N1MMPlus Use for CMARA Field Day

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Briefing for CMARA Field Day Operators

Presented at the last CMARA Club Meeting Before Field Day

Field Day Rules:

http://www.arrl.org/files/file/Field-Day/2016/2016FD_packet.pdf

Field Day Training Video (K8UT)

http://n1mmplus.hamdocs.com/tiki-index.php?page=Video+-+N1MM+LoggerPlus+on+Field+Day#Video N1MM LoggerPlus on Field Day

TOPICS

- •N1MMplus Overview
- Software Installation
- •Hardware / Software Setup
- Database Setup
- Contest Log Setup
- •Band Setup
- QSO logging
- Log Consolidation and Submittal
- •User Support
- •Summary
- •Quick Sheet at Last Page of Presentation

N1MMplus Overview

- Totally FREE ! (no license fee)
- Runs on Windows XP, Vista, Win7, Win8 (32 or 64 bit) (no Win95 / Win98)
- Does NOT run on other operating systems (MAC, Linux)
- Nearly ALL Versions are compatible with one another (same file format) N1MMplus and N1MM database formats are NOT compatible N1MMplus can import N1MM databases, but NOT vice versa
- Supports almost EVERY contest
- Used by nearly ALL big-time contesters (and small timers)
- Actively Supported, User Groups
- Stand-Alone operation (no connection to radio required)
- Automatic Computer-Aided-Transceiver (CAT) control available
- CW Keyer with PTT (keyboard window CTRL-K)
- Voice Keyer with PTT (prerecorded phonetics & messages) Need Soundcard Interface
- Interface to MMTTY, MMVARI, FLDIGI, and other Soundcard Mode software
- Export to ADIF and Cabrillo Format, Import from ADIF

N1MMplus Network Block Diagram



CMARA Field Day WiFi Network



Software Installation – Full Install

- N1MM Logger + Website http://n1mm.hamdocs.com/tiki-index.php
- Select "Files"
- Download and Install "N1MMplus Full Install"
 - Install by clicking on the self-installing .exe file
 - This can also be found on the CMARA FD Thumb Drive
 - Install from home if possible to get Microsoft run time files needed
- Use the default directories for everything (unless...)
- After Installation
 - Right Click on N1MM+ ICON
 - Use Properties at the bottom
 - Use Compatibility Tab
 - Check: Run this program as an administrator
 - This will assure that the slave computers can have their date time clocks updated
- Full Install Only Needs to be Done ONCE!

Software Installation – Update Install

- N1MM Logger + Website http://n1mm.hamdocs.com/tiki-index.php
- Select "Files"
- Download and Install "N1MMplus Latest Update" use latest version
 - FD Chairman will provide the standard update to use at FD meeting or FD site
 - Install by clicking on the self-installing .exe file
 - This file is also on the CMARA FD Thumb Drive
- Use the default directories for everything (unless...)
- Read the manual!
 - There is plenty of documentation:
 - N1MMplus Logger Manual.pdf
 - N1MMplus Quick Start Guide.pdf
 - N1MMplus User Guide.pdf
 - N1MM References (crib sheets)
- Help Files (some are on the Internet, you will need a connection)

Contents of CMARA Field Day Thumb Drive

- Networking requires everyone to:
 - Use the SAME N1MMplus software version.
 - Use the SAME Country File (wl_cty.dat).
 - Start with the SAME FD Log Database (*.s3db) file.
- Copy the Data Files from the N1MMplus Latest Updates Directory:
 - Copy the N1MM Logger+ Directory
 - From N1MMplus Latest Updates
 - To the Documents Directory
 - For Win7 and Win8 This is: C:\Users\<USERNAME>\Documents\
 - For WinXP this is: C:\Documents and Settings\<USERNAME>\Documents\
 - Don't Worry:
 - Only New Files will be added
 - Only Old Files will be updated
 - Other Files will be undisturbed

Hardware / Software Setup (1)

- Set the Computer Local Time / Zone (Eastern Daylight Time)
 - Listen to WWV on 2.5, 5.0, 10.0, 15.0, 20.0 MHz or CHU on 3.330, 7.850, 14.670 MHz
 - Extremely Important to DO !!!, Otherwise Log Data Will Be Garbage, NO WAY to FIX!
 - The N1MMplus Logger will override this when your station is connected to the network.
 - Set the time anyway in case we have a problem with networking.

• Start N1MMplus as Administrator !

- Right Click on N1MM+ ICON and Select Run As Administrator
- Otherwise MASTER cannot set SLAVE Station Date/Time
- If the **properties** of the ICON are set to Run As Administrator, this is not necessary:
 - Right Click on ICON
 - Use Properties at bottom
 - Use Compatibility Tab
 - Check: Run this program as administrator
- Station Data will Already be Set in Common FD Log
- Configure CAT Control
- Open Necessary N1MMplus Windows
- Enable Networking

Hardware / Software Setup (2) Set Computer Clock

- Click on Desktop Clock (lower right of desktop)
- Set the Date (local time)
- Set the Time (local time)
- Set the Time Zone (eastern daylight time)
- Internet Time Will Not Work (no internet)
- With N1MMplus, Master will set time for SLAVES

Hardware / Software Setup (3)

WinXP

Set Computer Clock





Win8





Win10



N1MMplus QSO Entry Form

When you start N1MMplus, the Main Window opens. Close ALL other N1MMplus windows (for now). Select the File Menu Item to Open the FD Log. Use MOUSE to select field.

Use TAB or SPACEBAR to move to next field.

11 71	38.68	LSB TS-2000			-		×				
<u>F</u> ile	<u>E</u> di	t <u>V</u> iew Tool	s <u>C</u> onfig W	i <u>n</u> dow Help							
CW	DH			Class	s	ection	1				
160	160										
80	80	<u> </u>									
40	(40)	🔴 🔴 🔘 F	lun 💿 S&P								
20	20		()	()							
15	15	F1 S&P CQ	F2 Exch	F3 Spare	F4 W1IR	F5 His Call	F6 W1IR				
10	10	F7 Rpt Exch	F8 Agn?	F9 Zone	F10 Spare	F11 Spare	F12 Wipe				
		Esc: Stop	Wipe	Log It E	dit <u>M</u> ark	Store Sp	ot It QRZ				
		Heading ap	pears here	when enat	oled.						
	Call history UserText appears here when enabled.										
0 spo	ts load	ed after filtering.				8	20 .;;				

