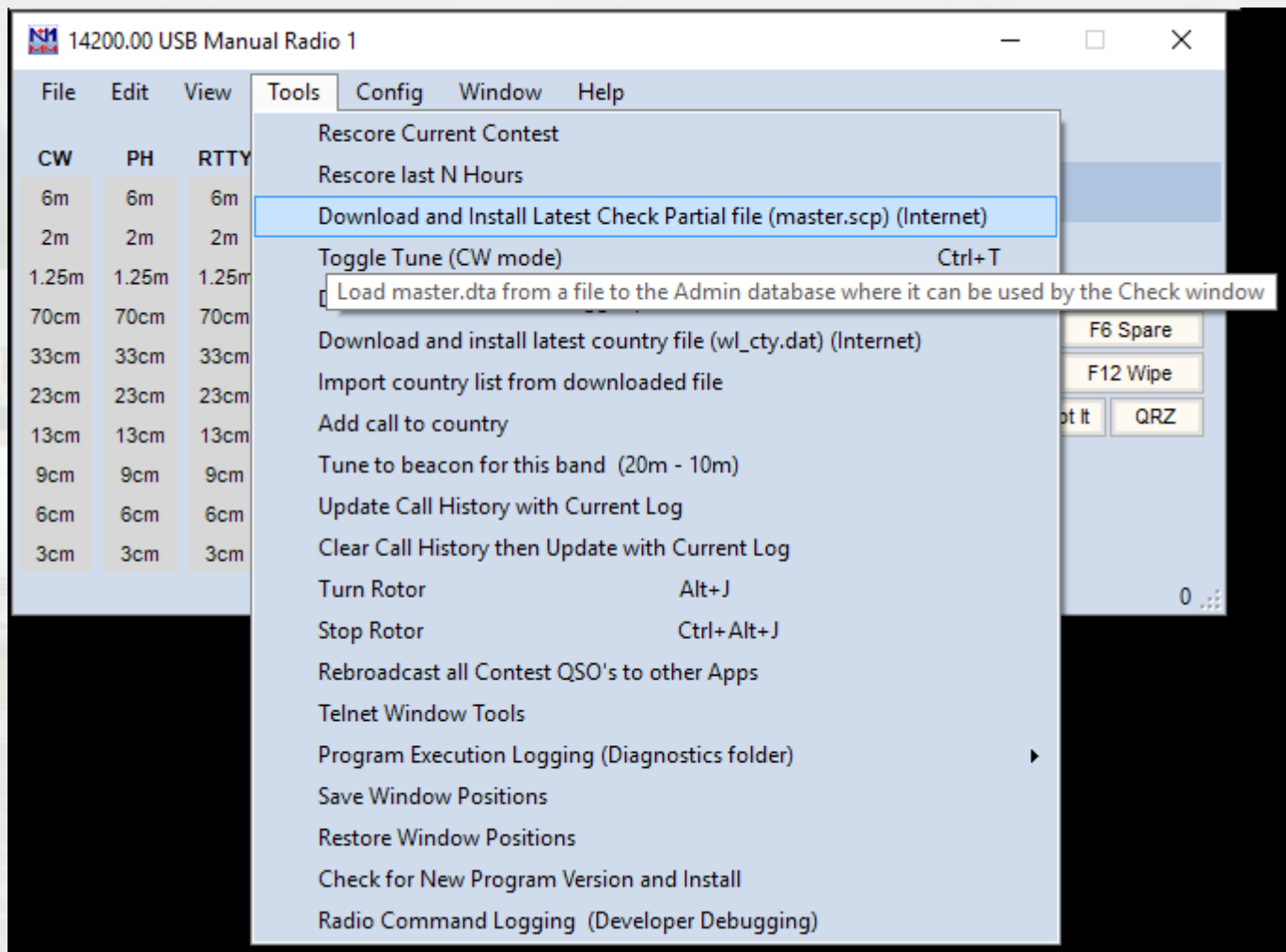
F1 S&P CQ	F2 Exch	F3 Spare	F4 W3SZ	F5 His Call	F6 Spare		
F7 Rpt Exch	F8 Agn?	F9 Zone	F10 Spare	F11 Spare	F12 Wipe		
Esc: Stop	Wipe	Log It	Edit	Mark	Store	Spot It	QRZ

Regional Hdg 225° LP 45° 648mi 1043km
 Call history UserText appears here when enabled.

Download latest
master.scp file:

Click **Tools**

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



N1MMLogger.net

Check Partial File Download & Install Complete

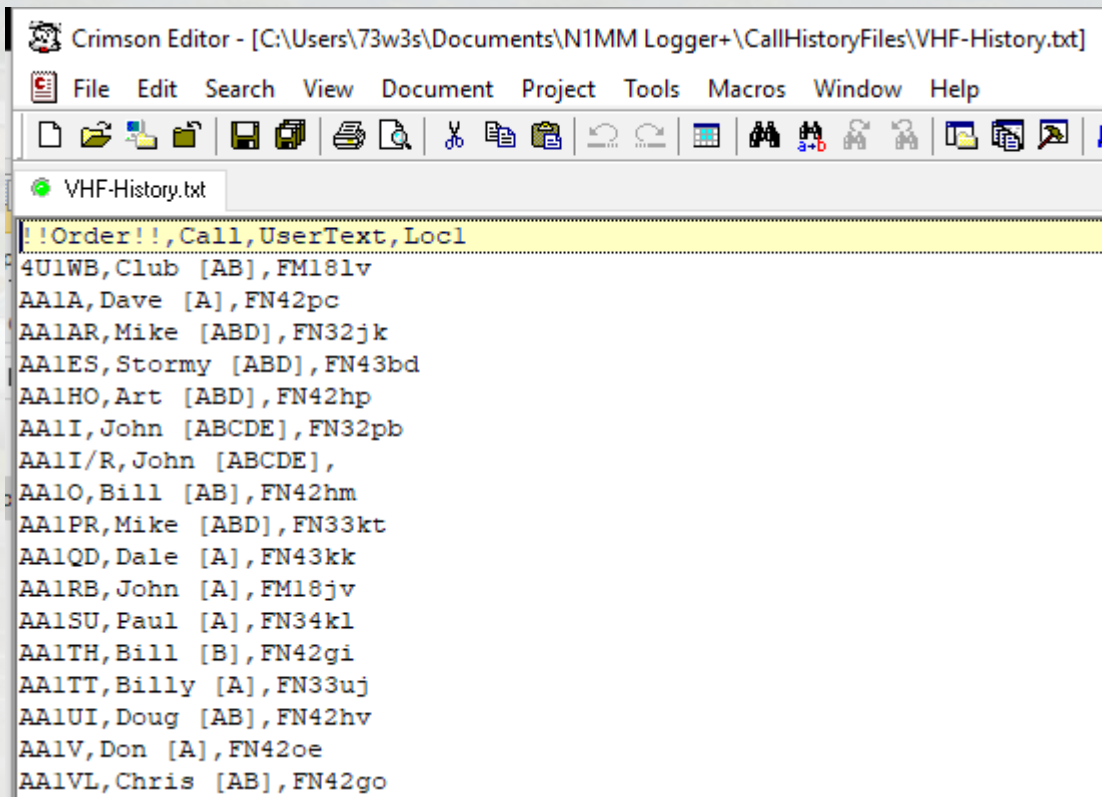
New File saved in C:\Users\73w3s\Documents\N1MM
Logger+\SupportFiles\master.scp.

