# **Reporting GPS Location**

- This training makes the assumption that you already have some experience using Winlink and JS8Call
- This can be implemented using telnet (on Winlink) or radio on both VHF and HF

### Use GPS for EmComm

If you are deployed to a known shelter, it might be assumed that at least one person knows that location. Others may not know the address and being able to report your location would be helpful.

You may be sent to a remote site to give a report and your gps coordinates would allow for a precise location.

### Unexpected need for location

It is always a good idea to know how to report where you are in the event you may need help.

You might have car trouble or come across some road or other damage that you can send in a report with GPS coordinates.

# What we will cover

- Purchase a GPS receiver of your choice
- Two I have used are covered here
- Download and install drivers
- Set up Winlink, and JS8Call to use your GPS
- Use Winlink and JS8Call to report your position

### **GlobalSat GPS Receiver**

CK to results



Click image to open expanded view

GlobalSat BU-353-S4 USB GPS Receiver (Black) (Improved-New) Brand: GlobalSat ★★★★☆ × 1,261 ratings | 312 answered questions \$31<sup>99</sup> & FREE Returns × Get \$60 off instantly: Pay \$0.00 \$31.99 upon approval for the Amazon Prime Store Card. No annual fee. Color: IMPROVED-NEW

C

\$32.70	\$31.99
rand	GlobalSat
olor	IMPROVED-NEW
re Batteries ncluded	No
	LICD

I have used this receiver and it works well.

The longer cord gives me the flexibility to place the receiver in a clear area.

### Thumb drive sized receiver



DIYmall VK-172 VK 172 Gmouse G-Mouse USB GPS Dongle Glonass Support Windows 10/8/7/vista/XP/Raspberry PI Vehicle Aviation Tracker (Pack of 1pc) Visit the DIYmall Store

```
$12<sup>99</sup>
```

Get Fast, Free Shipping with Amazon Prime & FREE Returns ~

I also use this receiver. It is very compact.

GPS receivers require an open view of the sky and this one does not work as well in my shack that has a metal roof.

# Install Driver for Globalsat

Globa	Softwardows USB Driver / English / 2011-11-18 /	lect Language 🗸 Home	Q Search	Search	
WORLDCOM	GROUP-or Windows 2000 / 1 About Win7 Applications	Products Platform	Partners Support		
U-353S4	Mac OSX USB Driver / English / 2011-11-18 /	📦 🌇			
Description	For Mac OSX				
U-353S4	Mac OS8 / OS9 USB Driver / English / 2011-11-18 /	📦 🎬			
Description	For Mac OS8 / OS9				
U-353S4	GPS Info Tool For Windows / English / 2011-11-18 /	۵ 🎒			
escription	For Windows 2000 / XP / Vista / 7				
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escription	For Window Mobile Version				
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U-353S4	Mac OSX USB Driver / English / 2019-10-29 /	📦 🌇			-
escription	For Mac OSX				

- Download and install the usb driver before plugging in the gps device
- Instructions here are for the GlobalSat Receiver.
- https://www.globalsat.com.tw/ style/frame/m5/features.asp? content\_set=color\_2&lang=2&cu stomer\_id=909&name\_id=10593

#### Install Driver





- Extract files
- Install PL2303-Prolific
   DriverInstaller\_v1200

# **Check Device Manager for Port**

🗄 De	evice Manager		
File	<u>Action View H</u> elp		
<pre> </pre>			
× 🛔	DESKTOP-O3RJ2GO		
>	🐐 Audio inputs and outputs		
>	🗃 Batteries		
>	Biometric devices		
>	🚯 Bluetooth		
>	Q Cameras		
>	Computer		
>	Disk drives		
>	🔜 Display adapters		
>	Firmware		
>	🛺 Human Interface Devices		
>	Keyboards		
>	Memory technology devices		
>	Mice and other pointing devices		
>	Monitors		
>	Network adapters		
~	Ports (COM & LPT)		
	Prolific USB-to-Serial Comm Port (COM4)		
>	🚍 Print queues		
>	Processors		
>	Security devices		
>	E Sensors		
>	F Software components		
>	Software devices		
>	🖣 Sound, video and game controllers		
`	Sau Storage controllers		

