VARAC

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Areas of Interest

- What is VarAC?
- Software required
- Hardware required
- Vara-HF settings
- VarAC settings
- Operational Choices
- Operational Choices while in QSO
- Other Features
- Further Assistance

What is VarAC?

- A newer digital mode that allows for keyboard conversations even in weak or low band conditions, typically over HF
- If you remember the old Packet Radio days of the 80's, you may find this similar
- The ability to chat, leave messages, transfer files, check signal reports, and see what stations others have heard recently

Software Required

 If you use WinLink on HF today, you already have half of the software now

- Vara-HF by EA5HVK
 - Vara v4.6.4 is the latest version
 - https://rosmodem.wordpress.com/
- VarAC by 4Z1AC
 - VarAC v6.0.8, NEW updates frequently
 - https://www.varac-hamradio.com/



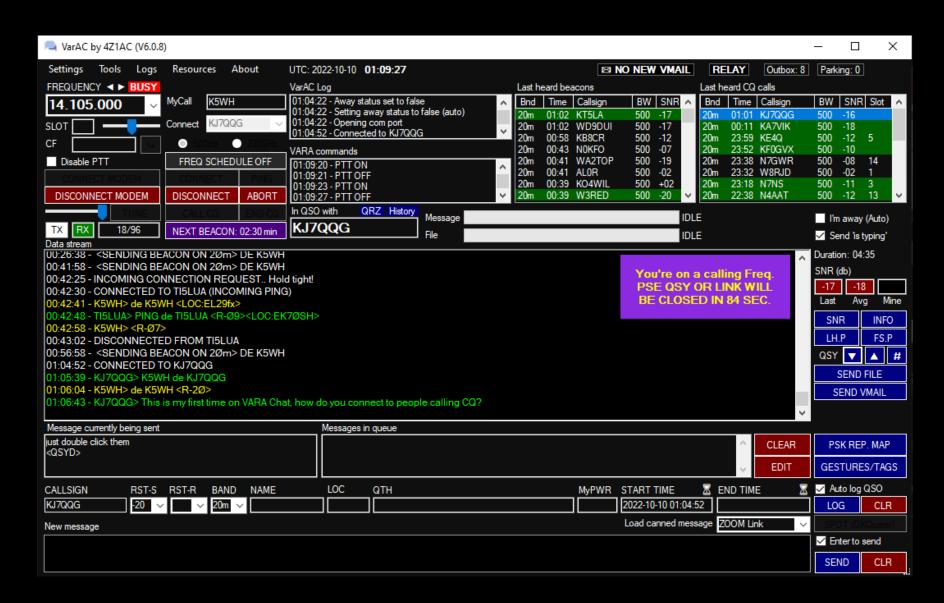
Installation Note

- It's worth mentioning there is NO installation package for VarAC
- I recommend creating a folder anywhere, such as VarAC, and copy the unzipped files into this folder
- When NEW releases are available, you typically unzip the files into it's NEW folder, and manually copy over just the VarAC.exe file into your original VarAC folder
- This way, ALL your configuration settings will remain in place

Hardware Required

- Like most digital mode software, VarAC requires a sound card digital interface
- Most current radios have this built in
- Legacy or older radios may require a SignaLink, RigBlaster, RigExpert, just to name a few, or any of the similar type digital interfaces

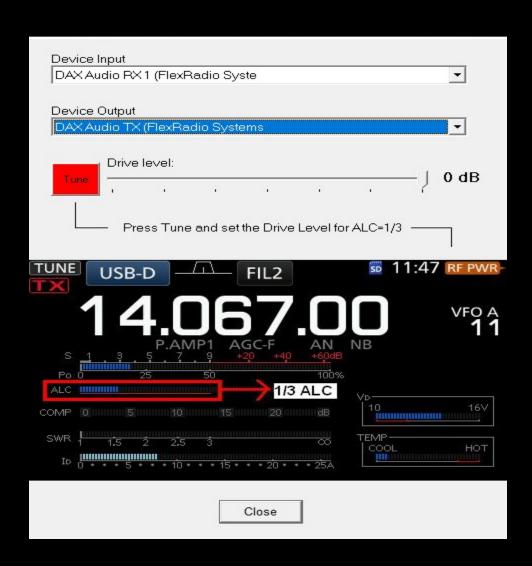
Install Vara-HF & VarAC, then launch VarAC



Vara-HF Settings, VARA Setup

VARA Setup >	<
TCP Ports: Command Data 8300 8301	
VARA Licenses	
Callsign: Registration Key: K5WH	
Callsign: Registration Key:	
Callsign: Registration Key:	
Callsign: Registration Key:	
✓ Allow VARA check for updates via internet	
Accept 500 Hz connections	
Tuner enhancement	
□ CW ID	
☐ KISS Interface Retries:	
☐ RA-Board PTT ☐ SysLog 10 ▼	
Close	

