

Willamette Valley



DX Club

GETTING STARTED WITH



Mike Ritz, W7VO
Scappoose, OR

What is the N1MM+ software package?

- What it is NOT- A general logging software
- What it IS- A wonderfully powerful contest logging software
- What does it cost?

• **IT'S FREE!**



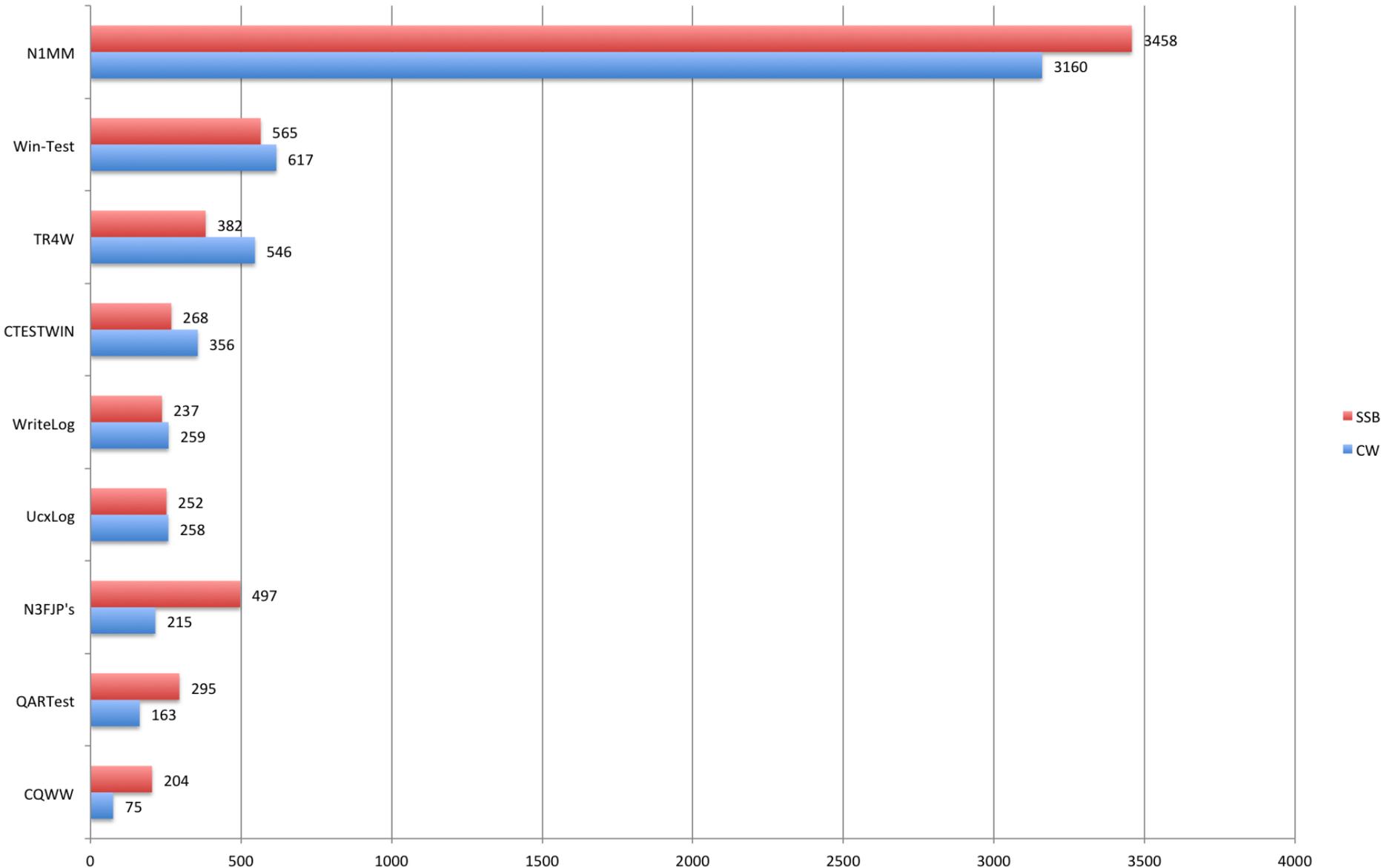
- Note that N1MM “+” replaced N1MM several years ago, and N1MM is no longer supported

The N1MM development team



Front (L-R), Nick, NA3M, Steve, N2IC
Back (L-R) , Pete, N4ZR, Thomas PA1M, Tom, N1MM

2015 CQ-WW With at least 200 submissions



PC Requirements for N1MM+



- Recommend a dual core processor computer, with at least 2 GB of RAM
- For home use, stick with at desktop with *at least* a 19 inch monitor
- Best with 20 inch or larger monitor, two monitors is even better (especially with RTTY contests, and if using bandscope or other software)
- XP or better MS based operating system. Recommend W7-W10
- Best with internet connection, but not required (OK for Field Day!)
- Can be used whether or not radio can be interfaced
- Don't skimp on serial ports.... (at least 3 for laptops, 5 for desktops)
 - Radio frequency and band comms
 - Winkeyer control for CW (more on Winkeyer later)
 - Signalink for digital (RTTY)
 - Mouse
 - Keyboard

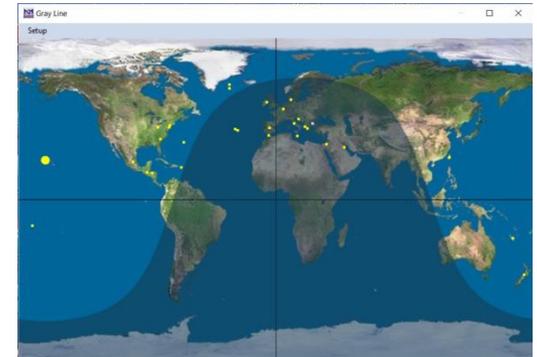
Features

- Pretty much self upgrading! Tells you when new versions available when you first load it up (requires an internet connection...)
- New versions come out about once a week
- All major and many minor HF Contests are supported
- SSB, CW and Digital support
- Seamless Multi-Operator/ Multi-Station support
- VHF and up contesting
- DXpedition mode (Stay in Run or S&P)
- Full computer-to-computer networking for multi-stations, or just have log saved on second computer



Features, (con't)

- Uses external or computer sound card for Digital Voice Keying, (DVK), but also DVK interface for W9XT and other DVK interfaces
- Interfaces well with most radios with built in DVK or CW memory
- Automatic CW generation (LPT and via USB to serial converter, or Winkeyer)
- Rotator control (Using N1MM Rotor, PSTRotorAZ or ARSWIN)
- Grayline Map window
- Two VFO support when using one radio, with one VFO per Bandmap
- SO2R/SO2V support
- Brand new feature: Bandscope support for latest ICOM radios (experimental)



Features, (con't)

- Telnet cluster support – spots automatically updates the bandmaps from Telnet
- Winkeyer support (Serial CW keyer by K1EL)
- Automatic beam heading and sunrise/sunset calculations
- Automatic serial number generation for CW and RTTY contests
- Provides for pretty much automatic contesting!



How to load N1MM+

- Download from: <http://n1mm.hamdocs.com/>
- Click on “Files”, then “N1MM Logger Plus Full Install”



N1MM Contest Logging Software

Free Software for Phone, CW, and Digital Modes

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

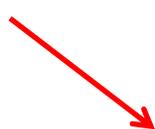
N1MM Logger Plus Full Install

Note: Just in case it isn't obvious, these instructions are for N1MM Logger PLUS. If you are still running N1MM Logger CLASSIC and want those files, go to <http://n1mmclassic.hamdocs.com>.

New to N1MM?
Installing N1MM Logger+ for the first time is a two-step process. You must first download and run the Full Install (sometimes also referred to as the Base Install), followed by downloading and running the Latest Update. Each latest update includes significant upgrades, but unless you do the Full Install, subsequent updates will not have all the files they need to operate properly. **After performing the Full Install, check the version number of the Latest Update. If that version number is different from the version number of the Full Install, proceed directly to downloading and running the Latest Update installer before using the program.**

Just starting with N1MM+?
We strongly encourage you to join the N1MMLoggerplus Yahoo email reflector. Click here: [N1MMLoggerPlus](#)

Click here



To Download the Full Install, click: [DOWNLOAD FULL INSTALLER](#).

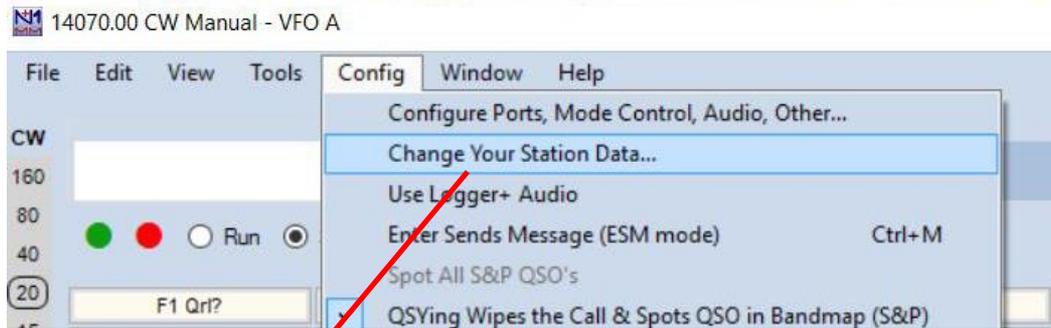
Notes:

- Detailed instructions on running the Full Installer and Update installers and setting up the program for first use can be found [here](#).
- Do not uninstall/reinstall. Updates are intended to be installed on top of each other
- Updates are cumulative, so when installing an update, you only need to install the most recent one
- Do not use the Run option when connected to the website. Save the file to your computer first and then run it *as administrator* from the PC
- Note that data files are stored in a different location from the program itself. By default, data files will be in a directory called N1MM Logger+ in your My Documents folder. Make a backup of your My Documents\N1MM Logger+ directory, including sub-directories, on a regular basis. At some point you'll be very glad you did.

Last Modification: 17 May 2015 03:15:10 GMT-7 by VE3KL

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First- Load Station Configuration



Edit Station Information

Tip: You need to fill out this form or the program will not perform properly... Also, make sure your computer date and time are set to the LOCAL date and time zone for your location.

Call: W7VO

Name: Mike Ritz

Address: [Empty]

Address: [Empty]

City: [Empty] State: [Empty] Zip: [Empty]

Country: UNITED STATES

Grid Square: CN85MS CQ Zone: 3 ITU Zone: 6

License: E Latitude: 45.7708 N Longitude: 122.9583 W

Station TX/RX: [Empty] Power: [Empty]

Antenna: [Empty] Ant. Height: [Empty] a.s.l. [Empty]

ARRL Section: OR

Rover QTH: [Empty]

