

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. **Vivaldi has since become my main browser, so this is somewhat self-defeating!**

The screenshot displays a complex software interface for N1MM+ with several overlapping windows:

- Manual - VFO A:** Shows a frequency scale from 14010 to 14040 MHz. Key frequencies are marked: 14010 (EA3GOO 60° New #), 14020 (4X1KS 49° New #), 14030 (KA9DCU 322° New #), and 14040 (OH0Z 32° New #).
- Check Master/Telnet/Call history:** A table with columns for Master (42913), Telnet (0), and Call hist (51765).
- 231 mults worked of 203:** A grid showing worked mults for various call signs (3V, 4X, 5B, 6Y, 7Q, 8P, 9A, 9G, 9J, CS, CE, CM, CN, CT, CU, D4, DL, EA, AS, A8, EI, ER).
- General Logging - w4vp9kf.s3db:** A table of logging entries with columns: YYYY-MM-DD HH:MM, Call, Freq, Mode, Snt, Rcv, PFX.

YYYY-MM-DD HH:MM	Call	Freq	Mode	Snt	Rcv	PFX
2013-05-31 12:17	S575FOC	21031.09	CW	599	599	S5
2013-05-31 14:21	TH75FOC	21035.06	CW	599	599	F
2013-05-31 14:36	N8FOC	21029.73	CW	599	599	K GOOD
2013-05-31 15:13	TH75FOC	24896.21	CW	599	599	F
2013-05-31 15:33	TH75FOC	18083.06	CW	599	599	F
2013-05-31 16:04	OK7FOC	24902.70	CW	599	599	OK
2013-05-31 19:10	N8FOC	18087.62	CW	599	599	K GOOD
2013-05-31 19:12	N4FOC	18081.64	CW	599	599	K BILL
2014-03-06 21:13	VP2MXI	2802				
2014-03-06 21:26	CX7CO	2802				
2014-03-06 21:27	P32/PA8VDV	2802				
2014-03-06 21:34	ZH9EDX	2802				
- N1MM Rotor Control:** A control panel with a dial set to 000°, buttons for 'Stop' and 'Turn', and a status 'Com8 is already open'.
- Telnet:** A window showing a list of clusters and bands with columns: Type, Clusters, Bands/Modes, Filters, Spot Comment, Band/Plans.

Type	Clusters	Bands/Modes	Filters	Spot Comment	Band/Plans
DX de W4KAZ-#:	3528.0	N4LQ	CW 28 dB 30 WPM	CQ	2027Z
DX de HB9CQL:	50094.8	HB9BOS	Jn37m		2027Z
DX de W1NT-#:	3530.0	K2ZF	CW 19 dB 22 WPM	CQ	2027Z
DX de OH3EQY:	14076.0	SQ35KN			2027Z
DX de OH6BG-#:	28249.3	ER1TEN	CW 15 dB 16 WPM	BEACON	2027Z
DX de NO1D-#:	14017.5	VA7ST	CW 02 dB 28 WPM	CQ	2027Z
DX de I2DRIE-#:	14090.7	YL2KF	RTTY 23 dB	CQ	2027Z
DX de J68HZ-#:	14090.5	PA55KY	RTTY 06 dB	CQ	2027Z
DX de HA6NY:	50096.9	UR7DNM			2027Z
DX de LZ4UX-#:	7045.5	9A1AA	RTTY 10 dB	CQ	2027Z
- 14027.56 CW Manual - VFO A:** A control panel with buttons for 'F1' through 'F6 Repeat', 'F7 Empty', 'F8 Agn?', 'F9 Nr?', 'F10 Call?', 'F11', 'F12 Wipe', 'Esc Stop', 'Wipe', 'Log It', 'Edit', 'Mark', 'Store', 'Spot', 'QRZ'. It also shows 'CW Speed = 29' and '1016/260'.

The same can be achieved in new releases of Chrome by doing the following:

Make a Shortcut copy and set the target at:

```
"C:\Program Files (x86)\Google\Chrome\Application\chrome.exe"  
--app=https://www.lightningmaps.org/#m=oss;t=4;s=1;o=0;b=;ts=0;tr=1;y=35.6796;x=-  
82.0569;z=7;d=2;dl=5;dc=0;
```

This starts without the main frame and additional bars around the window.