Vara-HF Settings, Soundcard



VarAC Settings, My Information

My Inf	formation	_) ×
	Special prefix	Your callsign		Special suffix
Callsign:	/	K5WH	/	
Example:	W9 /	4Z1AC	/	QRP
	How complex call	signs work?		
QTH:	Houston, Tx			
Name:	Walter	Locator:	EL29	FX
RIG:	Flex 6600M			
Antenna:				
Callsign: / K5WH / Example: W9 / 4Z1AC / QRP How complex callsigns work? QTH: Houston, Tx Name: Walter Locator: EL29FX RIG: Flex 6600M				
	SAVE	AND EXIT		

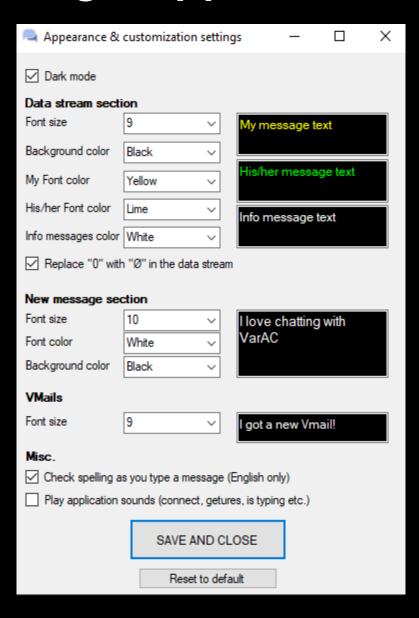
Rig Control and VARA Configurations

Settings			- 🗆 X
PTT Configuration	Frequency Control	VARA Modem Configuration	
CAT FlexRadio	CAT FlexRadio	VARA modem type VaraHF	~
OmniRig OTR/RTS	OmniRig None	VARA file path C:\VARA\	
○ VOX/None	☐ Read freq. every 2 ∨ sec	VARA monitor path (?) (Optional)	Port 8350
TEST TEST	Mode USB-D V	QSO Configuration	
TEST TEST PTT OFF	TEST 7105000 V	Call ID TX interval (min) 10	√ (?) ✓ Allow last heard peeking (?)
CAT Configuration	OmniRig Configuration	Auto disconnect 30	(?) Allow non-ham callsigns (?)
Port COM5 V	Rig # 1		Allow incoming pings (?)
Baud 115200 V	Nig #	Callsigns block list Auto away status ON	(?) ∨ Minutes 60 ∨ (?)
Parity None V	DTR/RTS Configuration	Auto away status ON	∨ Minutes 60 ∨ (?)
Data bits 8 V DTR LOW V	Port COM1 V	Incoming file size limit (bytes)	3000 (?)
StopBits 1 V RTS LOW V	Type DTR V	Incoming files directory	C:\Ham\VaraHF\VaraC\
Test Error Log (?) I'm having trouble with	CAT control	Outgoing files directory	C:\Ham\VaraHF\VaraC\
		Beacons / CQs	Misc.
Logging		Beacon interval (minutes) 15	√ (?) □ Debug mode (?)
ADIF file C:\Ham\VaraHF\VaraC\VarA	AC_qso_log.adi (?)	Digipeat via	(?) Show distance in MI
Send log NONE V If	Port (?)	Load last heard history ON	× (?)
Mode DYNAMIC V	Submode VARA HF \checkmark (?)	CQ Slot wait (seconds) 300	√ (?)
✓ PSKReporter upload (?) Custom	PSK map &timerange=21600&shov (?)	Skip CQ slot selector (?)	
DOWNLOAD latest CAT command file	SAVE A	ND EXIT	

VarAC Settings, Canned Messages

Canned messages			_		\times
Welcome message	Hello from Walter. (?) Tags <snd> Send m <disc> Discon <call> My Cal</call></disc></snd>		<hcall></hcall>	His/her Ca	allsign
I'm Away message	I'm away. PSE leave a message. TU! Actually, I'm probably here, so hope to catch you soon. 91/100 (?) (?) (QTH) My QT <loc> My Loc <rig> ANT> My RIC <ant> My Ant</ant></rig></loc>	me H cator		His/her Na His/her Q1 His/her Lo	ГН
Canned message #1	<name:walter> <qth:houston, texas=""> <loc:el29fx><snd></snd></loc:el29fx></qth:houston,></name:walter>	Name	MY INFO		
Canned message #2	My working conditions: <rig:flex-6600m> <ant:cushcraft a3,="" endfed,="" gap="" vertical=""></ant:cushcraft></rig:flex-6600m>	Name	RIG Shortcut I	key: F2	
Canned message #3	73's and all the best! DE <call> Disconnecting<snd><disc></disc></snd></call>	Name	73s Shortcut I	key: F3	
Canned message #4	^^^^^^^^\ _ VarAC QSO "" ""\ ,	Name	QSO True Shortcut I		
Canned message #5	/) '/	Name	Thumb Shortcut I	key: F5	
Canned message #6	Join me on Zoom at http://www.k5wh.net/zoom/	Name	ZOOM Li Shortcut I		
Canned message #7		Name	Shortcut I	key: F7	
Canned message #8		Name	Shortcut I	key: F8	
	SAVE AND CLOSE				