Club: Willamette Valley DX Club

Email address: NoEmailProvided

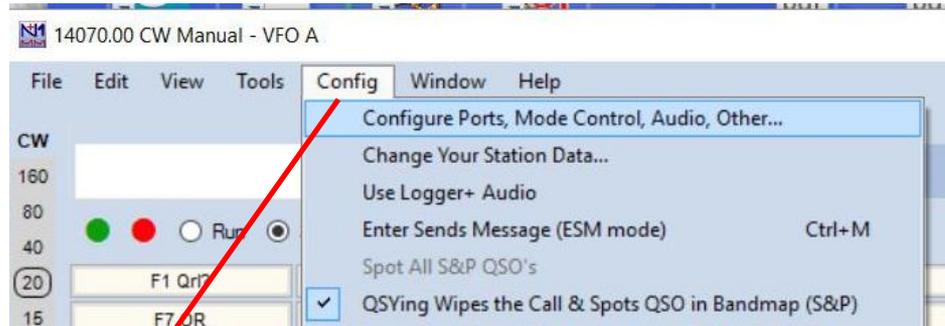
Ok Help Cancel

Grid Square

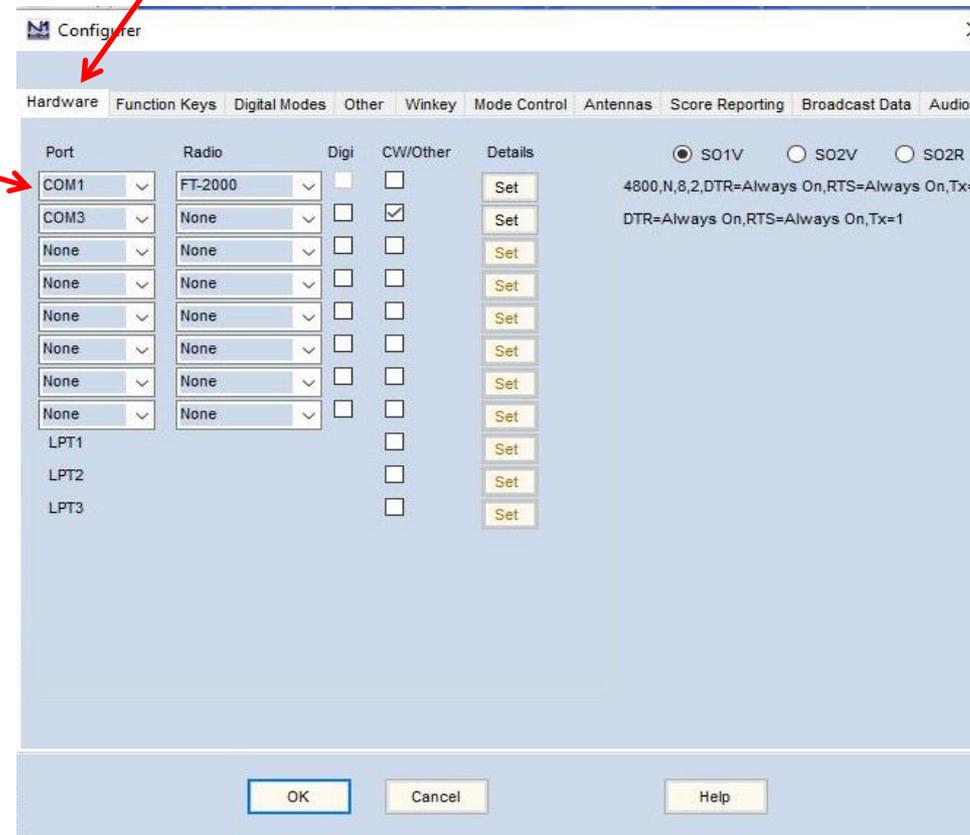
CQ Zone, ITU Zone

ARRL Section

Set up the radio interface



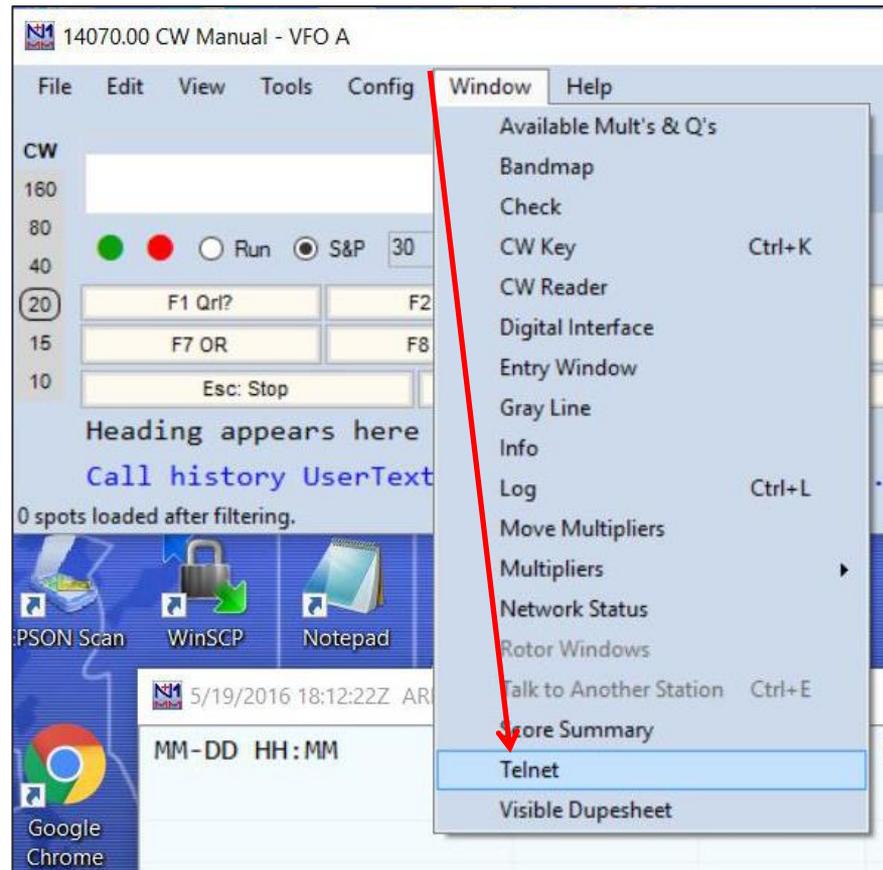
Radio and which com port it is connected to



Default values are usually best

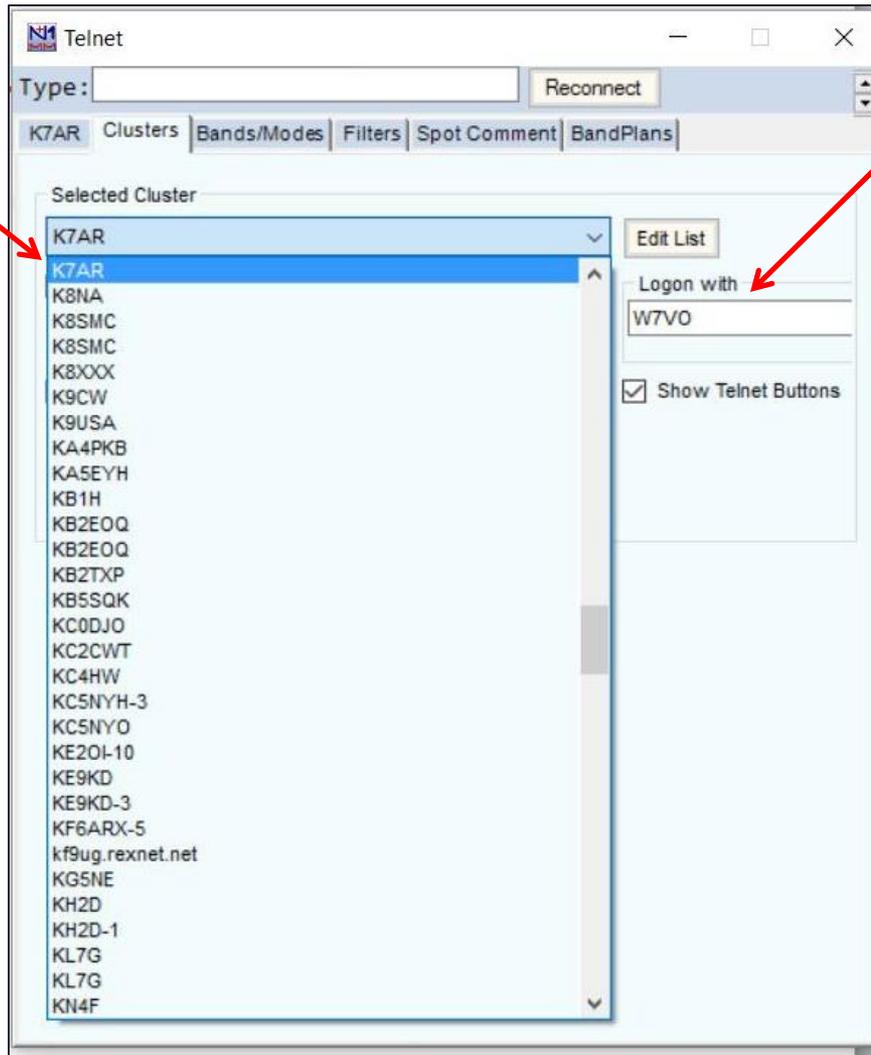
Set up Telnet connection

- Used to populate the Bandmap with “spots”
- Requires an internet connection, but is a resource hog unless you limit the spots!
- Suggest filtering for North America only, and only the contest bands and modes of interest



Set up Telnet Connection

Pick a cluster site



Your call goes here

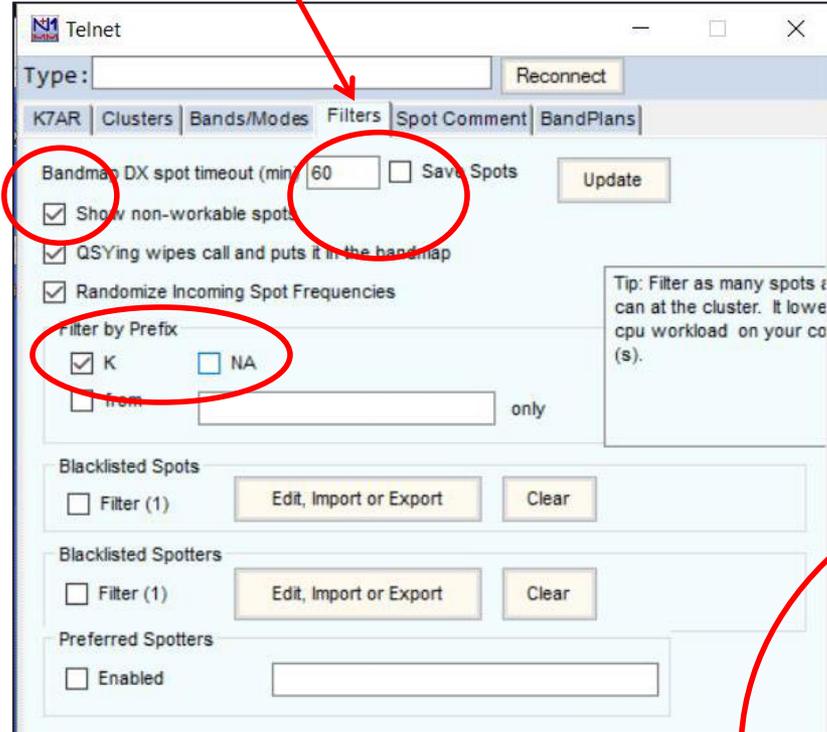
Success!

```
Telnet
Type: [ ] Reconnect
K7AR Clusters Bands/Modes Filters Spot Comment BandPlans
|
|   Located in Vancouver, WA
|
|   Running AR-Cluster Version 6 Software
|
|   CW skimmer spots are defaulted OFF
|   but can be turned ON with filters
|
|   Filter information at:
|   http://www.ab5k.net/ArcDocsVer6/UserManual/ArcDx.htm
|
|   AR-Cluster Client desktop app available
|   Demo at: http://www.youtube.com/watch?v=7tq5j20kXuo
|   Info at: http://www.ab5k.net
|
|-----|
| At the login prompt please enter your amateur radio callsign.
| Please enter your call:
| W7VO
| Hello W7VO
| Welcome to the K7AR-4 AR-Cluster node version 6.1.5123
| New commands:
| Set Dx Filter Not Skimmer  -> Turns off skimmer spots
| Set Dx Filter              -> Turns on all spots including sk
| W7VO de K7AR-4 19-May 1824Z arc6>
| DX de PD7FT:   14225.0 HS0ZLE      5/9+
| DX de OZ1BNN:  50478.0 OZ1DJJ     PI4 7 dB Q=98 (tr)85 km
|
|-----|
| BYE   CONN   DWN   SH/DX   USERS   WWW
| Clear NE   Yes DX   NE only   No DX   No VHF   W7VO
```