- Plug in your gps to the usb port on your computer
- Look in Device Manager to confirm which com port is being used

# Install Driver for U-blox 7

🔃blox	Products & Services Solutions Support Company	Q	<u>گ</u> گ
<ul> <li>Show more</li> </ul>	20-Jul-2020		
Product life-cycle	GPS week number roll-over workaround for u-blox GNSS	PDF	79 K
Product evaluation (4)	receivers	210	
Hardware design (7)	11-Sep-2019		
System/software design (9			
Certification (2)	GPS Week Number Rollover u-blox Compliance Statement	PDF	31 K
Production (8)	14-May-2019		
Deployment (5)	MAX-8 and MAX-M8 Documentation Update 07-Mar-2017	PDF	133 K
Technical criteria	Conformity and Castification		
Multi-GNSS (22)	Conformity and Certification		
Concurrent GNSS (20) GPS-only (9)	MAX-8 Declaration of Conformity (RED) 08-Mar-2021	PDF	156 K
Show More	Driver		
Include legacy resources	u-blox GNSS Standard Driver for Windows, v1.2.0.8	🖹 ZIP	582 K

- https://www.u-blox.com/ en/product-resources/ property\_file\_product\_filte r/14432
- u-blox GNSS Standard Driver for Windows, v1.2.0.8

### Configure Winlink to use GPS

Winlink Express 1.6.1.0	) - N5CBP						- 🗆 X
N5CBP - S	ettings Message Atta	chments Move To:	Saveo	litems	✓ Delete	Open Session:	Telnet Winlink v Logs
Help							
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No active session							
System Folders	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
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Read Items (0)	2022/01/19 03:54	94FGE1YZEPHP	1278	KF5VO	KF5VO	N4FAF	Winlink Wednesday NTX Reminder
Sent Items (5)	2022/01/19 03:44	3R2MKB2F3ZLT	1360	KF5VO	KF5VO	N4FAF	Winlink Wednesday NTX Checkins
Saved Items (0)	2022/01/18 17:42	YA0AVGPWDGED	1388	KK4SHF	KK4SHF	N5CBP	DAVID, FL WINLINK NET REPOR
Deleted Items (1)	2022/01/18 11:30	1AIIX34KEN6E	221	KO4JES	KO4JES	N5CBP	Tuesday 1-18-2022
Personal Folders	2022/01/17 20:09	7IZUR2S4FK3M	246	SMTP	SMTP:dbswartz8	N5CBP	Re: test d72
	Maggars TD: 71211	254FV3M					
Global Folders	Date: 2022/01/17	20:09					
	From: dbswartz8@g	mail.com					
	Source: SMTP						
	Downloaded-from:	RMS:N5CBP-10					
Contacts	Subject: Re: test	d72					
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Flace නියිම								
	NSCBP + Help	Settings Message Attachments Move To: Winlink Express Setup Font for text	Saved Iten	ns v Delete	e Open Session:	Telnet Winlink	↓ Logs	
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illungy 1.3.5	Inbox (Duniead)           Read Rems (0)           Outlook           Sent Rems (0)           Saved Rems (0)           Deleted Rems (0)           Deleted Rems (1)           Drafts (0)           Personal Folders	GP3 / Position Reports Winnik Catalos Request Preferences Update User Options Message Notification and Forwarding Form settings Auto session open on startup Contacts Group Addresses	1215 W4/ 1278 KF5 1360 KF5 1388 KK4 221 KO4 246 SMT	KH W4AKH O KF5VO O KF5VO GHF KK4SHF JES KO4JES P SMTP/dbtwa	NSCBP N4FAF N4FAF NSCBP NSCBP NSCBP	DAVID, FL WL Wnink Wedne Wnink Wedne DAVID, FL WI Tuesday 1-18-2 Rei test d72	Net Remidher: Just Q aday NTX Reminder - sday NTX Checkins - NLINK NET REPORT 022	
scendinad Shartau Zuan	Global Folders Contacts	Add Personal Folder Add Global Folder Hybrid Network Parameters View Usage Statistics View background tasks Backup and restore databases Egit Paraeee - Unit A band ato Secon	<n5cbp(< td=""><td>winlink.org&gt;</td><td>wrote:</td><td></td><td></td><td></td></n5cbp(<>	winlink.org>	wrote:			