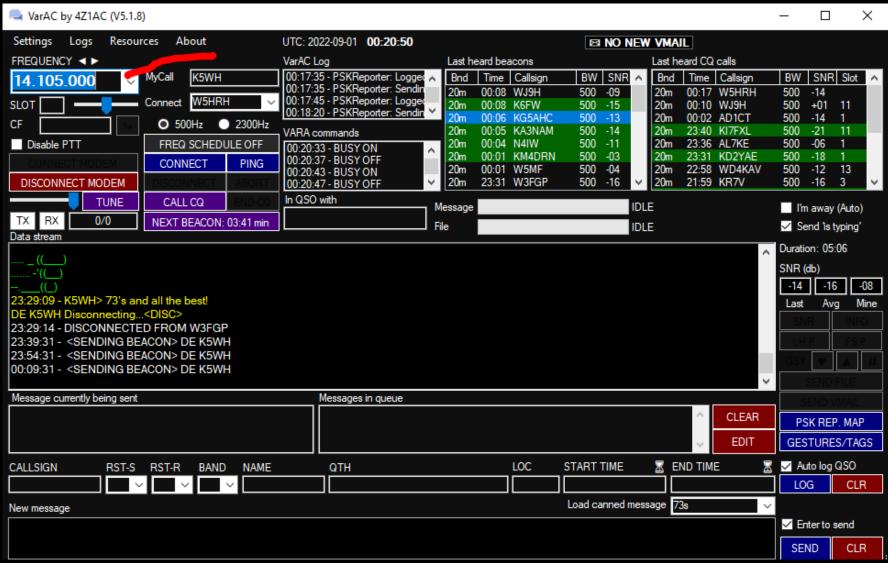
VarAC Settings, Appearance & Sounds



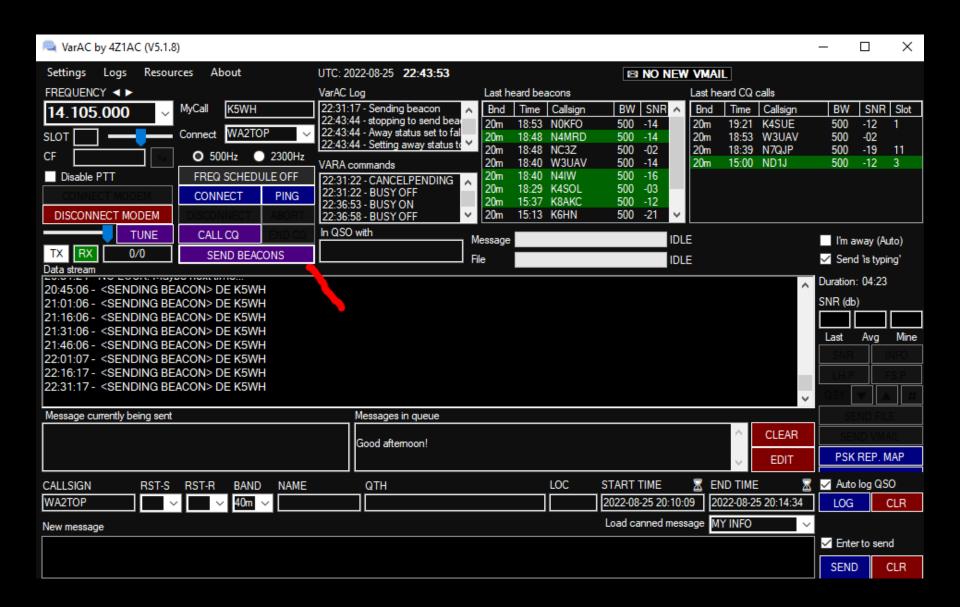
VarAC Settings, Frequency Schedule Change frequencies automatically

FREQ	schedule	_		×			
You can configure VarAC to QSY to different frequencies at specific times. This is useful when you want to QRV on different frequencies / bands across the day (ex. 20m for daytime / 40m for night time).							
	UTC time (hour:minute)						
#1	L:_						
#2	_:_						
#3	_:_						
#4	_:_						
#5	_:_						
	SAVE A	ND EXIT					