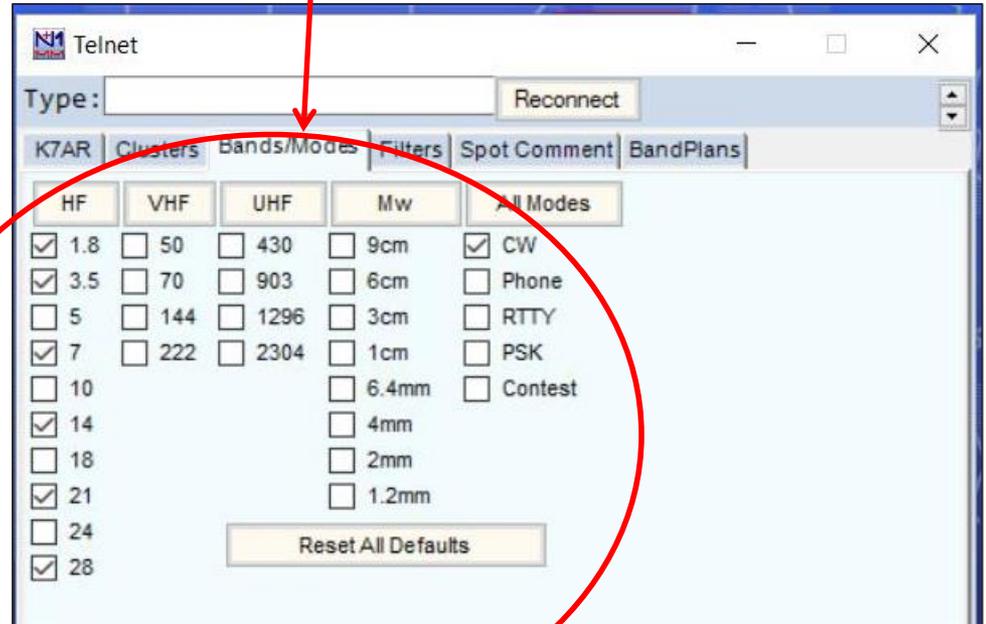
Best to filter spots at this level

Filters

Filtering spots

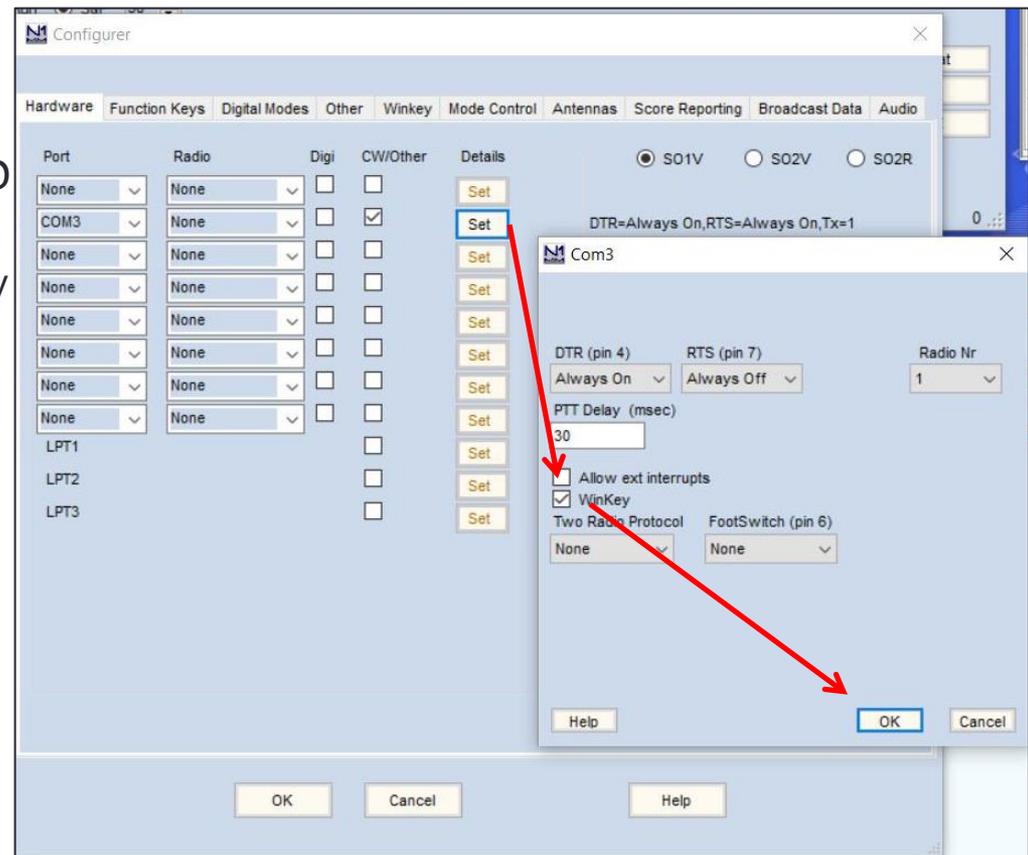


Bands/Modes



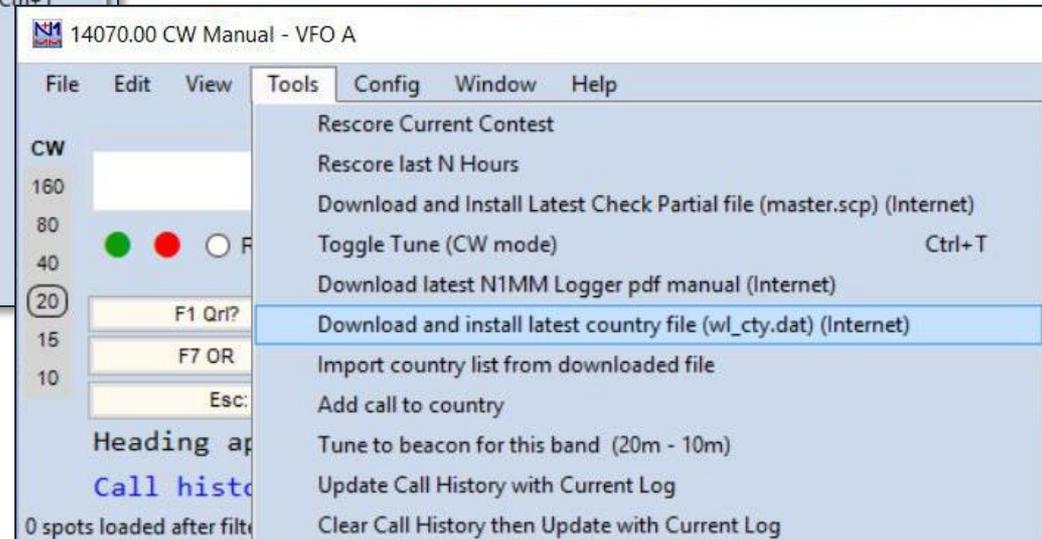
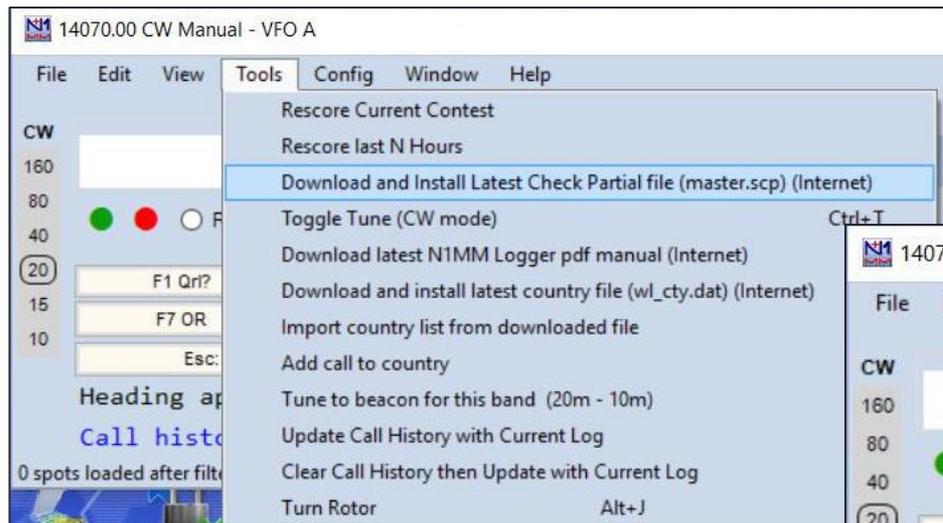
Winkeyer Setup (CW only)

- Available built, or as a kit from: <http://k1el.tripod.com/>
- Plugs into a USB port, paddle plugs into it, and USB cable goes to key input of radio - **Pretty simple!**
- Set Winkeyer's Port number from Hardware Configuration menu
- Need to set Winkeyer option setting!
- With some older computers you may need to load driver software
- Uses FTDI USB chipset, but driver CD comes with the package
 - Later versions of Windows automatically find and load the right drivers.



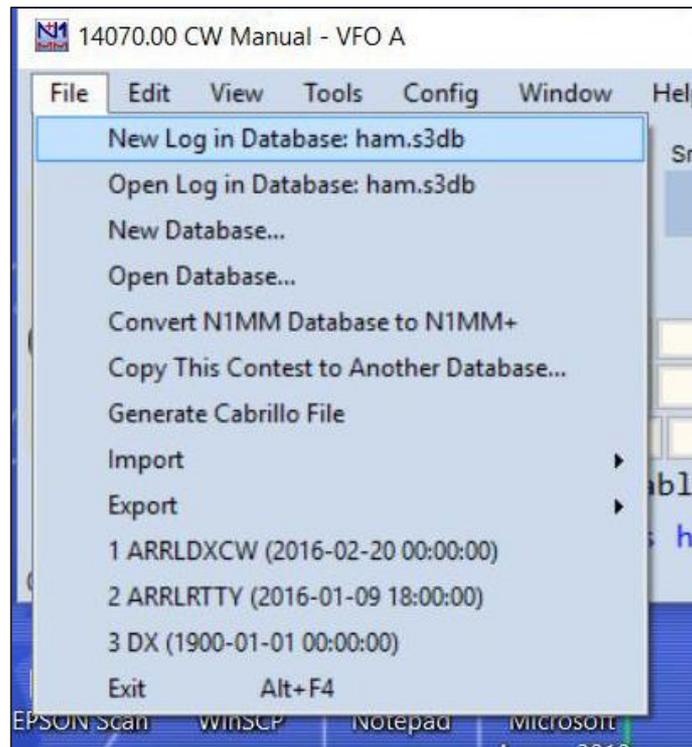
Let's work a contest!

- First- The day before, ensure Windows is updated! **IMPORTANT!**
- Then , update N1MM+ software, if needed. (This is automatic once you have opened software)
- Update “Check Partial File” from Tools menu (master.scp) (“Super Check Partial”)
- Update “latest country file” from Tools menu (wl_cty.dat) (**IMPORTANT!!**)



Now, select your contest.....

- Open N1MM+, then go to “File”, “New Log in Database..”



Find the right one!

- Select the contest you need from the menu:
- Then select:
 - Operator type
 - Band
 - Power
 - Mode
 - Overlay
 - Assisted or not
 - Number of transmitters
 - **Check sent exchange!**
 - If multi, list all operators
- Then Click **OK!**

ham.s3db

Select Contest Type for New Log

Log Type: ARRLDXCW

Start Date: 10MRTTY, 9ACW, AGCW, ALLASIACW, ALLASIASB, ANATOLRTTY, APSCW, APSSSB

Contest: Associated Files

Category

Operator: SINGLE-OP

Band: ALL

Power: HIGH

Mode: CW

Overlay: N/A

Station: FIXED

Assisted: ASSISTED

Transmitter: ONE

Sent Exchange: OR

Operators: W7VO

Soapbox:

State for Log Type QSOPARTY

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

Show Rules

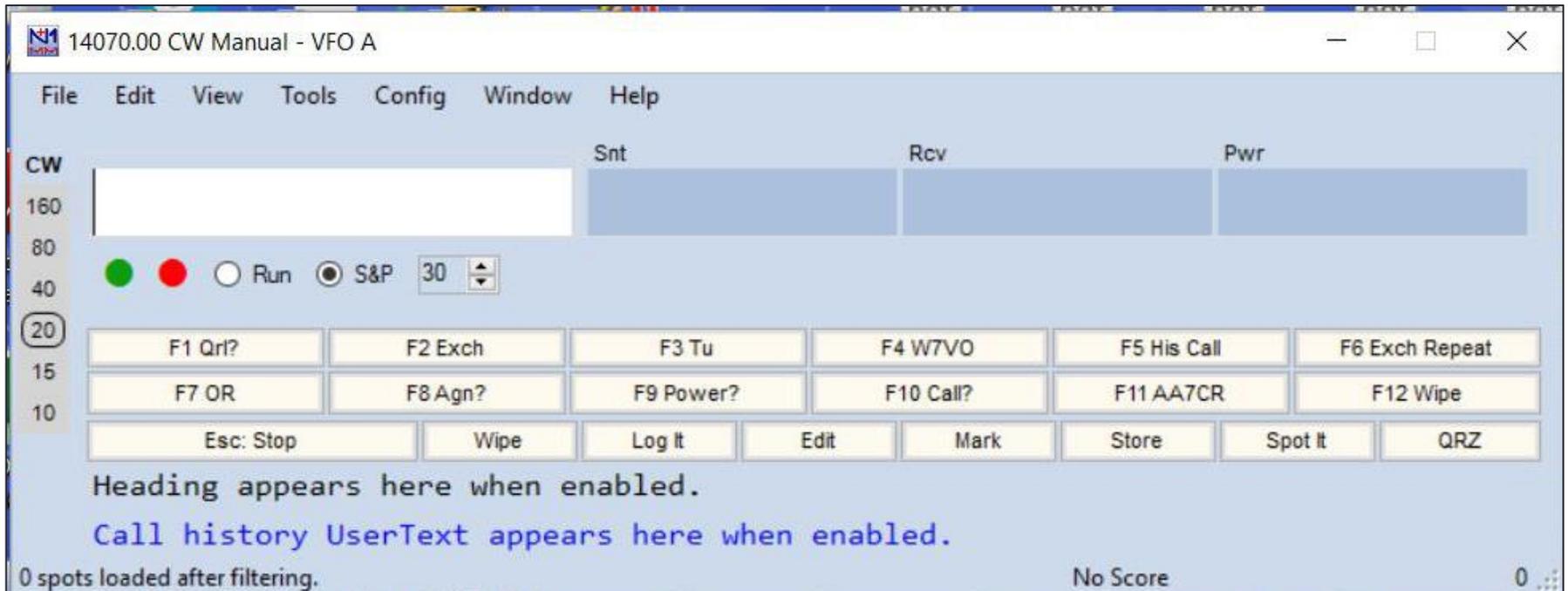
Show Setup

Update Ops from Log

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

OK Help Cancel

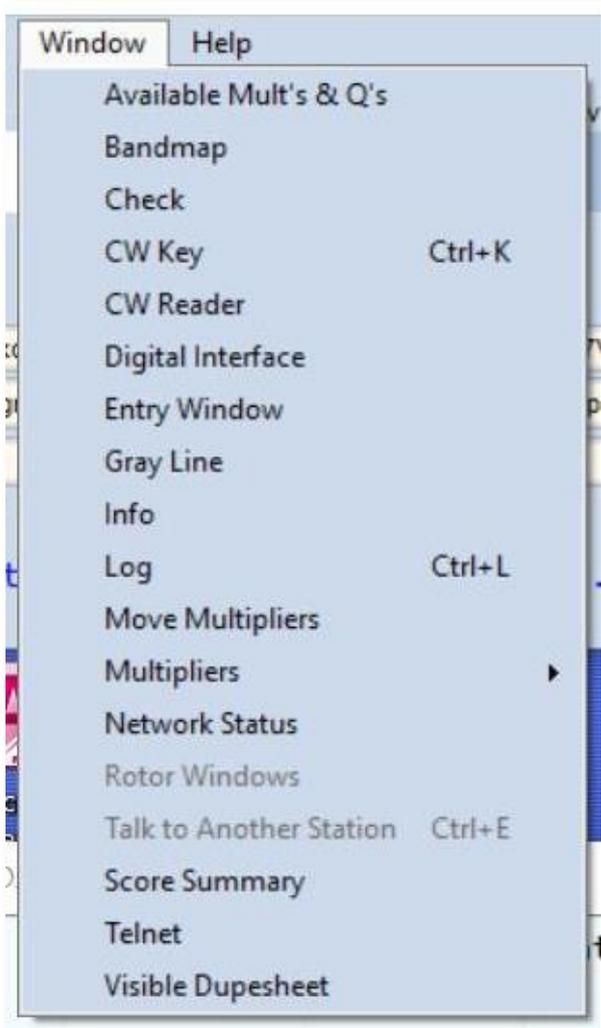
Function (F) Buttons



- Used for automated messaging during contests, click and it does the work!
- Use default messages, or can customize (and save) for each contest
- Works with either Phone, CW, or RTTY (automatic)
- Separate messages for **Search & Pounce** and **Run** modes
- For Phone, you need .wav files on computer, or CAT commands to radio
- To access, right click on any of the F buttons, and edit away!
- More details in “Advanced” presentation

The most common “Windows”

- These are the N1MM ‘pop-ups’ that are tools at your disposal



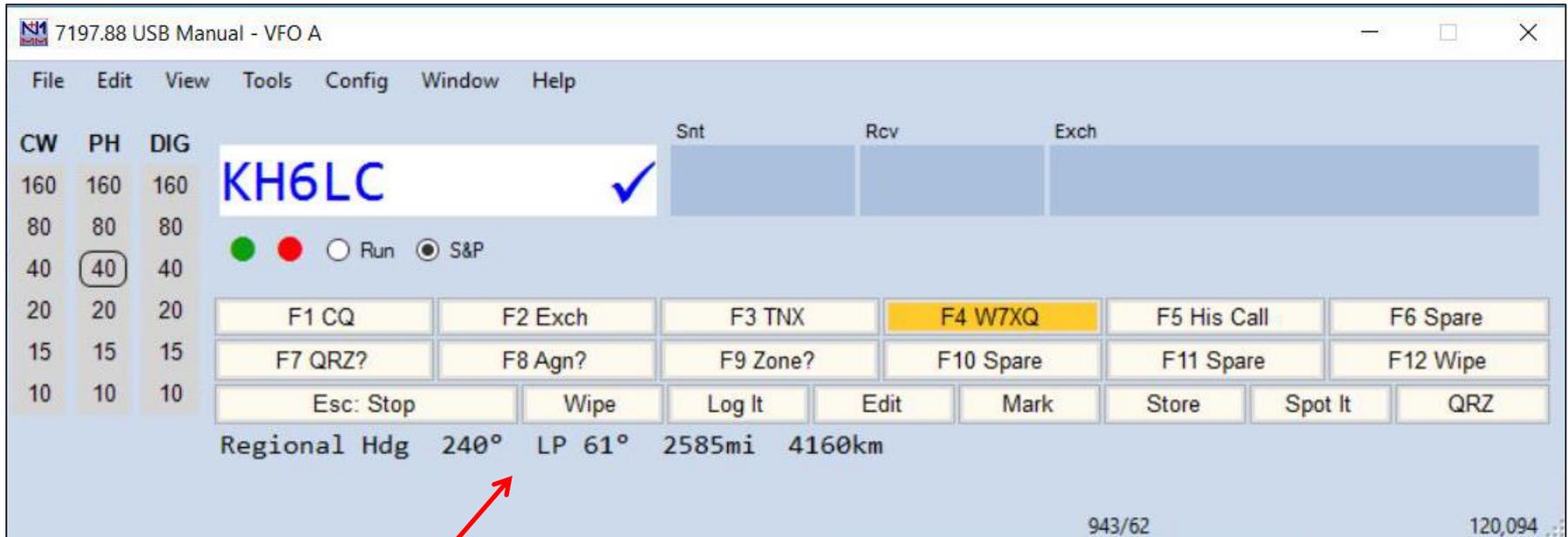
Most commonly kept open during contest:

- Entry Window
- Log
- Bandmap
- Check
- Multipliers
- Score Summary
- Digital Interface (for RTTY contests)
- Available Mults & Qs

Open but minimized

- Telnet
- Network Status

Entry Window

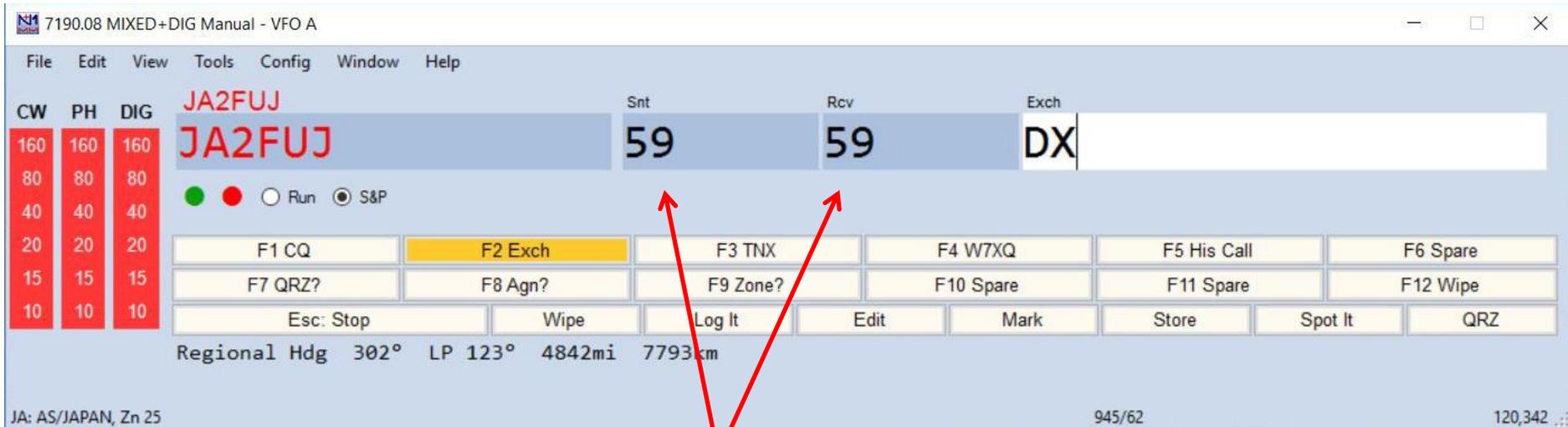


Gives you the beam headings, and path distances for that station

Note: Color of callsign displayed is dependent "on usefulness" of contact. Is it a new multiplier, a double mult (even better!), just another contact, or a duplicate, or an unusable contact?

More on this later, along with what that checkmark means!

Entry Window



- When logging, **EVERYBODY IS “59”, or “599”!**
- In fact, these are what N1MM automatically loads for signal reports
- You can change if needed, but generally not.....

Log Window

5/31/2017 13:43:22Z 7QP QSO Parties (US and Canada) - ham.s3db

MM-DD HH:MM	▲ Call	Freq	Snt	Rcv	M...	Exch	Sect	M1	Pts	Misc	Pfx	Computer	R#	Op
05-07 06:26	KM6CSY	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:27	K2KU	3888.50	59	59	LSB	NY	NY		2	NY	K	W7XQ-PC	1	W7VO
05-07 06:28	N7T	7200.00	59	59	LSB	AZGLA	AZ		0	AZGLA	K	W7VO	2	W7VO
05-07 06:29	K7SS	7200.00	59	59	LSB	WAKNG	WA		2	WAKNG	K	W7VO	2	W7VO
05-07 06:31	WA7PRC	3888.50	59	59	LSB	WASNO	WA		2	WASNO	K	W7XQ-PC	1	W7VO
05-07 06:31	NX3L	7200.00	59	59	LSB	PA	PA		2	PA	K	W7VO	2	W7VO
05-07 06:32	E51DLD	7200.00	59	59	LSB	DX			2	DX	E5/S	W7VO	2	W7VO
05-07 06:33	NC1WX	7200.00	59	59	LSB	NC	NC		2	NC	K	W7VO	2	W7VO
05-07 06:36	NX7DX	3888.50	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7XQ-PC	1	W7VO
05-07 06:37	WA0JCO	7200.00	59	59	LSB	MO	MO		2	MO	K	W7VO	2	W7VO
05-07 06:37	AG6AY	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:38	KE8FT	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:39	KM4LVX	7200.00	59	59	LSB	TN	TN		2	TN	K	W7VO	2	W7VO
05-07 06:43	VE7BGP	7200.00	59	59	LSB	BC	BC		2	BC	VE	W7VO	2	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-07 06:45	W6ABM	3888.50	59	59	LSB	ORTIL	OR		2	ORTIL	K	W7XQ-PC	1	W7VO
05-07 06:53	KM6DVT	3889.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-29 23:15	W7VO	7197.88	59	59	LSB	ORDES	OR		2	ORDES	K	W7VO	1	W7VO

Duplicate Contacts- “Dupes”

- N1MM will automatically warn you if it finds that the call you have entered is already in the log for that contest
- That does NOT mean that the other guy has you in the log!
- Sometimes it's just easier to work them and move on.....
- You can override the Duplicate status, and it will score the contact as 0 points. Usually no penalty for this with the organizers
- Sometimes (as in QSO parties), the callsign is a duplicate, but the multiplier is not if the station has changed locations to a new multiplier. This used to be noted in the bottom area of the log as a warning



Duplicate Contacts- "Dupes"

7190.08 LSB Manual - VFO A

File Edit View Tools Config Window Help

CW PH DIG Snt Rcv Exch

160 160 160 K7SS

80 80 80

40 40 40 Run S&P **Dupe**

F1 CQ	F2 Exch	F3 TNX	F4 W7XQ	F5 His Call	F6 Spare		
F7 QRZ?	F8 Agn?	F9 Zone?	F10 Spare	F11 Spare	F12 Wipe		
Esc: Stop	Wipe	Log It	Edit	Mark	Store	Spot It	QRZ

Regional Hdg 120° LP 300° 668mi 1074km

Call history UserText appears here when enabled.