OK

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



```
!!Order!! , Call, UserText, Loc1
4U1WB, Club [AB], FM181v
AA1A, Dave [A], FN42pc
AA1AR, Mike [ABD], FN32jk
AA1ES, Stormy [ABD], FN43bd
AA1HO, Art [ABD], FN42hp
AA1I, John [ABCDE], FN32pb
AA1I/R, John [ABCDE],
AA1O, Bill [AB], FN42hm
AA1PR, Mike [ABD], FN33kt
AA1QD, Dale [A], FN43kk
AA1RB, John [A], FM18jv
AA1SU, Paul [A], FN34kl
AA1TH, Bill [B], FN42gi
AA1TT, Billy [A], FN33uj
AA1UI, Doug [AB], FN42hv
AA1V, Don [A], FN42oe
AA1VL, Chris [AB], FN42go
```


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

File	Edit	View
CW	PH	RTTY
6m	6m	6m
2m	2m	2m
1.25m	1.25m	1.25m
70cm	70cm	70cm
33cm	33cm	33cm
23cm	23cm	23cm
13cm	13cm	13cm
9cm	9cm	9cm
6cm	6cm	6cm
3cm	3cm	3cm

● Grid required

Tools menu options:

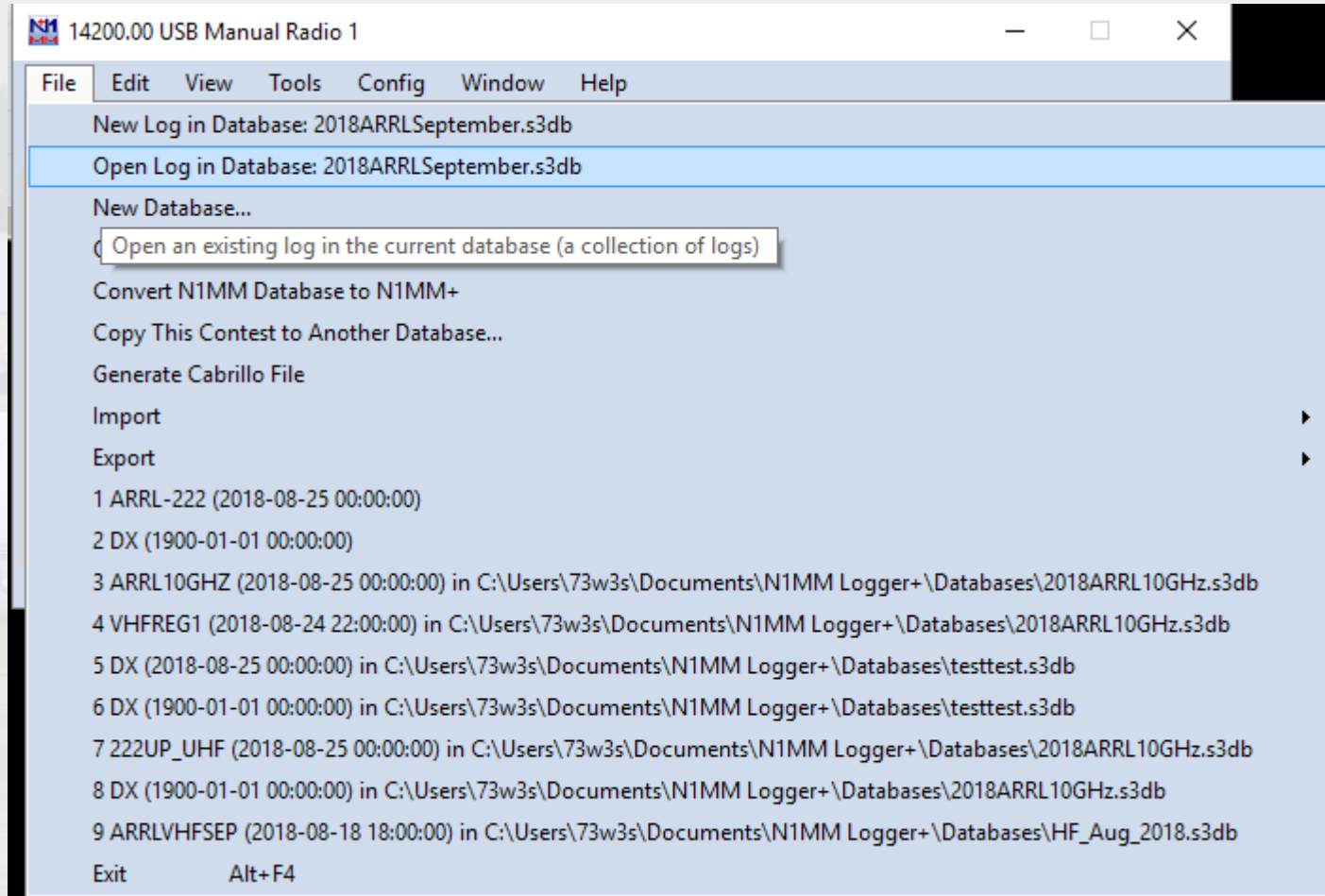
- Rescore Current Contest
- Rescore last N Hours
- Download and Install Latest Check Partial file (master.scp) (Internet)
- Toggle Tune (CW mode) Ctrl+T
- Download latest N1MM Logger pdf manual (Internet)
- Download and install latest country file (wl_cty.dat) (Internet)
- Import country list from downloaded file
- Add call to country
- Tune to beacon for this band (20m - 10m)
- Update Call History with Current Log**
- Clear Call History then Update with Current Log
- Turn Rotor
- Stop Rotor Ctrl+Alt+J
- Rebroadcast all Contest QSO's to other Apps
- Telnet Window Tools
- Program Execution Logging (Diagnostics folder)
- Save Window Positions
- Restore Window Positions
- Check for New Program Version and Install
- Radio Command Logging (Developer Debugging)

Tooltip for 'Update Call History with Current Log': Put all the calls in your current log into the Admin data...

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 Existing Log

Contest	Start Date	Contest Description
ARRL-222	2018-08-25 00:00:00	ARRL-222
DX	1900-01-01 00:00:00	General Logging
DELETEDQS	1900-01-01 00:00:00	Deleted Qs