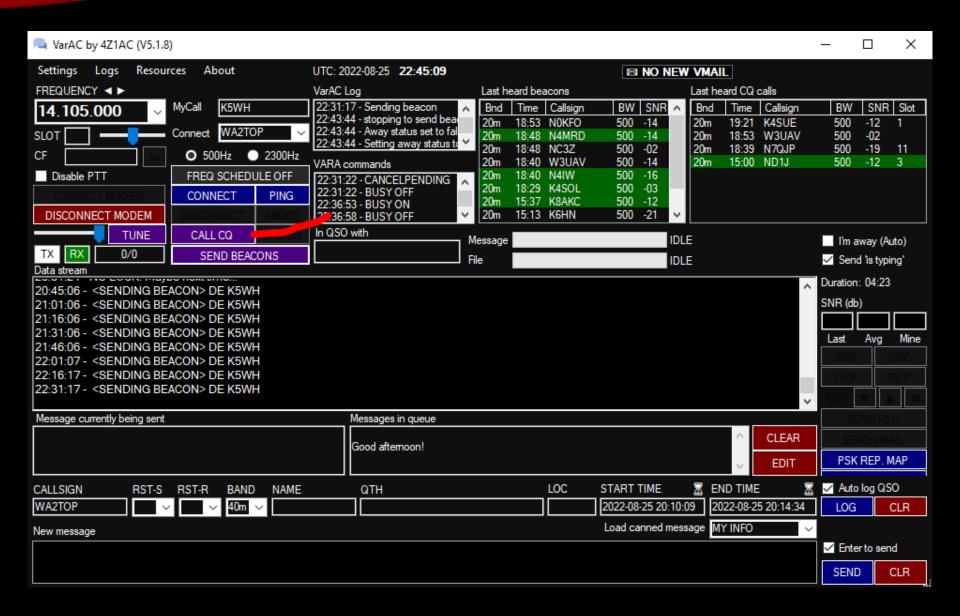
Operational Choices Frequency



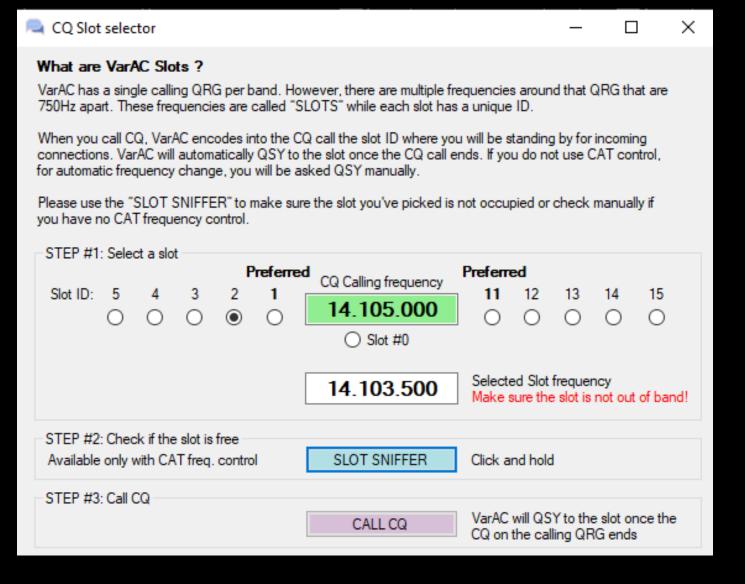
Send Beacons



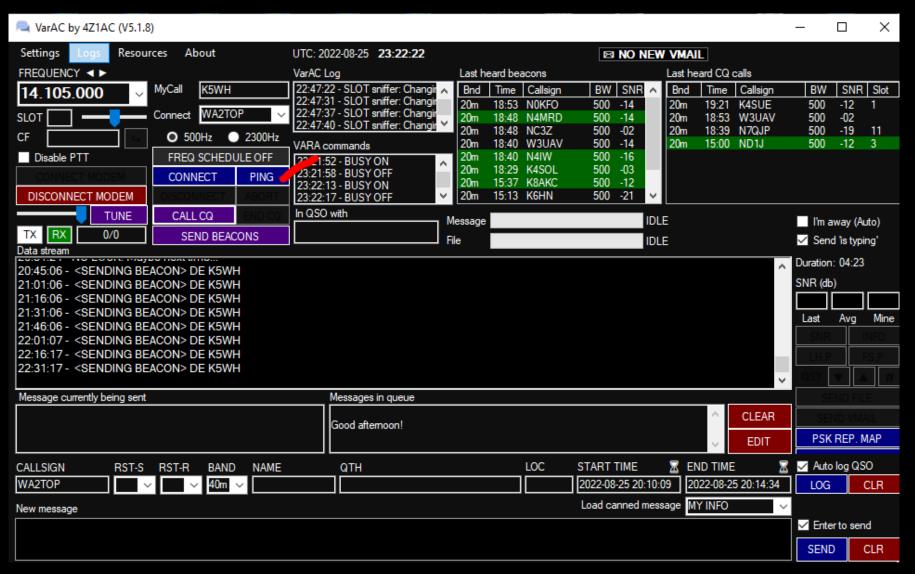
Call CQ