Open Database Select: Open Database

Ľ	713	88.68 LSE	3 TS-200	00								<u> </u>				
	<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	Tools	<u>C</u> onfig	Wi <u>n</u> dow	Help								_	
		New Lo	g in Dat	abase: Fie	ldDayTest	.s3db										
		Open L	og in Da	tabase: Fi	eldDayTes	t.s3db										
1		New Da	tabase													
	- (<u>O</u> pen D	atabase													
		Conver	t N1MM	Database	e to N1MM	+										
		Copy T	his Cont	est to An	other Data	base										
		Generat	te Cabril	lo File												
Ľ		Import														۶.
		Export														۶.
		<u>1</u> FD (20)15-04-1	8 18:00:00))											
(2 DX (19	900-01-0	1 00:00:00))											
		<u>3</u> ARRLI	DXCW (2	2015-02-2	1 00:00:00)	in C:\Users\	TGlagows	ki\Document	ts\N1MM Lo	gger+\Data	bases\2014 /	ARRL DX	CW W1TR.	.s3db		
		4 DX (19	900-01-0	1 00:00:00	0) in C:\Use	ers\TGlagow	ski\Docun	nents\N1MM	I Logger+\Da	atabases\20	14 ARRL DX	CW W1T	R.s3db			
		<u>5</u> DX (20	015-02-0	7 00:00:00	0) in C:\Use	ers\TGlagow	ski\Docun	nents\N1MM	I Logger+\Da	atabases\Ge	eneral Loggir	ng.s3db				
		6 ARRL	VHFJAN	(2015-01-	-24 18:00:0	0) in C:\User	s\TGlagow	/ski\Docume	nts\N1MM L	.ogger+\Da	tabases\2014	ARRL VI	HF Jan W1	TR.s3db		
		<u>7</u> DX (19	900-01-0	1 00:00:00	0) in C:\Use	ers\TGlagow	ski\Docun	nents\N1MM	I Logger+\Da	atabases\Ge	eneral Loggir	ng.s3db				
		8 ARRLI	RTTY (20)15-01-03	18:00:00) i	n C:\Users\T	Glagowski	\Documents	N1MM Log	lger+\Datab	ases\2014 A	RRL RTT	(Roundup	W1TR.s	s3db	
		<u>9</u> DX (19	900-01-0	1 00:00:00	0) in C:\Use	ers\TGlagow	ski\Docun	nents\N1MM	Logger+\Da	atabases\20	14 ARRL RTT	'Y Round	up W1TR.s	s3db		
		Exit	A	lt+F4												

Select Log



Log Database Is In a Standard Place

- Log Database Folder Name
 C:\Users\<USERNAME>\Documents\N1MM Logger+\Databases
- Log Database File Name 2016 ARRL FD W1BIM.s3db
- How to Determine <USERNAME> (next slide)
- The MASTER computer in the N1MM network will have the ENTIRE log at end of contest
- So will all the SLAVE computers !

How To Determine <USERNAME>

Open Command Prompt Window

from Start Button

• Type SET command





Use SET to Get Environmental Parameters



Open Log in Database

2015 CMARA Field Da	ay.s3db	×
Select Existing Log Contest Sta	ut Date	
DX 1900 DELETEDQS 1900	0-01-01 00:00:00	
Contest Associated	d Files W1TR will set ALL station information DO NOT CHANGE	
Operator Band	MULTI-OP ALL Note - the program does not validate S contacts State for Log Type QSOPARTY	
Power Mode	LOW Categories. Check the contest rules for valid categories.	
Station	N/A SSISTED Time Category N/A	
Transmitter	UNLIMITED This may change by FD	
Operators	W1TR Omit RST. E.g. CQWW: 05 SS: A 56 EMA Log	
Soapbox	CMARA Test Log W1TR will take care of this	
	OK Help Cancel	

CAT Control Setup (1)



CAT Control Setup(2)

M Configu	rer									×
		R	adio 1	Гуре						
Hardware	Function Keys	Digital Moder	Other	Winkey	Mode Control	Ante	nnas	Score Reporting	Audio	
Doct	CAT Port		Vici CV	WOther	Dotaila				0.0001	0.0000
COME	TE 200			nvouner 1			57000	• S01V	© \$02V	© SO2R
COMO	▼ 13-200	•		7	Set		57600,		/s Un,RTS=Alwa	ys On, IX=1
COM7	None			7	Set		DTR=C	W,RT5=PT1,TX=1		
COMO		×		7	Set		57000		- 0- PTO 41	
COMS	▼ 15-200	•		7	Set		57600,	N,8,2,DTR=Alway	/s On,RTS=Alwa	ys On, Ix=2
COM4	None	T		7	Set		DTR=C	W,RTS=PTT,TX=2		
None	None	T		7	Set					
None	None	T		7	Set					
None	CW / DTT	Port		1	Set					
1.072	CVV/PII	Port		1	Set					
•I PT3		N1V		7	Set					
Lino			T		Set					
•	Setup	Radio	тур	e						
•	Setup	CAT P	ort							
•	Setup	CW/P	TT F	Port	(optio	na	lif	comput	ter CW	
	Sot Do	tails f	or C		Ort					
	Set De									
•	Set De	etails fo	or C	W/F	PTT Po	rt				
		ок		Cancel				<u>H</u> elp		
										.d

Details for CAT Port

- Set Speed (Baud Rate) for YOUR Radio
- For some radios (ICOM) you may need to set HEX address
 - On Radio
 - On N1MM

М Сотб			×						
Speed	Parity	DataBits	Stop Bits						
57600 👻	N -	8 🔻	2 🔻						
DTR (pin 4)	RTS (pin 7)		Radio Nr						
Always On 🔻	Always On 👻		[1 ▼]						
Allow ext inter	Left Window Enable Both Hardware & Software PTT via Radio Command Digital Mode PTT via Radio Command SSB Mode PTT via Radio Command CW Mode FootSwitch (pin 6)								
Radio Polling Rate Normal Suggested TS-2000 Kenwood Settings: 38400, N, 8, 2, Handshake, Handshake									
Help		ОК	Cancel						

Details for CW/PTT Port

- Set DTR = CW
- Set RTS = PTT

M Com7	×
DTR (pin 4) RTS (pin 7) CW PTT PTT Play (msee) 100 Allow ext interrupts WinKey Two Radio Protocol FootSwitch (pin 6) None None	Radio Nr 1 Left Window
Help	OK Cancel

Activate N1MMplus Windows

All Stations Use

- Entry Window (Default Window, already set up)
- Network Status to enable networking and know what other stations are doing
- Log Window to see what has been logged
- Optional Windows
 - Info shows QSO rate
 - Score Summary shows score by band and mode
 - Check determine if there might be callsign typos
- CW Stations Use CW Key for Keyboard Transmissions (CTRL+K)
- Digital Stations Use Digital Interface



Entry Window

This window shows current QSO information

Callsign, Class, Section (these vary with contest type) Title Bar at Top of Window shows Frequency and Radio Type. Indicator for current band and mode Indicator for Run / S&P Function Keys for use with Mouse, legend key for using F-Keys on Keyboard Call History when Available Azimuth Heading when Available Use MOUSE to select field. Use TAB or SPACEBAR to move to next field.