Contest Associated Files

Sample Function Keys

CW Function Key
Filename

CW Default Messages.mc

Change

SSB Function Key
Filename

SSB Default Messages.mc

Change

Digital Function
Key Filename

Digi Default Messages.mc

Change

Master.scf
Filename

master.scf

Change

Default

Call History
Filename

Change

Clear

Goal Filename

Change

Clear

OK

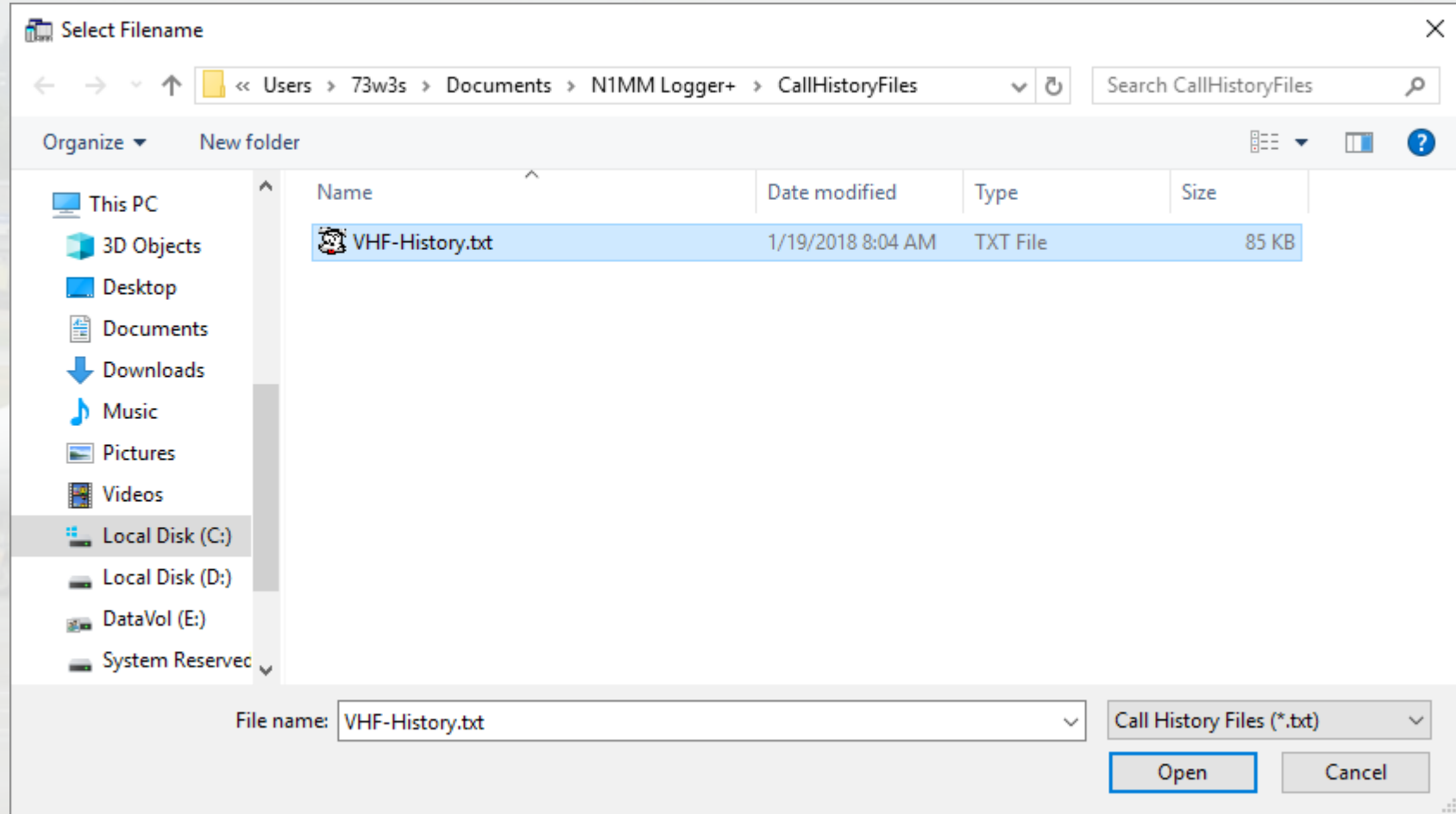
Help

Cancel

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

144200.00 USB Manual Radio 1

File	Edit	View	Tools
CW	PH	RTTY	PSK
6m	6m	6m	6m
2m	2m	2m	2m
1.25m	1.25m	1.25m	1.25m
70cm	70cm	70cm	70cm
33cm	33cm	33cm	33cm
23cm	23cm	23cm	23cm
13cm	13cm	13cm	13cm
9cm	9cm	9cm	9cm
6cm	6cm	6cm	6cm
3cm	3cm	3cm	3cm

144

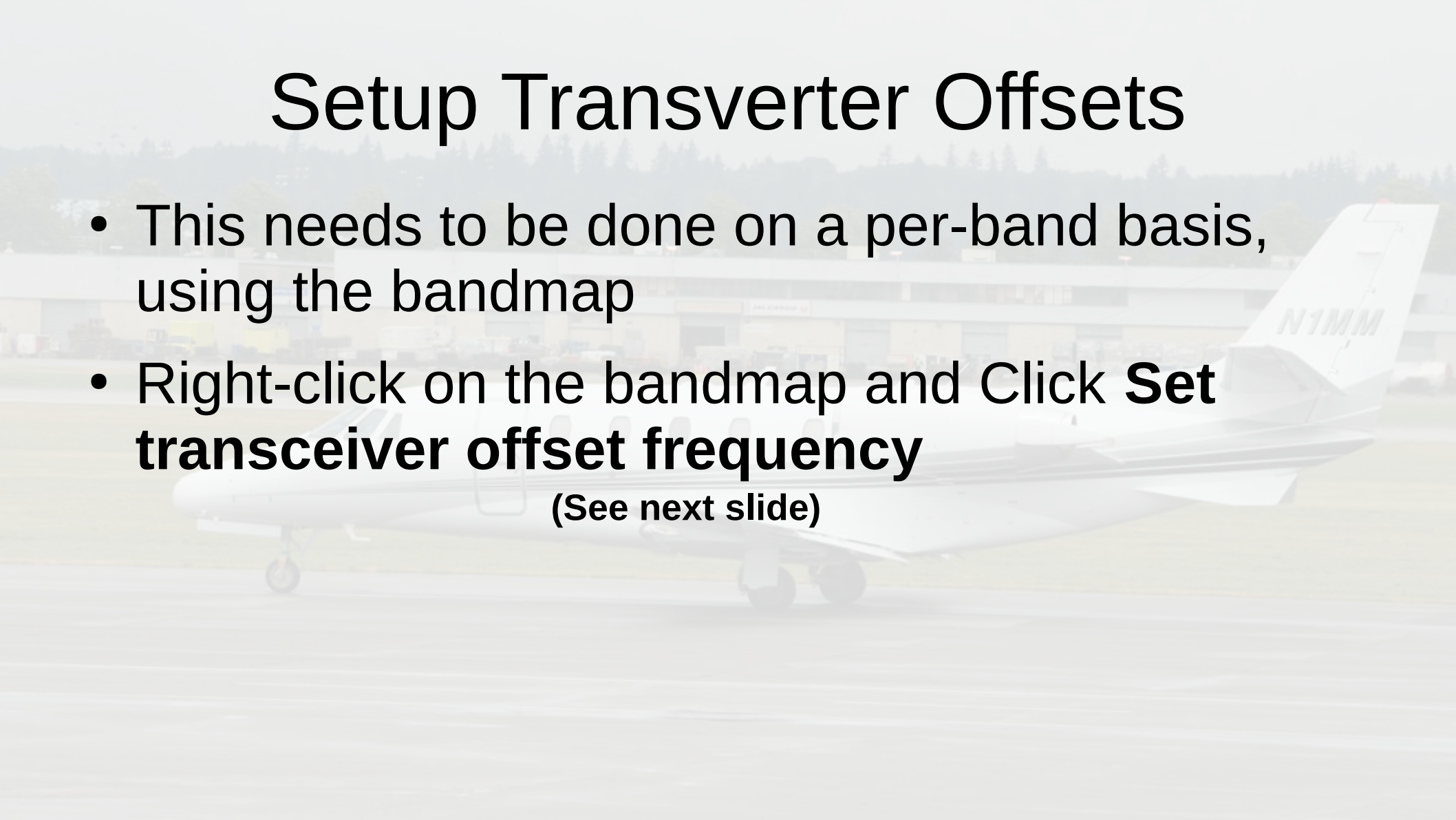
Config Window Help

- Configure Ports, Mode Control, Audio, Other...
- Change Your Station Data...
- Logger+ Audio Setup...
- Use Logger+ Audio
- Enter Sends Message (ESM mode) Ctrl+M
- Spot All S&P QSO's
- QSYing Wipes the Call & Spots QSO in Bandmap (S&P)
- Grab Focus From Other Apps When Radio is Tuned
- Do Not Automatically Switch to Run on CQ Frequency
- Show Non-Workable Spots and Dupes in Bandmap
- Reset RX Freq to TX when QSO is Logged (Run & Split)
- Sub Receiver Always On Ctrl+Alt+D
- CQ Repeat Alt+R
- Set CQ Repeat Time... Ctrl+R
- CW / PH AutoSend Threshold...
- Enable Call History Lookup
- Change CW/SSB/Digital Function Key Definitions
- Change B When enabled, Call History Lookup can be used to pre-fill the exchange field
- Manage Skins, Colors and Fonts...
- Change Operator Callsign Stored in Log Ctrl+O
- Change Exchange Abbreviations
- SO2R
- WAE
- Clear *.ini File Settings
- SO2V Dual Receive...