# Configure Winlink to use GPS

PS Serial Port				
PS Serial Port:	None ~	GPS Baud Rate:	4800 ~	]
IP Address:	127.0.0.1	IP Port	15555	Set
iPS Status				
GPS Latitu GPS Spe ☑ Auto	de: ed: omatically update grid :	GPS Lony Knots GPS Co square from GPS po	gitude: urse: sition:	True
osition Report				
Y	our last position report Use GPS Position	was posted at 0000	/00/00 00:00 UTC Current Time	
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- Box on the left is before setting the com port and baud
- Pick the port you found in Device Mgr and Baud for your GPS

PS Serial Port:	COM5 ~	GPS Baud Rate:	4800	×
IP Address:	127.0.0.1	IP Port	15555	Set
PS Status				
SGPRMC, 1500	59.000,A,3007.9934,	N,08242.4059,W,0.	00,65.70,14022	22A*40
	Last fix at	2022-02-14 15:00:5	9 UTC	
GPS Latitud	e: 30-07.99N	GPS Lon	gitude: 082-4	2.41W
GPS Spee	d: 0.00	Knots GPS Co	ourse: 0	66 True
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[	Use GPS Position Report Date/Time	Use	Current Time	
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				0

Now that you have Winlink set up to use a GPS receiver, we will take a look at two ways to report your location when you are deployed.

### Create a message with GPS Coordinates

Winlink Express 1.6.1.0	- N5CBP									— C	) X
N5CBP • S	ettings	Message	Attachments	Move To:	Saved Item	IS	~	Delete	Open Session:	Telnet Winlink 🗸 🗸	Logs
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	@	Reply	/								
No active session		Reply	to All								
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Inbox (6 unread) 🔥	<b>↓</b> Ê	Forw	ard without char	nge		rs	KI4KY	S	N5CBP	test	
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	Got i	t!									
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	> pac	ket on A	A band at 9	600							
	>										
	1										~

- Click Message
- Then select New
   Message

# Check In via Winlink



- Start composing a new message
- Click "Select Template"
- Select "Winlink Check In.txt" from the General Forms group

#### Winlink Check In form

O THE C./ KIVIS /020Express/145CDF/ Temp/ Withink\_Check\_III\_IIIddi.itdii

			Winlink Check	: In	
Setup	Click to add your agency/group	o name to title	Load Check in	Data	Form Info
	This is for an initia	al check in via Winlink Exp	press. Also sent as pla	n text in message body for	non-Express users.
Date/Time	2022-03-05 16:24:42	Select Status	LEVENT ♥ Band	N/A- VHF 220 VMode	Telnet ▲ Packet Ardop ▼
Send To	BSWARTZ8@GMAIL.COM			<u>Clear Al</u>	LL "Send To" Entries.
Calls Signs Station Con	of Initial On-Site Operator(s) tact Name: Station contact N	Enter ONLY CALLSIGN	S! ion Call sign N5CBP		
Location E	Example: Hope Hospital, park	ing lot C near ER entranc	me MGRS 17RI	P3546736173	Grid EM80pd
		Comments	Max Characters 180		
3uch as: On	batteries. Need relief in 6 ho	urs. A Brief SitRep. Opera	itors Names. Special no	tes for next shift. Mode bei	ng used that was indicated as OTHER.
Save Che	ck in Data Submit R	eset Form		Ver 4.0.5	

# Fill in your location information

- The Date and Time should fill in automatically
- Select the proper Status, Band, and Mode
- Fill in the Send To address
- The Lat/Lon is filled in if GPS present, otherwise you could use an app on your phone to obtain the coordinates.
- List call signs of operators present.
- List your name and call sign
- Add the name of your location. Home, shelter name etc.