76	530.50 l	JSB TS-2000			~		
<u>F</u> ile	<u>E</u> dit	t <u>V</u> iew Tool	s <u>C</u> onfig W	'i <u>n</u> dow Help			
cw	PH			Class	s	Section	1
160	160						
80	80	I					
40	40	🔴 🌒 🔘 F	lun 🖲 S&P				
20	20						
15	15	F1 S&P CQ	F2 Exch	F3 Spare	F4 W1TR	F5 His Call	F6 W1TR
10	10	F7 Rpt Exch	F8 Agn?	F9 Zone	F10 Spare	F11 Spare	F12 Wipe
		Esc: Stop	<u>W</u> ipe	Log It E	idit <u>M</u> ark	St <u>o</u> re Sp	ot It QRZ
		Heading ap	opears here	e when ena	bled.		
		Call histo	ory UserTex	kt appears	here when	enabled.	
Settin	ng up ra	dios_bandmaps				8	20 .;;

Network Status Window (1)

The Stations Tab shows computers currently on the network

Computer Name, IP, Pass Freq, Run/S&P, QSO Stats, Freq, Op, Msg, Send, Recv, Master

If the Network Status Window Looks Like This, Click on the Orange Button to Start Networking. Do NOT check MASTER, your station is a SLAVE!

N	Network Status W1TR 192	2.168.9.244 (((*)))										
1	Stations Resynchronize	Rescore Options Actions	Messages									
	Computer	IP Address	Pass	Run	10	100	Freq Op	Msg	Send	Receive	Master	*
			Ne	tworke Clio	d Cor ck he	nputer M re to tu	ode is off urn on					

After Networking is Started, it will look like this If the Messages Tab is Red, it contains warning / error messages.

N	etwork Status W1TR	192.168.9.244 - 2 Station	s in network		100	1	1.11	-	-	_			×
	Stations Resynchroni	ize Rescore Options A	ctions Message	es (92									1
	Computer	IP Address	Pass	Run	10	100	Freq	Ор	Msg	Send	Re	Master	-
	TERRYTDY	192.168.9.108	1420	S&P	0	0	14200.00	W1TR		Ok	0k		
	W1TR	192.168.9.244	0.00	S&P	0	0	3893.98	W1TR		Ok	0k		

Network Status Window (2)

If the Network Status Window / Messages Tab contains this message, Some computer on the network has the wrong Country File. It must be installed before contest.

Network Status W1TR 192.168.9.244 - 2 Stations in network		8
Stations Resynchronize Rescore Options Actions Messages		
each computer. Scores may not match if this is not done.		*
03:38 wl_cty.dat version for this station is TN, the version for TERRYTDY is 3Y/B make sure the current wl_cty.dat is load	ded on	
each computer. Scores may not match if this is not done.		
03:38 wl_cty.dat version for this station is TN, the version for TERRYTDY is 3Y/B make sure the current wl_cty.dat is load	ded on	
each computer. Scores may not match if this is not done.		
03:38 wl_cty.dat version for this station is TN, the version for TERRYTDY is 3Y/B make sure the current wl_cty.dat is load	ded on	
each computer. Scores may not match if this is not done.		
		-

Network Status Window (3)

If a computer has the wrong Country File The following message will display on its screen.

Exit N1MMplus and install the Country File in the N1MMplus Support Files Directory After the Country File is updated And N1MMplus is restarted... Another message asking to import the country file will appear Reply YES to this message.

Network Status Window (4)

This window shows computers currently on the network

Computer Name, IP, Pass Freq, Run/S&P, QSO Stats, Freq, Op, Msg, Send, Recv, Master

N	letwork Status V	V1TR 192.1	58.9.244 - 1 Stations in n	etwork										E
	Stations Resynchronize Rescore Options Actions Messages													
Ī	Computer		IP Address	Pass	Run	10	100	Freq	Ор	Msg	Send	Receive	Master	-
	W1TR		192.168.9.244	0.00	S&P	60	60	7630.50	W1TR		0k	Ok		
			Normally the	re would l	be oth	er con	nputei	s listed w	/hen ne	twork	is fully	populate	ed	

Network Status W1TR 192.168.9.244 - 1 Stations in	n network Options Should Be Set as Shown	-
Stations Resynchronize Rescore Options Actio	ons Messages	
Run 1 Run 2/Mult Don't automatically Log QSOs at all Stations Wipe callsign when Don't work non-mults Trace Networked (ly change to S&P mode Force ALL other stations to stop transmitting when I transmit an logged by stack target Block my Tx only if other station transmitting on same band and mode (multi-one) I Computer Messages	

Network Status W1TR 192.168.9.244 - 1 Stations in network Use This to Sen	d Text Messages to Other Computers
Stations Resynchronize Rescore Options Actions Messages	
Talk (Ctl-E) Stop Networking Force Time Sync Reset Serial Numbers at all Station Set Your Pass Frequency Edit Computer Addresses	ns

Network Status W1TR 192.168.9.244 - 1 Stations in n	etwork	Use This to View Messages
Stations Resynchronize Rescore Options Actions	Messages	

Talk Window This Window Allows Chat with Other Stations Use CTRL-E to Activate Talk Window

Upper Window Displays Received Messages

Time of Day GMT/UTC (15:38z) Sending Computer in Braces [W1TR] Destination Station (*) Message Text

Lower Window Displays Sent Messages

Destination * for all or Computer Name Message Text

Log Window

This window shows stations CMARA has worked Date, Time, Call, Frequency, Mode, Section, Points, Computer, Operator. Title Bar at Top of Window shows Date/Time, Contest Name, Database Name.