K: NA/UNITED STATES, Zn 3 943/62 120,094

6/1/2017 13:33:22Z 7QP QSO Parties (US and Canada) - ham.s3db

MM-DD HH:MM	Call	Freq	Snt	Rcv	M...	Exch	Sect	M1	Pts	Misc	Pfx	Computer	R#	Op
05-07 06:25	W1SRD	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:26	KM6CSY	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:27	K2KU	3888.50	59	59	LSB	NY	NY		2	NY	K	W7XQ-PC	1	W7VO
05-07 06:28	N7T	7200.00	59	59	LSB	AZGLA	AZ		0	AZGLA	K	W7VO	2	W7VO
05-07 06:29	K7SS	7200.00	59	59	LSB	WAKNG	WA		2	WAKNG	K	W7VO	2	W7VO
05-07 06:31	WA7PRC	3888.50	59	59	LSB	WASNO	WA		2	WASNO	K	W7XQ-PC	1	W7VO
05-07 06:31	NX3L	7200.00	59	59	LSB	PA	PA		2	PA	K	W7VO	2	W7VO
05-07 06:32	E51DLD	7200.00	59	59	LSB	DX			2	DX	E5/S	W7VO	2	W7VO
05-07 06:33	NC1WX	7200.00	59	59	LSB	NC	NC		2	NC	K	W7VO	2	W7VO
05-07 06:36	NX7DX	3888.50	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7XQ-PC	1	W7VO
05-07 06:37	WA0JCO	7200.00	59	59	LSB	MO	MO		2	MO	K	W7VO	2	W7VO
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05-07 06:39	KM4LVX	7200.00	59	59	LSB	TN	TN		2	TN	K	W7VO	2	W7VO
05-07 06:43	VE7BGP	7200.00	59	59	LSB	BC	BC		2	BC	VE	W7VO	2	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-07 06:45	W6ABM	3888.50	59	59	LSB	ORTIL	OR		2	ORTIL	K	W7XQ-PC	1	W7VO
05-07 06:53	KM6DVT	3889.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:29	K7SS	7200.00	59	59	LSB	WAKNG	WA		2	WAKNG	K	W7VO	2	W7VO
05-07 06:18	K7SS	7010.00	599	599	CW	WAKNG	WA		3	WAKNG	K	W7VO	2	W7VO

Duplicate Contact- "Dupe", (but not really)

7190.08 MIXED+DIG Manual - VFO A

File Edit View Tools Config Window Help

CW PH DIG JA2FUJ Snt Rcv Exch
 160 160 160 W7YAQ
 80 80 80
 40 40 40
 20 20 20
 15 15 15
 10 10 10

Run S&P **Dupe**

F1 S&P CQ	F2 Exch	F3 Spare	F4 W7XQ	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 120° LP 300° 668mi 1074km
 Call history UserText appears here when enabled.

K: NA/UNITED STATES, Zn 3 944/62 120,218

6/1/2017 14:01:09Z 7QP QSO Parties (US and Canada) - ham.s3db

MM-DD HH:MM	Call	Freq	Snt	Rcv	M...	Exch	Sect	M1	Pts	Misc	Pfx	Computer	R#	Op
05-07 06:29	K7SS	7200.00	59	59	LSB	WAKNG	WA		2	WAKNG	K	W7VO	2	W7VO
05-07 06:31	WA7PRC	3888.50	59	59	LSB	WASNO	WA		2	WASNO	K	W7XQ-PC	1	W7VO
05-07 06:31	NX3L	7200.00	59	59	LSB	PA	PA		2	PA	K	W7VO	2	W7VO
05-07 06:32	E51DLL	7200.00	59	59	LSB	DX			2	DX	E5/S	W7VO	2	W7VO
05-07 06:33	NC1WX	7200.00	59	59	LSB	NC	NC		2	NC	K	W7VO	2	W7VO
05-07 06:36	NX7DX	3888.50	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7XQ-PC	1	W7VO
05-07 06:37	WA0JCO	7200.00	59	59	LSB	MO	MO		2	MO	K	W7VO	2	W7VO
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05-07 06:43	VE7BGP	7200.00	59	59	LSB	BC	BC		2	BC	VE	W7VO	2	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-07 06:45	W6ABM	3888.50	59	59	LSB	ORTIL	OR		2	ORTIL	K	W7XQ-PC	1	W7VO
05-07 06:53	KM6DVT	3889.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
06-01 13:52	K7SS	7190.08	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7VO	1	W7VO
06-01 13:53	NX3L	7190.08	59	59	LSB	DE	DE		2	DE	K	W7VO	1	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-06 17:51	W7YAQ	14235.20	59	59	USB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-06 14:05	W7YAQ	7222.00	59	59	LSB	ORDES	OR		2	ORDES	K	W7VO	2	W7VO
05-06 13:35	W7YAQ	7010.00	599	599	CW	ORDES	OR		3	ORDES	K	W7VO	2	W7VO

Duplicate Contact- "Dupe", (but not really)

7190.08 MIXED+DIG Manual - VFO A

File Edit View Tools Config Window Help

CW PH DIG JA2FUJ Snt Rcv Exch
 160 160 160 W7YAQ 59 59 ORJEF
 80 80 80
 40 40 40
 20 20 20
 15 15 15
 10 10 10

● ● ○ Run ● S&P

F1 CQ	F2 Exch	F3 TNX	F4 W7XQ	F5 His Call	F6 Spare		
F7 QRZ?	F8 Agn?	F9 Zone?	F10 Spare	F11 Spare	F12 Wipe		
Esc: Stop	Wipe	Log It	Edit	Mark	Store	Spot It	QRZ

Regional Hdg 120° LP 300° 668mi 1074km
 Call history UserText appears here when enabled.

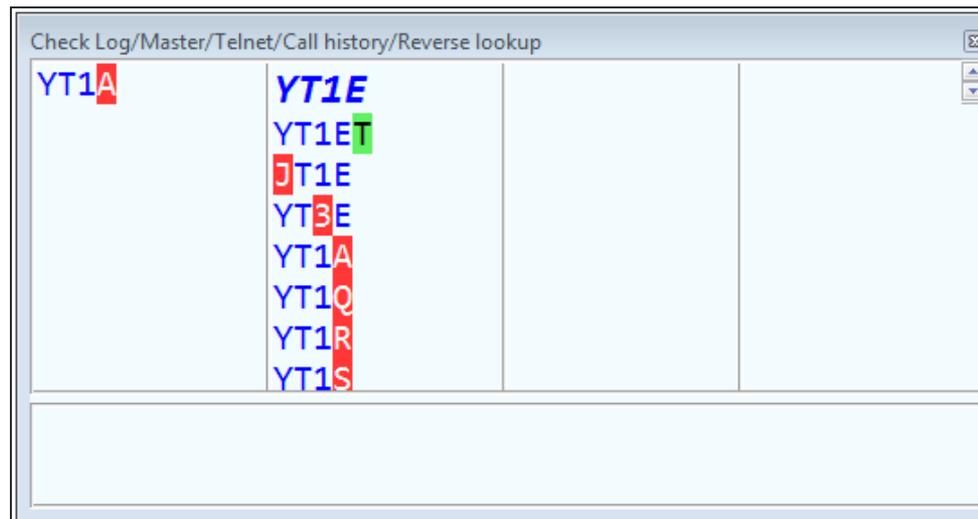
K: NA/UNITED STATES, Zn 3 944/62 120,218

6/1/2017 14:06:27Z 7QP QSO Parties (US and Canada) - ham.s3db

MM-DD HH:MM	Call	Freq	Snt	Rcv	M...	Exch	Sect	M1	Pts	Misc	Pfx	Computer	R#	Op
05-07 06:29	K7SS	7200.00	59	59	LSB	WAKNG	WA		2	WAKNG	K	W7VO	2	W7VO
05-07 06:31	WA7PRC	3888.50	59	59	LSB	WASNO	WA		2	WASNO	K	W7XQ-PC	1	W7VO
05-07 06:31	NX3L	7200.00	59	59	LSB	PA	PA		2	PA	K	W7VO	2	W7VO
05-07 06:32	E51DLD	7200.00	59	59	LSB	DX			2	DX	E5/S	W7VO	2	W7VO
05-07 06:33	NC1WX	7200.00	59	59	LSB	NC	NC		2	NC	K	W7VO	2	W7VO
05-07 06:36	NX7DX	3888.50	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7XQ-PC	1	W7VO
05-07 06:37	WA0JCO	7200.00	59	59	LSB	MO	MO		2	MO	K	W7VO	2	W7VO
05-07 06:37	AG6AY	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:38	KE8FT	3888.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
05-07 06:39	KM4LVX	7200.00	59	59	LSB	TN	TN		2	TN	K	W7VO	2	W7VO
05-07 06:43	VE7BGP	7200.00	59	59	LSB	BC	BC		2	BC	VE	W7VO	2	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-07 06:45	W6ABM	3888.50	59	59	LSB	ORTIL	OR		2	ORTIL	K	W7XQ-PC	1	W7VO
05-07 06:53	KM6DVT	3889.50	59	59	LSB	CA	CA		2	CA	K	W7XQ-PC	1	W7VO
06-01 13:52	K7SS	7190.08	59	59	LSB	WAPIE	WA		2	WAPIE	K	W7VO	1	W7VO
06-01 13:53	NX3L	7190.08	59	59	LSB	DE	DE		2	DE	K	W7VO	1	W7VO
05-07 06:43	W7YAQ	3888.50	59	59	LSB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-06 17:51	W7YAQ	14235.20	59	59	USB	ORDES	OR		2	ORDES	K	W7XQ-PC	1	W7VO
05-06 14:05	W7YAQ	7222.00	59	59	LSB	ORDES	OR		2	ORDES	K	W7VO	2	W7VO
05-06 13:35	W7YAQ	7010.00	599	599	CW	ORDES	OR	✓	3	ORDES	K	W7VO	2	W7VO

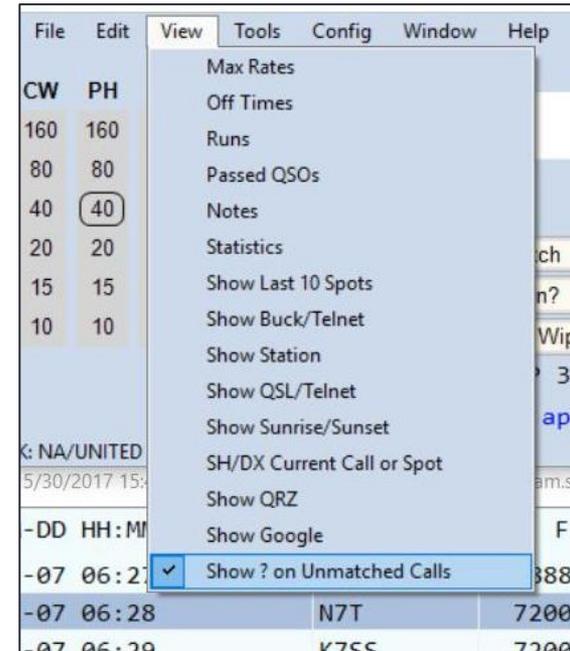
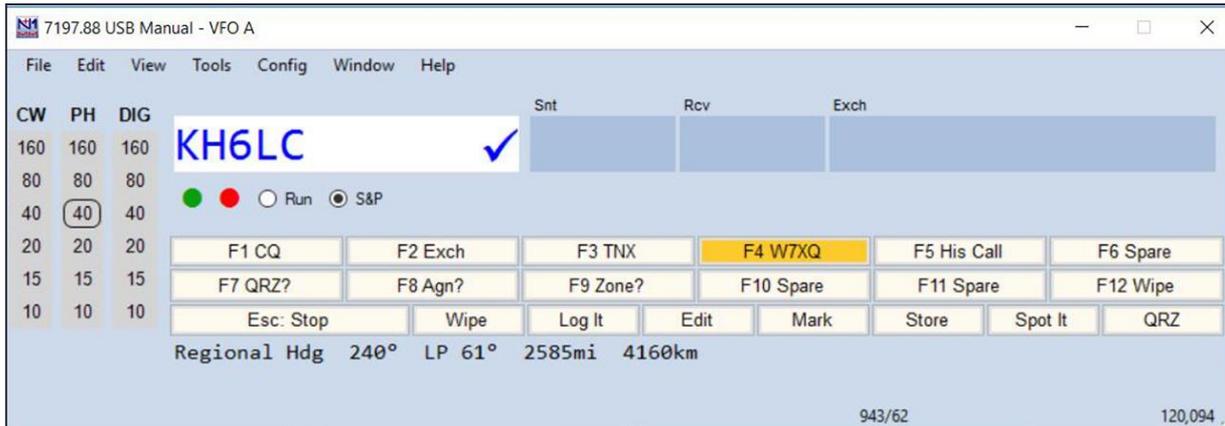
Check Window

- Great tool to figure out if a callsign is “probably valid”, or what the rest of the call “might be”. Checkmark after callsign in Entry window indicates “Call OK”, Question mark (?) indicates “better check that one again!”
- Load in a partial call to see what the known possibilities are. Just need a few characters
- Compares partial calls as entered to “known contesters” to let you know if callsign is a new one, or already known
- Suspect callsigns appear in log highlighted in yellow