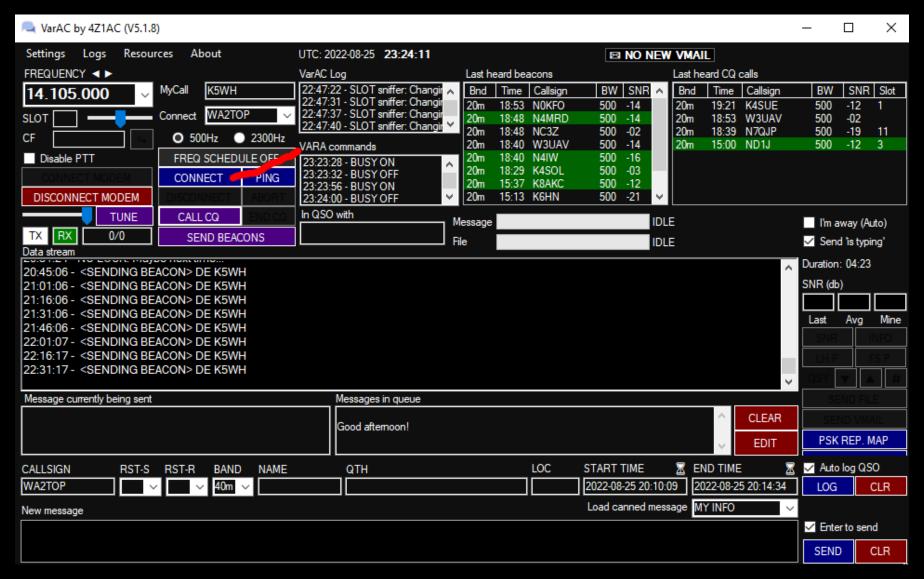
Call CQ Slot Request



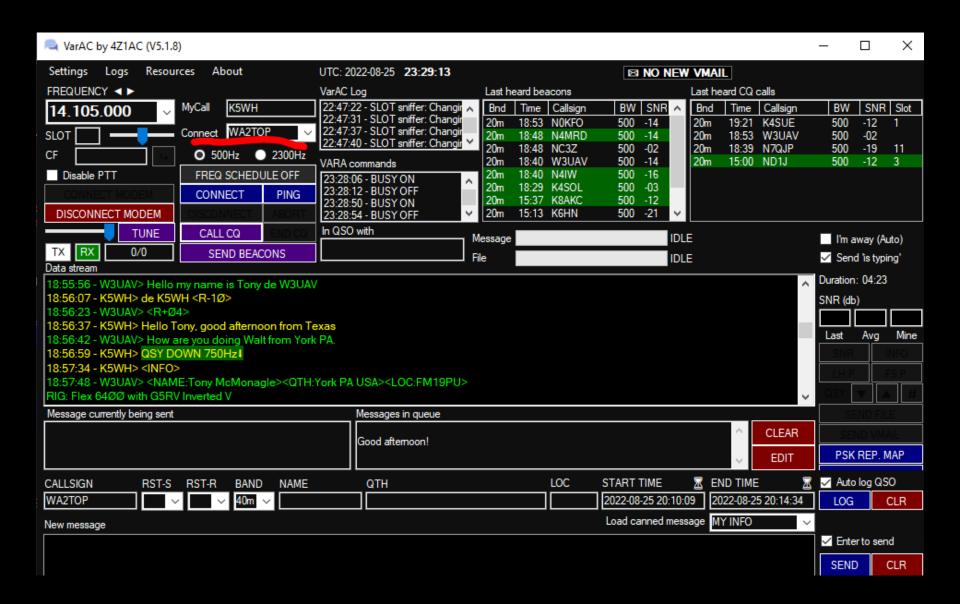
Ping To get a signal report



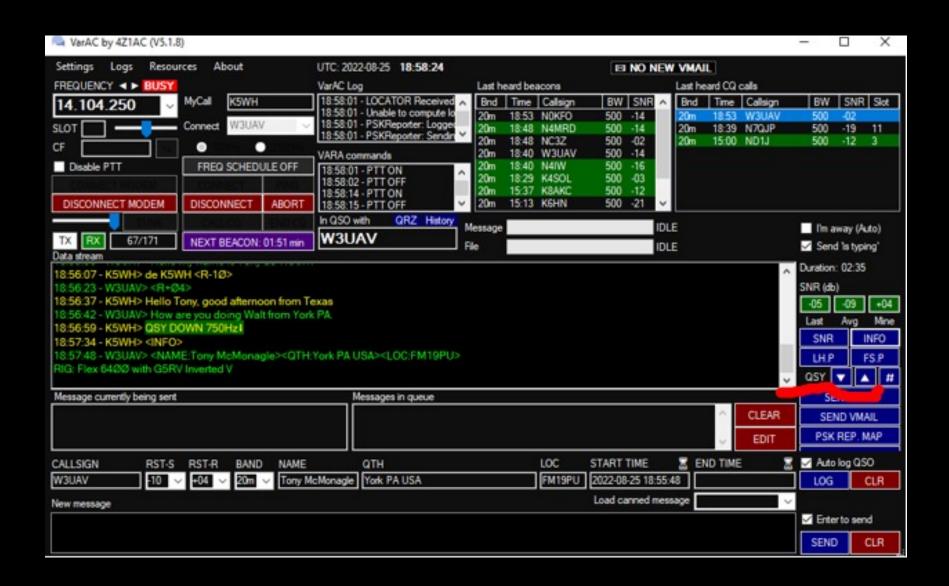
Connect Select a callsign to begin QSO