# Add a Brief Situation Report

- If other operators present add names here
- Add other information related to your present status
- When done entering all information, click on the submit button
- If you need to start over, click Reset Form

## **Basic Info**

	Winlink Check In	
Setup Click to add your agency/group name to title	Load Check in Data	Form Info
This is for an initial check in via	Winlink Express. Also sent as plain text in message	ge body for non-Express users.
Date/Time 2022-03-05 16:24:42 Select Stat	Exercise ∧ Net ∨HF REAL EVENT → Band 220 →	<ul> <li>Telnet ▲ Packet</li> <li>Mode</li> </ul>
Send To NF4CA		Clear ALL "Send To" Entries.
Entries will remain until you char	nge or clear them	
Calls Signs of Initial On-Site Operator(s) N5CBP		
Station Contact Name: Brad	Station Call sign N5CBP	
Location Home Latitude and longitude: LAT 30.1458	/_82.7083 MGRS 17RLP3546736173	Grid EM80pd
	Commonto May Charactero 190	
urrently on commercial power. Battery available if need	ded for about 4 hours.	

Here we are sending a telnet message to net control

NF4CA has a winlink address, so the call sign is all that is needed

## Message ready to post to outbox

This message is now ready to post to the outbox for sending.

The message could also be sent to a non winlink address and they would be able to see your information

Close Select Template Attachments Post to Outbox Spell Check Save in Drafts          From:       N5CBP       Send as:       Winlink Message       Request message receipt       Set Defaults         Io:       NF4CA         Gc:       Subject:       Winlink Check In [Exercise]-N5CBP-Home         Attach:       RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt         -       Check-in         Status:       [Exercise]         Date/Time:       202:03-05 16:56:13         Initial Assigned Operators:       N5CBP         Status:       [Exercise]         Date/Time:       202:03-05 16:56:13         Initial Assigned Operators:       N5CBP         Status:       [Exercise]         Date/Time:       202:03-05 16:56:13         Initial Assigned Operators:       N5CBP         Status:       [Exercise]         Date/Time:       202:03-05 16:56:13         Initial Assigned Operators:       N5CBP         Station Contact Name:       Brad         Call/Tactical Sender:       N5CBP         Location:       Home         GPS Coordinates:       17RLP3546736173         Grid Square:       EM80pd         Band Used:       N/A-         Session Type:       Telnet	
From:       NSCBP       Send as:       Winlink Message       Request message receipt       Set Defaults         Io:       NF4CA         Cc:       Subject:       Winlink Check In [Exercise]-N5CBP-Home         Attach:       RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.bt;         Check-in       Status: [Exercise]         Date/Time:       2022-03-05 16:56:13         nitial Assigned Operators:       NSCBP         Status:       Exercise]         Date/Time:       2022-03-05 16:56:13         nitial Assigned Operators:       NSCBP         Status:       [Exercise]         Date/Time:       2022-03-05 16:56:13         nitial Assigned Operators:       NSCBP         Status:       [Exercise]         Date/Time:       2022-03-05 16:56:13         nitial Assigned Operators:       NSCBP         Status:       [Exercise]         Date/Time:       2022-03-05 16:56:13         nitial Assigned Operators:       NSCBP         Status:       [Exercise]         Date/Time:       2022-03-05 16:56:13         Status:       [Exercise]         Date/Time:       202-03-05 16:56:13         Status:       [Exercise]         Location:	
Io:       NF4CA         Cc:       Subject:         Subject:       Winlink Check In [Exercise]-N5CBP-Home         Attach:       RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.bxt;         Check-in       Status: [Exercise]         Date/Time: 2022-03-05 16:56:13       nitial Assigned Operators: N5CBP         Station Contact Name: Brad       Call/Tactical Sender: N5CBP         Station Contact Name: Brad       Call/Tactical Sender: N5CBP         Ocation: Home       BPS Coordinates: LAT 30.1458 LON -82.7083 MGRS Coordinates: 17RLP3546736173         Srid Square: EM80pd       Band Used: -N/A-         Session Type: Telnet       Call/Tactical Sender: N5CBP	
Cc:       Winlink Check In [Exercise]-N5CBP-Home         Attach:       RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt;         Check-in       Status: [Exercise]         Date/Time: 2022-03-05 16:56:13       Date/Time: 2022-03-05 16:56:13         nitial Assigned Operators: N5CBP       Station Contact Name: Brad         Call/Tactical Sender: N5CBP	
Subject:       Winlink Check In [Exercise]-N5CBP-Home         Attach:       RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt;         Check-in       Status: [Exercise]         Date/Time: 2022-03-05 16:56:13       Status: [Exercise]         Date/Time: 2022-03-05 16:56:13       Status: Image: Status: Statu	
Attach: RMS_Express_Form_Winlink_Check_In_Viewer.xml;FormData.txt; Check-in itatus: [Exercise] Date/Time: 2022-03-05 16:56:13 itital Assigned Operators: N5CBP itation Contact Name: Brad ital/Tactical Sender: N5CBP ocation: Home iSPS Coordinates: LAT 30.1458 LON -82.7083 MGRS Coordinates: 17RLP3546736173 itid Square: EM80pd ital Used: -N/A- iession Type: Telnet ital/Tactical Sender: N5CBP	
Check-in tatus: [Exercise] late/Time: 2022-03-05 16:56:13 litial Assigned Operators: N5CBP tation Contact Name: Brad all/Tactical Sender: N5CBP ocation: Home IPS Coordinates: LAT 30.1458 LON -82.7083 MGRS Coordinates: 17RLP3546736173 irid Square: EM80pd and Used: -N/A- ession Type: Telnet all/Tactical Sender: N5CBP	
Check-in tatus: [Exercise] ate/Time: 2022-03-05 16:56:13 itial Assigned Operators: N5CBP tation Contact Name: Brad all/Tactical Sender: N5CBP ocation: Home PS Coordinates: LAT 30.1458 LON -82.7083 MGRS Coordinates: 17RLP3546736173 rid Square: EM80pd and Used: -N/A- ession Type: Telnet all/Tactical Sender: N5CBP	_
omments:	
currently on commercial power, Batteries available if needed.	