2015-06-07 00:03:11Z Field Day	2015 CMARA Field	Day.s3db						
DD-MM HH:MM	Call	Freq	Μ	Ε	Sect	Pts	Computer	Op 🗦
16-04 20:58	W1XX	7145.01	LSB	1A	RI	1	W1TR	W1TR
16-04 20:59	W6YY	14160.00	USB	2A	SDG	1	TERRYTRAVEL	W1TR
16-04 21:00	W9YY	28400.00	USB	2A	IL	1	TERRYTDY	W1TR
17-04 00:05	W3OM	50130.00	USB	1B	EPA	1	TERRYTRAVEL	W1TR
17-04 00:56	W4IY	7066.00	CW	4A	VA	2	TERRYTRAVEL	W1TR
17-04 00:56	W9IOP	28400.00	USB	2A	IL	1	TERRYTDY	WA1ALZ
17-04 01:01	W1AW	7066.00	CW	4F	СТ	2	TERRYTRAVEL	W1TR
17-04 01:12	W6IOP	28400.00	USB	1A	SCV	1	TERRYTDY	WA1ALZ
				1		1		

Info Window

This window shows QSO rate statistics versus goals.

10 – rate for last 10 QSOs

100 – rate for last 100 QSOs

60m – rate for last 60 minutes

40m - rate for last 40 minutes

Score Summary Window

This Window Shows Current Score by Band and Mode, and Total

Score - 2	20 Points				
Band 14 28 50 Total Score 1 Mult	Mode 7 CW 7 LSB 4 USB 8 USB 9 USB 1 Both 20 5 = 1.0	Q50s 2 1 3 8 Q's	Pts 4 1 3 1 10		

Check Window

This Window Shows Partial Matches of Callsign in QSO Entry Window with Log, Master Callsign Database, Telnet Window, Call History File. Use to check for TYPOs or mis-copied callsigns.

CW Transmit Window

Use this Window to send CW Messages not Preset in Macros. Particularly Useful if NO Paddle or Key is Connected to Radio. ENTER Key Ends Transmission and Closes Window. Window must be closed before other actions can be taken.

Band Map Window

This Window Shows Spots from

- 1. Self
- 2. Others
- 3. Packet Cluster

Station Callsigns will be Shown Next to Frequency. Click on Callsign to Move VFO to Frequency Note: we are NOT using Packet Cluster!

Multiplier Window Selection

Select an Appropriate Multiplier Window.

Field Day uses Sections.

However, Sections are NOT a Field Day Contest Score Multiplier. Use for Information ONLY.

763	0.50 (USB TS-2000	n - 2		
<u>F</u> ile	<u>E</u> di	t <u>V</u> iew Tools <u>C</u> onfig	Wi <u>n</u> dow	Help	
			Avai	able Mult's & Q's	Section
CW	PH		<u>B</u> and	lmap	
160	160		Chec	:k	
80	80	🔴 🔴 🔿 Run 🍳 S&P	CWI	Key Ctrl+K	
40 (40	• • • • • • • • • • • •	CWI	Reader	
15	15	F1 S&P CQ F2 Exch	Digit	al Interface	F5 His Call F6 W1TR
10	10	F7 Rpt Exch F8 Agn?	Entry	Window	F11 Spare F12 Wipe
	10	Esc: Stop	o Gray	Line	Store Spot It QRZ
		Heading appears h	e Info		
		Call history User	- <u>L</u> og	Ctrl+L	enabled.
Pass Fr	equer	ncy = 0	Mult	ipliers 🕨 🕨	Countries 20:
			Netw	vork Status	Grid Squares
			Score	e Summary	Grid Square Map
			Teln	et	Sections/States
			Visib	le Dupesheet	Zones
					Counties/Other

Multiplier Window This Window Shows Sections Worked versus Band and Mode

Modes: CW, PH, RTTY, PSK Worked Expected

States/Sections - 7 mults worked of 2656 possible

Note: Window is Very Wide, Window Segments are shown!

Visible Dupe Sheet

This window is useful for very quickly checking for DUPES without typing.

It is organized by call suffix within call number zone.

If there is room, each call number zone has its own column.

If there are too many calls in a zone, the column will overflow to the next column.

Dupe	esheet	- TS	-2000	50 M	Hz					1						
AB1 W1 N1 K1 W1 W1 W1 K1 K1 K1 K1 K1 K1 K1 K1 K1 K1 K1 K1	A AN API EEE EN EQ FJ GQR HY IED IIG JJA KA KG LI OUN QK R	NT2 W2 WB2 W2 W2 W2 W2 W2 W2 W2 W2 W2 W2 W2 W2 W2	A DAN JAY NT SZ UJS YC YKB RGA SX TEO TOL UJ VI VIG WBB WHS X XX Z	W3 W3 K3 KM3	CCX EP FGO T	NP4 N4	A BP	К5	AND			К9	LAS	WA0	KWI	-

Telnet Window

This Window Shows Spots from Internet DX Clusters We do NOT Plan to Use DX Clusters for Spotting / Assisted Mode

M	Teln	et						-		X
Ту	pe:							Reconnect		-
K	TTT	Clusters	ands/Modes F	Filters	Spot Comn	nent Ba	andPlans			
D	(de	W4WNT:	50115.0	NP4/	4	FM03<	>FK68	2	344Z	
D	(de	W1UJ-6:	50100.0	WX40	5			2	344Z	
D	(de	W2YC:	50093.9	N2NI	L	EL97		2	345Z	
D)	(de	PA3KC:	7152.0	VP2N	1KV	tnx 4	contact	2	345Z	
D	(de	N5RP:	50127.6	K5AM	1	USB		2	328Z	
D)	(de	PY7XAF:	7152.0	VP2N	1KV	CQing	DX. very strop	ng signal 2	345Z	
D	(de	VE3SD:	144210.0	VE3F	RB	FN04	-	2	345Z	
D	(de	VE3KGC/:	144208.0	VE3	(GC/R	FN14x	v ssb, fm and f	fm packet 2	328Z	
D	(de	NWØW:	50084.9	WAØ	CWI			2	345Z	
										-
l'a										
		BYE	<u>C</u> ONN		DI/N		<u>S</u> H/DX	USERS	<u>w</u> w	V I
	C	lear NE	Yes DX		NE ont	у	No DX	No VHF	W11	rr

Grey Line Window

This Window Shows

- 1. The Grey Line between Day Time and Night Time
- 2. Spots from Internet DX Clusters by Location
- We do NOT Plan to Use DX Clusters for Spotting / Assisted Mode

A Setup Menu Provides a Choice of What to Display

Station Setup

This Year, CMARA is using CAT Control $\ensuremath{\textcircled{\odot}}$

So THIS should NOT Be Necessary, But Just In Case! ☺ Use the N1MMplus QSO Entry Form to set Frequency and Mode if CAT Control is NOT Used

• Very Important to Set These Items <u>Cannot be Fixed Later</u>

- Date Time on Computer Clock (Network will Override)
- Start N1MM+ as Administrator
- Frequency / Band Type into Callsign Field (CAT CTRL will Override)
- Mode Type into Callsign Field (CAT CTRL will Override)
- Operator CTRL-O

Log Manager will Install Latest Updates and Verify

- Set Date / Time on Computer (Network will Override)
- Start N1MM+ as Administrator (set ICON properties)
- Set Frequency (CAT Control will Override) Type Frequency in <u>KHz</u> (e.g. 3550 or 21350) into callsign field
- Set Mode (CAT Control will Override) Type Mode (e.g. CW, USB, LSB, AM, FM, RTTY, PSK31) into callsign field
- Use CTRL-O to Sign In as Operator

to accurately record who the operator was for contacts.