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)



144200.00

SH/DX Wide CO

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

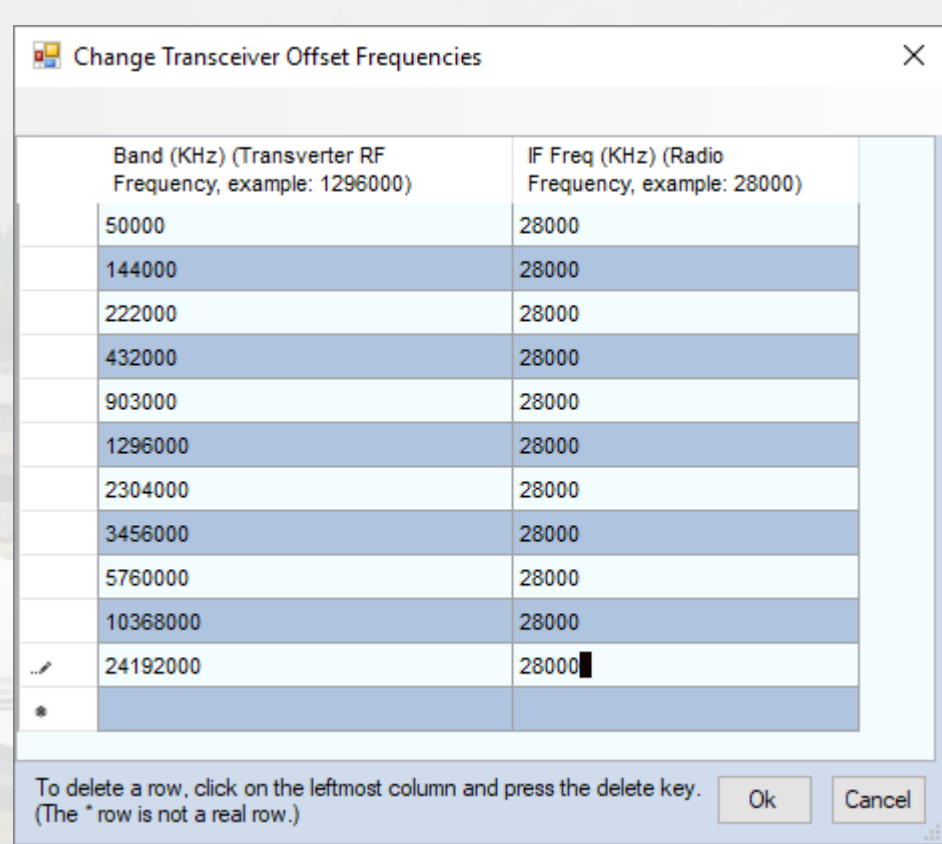
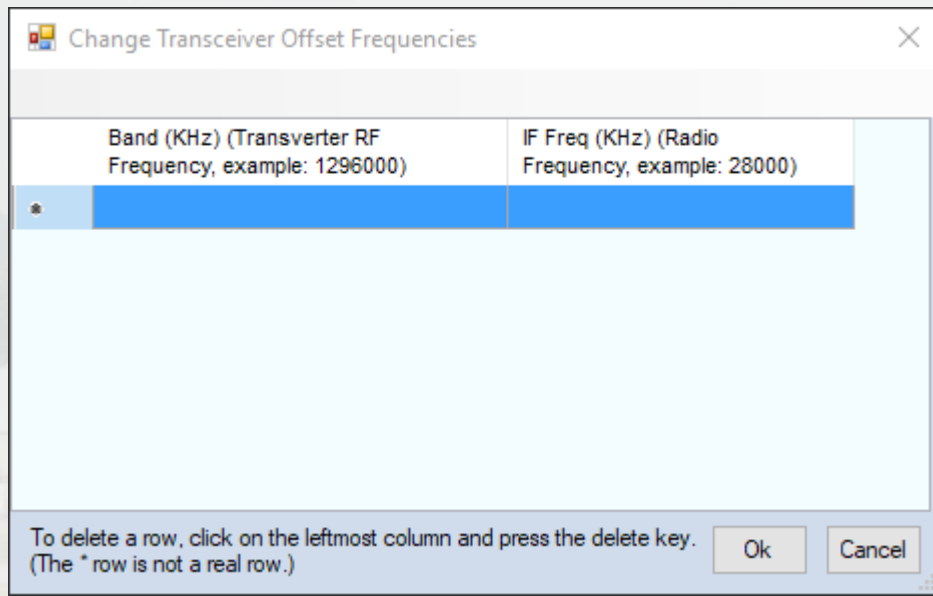
Telnet Filters

Set Spot Timeout

Show Telnet History

Show My Call Spot History

Help

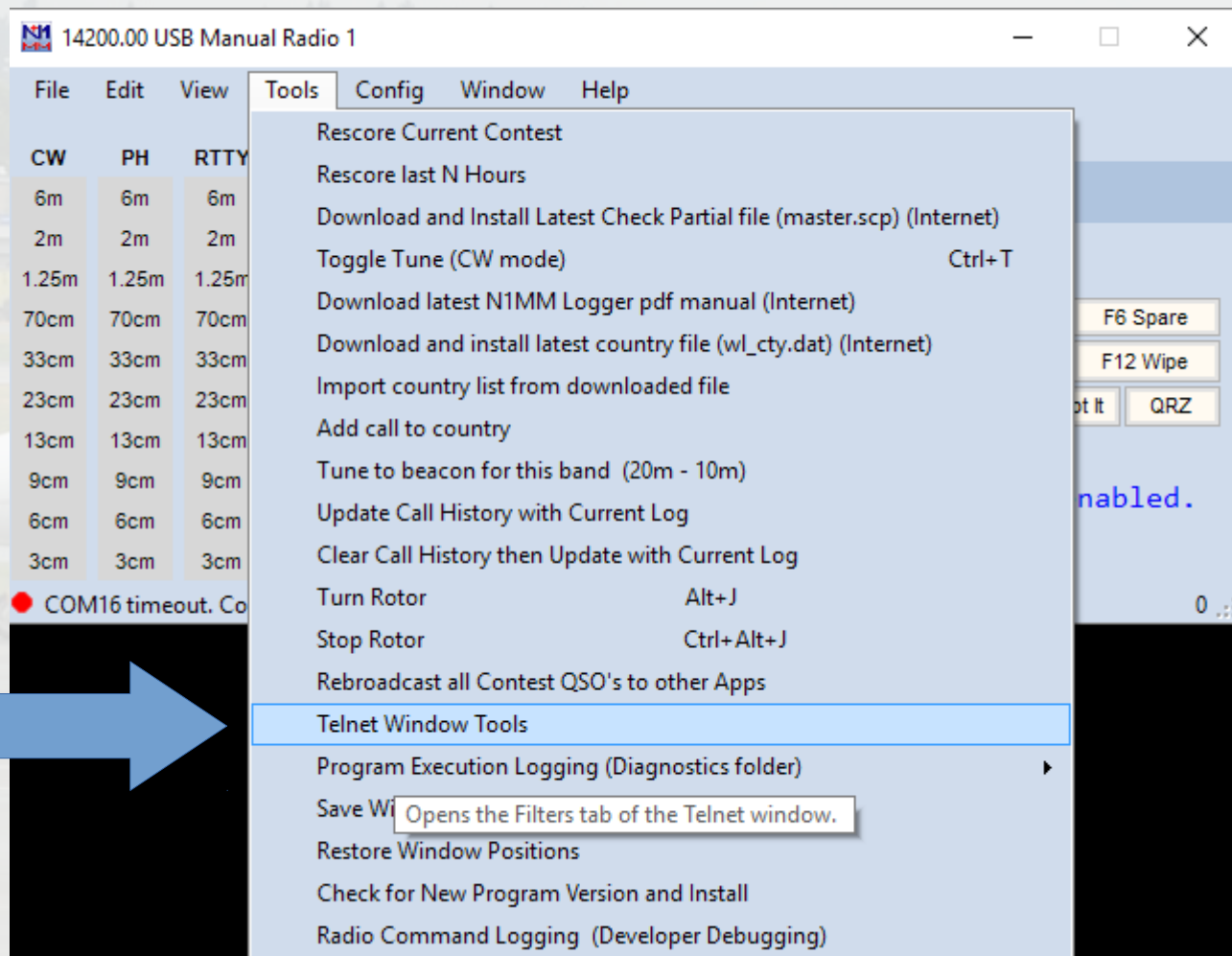


Fill in your transverter RF frequencies and IF frequencies and click **OK**.