Linner

Below Info Used for Copy and Paste to Spreadsheet

TAB Delimited:

# **GPS** Position Report

- There are multiple ways to report your position via Winlink
- One that we use in exercises is the SHARES SPOTREP-2
- For this training use the GPS Position Report

🖳 Temp	olate Man	ager			_		$\times$	
Select	Close	Add	Remove	Edit				
- Stand	ard Templa	ates (ven	sion 1.0.184.	0)			~	
i Al	RC Forms							
	A STATE F	Forms						
	ANADIAN	Forms						
⊕ · FE	EMA Forms	3						
⊡ FI	MRE Forms	S						
📄 G	ENERAL F	oms						
	···· Bulletin.t	xt						
	GPS Po	sition Re	port.txt					
	···· Hospital	Bed Rep	port.txt					
	···· Incident	Action P	lan.txt					
Incident After Action Report.txt								
Incident Status Report.txt								
Information.txt								
Narrative Situation Report.txt								
Quick Message.txt								
Quick WEB EOC Resource Request.txt								
Race Tracker.txt								
	···· Radio N	et Log .t	xt					
	···· Welfare	Message	e.txt					
	···· Windshi	eld Dama	age Survey.tx	đ				
···· Windshield Damage Worksheet.txt								
	···· Winlink	Check In	n.txt					
Winlink Check Out.txt								
		MEDICAL	Forms					
H	ISTATE	oms						
	ICS Forms							
🔅 🕀 🗛	KU Forms						~	

# Fill in Report

- Select Click to use connected GPS LAT LON
- Add a useful comment
- When complete, click Submit

Position Report × +				-	0	×		
$\leftarrow$ $\rightarrow$ C (i) File   C:/RMS%20Express/N5CBP/Temp	/GPS%20Position%20Report.html	AN to	ל≡	Ē				
·								
GPS Decimal Position Repo	ort for Winlink - Decimal C	onverter						
Loa Last Saved:Position	d Position Data n Report 2022-03-24 15_48.txt							
Date/Time       2022-03-24 20:08:32Z       Click for current UTC Time         Manually Enter your Decimal Degrees:       30.1330, -82.7068       Click any where to use         (If no connected GPS)       Example: 38.5567, -121.7932 (note the comma)         Comment: Limited to 148 characters       Click to use connected GPS device needs to be configured and working in Winlink Express.         HINT: You will be prompted to save your Position Data BEFORE you Submit. Save the data if you want to DELETE the sent position later. To do so, just use Load Position Data and change the Comment box to DELETE in all caps. Now Submit this new report. It will be deleted from all Winlink System lists and maps, but not APRS FI.								
Copy/Paste Current Coordinates converted for use with other mapping programs:								
Position in Decimal Degrees:     Solution in Degrees and Decimal Minutes       30.1330, -82.7068     Copy to Clipboard       Copy to Clipboard     Copy to Clipboard								
Position Grid Square         Position NATO/MGRS (Military Grid Reference System)           EM80pd         Copy to Clipboard         17RLP3559034752         Copy to Clipboard         Format with spaces								
THE WINLINK CMS DOES NOT ACCEPT A TACTICAL ADDRESS, ONLY BASE CALLS APRS FI KEEPS POSITION REPORTS & COMMENTS FOR 2 YEARS.								
Submit         Reset Form         Form Concept from LAX ARES CA         Current Winlink Sender: N5CBP         Ver 7.2								
4						+		

