

It is becoming increasingly difficult to start a browser window with command line options which give minimal buttons, status bars, etc. and just the web page content you want to see. It is particularly hard using Firefox (v54+). Chrome can use an add-on, but crashes if other tabs are not open (even though a Chrome.exe process is clearly running the window you want plus others you didn't want).

This all starts with a batch file as follows:

```
c:
cd "C:\Users\xxxxxxxx\AppData\Local\Vivaldi\Application\"
start vivaldi.exe
cd "C:\Program Files (x86)\N1MM Logger+\\"
start /w N1MMLogger.net.exe
taskkill /F /IM vivaldi.exe
```

Using 'start' with a full path name appears not to work. xxxxxxxx is the directory which you use on your machine.

Install [Vivaldi](#) (I installed it just to do this one task). It has a built-in 'Ad' blocker, which really helps with rendering this page. Go to <https://www.lightningmaps.org> and centre the map on your location and select various options, including Thunder Loud. Resize the browser window to what you will need. Vivaldi is perfect as it automatically removes all the crud around the page. Go to Tools/Settings and use Startup with Specific Pages, selecting the now current one. Go to Appearance and turn off the bars, leaving a slender menu bar at the top.

Notes: The page starts with the sound off, so you'll need to switch it on with one click on the speaker logo each time.

When starting with the lat & lon parameters, you'll find they are a bit out. You may need to tweak them about 0.5 degrees.

Run the batch file from a shortcut and move the N1MM+ windows so that at least the most important part of the map shows – YOU!

Now when lightning approaches, you'll get warning and be able to see its progress while you contest.

Footnote: This method was derived because my request for *any* extra embeddable window in N1MM+ was denied. I can think of many other things to do and auto-locate on the screen using the .INI file, but clearly some contesters will keep running through any weather or incident.

The screenshot displays the N1MM+ software interface. The 'Manual - VFO A' window shows a frequency scale from 14010 to 14040 MHz with various call signs and their frequencies. The 'Check Master/Telnet/Call history' window shows a list of call signs and their frequencies. The 'Telnet' window shows a list of stations and their parameters, including call sign, bands, modes, filters, spot comment, and band plans. The 'General Logging' window shows a table of log entries with columns for time, call, frequency, mode, snt, rcv, and pfx. The 'N1MM Rotor Control' window shows a control panel for the rotor, including a '000°' display and buttons for 'Stop' and 'Turn'. A map of the Asheville area is visible in the background.

Time	Call	Freq	Mode	Snt	Rcv	Pfx
2013-05-31 12:17	S575FOC	21831.09	CW	599	599	S5
2013-05-31 14:21	TH75FOC	21835.06	CW	599	599	F
2013-05-31 14:36	N8FOC	21829.73	CW	599	599	K
2013-05-31 15:13	TH75FOC	24896.21	CW	599	599	F
2013-05-31 15:33	TH75FOC	18883.06	CW	599	599	F
2013-05-31 16:04	OK7FOC	24902.70	CW	599	599	OK
2013-05-31 19:10	N8FOC	18887.62	CW	599	599	K
2013-05-31 19:12	N4FOC	18881.64	CW	599	599	K
2014-03-06 21:13	VP2MXI	2880				
2014-03-06 21:26	CX7CO	2880				
2014-03-06 21:27	P32/PA8VDV	2880				
2014-03-06 21:34	ZH980X	2880				