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



The screenshot shows the N1MM software interface. The main window is titled "14200.00 USB Manual Radio 1". The menu bar includes File, Edit, View, Tools, Config, Window, and Help. The Tools menu is open, displaying a list of options. A blue arrow points to the "Telnet Window Tools" option, which is highlighted in blue. A tooltip for "Save Wi" indicates it "Opens the Filters tab of the Telnet window." The interface also features a table with columns CW, PH, and RTTY, and a status bar at the bottom showing "COM16 timeout. Co".

CW	PH	RTTY
6m	6m	6m
2m	2m	2m
1.25m	1.25m	1.25m
70cm	70cm	70cm
33cm	33cm	33cm
23cm	23cm	23cm
13cm	13cm	13cm
9cm	9cm	9cm
6cm	6cm	6cm
3cm	3cm	3cm

COM16 timeout. Co

Tools menu items:

- Rescore Current Contest
- Rescore last N Hours
- Download and Install Latest Check Partial file (master.scp) (Internet)
- Toggle Tune (CW mode) Ctrl+T
- Download latest N1MM Logger pdf manual (Internet)
- Download and install latest country file (wl_cty.dat) (Internet)
- Import country list from downloaded file
- Add call to country
- Tune to beacon for this band (20m - 10m)
- Update Call History with Current Log
- Clear Call History then Update with Current Log
- Turn Rotor Alt+J
- Stop Rotor Ctrl+Alt+J
- Rebroadcast all Contest QSO's to other Apps
- Telnet Window Tools**
- Program Execution Logging (Diagnostics folder)
- Save Wi Opens the Filters tab of the Telnet window.
- Restore Window Positions
- Check for New Program Version and Install
- Radio Command Logging (Developer Debugging)

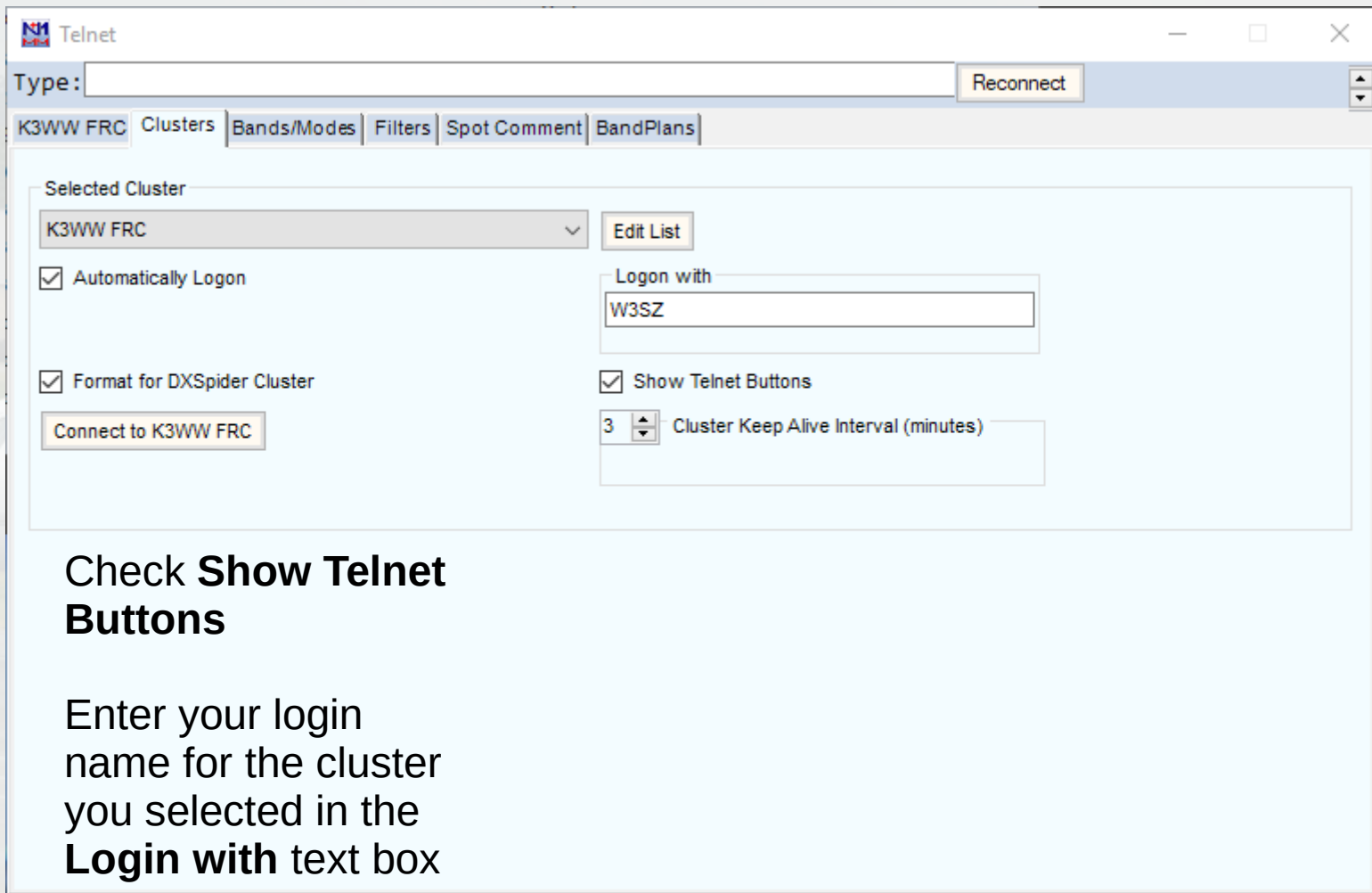
Telnet Setup:

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



The screenshot shows the 'Telnet' application window with the 'Clusters' tab selected. The 'Selected Cluster' dropdown is set to 'K3WW FRC'. The 'Automatically Logon' checkbox is checked. The 'Format for DXSpider Cluster' checkbox is also checked. The 'Logon with' text box contains 'W3SZ'. The 'Show Telnet Buttons' checkbox is checked. The 'Cluster Keep Alive Interval (minutes)' is set to 3. A 'Connect to K3WW FRC' button is visible at the bottom left of the configuration area.

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

Telnet

Type: Reconnect

K3WW FRC | Clusters | **Bands/Modes** | Filters | Spot Comment | BandPlans

HF	VHF	UHF	Mw	All Modes
<input type="checkbox"/> 1.8	<input checked="" type="checkbox"/> 50	<input type="checkbox"/> 430	<input type="checkbox"/> 9cm	<input checked="" type="checkbox"/> CW
<input type="checkbox"/> 3.5	<input type="checkbox"/> 70	<input type="checkbox"/> 903	<input type="checkbox"/> 6cm	<input checked="" type="checkbox"/> Phone
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 144	<input type="checkbox"/> 1296	<input type="checkbox"/> 3cm	<input checked="" type="checkbox"/> RTTY
<input checked="" type="checkbox"/> 7	<input type="checkbox"/> 222	<input type="checkbox"/> 2304	<input type="checkbox"/> 1cm	<input checked="" type="checkbox"/> PSK
<input checked="" type="checkbox"/> 10			<input type="checkbox"/> 6.4mm	<input type="checkbox"/> Contest
<input checked="" type="checkbox"/> 14			<input type="checkbox"/> 4mm	
<input checked="" type="checkbox"/> 18			<input type="checkbox"/> 2mm	
<input checked="" type="checkbox"/> 21			<input type="checkbox"/> 1.2mm	
<input checked="" type="checkbox"/> 24			<input type="checkbox"/> Light	
<input checked="" type="checkbox"/> 28				

Reset Band/Mode Defaults

Checking none of the mode boxes will allow all modes to be passed

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

The screenshot shows the 'Telnet' application window with the 'Filters' tab selected. The interface includes a 'Type:' field, a 'Reconnect' button, and a navigation bar with tabs for 'K3WW FRC', 'Clusters', 'Bands/Modes', 'Filters', 'Spot Comment', and 'BandPlans'. The main configuration area contains the following elements:

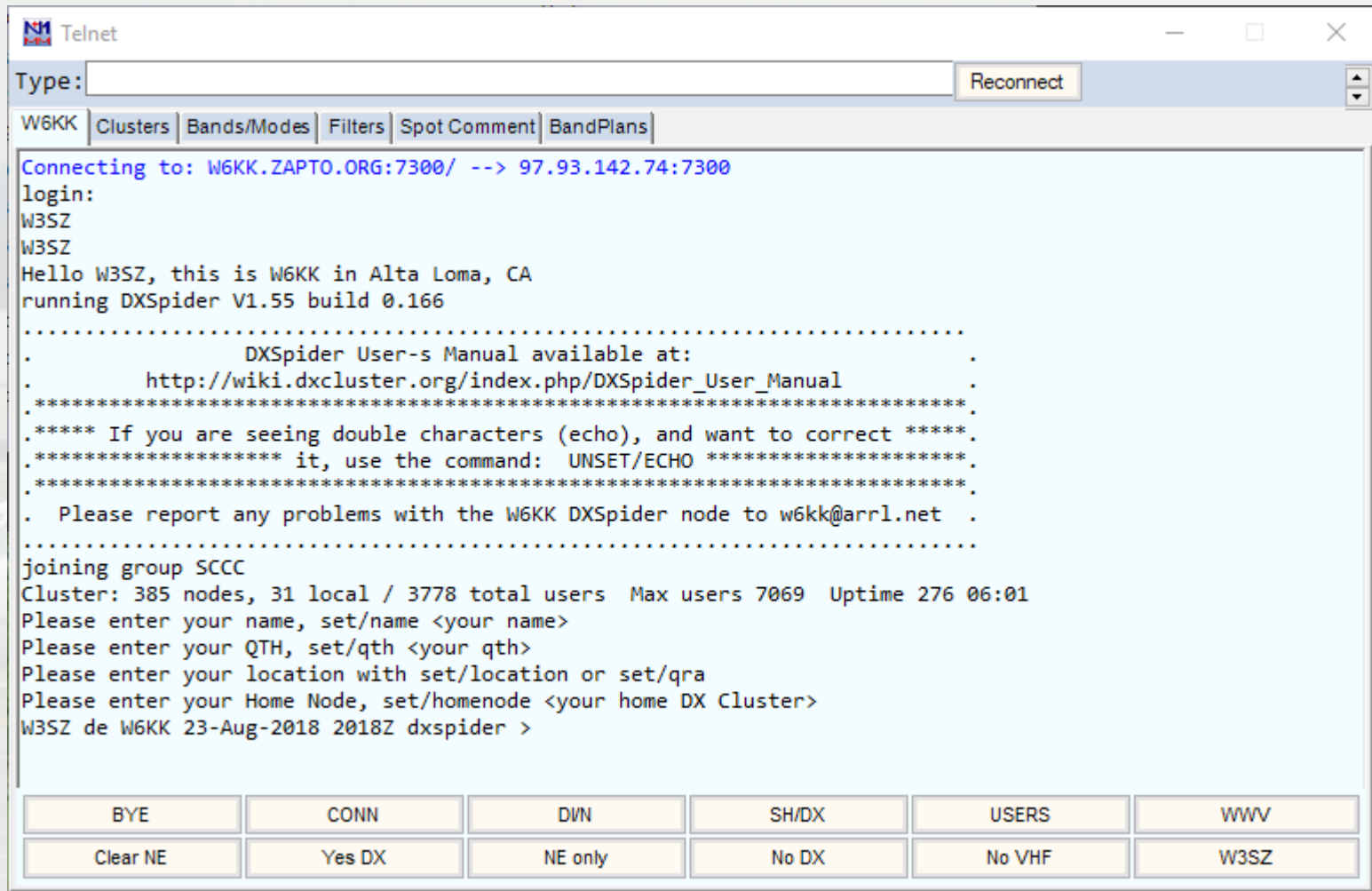
- 'Bandmap DX spot timeout (min)' set to 60, with a checked 'Save Spots' checkbox and an 'Update' button.
- Checked checkboxes for 'Show non-workable spots', 'QSYing wipes call and puts it in the bandmap', and 'Randomize Incoming Spot Frequencies'.
- 'Include spots only originating in:' section with checkboxes for 'K', 'NA', and 'from prefixes' (with an empty text input field) and the word 'only'.
- 'Blacklisted Spots' section with a 'Filter (1)' checkbox, an 'Edit, Import or Export' button, and a 'Clear' button.
- 'Blacklisted Spotters' section with a 'Filter (1)' checkbox, an 'Edit, Import or Export' button, and a 'Clear' button.
- 'Preferred Spotters' section with an 'Enabled' checkbox and an empty text input field.
- A 'Help - Why don't I See Spots?' button at the bottom.

A tip box on the right side of the interface reads: 'Tip: Filter as many spots as you can at the cluster. It lowers the cpu workload on your computer (s).'

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

The screenshot displays a Windows desktop environment during the setup of N1MM. The desktop is cluttered with several application windows:

- N1MM Multi-IDR Controller:** Shows frequency grids for various bands (e.g., 144.200, 10368.000) and control panels for SP, A, B, and TUN sections.
- WS32 Multi-IDR Controller:** Displays a grid of frequencies and modes (e.g., MANN, AUKX, HTBW).
- N1MM Router:** Shows a control panel with various settings and a 'Run' button.
- Terminal Window:** Shows the installation process for WS32 de W3X 15-Aug-2018. The output includes:

```
WS32 de W3X 15-Aug-2018 13072 dspsider >
P: de WS32 15-AUG-2018 13100
*****
http://wiki.decluster.org/index.php/DSpsider_User_Manual
*****
Please report any problems with the WS32 de W3X node to wiki@ari.net.

Joining Group 3000
Cluster: 300 nodes, 26 local / 4445 total users Max users 7069 Uptime: 277:22:59
Please enter your name, set/name your name:
Please enter your QTH, set/qth your qth:
Please enter your location with set/location or set/ps:
Please enter your Home Node, set/homeNode your home ID Cluster:
WS32 de W3X 15-Aug-2018 13072 dspsider >
P: de WS32 15-AUG-2018 13100
```
- Grid Square Map:** Shows a grid of squares with various data points.
- File Explorer:** Shows the contents of a folder named 'N1MM'. The files listed are: RYE, COMB, DMI, SHDX, USERS, WVVV, Clear ME, Yes DX, NE only, No DX, No Vof, WS32.

Setup N1MM Windows

The screenshot displays a Windows desktop environment with numerous application icons. Several windows are open, illustrating the N1MM software setup:

- File Explorer:** Shows a folder named "144280_00 USB".
- Grid Window:** Displays a radio grid with a frequency of 144280.00 USB and a call sign of FN323P. It includes a "Grid" button and a "Call history UserText" field.
- Call Window:** Shows a call log with columns for Call, Freq, Dir, Mode, Int?, SN, Time, and Spotter.
- VNA Plotter Window:** Displays a plot of a signal.
- Grid Square Map Window:** Shows a grid of frequencies and modes, with columns for W, E, S, and M, and rows for 144280.00, 144280.10, 144280.20, 144280.30, 144280.40, and 144280.50.