### Report ready to send

🗱 Ente	er a new message							_		×
Close	Select Template	Attachn	nents	Post to Outbox	Spell C	Check	Save in Drafts			
From:	N5CBP	~ 9	Send as:	Winlink Message	~		Request message re	ceipt	Set Defau	lts
<u>T</u> o:	ртн									
<u>C</u> c:										
Subject	Position Rep	ort								
<u>A</u> ttach:										
Latitude: Longitude Commeni	20-07-98N :: 082-42.41W : Raining at the §	2 Shack too	day!							

- Add additional email addresses as needed
- Post to Outbox
- Chose your method to send and then transmit

### Send Report



 Sending message on VARA HF

• Sent through AB4NX near Atlanta, Ga.

#### Message Sent

Vara HF Winlink Session - N5CBP	_		×					
Exit Settings Switch to Peer-to-Peer Channel Selection Map Forecast Best chan. Next chan. Start Stop Abort								
AB4NX Center Freq. (kHz): 7103.000 Dial Freq. (kHz): 7101.500 Bearing: 342 Quality: 43								
Favorites:								
Channel Free In: 0/0 Out: 239/239 BPM: 1143 Disconnected								
*** Station Bearing: 342, Range: 508 km			~					
RMS Trimode 1.3.43.0 Welcome to GAARES Winlink Hybrid Station								
NOLBH has 337 daily minutes remaining with AB4NX (EM745L) DVI 2K-5 D.P2EVILI Met								
PQ: 6292582								
CMS via AB4NX >								
;FW: N5CBP								
[RMS Express-1.6.2.0-B2FHM\$]								
C EM VEZ ITSBOUEL 277 239 0								
F> 62								
FS Y								
*** Sending YRZJ1T8BOJP1.								
FF the Completed and a Company VB7 (17000-191								
*** Sent 1 message Butes: 263 Time: 00:32 bytes/minute: 481								
FQ								
*** End of session at 2022/03/24 19:54:54								
*** Messages sent: 1. Total bytes sent: 263, Time: 02:42, bytes/minute: 97								
*** Messages Received: 0. Total bytes received: 0, Total session time: 02:42, bytes/minute: 0								
*** Disconnecting								
uisconnected from wininink мирэ: Арчил @ 2022/03/24 19:55:02 *** Session: 2.8 min: Ava Throughput: 134 Bytes/min: 1. Min Peak Throughput: 134 Bytes/min								
ecolori. Lonini, mg medgipat to byconini, mini car medgipat for byconini								

### Position Report on aprs.fi



# JS8Call

- This assumes you already have JS8Call installed on Windows.
- https://m0iax.com/downlo adfiles/
- (I had to copy and paste the link in a new tab)



# Install JS8Call Utilities

• Extract zip file

- Right click and select create shortcut
- Drag shortcut to desktop



JS8Call Utilities by M0IAX	– 🗆 X							
Maidenhead Locator								
	Get Grid from GPS							
Send Grid to JS8Call	TX Grid							
Auto update JS8Call Grid								
Timer Not Active								
GPS APRS Message Settings								

- Initial view is before selecting Get Grid
- After your GPS is connected, select Get Grid from GPS



- With JS8Call open
- Select TX Grid
- This will load and send your location

#### **Report Sent**



### Location posted on aprs.fi



 After a minute or so, an icon will appear on a map such as seen at aprs.fi