Frequency Setup

18	32.00 (CW TS-2000					
<u>F</u> ile	<u>E</u> dit	t <u>V</u> iew Tools	<u>C</u> onfig W	i <u>n</u> dow Help			
cw	PH	[Class	S	ection	1
(160)	160	3825					
80	80						
40	40	🔵 🛑 🔘 Run	S&P 24	•			
20	20	E1.0-12	E2 Eyeb	E2 Tu	E4 WATD		E6 Depent
15	15		FZ EXCII				
10	10	F7 Empty	F8 Agn?	F9 Nr?	F10 Call?	F11 Empty	F12 Wipe
		Esc: Stop	Wipe	Log It E	dit <u>M</u> ark	Store Spo	ot It QRZ
		C-11 - - -					
		Call histor	y Userlex	t appears	here when	enabled.	
						8	20 .;;

To Set or Change Frequency:

type the Frequency in KHz in the Callsign Field (left).

Use a typical Phone or CW Frequency if NOT CAT Controlled, N1MMplus only needs to know the Band.

NO NEED to CHANGE it as you tune up and down the band. Note: the Title Bar of the Main Window will reflect the change

38	25.00 (CW TS-2000					_ _ X
<u>F</u> ile	<u>E</u> dit	t <u>V</u> iew Tool	ls <u>C</u> onfig W	/i <u>n</u> dow Help			
cw	РН			Class	S	ection	
160	160						
80	80	1					
40	40	🔴 🔴 🔘 F	Run 💿 S&P 24	4 🌲			
20	20	F1 Qrl?	F2 Exch	F3 Tu	F4 W1TR	F5 His Call	F6 Repeat
15	15	F7 Empty	F8 Agn?	F9 Nr?	F10 Call?	F11 Empty	F12 Wipe
10	10	Esc: Stop	Wipe	Log It E	dit <u>M</u> ark	Store Sp	ot It QRZ
		Call histo	ory UserTe	xt appears	here when	enabled.	
						8	20 .;;

Mode Setup

N	1 38	25.00	CW TS-2000					_ _ X		
	<u>F</u> ile	<u>E</u> di	it <u>V</u> iew Tool	s <u>C</u> onfig W	i <u>n</u> dow Help					
	w	РН			Class	:	Section]		
1	60	160	LSB							
	80)	80				-				
•	40	40	🔵 🛑 🔘 R	tun 💿 S&P 24	- -					
	20	20	F1 Qrl?	F2 Exch	F3 Tu	F4 W1TR	F5 His Call	F6 Repeat		
	15	15	F7 Empty	F8 Agn?	F9 Nr?	F10 Call?	F11 Empty	F12 Wipe		
	10	10	Esc: Stop	<u>W</u> ipe	Log It E	dit <u>M</u> ark	Store Sp	ot It QRZ		
	Hdg 175° LP 355° 5317mi 8557km									
	Call history UserText appears here when enabled.									
L	U: SA	4/ARG	ENTINA, Zn 13				8	20 🤢		

To Set or Change Mode:

Type the Mode (CW, USB, LSB, AM, FM, RTTY, PSK31) into the Callsign Field (left) if NOT CAT controlled.

Note: the Title Bar of the Main Window will reflect the change

1	3825	.60 L	SB TS-2000					_ _ x
E	ile	<u>E</u> dit	t <u>V</u> iew Tool	s <u>C</u> onfig Wi	<u>n</u> dow Help			
СМ	/ Р	н			Class	S	ection	1
160) 1(60						
80	(8	0	L			_		
40	4	0	🔴 🔴 🔘 R	un 💿 S&P				
20	2	0	F1 S&P CQ	F2 Exch	F3 Spare	F4 W1TR	F5 His Call	F6 W1TR
15	1	5	E7 Rot Exch	E8 Ann?	F9 Zone	E10 Spare	F11 Spare	F12 Wine
10	1	0	Francisco Chara					- 12 mpc
			ESC: Stop			uil <u>M</u> ark		
			Call histo	ory UserTex	t appears	here when	enabled.	
							8	20 .::

Operator Setup

825.60	LSB TS-200	00	-	
e Eo	dit View	Tools	Config	
PH				
160				_
ത				Ŀ
40	• •	🔘 Rur	n 💿 S&P	
20				•
20	F1 S&P	CQ	F2 Exch	٦,
15	E7 Rot F	ych	E8 Ann?	L
10			Torigin.	
_	Esc	:: Stop	Wip	
				ŀ
	Call H	nistor	y User	
	325.60 PH 160 80 40 20 15 10	225.60 LSB TS-200 Edit View PH 160 80 40 20 15 10 F1 S&P F7 Rpt E Esc Call F	225.60 LSB TS-2000 Edit View Tools PH 160 80 40 0 F1 S&P CQ 15 10 F7 Rpt Exch Esc: Stop Call histor	25.60 LSB TS-2000 Edit View Tools Config PH 160 80 40 40 Call history User

			Configure Ports, Mode Control, Audio, Other		
			Change Your Station Data		
			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 Tun	ed	
	~		Do Not Automatically Switch to Run on CQ Freq	uency	
۱	~		Show Non-Workable Spots and Dupes in Bandm	ар	
?			Reset RX Freq to TX when QSO is Logged (Run &	Split)	
(ip			Sub Receiver Always On		
	~		CQ Repeat	Alt+R	
r			Set CQ Repeat Time	Ctrl+R	
			CW / PH AutoSend Threshold		
			Enable Call History Lookup		
			Change CW/SSB/Digital Function Key Definition	s 🕨	
			Change Band Plan	•	
			Manage Skins, Colors and Fonts		
		C	Change Operator Callsign Stored in Log	Ctrl+O	
			Change Exchange Abbreviations	•	
			SO2R	+	
			WAE	+	
			Clear *.ini File Settings		
			SO2V Dual Receive	Þ	

Use PERSONAL CALLSIGN here Use **OFF** if leaving operating position

QSO Logging

• Enter

- Callsign
- Class
- Section
- New in 2012 Ontario is no longer ON ARRL made 4 sections out of Ontario (ON): ONE – Ontario East ONN – Ontario North ONS – Ontario South GTA - Greater Toronto Area (West)