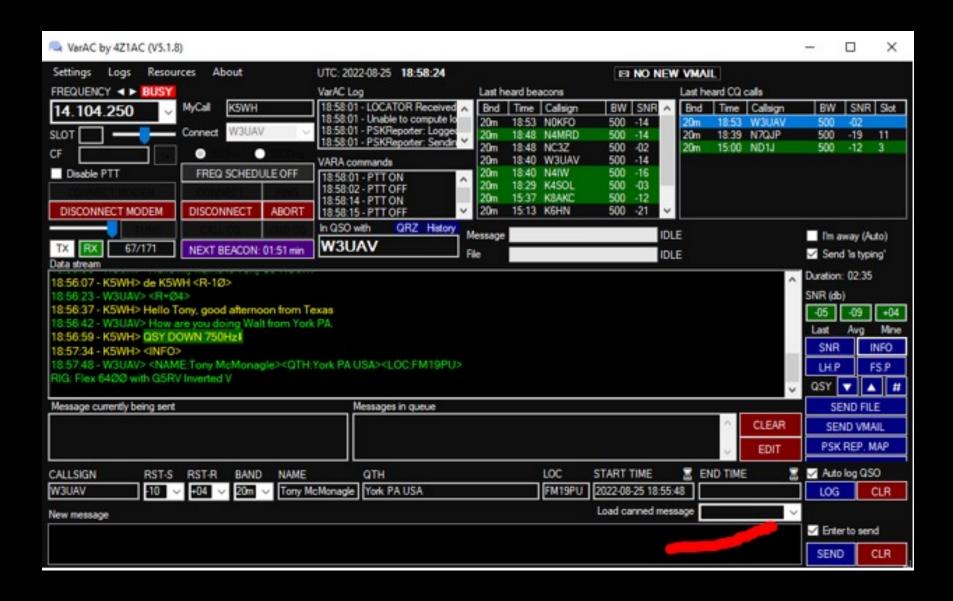
QSO Bandwidth 500hz or 2300hz



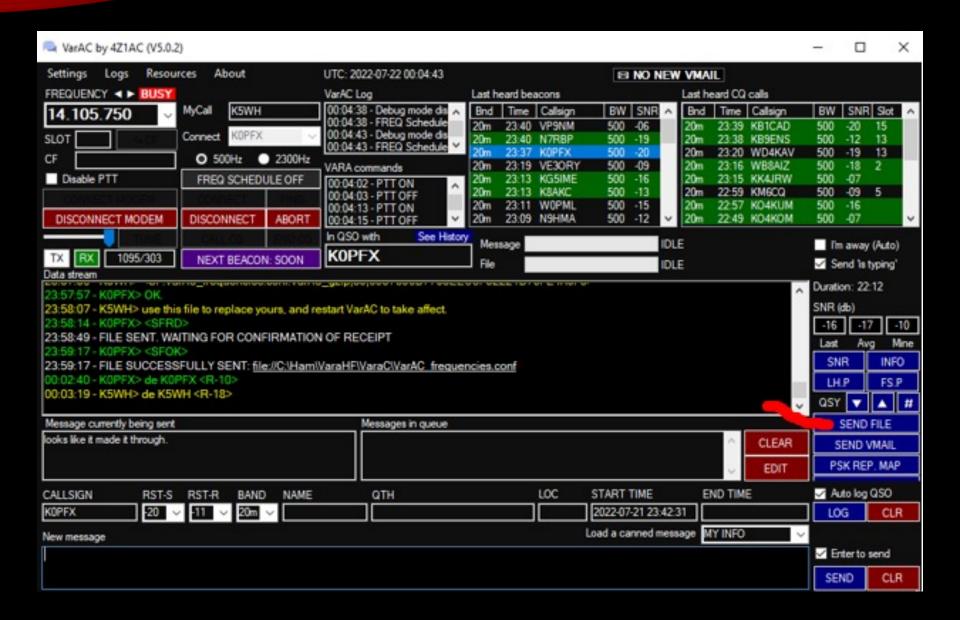
Operational Choices while in QSO QSY Down or UP, off calling frequency