Test All N1MM Functions

Log contacts

Bandswitching And Radio Control

Rotor Control

Telnet

Bandmap

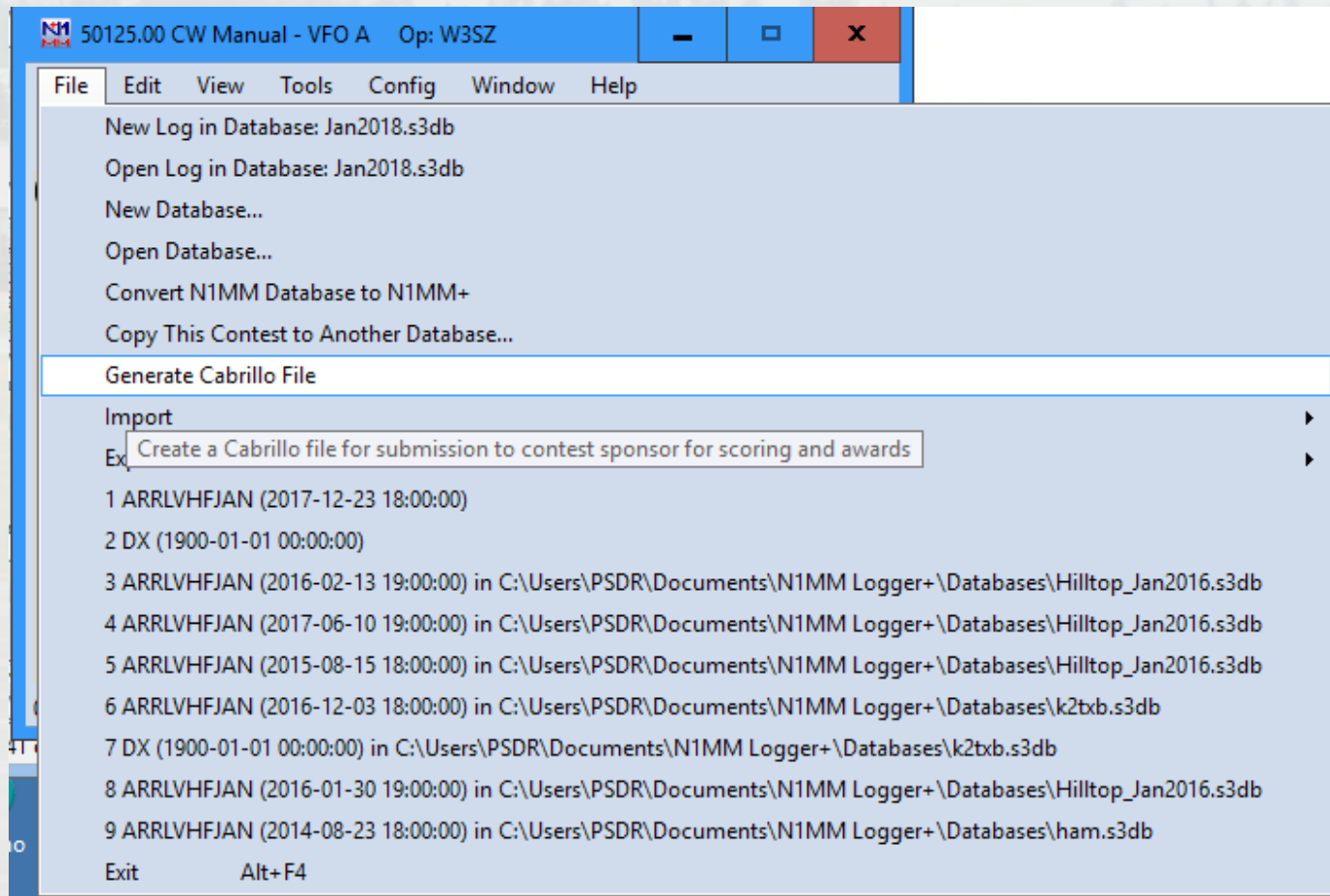
Super Check Partial (master.scp and Call History Lookup)

CW and DVK Keying, PTT, Audio

Macros/HotKeys

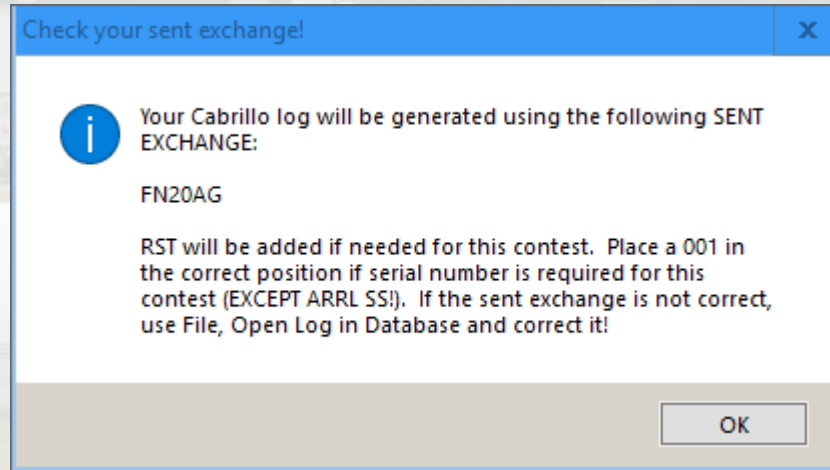
The image is a collage of screenshots from the N1MM software interface, demonstrating various functions. At the top left, a Windows desktop is visible with numerous application icons. The top right shows two radio frequency displays for TS-2000 Radio 1 and Radio 2, displaying frequency, mode, and signal strength. The middle section contains two screenshots of the radio control interface, showing frequency, mode, and various function buttons like 'Run', 'SMP', and 'SFP'. The bottom left shows a 'Call History' window with columns for 'Call', 'Freq', 'Node', and 'Grid'. The bottom center features a 'Super Check' window with a table of call statistics. The bottom right shows a 'Grid Square Map' window with a grid of call letters and a 'Bands & Modes' window with a table of band and mode statistics.

Create a Cabrillo



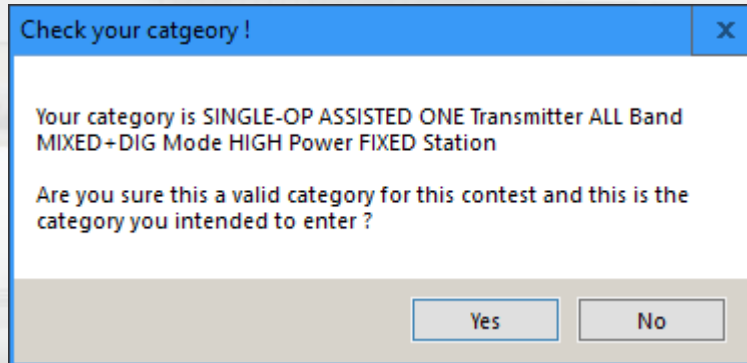
Click on “File” and then on “Generate Cabrillo File”