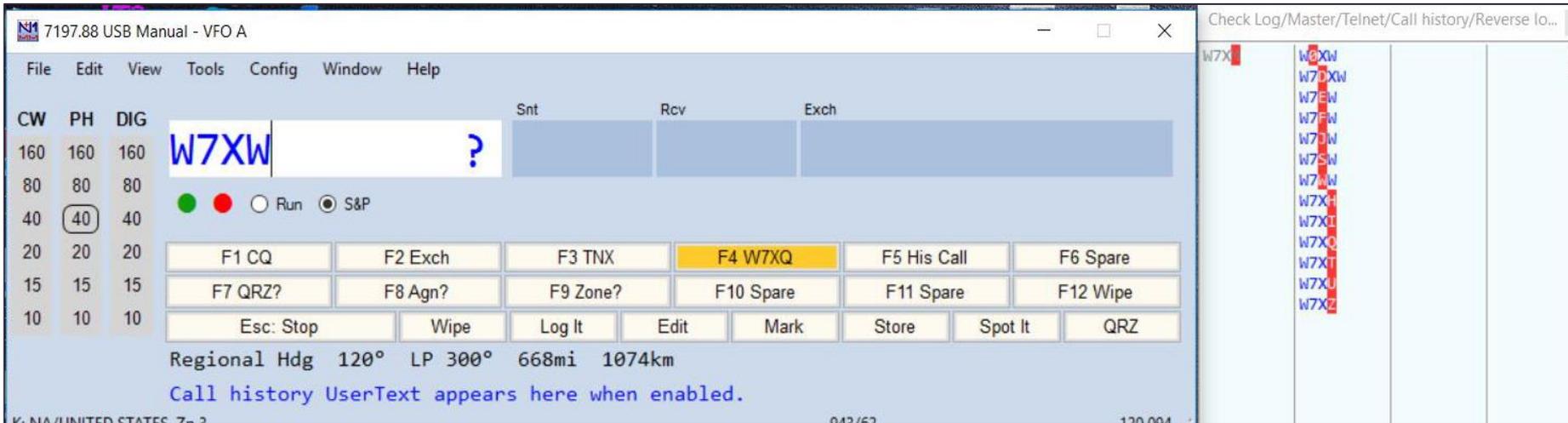


Call is probably "OK"

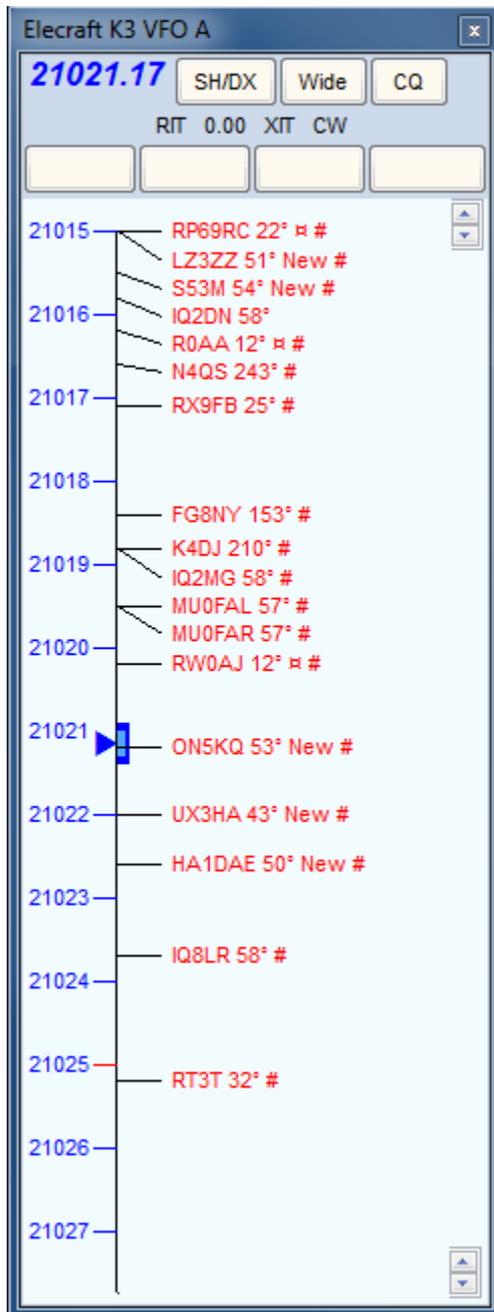
Check Window



Call is suspect...



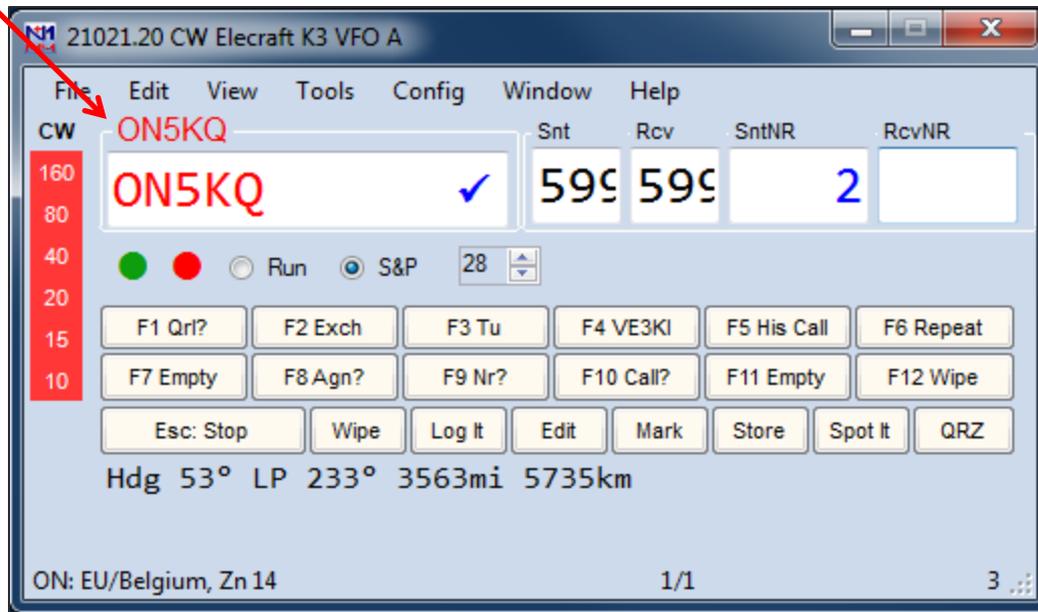
Bandmap Window



- Shows spots as reported to clusters
- Skimmer spots have # after them
- Beam headings given, based on your QTH
- Color of spot is **very** useful:
 - **Red** is new multiplier, very valuable
 - **Green** is a double mult, (new country and zone in CQWW tests), **even more valuable**
 - **Blue** is not a new mult, but is workable for points
 - **Grey** is not workable (you can keep those from displaying)
- Clicking on spot takes your transceiver directly there. Point, click, and work them!
- Color of spots can be changed, if needed
- Use mouse wheel to quickly change bandsread
- Font sizes also adjustable

Bandmap Window

- Clicking on a bandmap spot places callsign in a “Queue Spot”, directly on top of entry window. Clicking on the Queue Spot” places the callsign into the entry window. Color denotes usefulness.



Bandmap Window

- Hovering with the mouse over a spot in the Bandmap gives the following info about the spotted station:
 - Exact frequency sent by spotter
 - Call-sign of spotter
 - The time in minutes since the station was placed on the DX cluster network
 - Comments sent with the spot.
- **Caveats:**
 - Bandmap spots are only about 95% accurate. Do not rely as being 100% accurate
 - You can delete spots you recognize as being bogus by right clicking on spot, then clicking “Delete spot”
 - Be careful when clicking on a spot to ensure it is within your band limits! Band limits are settable via software



KH6LC loaded
from Bandmap

Info Window- Optional

Info - W7VO - Exch: 59 OR

**KH6: OC/HAWAII, Zn 31, Hdg 240° LP 61° 2585mi 4160km
Sunrise:15:47Z Sunset:05:09Z His time: 0313(Sat)**

Q's - 10, 100, 60m, 15m Goal 0

0 0 0 0

Q's/Hr

100
80
60
40
20
0

Next Goal 0

W7VO
Last QSO
0:00

- Clear Message Window
- Callframe Spot
- Country Info
- Sunrise/Sunset
- WWV Messages
- Message Window
- Show Goals
- Show QSO Timers
- Rates & Goals - All Computers
- Rates & Goals - Only Current Band
- Goals Chart - 20min Moving Average
- Goals Chart - 30min Moving Average
- Goals Chart - 60min Moving Average
- Edit, Export Goals...
- Import Goals...
- Copy Message Text to Clipboard
- Show RBN Spots of this Station
- Help

Available Window- Optional

- Populated from Bandmap, provides more detailed information related to your contest
- There is an Important caveat! “Where do the spots come from?”

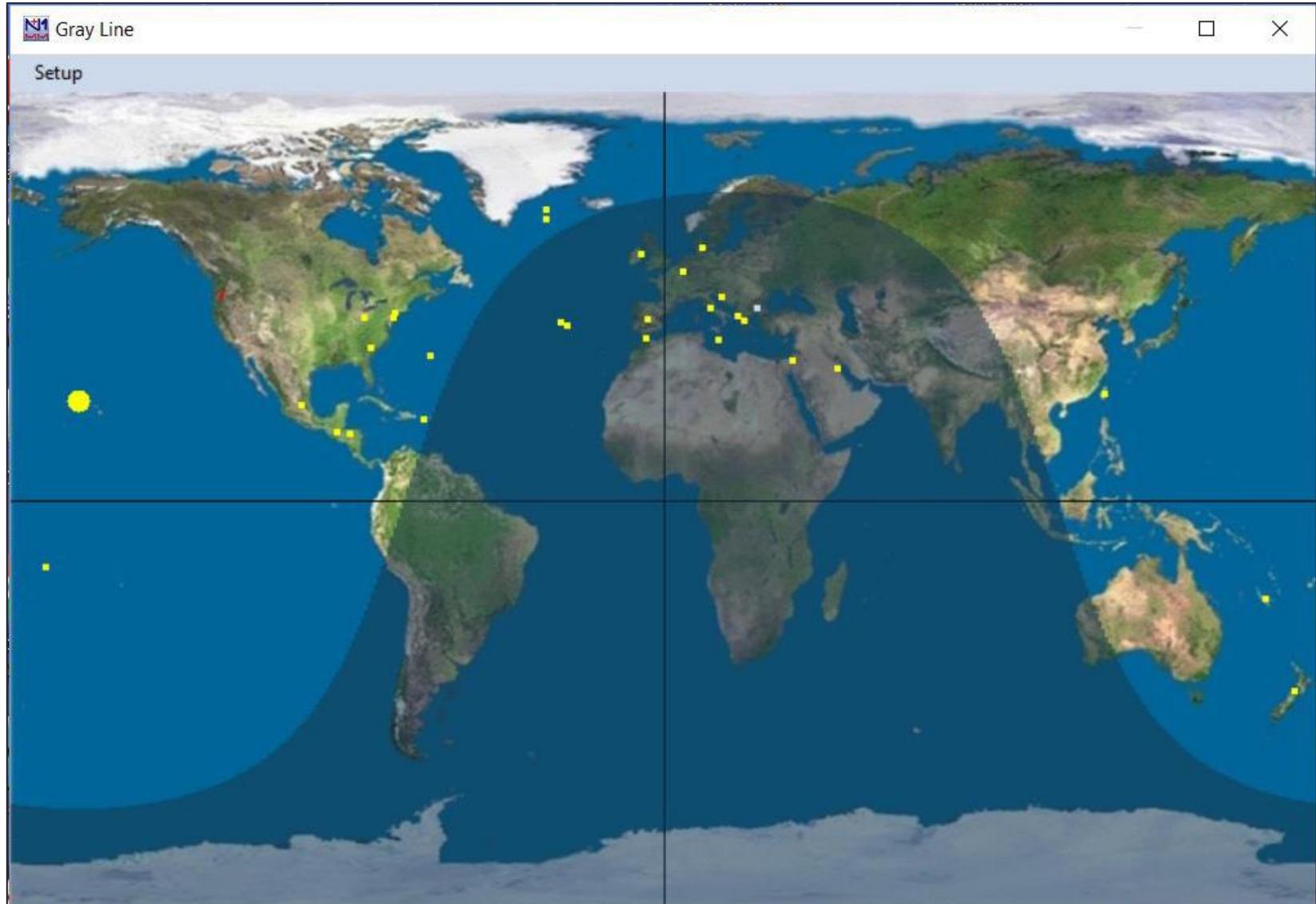
Available - 2 Mults 10 Qs of 29 total spots