• Dupes will be Indicated

71	138.68	LSB TS-2000					
<u>F</u> ile	<u>E</u> d	it <u>V</u> iew Too	ols <u>C</u> onfig	Wi <u>n</u> dow Hel	р		
cw	PH	·		Class		Section	1
160	160	W1XX	•	\checkmark			
80	80	Į					
40	(40)	I I I I I I I I I I I I I I I I I I I	Run 💿 S&P	Dupe			
20	20	F4 C8D CO	E2 Euch	52 Carra			
15	15	FISAPCU	F2 EXCN	r 3 Spare	F4 WIBIM	F5 HIS Call	
10	10	F7 Rpt Exch	F8 Agn?	F9 Zone	F10 Spare	F11 Spare	F12 Wipe
	10	Esc: Stop	Wipe	Log It E	dit <u>M</u> ark	Store Sp	ot It QRZ
		Hdg 87° L	P 267° 31	mi 50km			
		Call hist	ory UserT	ext appea	rs here w	when enable	ed.
K: NA		ED STATES, Zn 5				9	22 .::
		the second s					

QSO Entry Form

- Callsign Field = Prefix + Number + Suffix, e.g. W3AO
- Class Field = Number of Stations + Class, e.g. 23A
- Section Field = USA Section, CANADA Province, or DX, e.g. **EPA**

Classes

- A Club or Non-Club Portable Operation
- B One or two person portable
- C Mobile
- D Home Station
- E Home Station, Emergency Power
- F Official Emergency Operation Stations (EOC)

ARRL / RAC Sections

see http://www.arrl.org/contest-sections-list

V Whis	V1E key (BIM Dne E	6A Bravo	EM India	A a Mik	е	ME SS Pa	ESH N SID: CI ISSWO	etwork MARA rd: field	for 20 dday	16
W1 CT EMA WMA ME NH RI VT	W2 NNJ SNJ ENY NNY WNY NLI	W3 DE MDC EPA WPA	W4 AL NFL SFL WCF GA KY NC SC TN SC TN VA PR VI	W5 AR LA MS NM OK NTX STX WTX	W6 EB ORG SB SCV SDG SF SJV SV PAC	W7 AK AZ ID MT NV OR UT EWA WVA WVA	W8 MI OH WV	W9 IL IN WI	W0 CO IA KS MN MO NE ND SD	VE AB BC MAR MB ONN ONS ONE GTA QC SK NT	Other DX

Log Window

2015-06-07 02:13:37	Z Field Day - 2015 CMARA Field	d Day.s3db						
DD-MM HH:MM	🔺 Call	Freq	М	Ε	Sect	Pts	Computer	Op 🚊
16-04 20:58	W1XX	7145.01	LSB	1A	RI	1	W1TR	W1TR
16-04 20:59	W6YY	14160.00	USB	2A	SDG	1	TERRYTRAVEL	W1TR
16-04 21:00	W9YY	28400.00	USB	2A	IL	1	TERRYTDY	W1TR
17-04 00:05	W3OM	50130.00	USB	1B	EPA	1	TERRYTRAVEL	W1TR
17-04 00:56	W4IY	7066.00	CW	4A	VA	2	TERRYTRAVEL	W1TR
17-04 00:56	W9IOP	28400.00	USB	2A	IL	1	TERRYTDY	WA1ALZ
17-04 01:01	W1AW	7066.00	CW	4F	СТ	2	TERRYTRAVEL	W1TR
17-04 01:12	W6IOP	28400.00	USB	1A	SCV	1	TERRYTDY	WA1ALZ
16-04 20:58	W1XX	7145.01	LSB	1A	RI	1	W1TR	W1TR

Note: the LOG Contains Some Contacts, but NOT W2TR To log W2TR 1B NNJ, type the information as follows: Note: the ? Indicates Callsign is NOT in Log, Master Database, Telnet, or Call History File

N1 7:	145.00	LSB TS-2000	9					- • ×
<u>E</u> ile	e <u>E</u> di	t <u>V</u> iew Tool	s <u>C</u> onfig \	Vi <u>n</u> do	w Help			
cw	PH				Class		Section	1
160	160	W2TR		?	1B		NN J	
80	80							
40	(40)	🔵 🔴 🔘 R	un 💿 S&P					
20	20	E4 COD CO	EQ Ewah		C	EA WATD	EE His Call	FOWATD
15	15	FISAPCU	F2 EXCh		ro Spare			FOWIIR
10	10	F7 Rpt Exch	F8 Agn?		F9 Zone	F10 Spare	F11 Spare	F12 Wipe
		Esc: Stop	<u>W</u> ipe		.og It E	dit <u>M</u> ark	Store Sp	ot It QRZ
		Hdg 258° L	.P 78° 129	mi :	208km			
		Call histo	ory UserTe	xt a	appears	here whe	n enabled.	
K: NA		ED STATES, Zn 5					8	20 .;;

QSO Added to Log

1 2015-06-07 02:23:59Z Field	d Day - 2015 CMARA Fie	ld Day.s3db							X
DD-MM HH:MM	🔺 Call	Freq	М	Ε	Sect	Pts	Computer	Ор	*
16-04 20:59	W6YY	14160.00	USB	2A	SDG	1	TERRYTRAVEL	W1TR	
16-04 21:00	W9YY	28400.00	USB	2A	IL	1	TERRYTDY	W1TR	
17-04 00:05	W3OM	50130.00	USB	1B	EPA	1	TERRYTRAVEL	W1TR	
17-04 00:56	W4IY	7066.00	CW	4A	VA	2	TERRYTRAVEL	W1TR	=
17-04 00:56	W9IOP	28400.00	USB	2A	IL	1	TERRYTDY	WA1ALZ	_
17-04 01:01	W1AW	7066.00	CW	4F	СТ	2	TERRYTRAVEL	W1TR	
17-04 01:12	W6IOP	28400.00	USB	1A	SCV	1	TERRYTDY	WA1ALZ	
07-06 02:23	W2TR	7145.00	LSB	1B	NNJ	1	W1TR	W1TR	-
07-06 02:23	W2TR	7145.00	LSB	1B	СИИ	1	W1TR	W1TR	

the LOG NOW Contains W2TR 1B NNJ Note:

The Orange Color Indicates W2TR is NOT in Master Super Check Partial Callsign Database: master.scp Dates / Times are Fictitious here, It's a Demo!