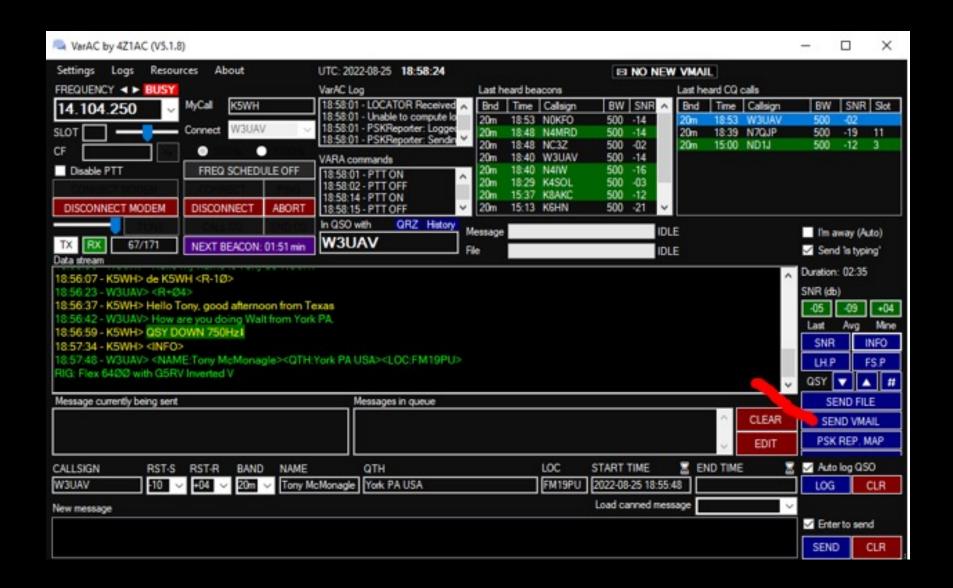
Load canned message



SEND FILE



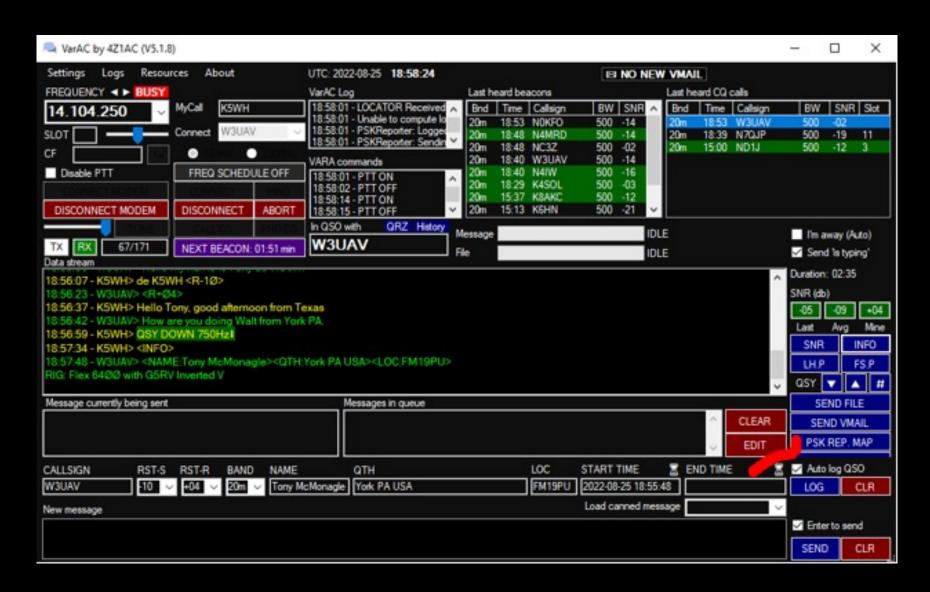
SEND VMAIL



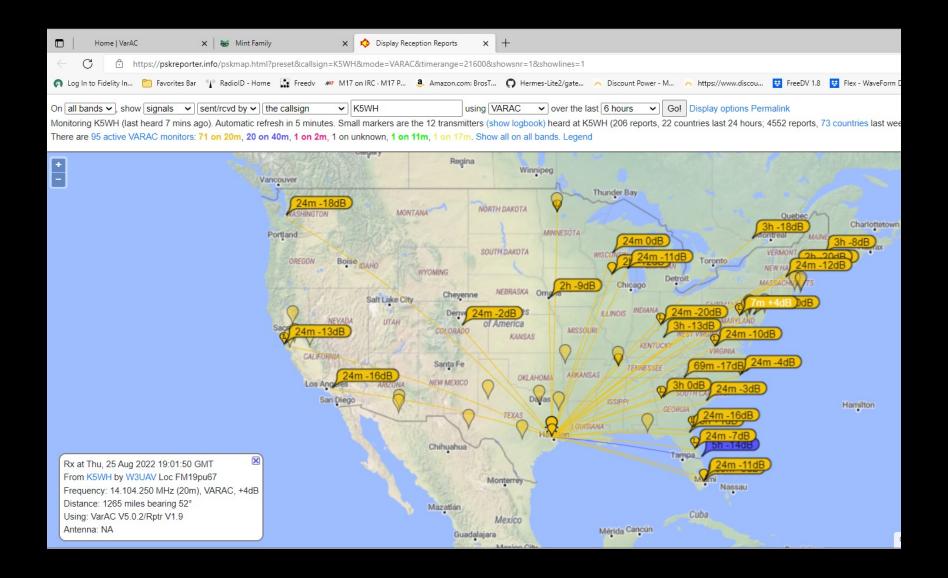
Viewing the Vmail

NarAC	Mailbox	- 1975				77.3.3.3	- 0 X	Slot 11
Status	Time received	▼ To	From	Band	SNR	Subject	Message preview	13
READ	2022-07-26 02:00:45	K5W		20m	-14	Just checking in	Hi Walter. I think we had a QSO	
READ	2022-07-24 23:29:24	K5W		20m	-18		Hi Walter tks fer contact Mandy i	
READ	2022-07-21 20:02:57	K5W		20m	-08	Hi Walter.	Thanks for the note the other da	
READ	2022-07-18 21:50:56	K5W		20m	-15		TOMORROW STRONG SOLAR	
READ	2022-07-17 18:43:21	K5W		20m	-04	Hello	Just trving out VarAC. Hoe to cul	
READ	2022-07-17 16:23:51	K5W		20m	-04	Greetinas	Good Morninal	_
READ	2022-07-15 22:00:12	K5W		20m	+09	FreeDV	Wanted to test out my setup.	lai
READ	2022-07-13 23:27:49	K5W	/H KEOPDU	20m	-08	Greetings	Thought you were attempting to	
READ	2022-07-13 21:21:46	K5W	/H KV4LP	20m	-13		nice contact, excelent sinal ere i	g'
READ	2022-07-12 01:28:42	K5W		20m	-09		Howdy Walter! How goes digital	
READ	2022-07-08 02:22:36	K5W	/H WD4KAV	20m	-14	testina	hi there. Just testing out VarAC	
READ	2022-07-08 02:12:34	K5W	/H KB8CR	20m	-06	Testing repaired antenna	Hi Walt.We had a tornado near	
READ	2022-07-07 16:36:00	K5W	/H W6MDA	20m	-14	Thanks	Thanks for the pinachecking p	-06
READ	2022-07-06 21:10:18	K5W	VH W3UAV	20m	-09	13 Colonies	Hello yvalterJust worked all 13	
READ	2022-07-06 16:10:50	K5W	/H KB0FX	20m	-13	Test	testing the new email feature.	Mine
READ	2022-07-06 01:58:35	K5W	/H W3UAV	20m	-14	Hello from Michigan	Hello Walter. Sitting here with fa	