Mults Only Bands & Modes

	160	80	40	20	15	10		
Mults	0	0	1	1	0	0		
Qs	0	0	1	9	0	0		
Total Qs	0	0	1	9	0	0		

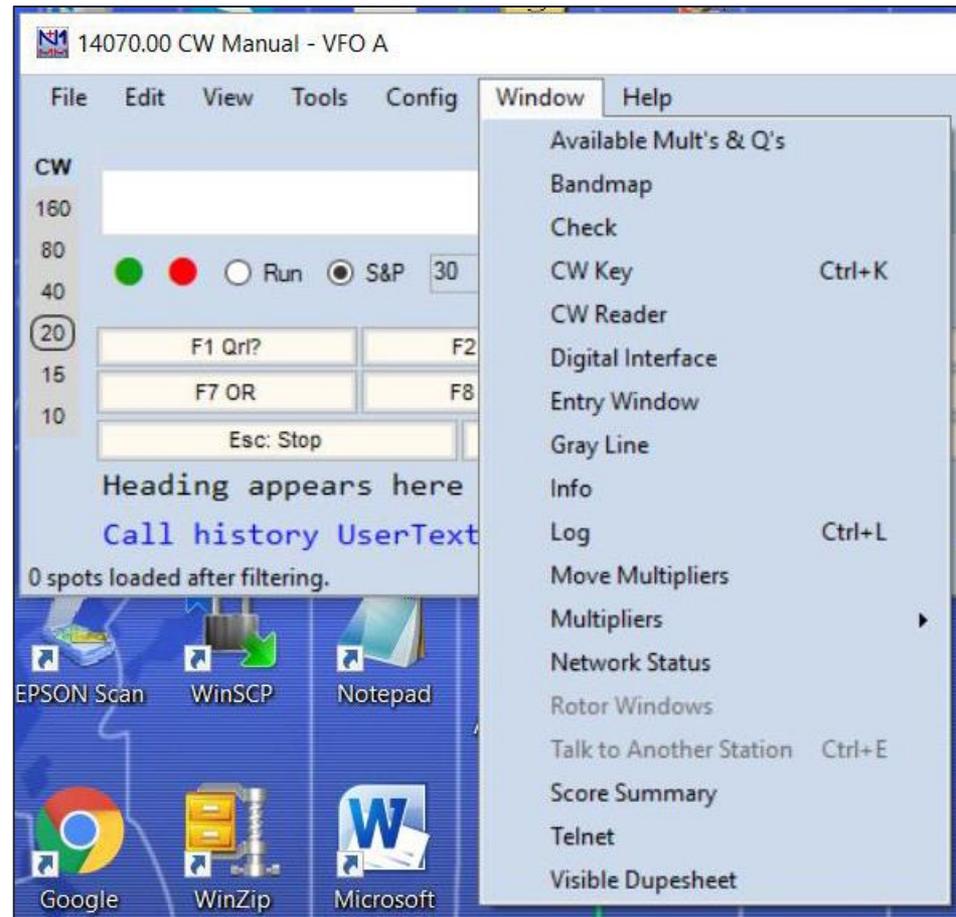
Call	Freq	Dir	Mode	Mult?	S/N	Time v	Spotter	Grid
K1A	7045.0	076°	LSB	Yes 1		2238Z	WA8IWK	---
N6L	14287.0	164°	USB	Yes 1		2236Z	AE6YB	---
IK0VSY	14225.0	031°	USB	Yes 1		2232Z	W3AE	---
IK4GRO	14250.0	031°	USB	Yes 1		2231Z	N3SRJ	---
PJ6/NM1Y	14269.9 ±	099° [□]	USB	Yes 1		2231Z	K3SAE	---
N16BB	14261.0	164°	USB	Yes 1		2229Z	W6HB	---
VP2ETE	14195.0	098° [□]	USB	Yes 1		2228Z	N8SK	---
HI3MRV	14296.0	104° [□]	USB	Yes 1		2227Z	KG5RJR	---

Grayline Window



Time to set up the monitor screen

- Pick out the pop-up windows you need for each contest, put them in where you need on monitor screen for best view
- If operating non-assisted:
 - Log
 - Multipliers
 - Score summary
- If assisted, add:
 - Bandmap
 - Check
 - Open telnet, **then minimize**
- If two or more transmitters, add:
 - Network status (then close it out)
- If you are in a RTTY contest, add:
 - Digital Interface



Contact Mode (SSB) <-> Contest mode (SSB) !

File Edit View Tools Config Window Help

PH Snt Rcv Pwr

160
80
40
20
15
10

Run S&P

F1 ! F2 Exch F3 My Call F4 ! F5 ! F6 !
F7 ! F8 ! F9 ! F10 ! F11 ! F12 Wipe

Esc: Stop Wipe Log It Edit Mark Store Spot It QRZ

Heading appears here when enabled.
Call history UserText appears here when enabled.

0 spots loaded after filtering. No Score 0

3/5/2015 03:51:20Z ARRL DX SSB - ham.s3db

MM-DD HH:MM	Call	Freq	Snt	Rcv	P..	M1	P..	Pts	R#	Op
This Log has no QSOs										

Manual - VFO A

14195.00 SH/DX CQ

14100
14110
14120
14130
14140
14150
14160
14170
14180
14190
14200
14210
14220
14230
14240
14250
14260
14270
14280

9K2UU 9° New
FR5DX 4°
UA9CUA 358°
UA4HTT 4°
UA9MA 350° New
YV4KW 109° New

Check Log/Master/Telnet/Call...

Log	Master	Telnet	Call
0	46354	1	hist

Reverse lookup
0

Countries - 0 mults worked of 2040 possible

Worked Expected Spotted Spotted (Dbl Mult) All AF

6Y					
9J					
9K					
C6					
DL					
FR					
JW					
KP4					
PJ7					
SV					
TI					
UA					
UA9					
UR					
V2					
YV					
ZL					

Info - AA7CR - Exch: 59 OR

Q's - 10, 100, 60m, 51m
Go 50

Q's/Hr	70	56	42	28	14	0
0	0	0	0	0	0	0

W7 Band 0

Score - 0 Points

Band	QSOs	Pts
1 Mult = 1.0 Q's		

Not using a radio that has a serial port?

- No problem! Just enter the frequency each band change directly into the logging window
- Enter frequency as KHz; **3500, 7200, 14020, 21350**, etc.
- Also changes the band indication, and adds frequency to logs

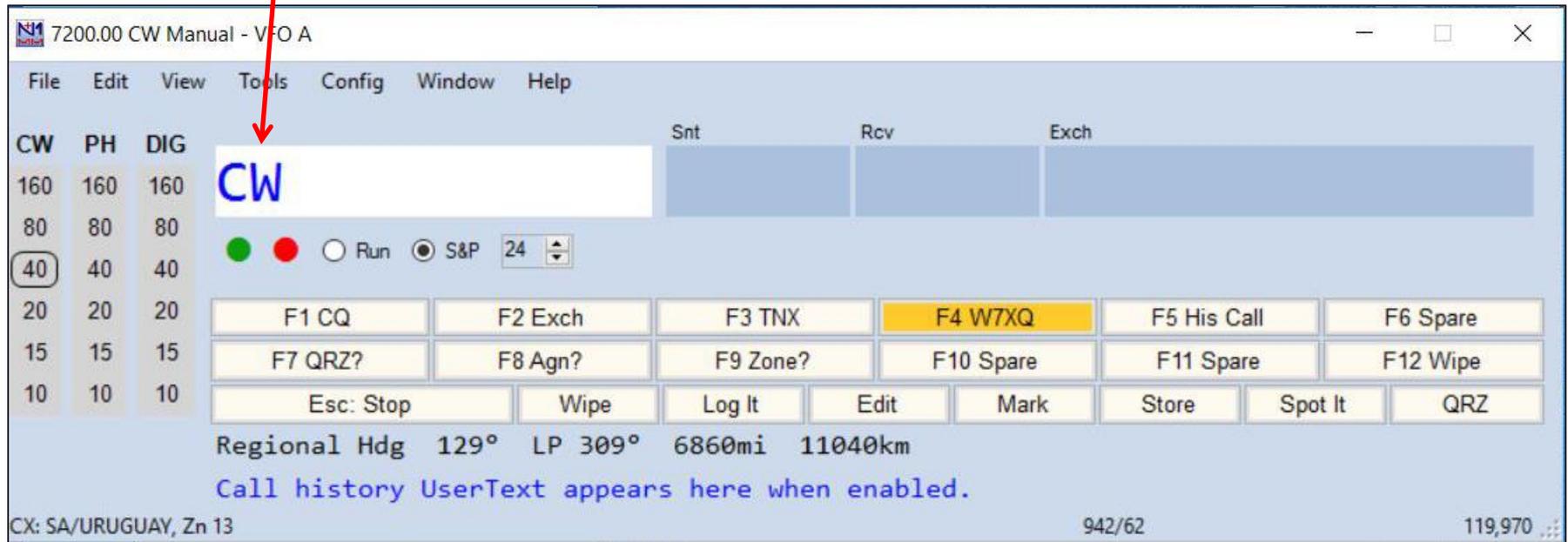
Displayed frequency confirmed here

Band



Changing Modes, manually.....

- Type desired mode into the log window!
- Possibilities: CW, USB, LSB, RTTY



The screenshot shows a software window titled "7200.00 CW Manual - VFO A". The interface includes a menu bar (File, Edit, View, Tools, Config, Window, Help) and a main display area. On the left, there is a vertical column of frequency and mode settings: CW, PH, and DIG, with values 160, 80, and 40 respectively. The "DIG" field is highlighted with a red circle. The main display area shows the mode "CW" in blue text. Below this, there are three radio buttons: a green one (selected), a red one, and a white one labeled "Run". To the right of these buttons is a dropdown menu showing "S&P" and the number "24". Below the buttons is a grid of function keys: F1 CQ, F2 Exch, F3 TNX, F4 W7XQ (highlighted in yellow), F5 His Call, F6 Spare, F7 QRZ?, F8 Agn?, F9 Zone?, F10 Spare, F11 Spare, F12 Wipe, Esc: Stop, Wipe, Log It, Edit, Mark, Store, Spot It, and QRZ. At the bottom, there is a status bar with the text "Regional Hdg 129° LP 309° 6860mi 11040km" and "Call history UserText appears here when enabled." The bottom left corner shows "CX: SA/URUGUAY, Zn 13", the bottom center shows "942/62", and the bottom right corner shows "119,970". A red arrow points from the text "Type desired mode into the log window!" to the "CW" text in the main display area.

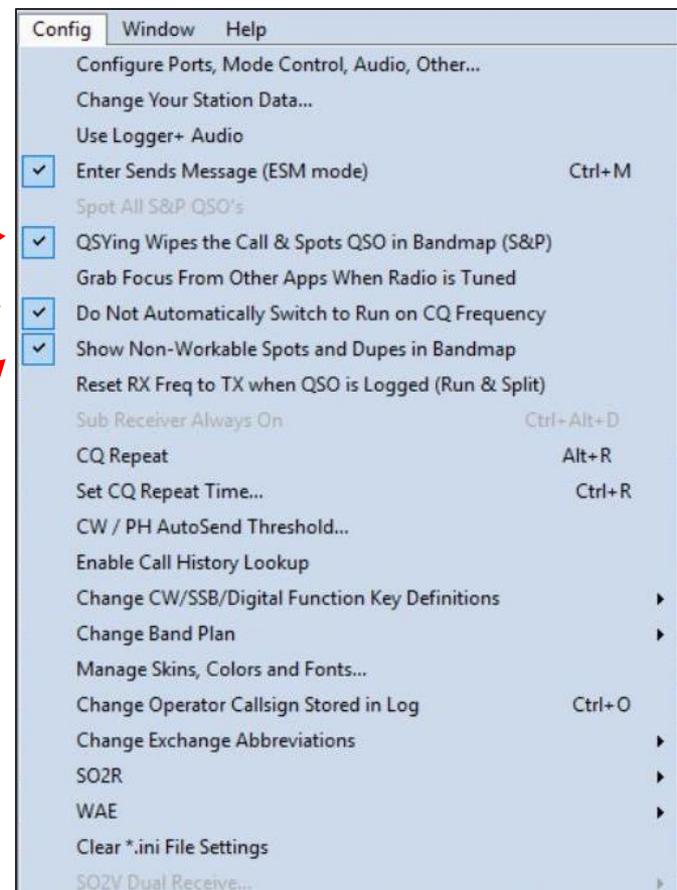
Recommended “Config” Options

- There are a couple of things you can click on Config page:

QSYing Wipes the Call and Spots QSO in Bandmap

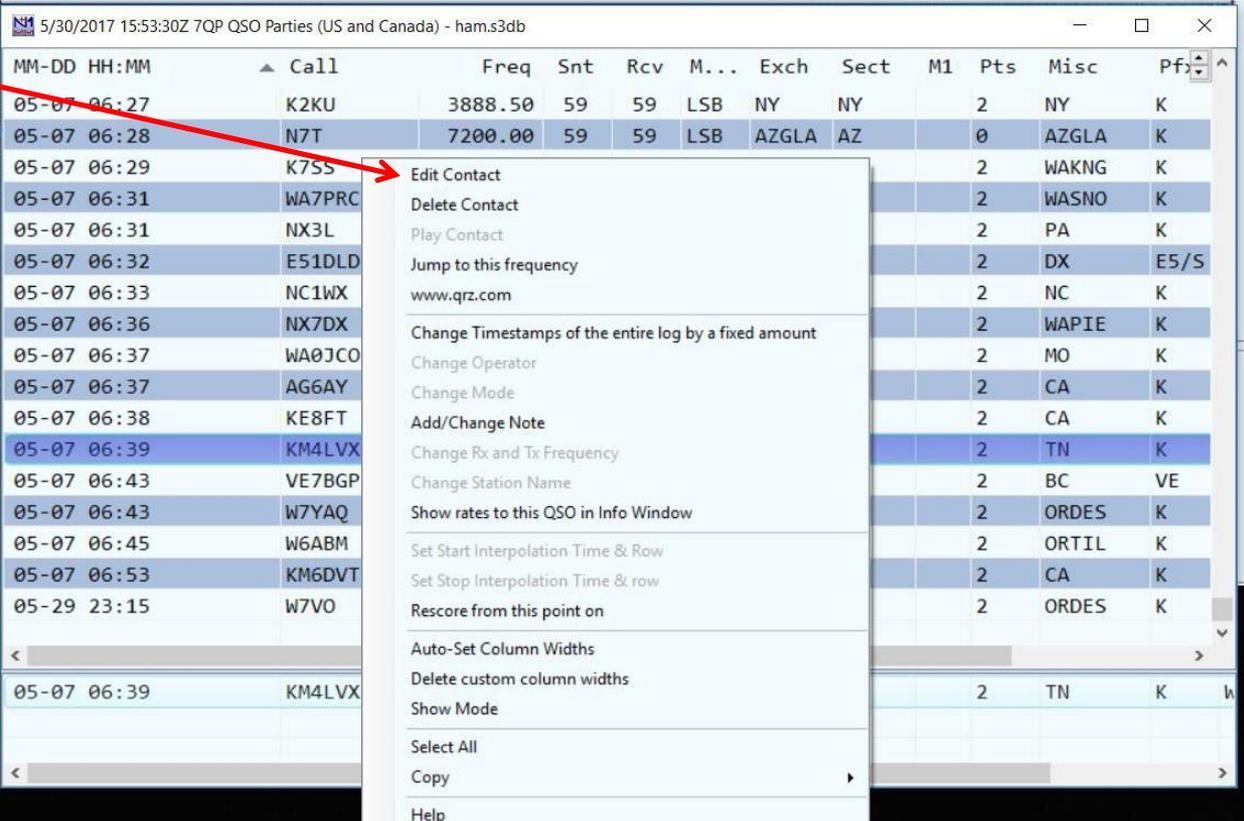
Do Not Automatically Switch to Run on CQ Frequency

Show non-workable Spots and Dupes in Bandmap



Editing a contact

- Right click on the suspect contact in the log. A menu appears, then click on “Edit Contact”



The screenshot shows a software window titled "5/30/2017 15:53:30Z 7QP QSO Parties (US and Canada) - ham.s3db". It displays a table of QSO logs with columns for time, call sign, frequency, and other details. A red arrow points to the row for call sign "KM4LVX" at 06:39. A context menu is open over this row, listing various actions such as "Edit Contact", "Delete Contact", and "Jump to this frequency".

MM-DD HH:MM	Call	Freq	Snt	Rcv	M...	Exch	Sect	M1	Pts	Misc	Pfx
05-07 06:27	K2KU	3888.50	59	59	LSB	NY	NY		2	NY	K
05-07 06:28	N7T	7200.00	59	59	LSB	AZGLA	AZ		0	AZGLA	K
05-07 06:29	K7SS								2	WAKNG	K
05-07 06:31	WA7PRC								2	WASNO	K
05-07 06:31	NX3L								2	PA	K
05-07 06:32	E51DL								2	DX	E5/S
05-07 06:33	NC1WX								2	NC	K
05-07 06:36	NX7DX								2	WAPIE	K
05-07 06:37	WA0JCO								2	MO	K
05-07 06:37	AG6AY								2	CA	K
05-07 06:38	KE8FT								2	CA	K
05-07 06:39	KM4LVX								2	TN	K
05-07 06:43	VE7BGP								2	BC	VE
05-07 06:43	W7YAQ								2	ORDES	K
05-07 06:45	W6ABM								2	ORTIL	K
05-07 06:53	KM6DVT								2	CA	K
05-29 23:15	W7VO								2	ORDES	K
05-07 06:39	KM4LVX								2	TN	K

Editing a contact

- Editing page appears, update and move on....

Run S&P

F1 S&P CO F2 Exch F3 Spare F4 W7XQ

F7 R... re

No Hea... ark

Call h... 94

:58Z 7QP QS

h Ser

NY

A AZ

IG WA

IO WA

PA

NC

E WA

MO

CA

CA

TN

VE7BGP 7200.00 59 59 LSB BC BC

W7YAQ 3888.50 59 59 LSB ORDES OR

W6ABM 3888.50 59 59 LSB ORTIL OR

KM4LVX 7200.00 59 59 LSB CA CA

Edit Contact

General Contact Information

Call Timestamp

Rx Tx Frequency

Mode Contest Name

RST Sent RST Received

Country Station Call

Name QTH

Comment

Contest Information

Nr Nr Sent Points Power

Zone Section Mut Band

Che Precedence Mut WPX

Exchange Run1/ Mut Radio

Grid Op Misc

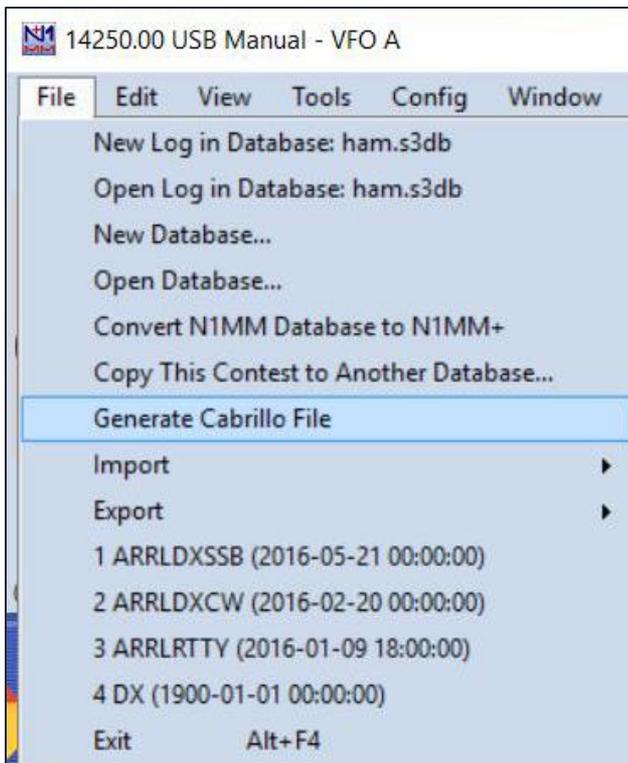
Rover QTH

Remember to hit the Update button!

When the contest is over.....



- Sit back and enjoy a cool one!
- Go to “File”, “Generate Cabrillo File” to create a Cabrillo file to send to contest organizers

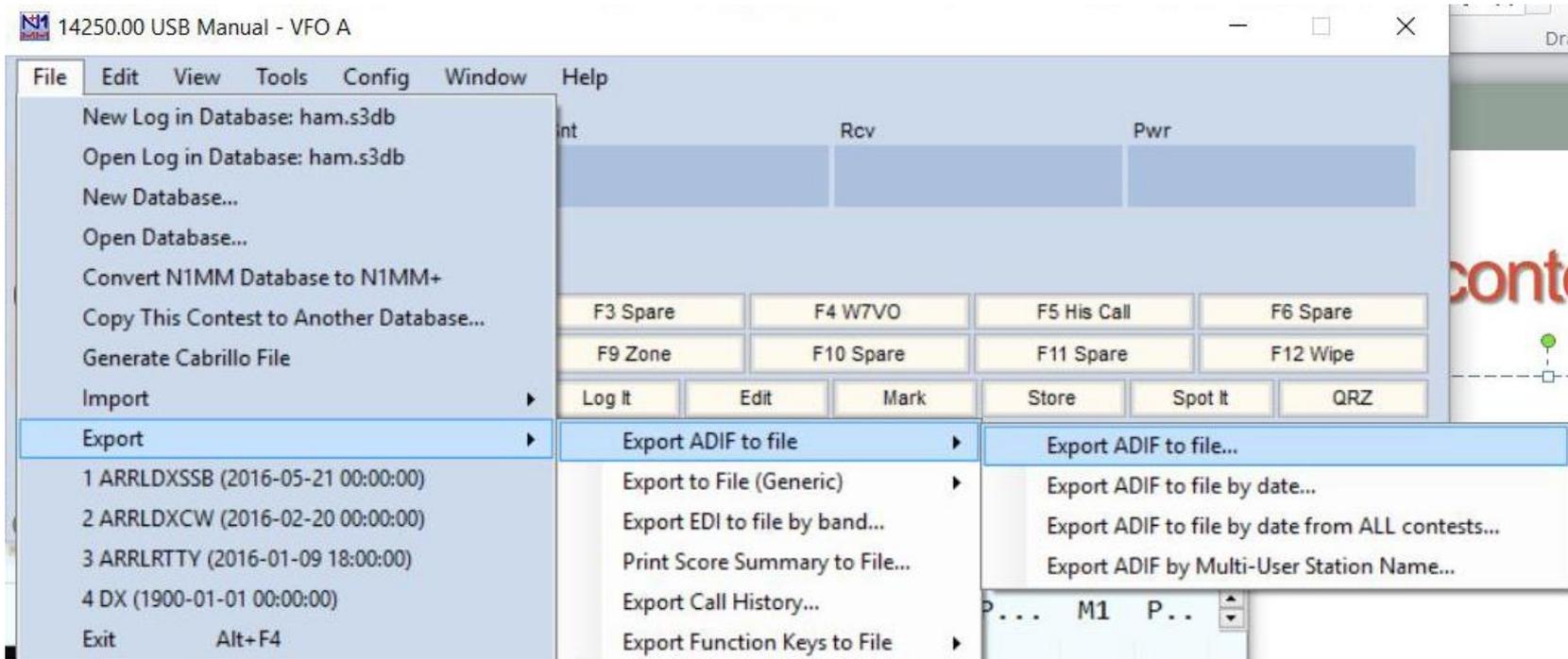


START-OF-LOG: 3.0
LOCATION: OR
CALLSIGN: W7XQ
CLUB: Willamette Valley DX Club
CONTEST: 7QP-QSO-PARTY
CATEGORY-OPERATOR: MULTI-OP
CATEGORY-BAND: ALL
CATEGORY-POWER: HIGH
CATEGORY-STATION: FIXED
CATEGORY-TRANSMITTER: ONE
CLAIMED-SCORE: 167454
OPERATORS: W7XQ W7VO W7VOX
NAME: Steve Gette
ADDRESS:
ADDRESS-CITY: Bend
ADDRESS-STATE-PROVINCE: OR
ADDRESS-POSTALCODE: 97703
ADDRESS-COUNTRY: UNITED STATES
CREATED-BY: N1MM Logger+ 1.0.5644.0

QSO: 7170 PH 2016-05-07 1313 W7XQ	59 ORDES N7MZW	59 WYLAR	0
QSO: 7170 PH 2016-05-07 1314 W7XQ	59 ORDES KB0PAT	59 NE	0
QSO: 7170 PH 2016-05-07 1315 W7XQ	59 ORDES K06RM	59 CO	0
QSO: 7170 PH 2016-05-07 1317 W7XQ	59 ORDES K7LWC	59 WAASO	0
QSO: 7170 PH 2016-05-07 1318 W7XQ	59 ORDES KN0JI	59 UTUTA	0
QSO: 7170 PH 2016-05-07 1319 W7XQ	59 ORDES AA7DK	59 AZCNO	0
QSO: 7170 PH 2016-05-07 1320 W7XQ	59 ORDES W5WSS	59 OK	0

When the contest is over.....

- Click on “Export”, “Export ADIF to file”, (twice) to generate .adf file for LoTW use



Is that all there is?

- **NO!** We have just scratched the surface of this powerful software. Come back for more in the next session.....
- More info? Read the N1MM+ manual
- **GET ON THE AIR!**



Willamette Valley



DX Club

www.wvdx.org