Dupe Check

2015-06-07 02:13:37Z	Field Day - 2015 CMARA Field	d Day.s3db						
DD-MM HH:MM	🔺 Call	Freq	м	Ε	Sect	Pts	Computer	Op 🚔
16-04 20:58	W1XX	7145.01	LSB	1A	RI	1	W1TR	W1TR
16-04 20:59	W6YY	14160.00	USB	2A	SDG	1	TERRYTRAVEL	W1TR
16-04 21:00	W9YY	28400.00	USB	2A	IL	1	TERRYTDY	W1TR
17-04 00:05	W3OM	50130.00	USB	1B	EPA	1	TERRYTRAVEL	W1TR
17-04 00:56	W4IY	7066.00	CW	4A	VA	2	TERRYTRAVEL	W1TR
17-04 00:56	W9IOP	28400.00	USB	2A	IL	1	TERRYTDY	WA1ALZ
17-04 01:01	W1AW	7066.00	CW	4F	СТ	2	TERRYTRAVEL	W1TR
17-04 01:12	W6IOP	28400.00	USB	1A	SCV	1	TERRYTDY	WA1ALZ
16-04 20:58	W1XX	7145.01	LSB	1A	RI	1	W1TR	W1TR

Note: We already worked W1XX on 40 LSB, that station is IN THE LOG. If we try to LOG him again, same band, same mode,

the DUPE! message will show.

N1MM handles dupes OK by not scoring them.

If the other station insists, work him anyway, don't waste time arguing!

	7145.0	0 LSB TS-200	0								x
Ei	le <u>E</u>	dit <u>V</u> iew	Tools	<u>C</u> onfig	Wi <u>n</u> dow	Help					
cw	РН				Clas	35		Section			_1
160	160	W1XX	X		\checkmark						
80	80		1								
40	40		Run	S&P	Dupe	5					
20	20	F1 S&P	co	F2 Exch	F3 S	pare	F4 W1TR	F5 His C	all	F6 W1TR	
15	15	F7 Rpt E	(ch	F8 Agn?	F9 Z	Zone	F10 Spare	F11 Spa	re	F12 Wipe	
	10	Esc	: Stop	<u>W</u> ipe	e Log I	t E	dit <u>M</u> ark	St <u>o</u> re	Spot It	QRZ	:
		Hdg 62	° LP	242° 49	mi 79kı	n					
		Call h	istor	y UserT	ext ap	pears	here whe	en enable	d.		
K: N	IA/UNI	ITED STATES,	Zn 5					8			20 🔡

Make Corrections

Right Click on Log Entry to be Edited

2015-06-07 03:33:54Z Field	d Day - 2015 CMARA Fi	eld Day.s3db							x
DD-MM HH:MM	▲ Call	Freq	м	Ε	Sect	Pts	Computer	Ор	<u>*</u>
16-04 20:59	W6YY	14160.00	USB	2A	SDG	1	TERRYTRAVEL	W1TR	
16-04 21:00	W9YY	28400.00	USB	2A	IL	1	TERRYTDY	W1TR	
17-04 00:05	W3OM	50130.00	USB	1B	EPA	1	TERRYTRAVEL	W1TR	
17-04 00:56	W4IY	7066.00	CW	4A	VA	2	TERRYTRAVEL	W1TR	=
17-04 00:56	W9IOP	28400.00	USB	2A	IL	1	TERRYTDY	WA1ALZ	_
17-04 01:01	W1AW	Edit Contact					RYTRAVEL	W1TR	
17-04 01:12	W6IOP	Delete Contact					RYTDY	WA1ALZ	
07-06 02:23	W2TR	Play Contact					R	W1TR	Ţ
07-06 02:23	WOTR	Jump to this freque	ency				R	W1 TR	
07-00 02.25	WZTK	www.qrz.com					K	WIIN	
		Change Timestam	ps of the	entire lo	g by a fixed	d amount			
		Change Operator							
		Change Mode							
		Add/Change Note							
		Change Rx and Tx	Frequence			1.1			
		Change Station Na	me						
		Show rates to this (QSO in Ir						
		Set Start Interpolat	ion Time	& Row					
		Set Stop Interpolat	ion Time	& row					
		Rescore from this p	point on						
		Auto-Set Column	Widths						
		Delete custom colu	umn widt	ths					
		Show Mode							
		Select All							
		Сору					•		
		Help							

Log Edit Form Make Changes in Edit Contact Form

1	Edit Contac	ct										۲.	
	- General Conta	act Inforn	Information										
	Call	W2TR]	Timestamp				5-06-0	7 02:23:4	14		
l	Rx	7145		ъ	Free	quenc	у	7145	;				
l	Mode	LSB		Co	ontes	t Nam	e	FD					
l	RST Sent	59		RS	ST Re	eceive	d	59					
	Country	К			Stat	ion Ca	ill (W1T	R				
l	Name					QT	н						
	Comment												
	Contest Inform	nation										5	
	Nr	0	Nr S	ent 17 P			Po	ints	1	Power			
	Zone	5	Sect	tion	NNJ		N	lult		Band	7]	
	Che	0 Pre	eceder	ice			N	lult		WPX	W2]	
	Exchange	1B		Run	1/	1	N	lult		Radio	1		
	Grid			Ор	W1T	R			Misc				
	Rover QTH												
	Update	Dele	te		Help			Exi	t				

Restarting N1MM Mid Contest

- If a Computer Fails, Substitute a NEW computer.
 Do NOT Name the NEW Computer Same as the OLD.
 Use a DIFFERENT Name.
- If the Generator Goes Out, or Station (Computer) is Shut Down Normally...
 - N1MMplus should REMEMBER what Database and Log it is using and restart OK.
 - After Restart, or Changing Operators
 Check the Network Status Window to see
 Who is on What Bands and Modes Before Operating
 - The Database and Log Name Appear at the Title Bar at the TOP of the Log Window
 - IF NOT Correct:
 - File / Open Database instead of New Database
 - File / Open Log in Database instead of New Log In Database

Contingency Plan If Networking Doesn't Work

- Each Station will be assigned a Fixed Set of Allowable Bands and Modes to avoid DUPES.
- Each Station will have its own individual Log Database.
- The Field Day Chairman will collect the individual logs and consolidate them.
- Any Questions, Ask the Field Day Chairman

At End of Field Day ...

