Winlink

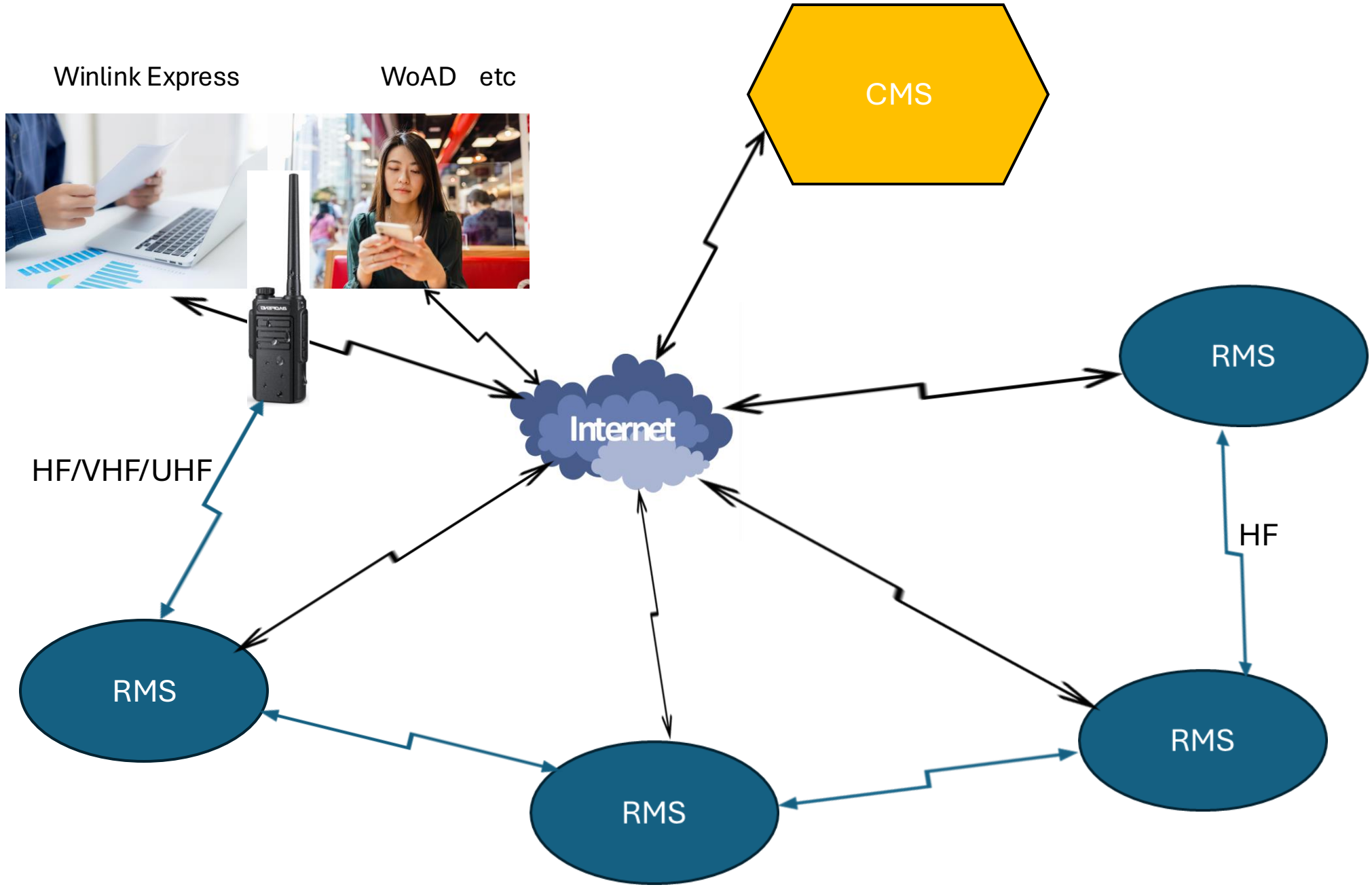
MARC 8 August 2024 ZL3TIL ZL2GBX

Winlink Development History

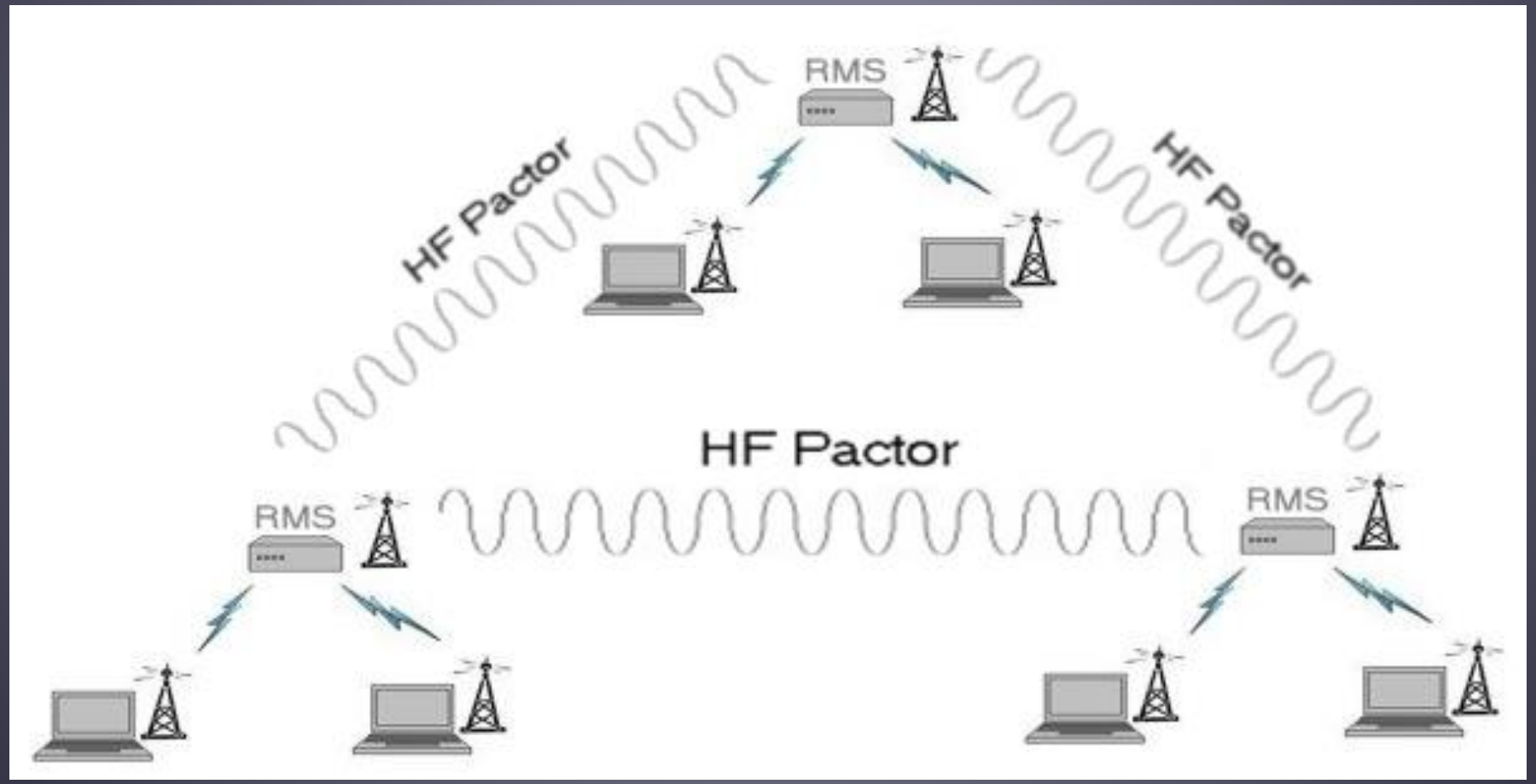
- **Winlink** is a worldwide radio messaging system that uses amateur-band radio frequencies and government frequencies to provide radio interconnection services that include email with attachments, position reporting, weather bulletins, emergency and relief communications, and message relay. The system is built and administered by volunteers and is financially supported by the Amateur Radio Safety Foundation.

Continuity: Lessons Learned

- *Sustaining essential functions* is dependent on the availability of resilient communications systems.
- *Alternative communications* methods are essential.
- *Immediate availability to resilient communication* at primary and alternate locations must be ensured.
- Infrastructure-related outages usually endure for significant periods.
- *Volunteers ("Hams")* can provide important information about the extent of outages via radio by providing situational awareness "ground truth" within specific jurisdictions and beyond.
- *Volunteers resources* may be trained to install, operate and maintain alternate resilient systems, alleviating agency personnel to perform other functions.