Create a Cabrillo



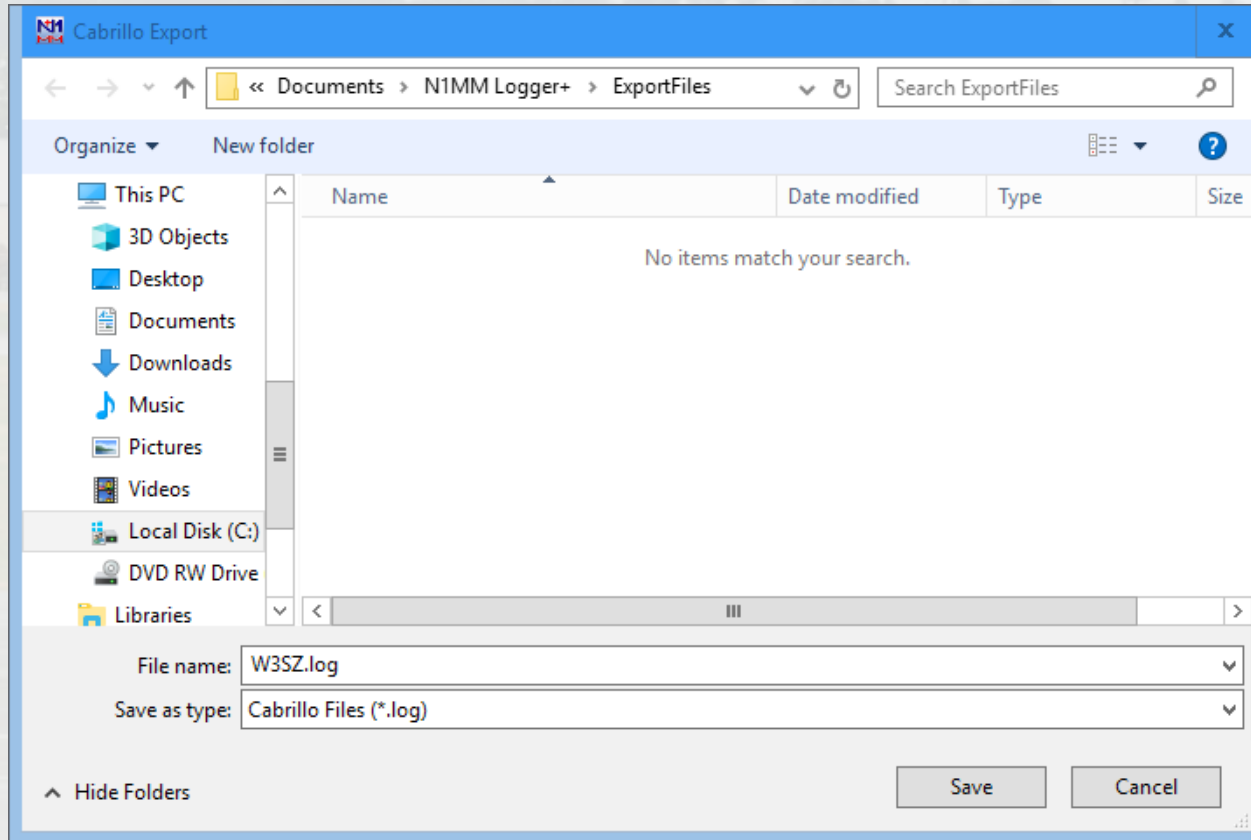
Click "OK"

Create a Cabrillo



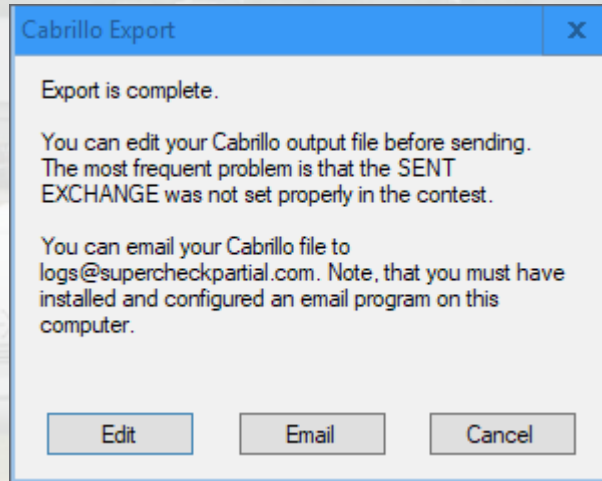
Click “Yes” if the parameters are correct

Create a Cabrillo



Change the Cabrillo
file name if desired

Create a Cabrillo



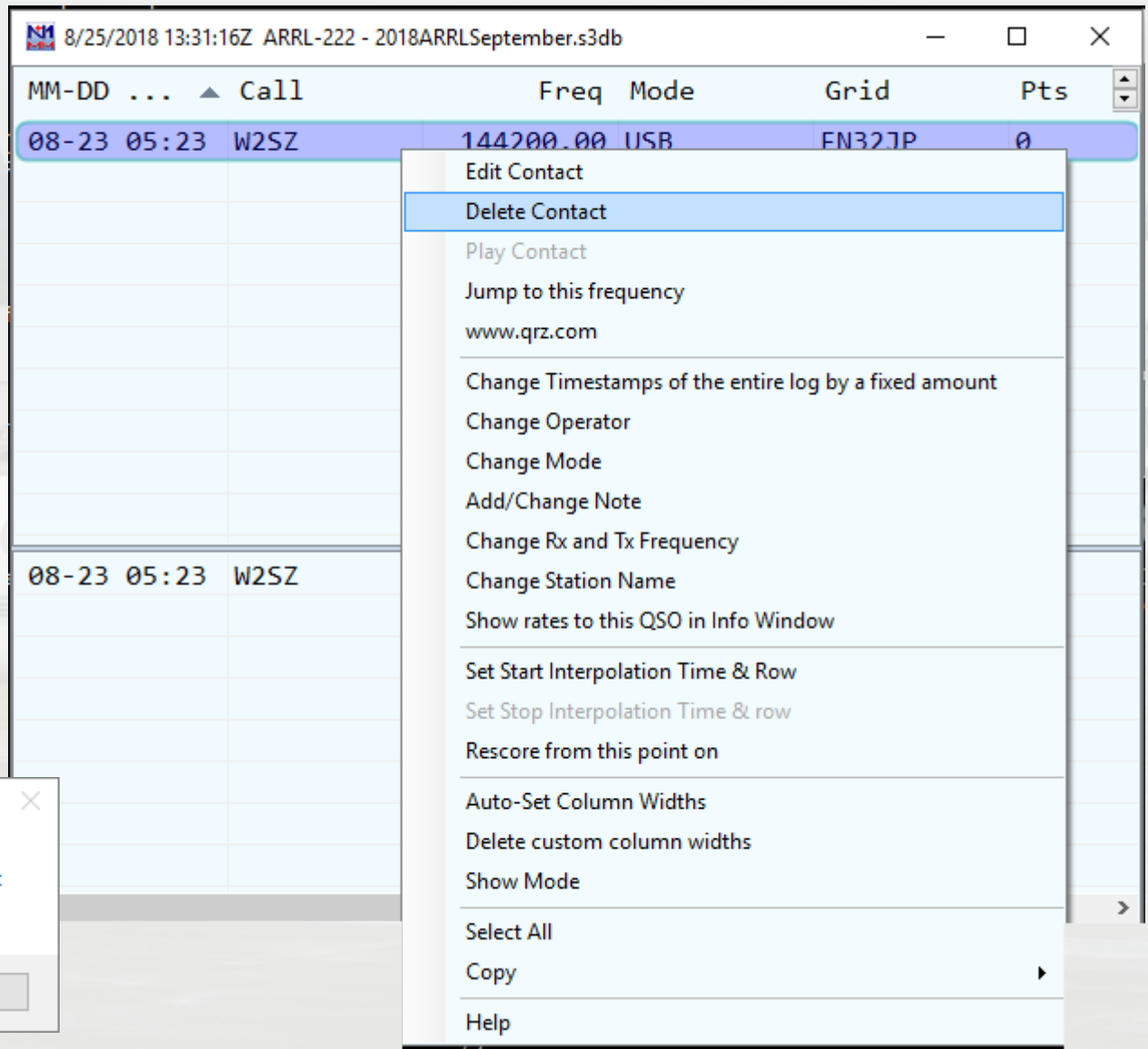
Click "Edit"

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**



The screenshot shows the ARRL log window titled "8/25/2018 13:31:16Z ARRL-222 - 2018ARRLSeptember.s3db". The log table has columns for "MM-DD ...", "Call", "Freq", "Mode", "Grid", and "Pts". A contact with call sign "W2SZ" is selected, and a context menu is open over it. The menu items include "Edit Contact", "Delete Contact", "Play Contact", "Jump to this frequency", "www.qrz.com", "Change Timestamps of the entire log by a fixed amount", "Change Operator", "Change Mode", "Add/Change Note", "Change Rx and Tx Frequency", "Change Station Name", "Show rates to this QSO in Info Window", "Set Start Interpolation Time & Row", "Set Stop Interpolation Time & row", "Rescore from this point on", "Auto-Set Column Widths", "Delete custom column widths", "Show Mode", "Select All", "Copy", and "Help".

MM-DD ...	Call	Freq	Mode	Grid	Pts
08-23 05:23	W2SZ	144200.00	USB	FN32JP	0
08-23 05:23	W2SZ				

Confirm Contact Delete

Are you sure you want to move to DELETEDQS this contact with W2SZ at
2018-08-23 05:23:50?

Yes

No

Questions?