READ	2022-07-05 21:22:45	K5W	/H NOKFO	20m	-14	Hello from Central FL	Hi Just checking things out	_
READ	2022-07-02 23:31:32	K5W	/H N3MEL	20m	-05		Hi Walter hope all is well in Tx t	
READ	2022-07-01 23:42:02	K5W	/H WD4KAV	20m	-07	HOW ARE THINGS GOING?	HI WALTER. HOW ARE THING	
READ	2022-07-01 20:33:10	K5W	/H KB6CIO	20m	-09	Tnx for message	FYI: I have tried FreeDV daily, N	4
READ	2022-07-01 19:01:50	K5W	/H WOPML	20m	-15	Greetings	Sorry to miss you. But it will be ni	
READ	2022-07-01 16:43:06	K5W	/H W4HTP	20m	+01	Hello, Walter	Have a happy Independence D	
READ	2022-07-01 14:47:11	K5W	VAUSW H	20m	+02	See you today on Zoom	Hello Walter. I fell asleep early v	
READ	2022-06-29 01:05:06	K5W	/H N1DOU	20m	-16	Contact	This is my first connection on Va MA	AP
READ	2022-06-28 00:57:57	K5W	/H K2MO	20m	-12	Testing	Test	
		100				-	90)
			DELETE.			CLOSE	C	LR
			DELETE			CLOSE		
							☑ Enter to send	
								_
							SEND CI	LR

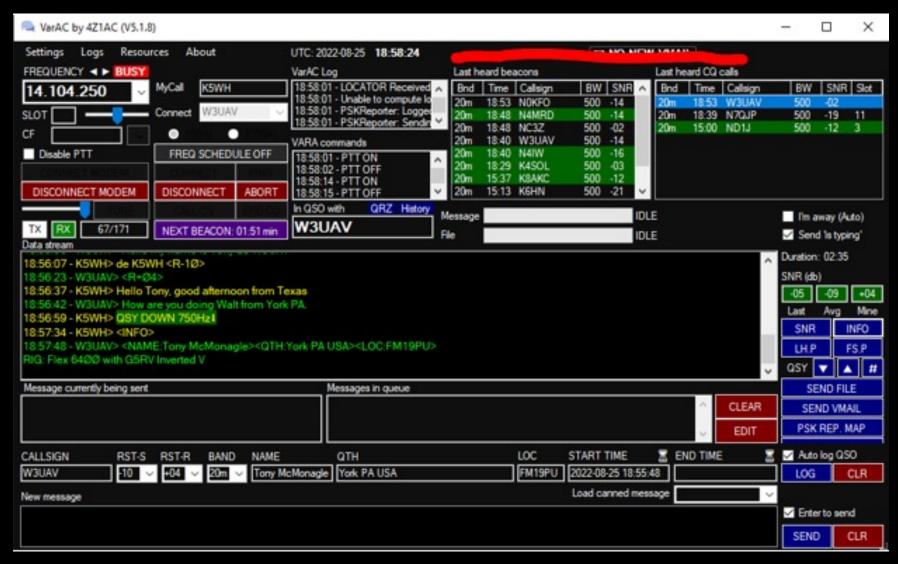
PSK REP. MAP To show stations on PSK Reporter



PSK REP. MAP To show stations on PSK Reporter



Other Features Notice the list of Last Heard beacons and Last heard CQ calls



Right Click on a callsign for options

- Clear
- Copy All
- Ping (get report)
- QRZ.COM lookup
- PSK Reporter lookup
- Callsign History
- QSY to slot

Logs

- QSO Log
- Chat History
- Last Heard Log
- VarAC Log
- Open Logs Directory

Resources

- Quick Start Guide
- User Manuals (EN)
- User Manuals (Non EN)
- VarAC Facebook Group
- VarAC Forum
- Troubleshooting
- FAQ

Further Assistance

- For any follow-up information or configuration assistance, please contact Walter-K5WH
 - walterh@k5wh.net
- Or join us on ZOOM anytime around the clock
 - http://www.k5wh.net/zoom/