Winlink Express
WoAD etc
CMS
Internet
RMS
RMS
RMS
RMS
HF/VHF/UHF
HF

Radio-Only Winlink Network (No Internet - MESH)



Using Winlink

What you need to use Winlink

Winlink Express
[*VARA HF*]

IF YOU CAN DO DIGITAL MODES LIKE FT8 YOU CAN DO WINLINK

Winlink Express 1.7.16.0 - ZL2GBX

ZL2GBX | Settings | Message | Attachments | Move To: Saved Items | Delete | **Open Session:** Vara HF Winlink | Logs | Help

In Vara HF Winlink session.

System Folders

- Inbox (4 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (31)
- Saved Items (0)
- Deleted Items (3)
- Drafts (0)

Personal Folders

Global Folders

Contacts

- AREC_CENTRAL
- AREC_NORTHERN_(AUCKLAND)
- AREC_NORTHERN_(GISBORNE)
- AREC_SOUTHERN_REGION
- AREC-RUWHENUA
- HOME_EMAIL
- HOME_EMAIL2

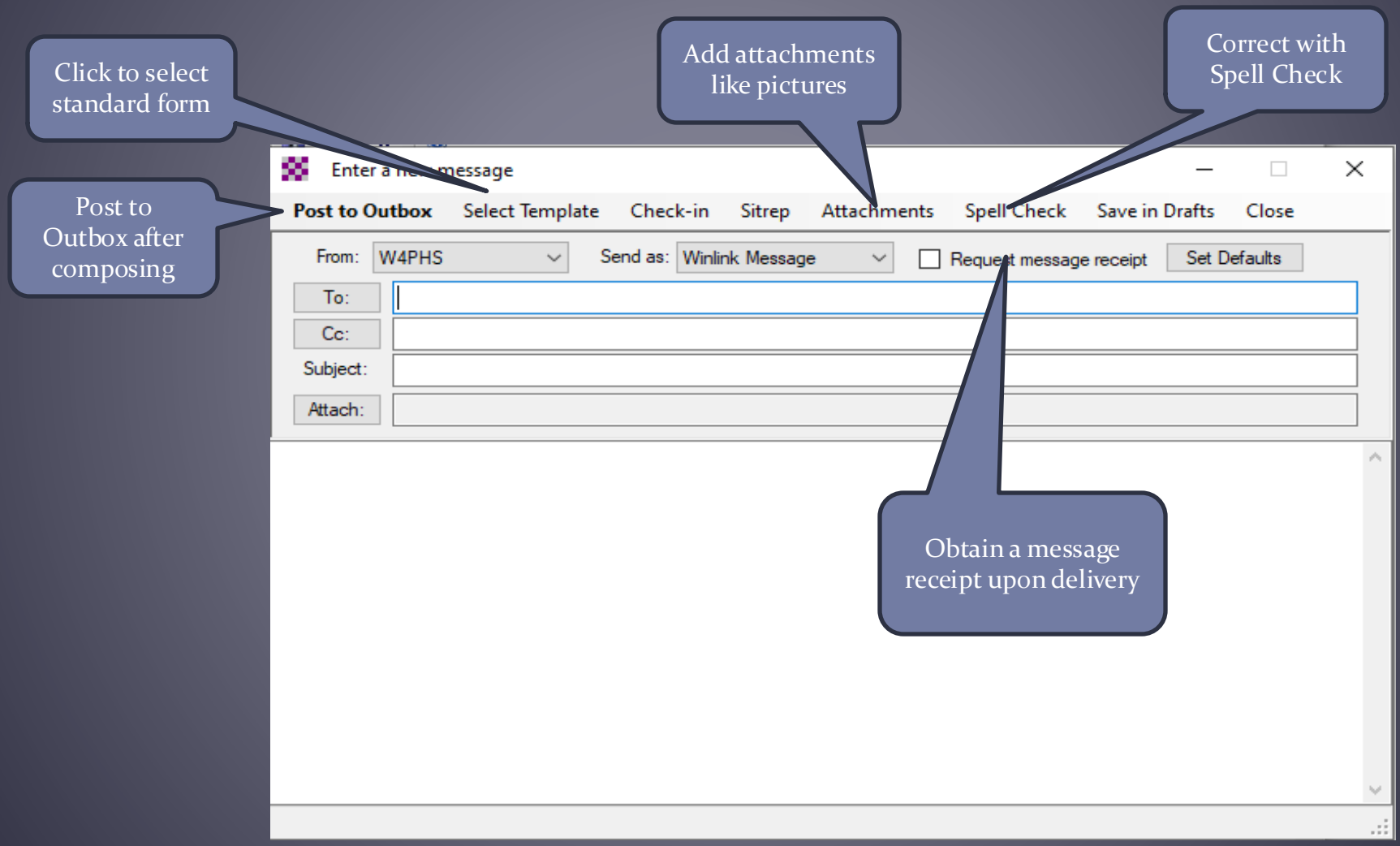
Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2024/06/30 08:00	ZAYQ841GC2GK	31049	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 30.06.24
2024/06/29 17:39	5B9D3LGZRT64	493	AREC-C...	AREC-CHECKIN	ZL2GBX	ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22
2024/06/23 08:02	6HUDT0BVN1L0	54154	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 23.06.24
2024/06/16 07:33	V831W8G5N0BZ	849	ZM1SEA	AREC-CHECKIN	ZK1EBW...	EmComm training Exercise June 20th
2024/06/16 0...	**OBZ3ZLQFR...**	**62763**	**ZM1SEA**	**AREC-CHECKIN**	**ZK1EBW...**	**AREC-Check-In Net Results Dated 16.06.24**
2024/06/16 0...	**BGYZQ2LT6LLJ**	**493**	**AREC-...**	**AREC-CHECKIN**	**ZL2GBX**	**ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22**
2024/06/13 15:56	XJC5HT4QWAF6	535	KN4LQN	KN4LQN	W4JLP...	Winlink Wednesday Net Confirmation (Episode #405)
2024/06/12 18:34	RRLYB7NLMSBT	496	AREC-C...	AREC-CHECKIN	ZL2GBX	ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22

```
Message ID: 5XJ7DBIRWE1G
Date: 2024/03/12 06:25  (UTC)
From: gjbceds@gmail.com
To: ZL2GBX
Source: SMTP
Downloaded-from: RMS:ZL1SEA
Subject: Re: testing 54321

The quick brown fox jumped over the lazy dogs eh

On Tue, 12 Mar 2024, 7:23 pm , <ZL2GBX@winlink.org> wrote:

> Blh The quick btrown fox jumps over the lazy dog
>
>
```