- Close N1MMplus Logger
- Copy the Log Database (*.s3db) file to the Thumb Drive (in case of log troubles)
- Return the Thumb Drive to the FD Log Mgr
- Wait for the FD Log Manager to check that the FD Log seems OK on Master ALL QSOs should be in the log on everyone's computer, SLAVES and MASTER.
- Questions? Ask the FD Chairman or Log Mgr

Log Consolidation and Submittal

Field Day Log Manager will Consolidate and Verify Logs Field Day Chairman will submit FD Package to ARRL:

- 1) FD Log Manager will Check that Log is OK on Master Computer
- 2) Give OK to Shut Down Computers, Stations
- If NOT OK, Problem Resolution will Begin Computers stay ON Stations can Begin Tear Down
- 4) FD Chairman will load Field Day Log, *.s3db, into N1MMplus
- 5) Statistics will be calculated for FD Report Presented at Sept Meeting
- 6) The Log will be Exported to Cabrillo Format for ARRL Submission
- 7) The Cabrillo File and Field Day Materials will be sent to ARRL via EMAIL

User Support

• N1MMplus Web

http://n1mm.hamdocs.com/tiki-index.php Home source of information about N1MM, downloads, documentation, etc.

• N1MMplus Email User Groups

<u>http://n1mm.hamdocs.com/tiki-index.php?page=Overview#N1MM_Logger_Discussion_Groups</u> Get notification of bugs and hints & kinks on how to use N1MM Post questions, comments, and report BUGS to the developers

Summary

- Free !! 🙂 🙂
- Widely Used and Supported 🙂
- Works on Microsoft Windows (only), XP thru Win 8 😕
- Supports nearly EVERY contest 😳
- Works with most radios, coupled, or stand alone 🙂
- CW automatic keying
- Digital Voice Keying (uses computer sound card)
- Digital sound card modes: MMTTY, MMVARI, FLDIGI
- Easy to setup
- Easy to use
- Remember to Setup: Operator – CTRL+O Frequency and Mode are Automatic – CAT Control Date / Time are Automatic – N1MMplus Networking

Extra Topics

- W1TR Go-Kit Diagram
- CAT Control
- CW Keying
- Digital Voice Keying (DVK)
- Audio Files
- Audacity Audio Editor
- Digital Modes (RTTY, PSK, Etc.)

W1TR Go-Kit Diagram

CAT Control

- USB or RS-232 to CI-V translator to Rig (ICOM)
- RS-232 directly to Rig (Kenwood)
- RS-232 to TTL converter to Rig (Yaesu)
- USB to RS-232 converter may be needed Most USB to RS-232 converters work OK for CAT control and for PTT, CW, FSK RTTY using EXTFSK
- CAT Control Monitors Rig Data (frequency, mode)
- CAT Control Can Control Rig Data (frequency, mode)
- Other items can be Monitored / Controlled Mic Gain, CW Speed, RF Gain (depends on RIG)

CW Keying

- RS-232 or LPT used
- USB to RS-232 may be needed
- RS-232 DTR for CW Keying
- RS-232 RTS for PTT
- RS-232 TXD for RTTY FSK
- Need RS-232 (± 12 VDC) to TTL (0/+5 vdc) Level Converter (RigBlaster Provides This)
- Function Key Macros Automatically Send CW
- Ctrl-K Keyboard Window

Eliminates Need for Keyer Paddle Most Operators Keep the Keyer Paddle Anyway, Just In Case !!

Digital Voice Keying

- Use Computer Sound Card
- Computer Microphone to Rig Speaker Output
- Computer Speaker Out to Rig Microphone Input
- Isolation Transformer for Both (RigBlaster and other sound card interfaces provide this)
- All Modulation and Demodulation in Software (Digital Modes)

Digital Modes Equipment Interconnect

Audio Files

- Pre-Recorded Messages (CQ, This Is..., etc)
- Letters (Phonetics) and Numbers, Pieced Together
- N1MMplus can play back messages as defined in macro files associated with program function keys (Function Keys)
- N1MMplus can play back internal data items

 Callsign of other station
 Your callsign
 Signal report
 Contest exchange
 using letter phonetics and numbers pieced together
- It is possible to work a phone contest without ever saying a single word into the microphone

Audacity Audio Editor

- Use Audacity to Edit Audio Phrases
- Audacity Web Site

http://audacity.sourceforge.net/download/

Digital Modes (RTTY, PSK, Etc.)

- N1MMplus does NOT do Digital Modes by Itself
- N1MMplus works with MMTTY for RTTY (FSK) Use of USB to Serial Device for FSK MAY need EXTFSK driver (software) http://mmhamsoft.amateur-radio.ca/
- N1MMplus works with MMVARI for Digital Modes http://mmhamsoft.amateur-radio.ca/
- N1MMplus works with FLDIGI for Digital Modes http://www.w1hkj.com/Fldigi.html

N1MMplus Check List

- W1BIM 6A WMA Whiskey One Bravo India Mike
- Set Computer Date/Time (WWV: 2.5,5,10,15,20 MHz, CHU: on 3.330, 8.850, 14.670 MHz) (Network will Override)
- Install N1MMplus Software (Full Install then a Recent Update)
- <u>Recent Updates will be Installed by the Field Day Log Manager</u>
- Run N1MM+ as Administrator (Change ICON Properties)
- Open Existing Database ...\2016 Field Day W1BIM.s3db
- Open Log In Database FD
- All Station and Contest Parameters are Already Setup in Log
- Set Operator Callsign (KB1VUA, etc) CTRL-O not to be confused with Field Day Station Callsign W1BIM
- Set Frequency in KHz (e.g. 3550, 3850) (CAT CTRL will override)
- Set Mode (USB, LSB, CW, AM, FM) (CAT CTRL will override)
- With CAT Control, just dial up Frequency and Mode with Bandswitch, VFO, Mode Switch
- Enter QSO: Callsign, Class, Section while logging
- Remember ON (Ontario) is now ONN, ONE, ONS, GTA starting Fall 2012
- Edit or Quick Edit to fix Errors
- Delete to Remove bad QSOs
- Copy Log File to Thumb Drive at End of Contest

Field Day Morning Updates

- Field Day Log Manager Will Do This
- Copy the Following Directory (Updates)
 - \N1MM Logger+
 - From: E:\CMARA Field Day Thumb Drive\N1MMplus Logger\N1MMplus Latest Updates
 - To: C:\Users\TGlagowski\Documents
 - Note: E:\ is the root directory of the USB CMARA Field Day Thumb Drive
- Update the N1MM+ Software
 - Run N1MM Logger+ Update 1.0.xxxx.exe
 - From: E:\CMARA Field Day Thumb Drive\N1MMplus Logger\N1MMplus Latest Updates
- Verify Software / Hardware Configuration
 - Verify Database and Log is Correct
 - Verify CAT Control is Working, PTT/CW/FSK and Audio Optional
 - Verify Band, Mode are Correct
 - Verify Operator is Correct