Type here to search

ENG 08:34 26/07/2024

Composing a Message



Winlink Express 1.7.16.0 - ZL2GBX

ZL2GBX | Settings | Message | Attachments | Move To: Saved Items | Delete | **Open Session:** Vara HF Winlink | Logs | Help

In Vara HF Winlink session.

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- AREC_SOUTHERN_REGION
- AREC-RUWHENUA
- HOME_EMAIL
- HOME_EMAIL2

Enter a new message

Post to Outbox | Select Template | Attachments | Spell Check | Save in Drafts | Close

From: ZL2GBX | Send as: Winlink Message | Request message receipt | Set D

To:

Cc:

Subject:

Attach:

Subject
AREC-Check-In Net Results Dated 30.06.24
ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22
AREC-Check-In Net Results Dated 23.06.24
EmComm training Exercise June 20th
AREC-Check-In Net Results Dated 16.06.24
ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22
Winlink Wednesday Net Confirmation (Episode #405)
ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22

Type here to search

ENG 08:35 26/07/2024

Winlink Express 1.7.17.0 - ZL2GBX

ZL2GBX | Settings | Message | Attachments | Move To: Saved Items | Delete | **Open Session:** Vara FM Winlink | Logs | Help

No active session...

System Folders

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- Outbox (0)
- Sent Items (33)
- Saved Items (0)
- Deleted Items (3)
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- AREC-RUWHENUA
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- HOME_EMAIL2

Date/Time	Message ID	Size	Source	Sender	
2024/07/26 08:45	OH3A0XF24Q8C	49508	SMTP	SMTP:gjbarton@...	
2024/07/26 02:21	33FGLD5JIQUU	806	KN4LQN	KN4LQN	ednesday Roster Published (24 July 2024, Episode #411)
2024/07/25 15:42	QRYQ2G6RIDBL	703	KN4LQN	KN4LQN	ednesday Net Confirmation (Episode #411)
2024/07/25 06:22	01SI25ZFVWTC	1118	ZM1SEA	ZM1SEA	raining Organization - Excersise
2024/06/30 08:00	ZAYQ841GC2GK	31049	ZM1SEA	AREC-CHECKIN	ck-In Net Results Dated 30.06.24
2024/06/29 17:39	5B9D3LGZRT64	493	AREC-C...	AREC-CHECKIN	nk Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim - Branch 22
2024/06/23 08:02	6HUDT0BVN1L0	54154	ZM1SEA	AREC-CHECKIN	ck-In Net Results Dated 23.06.24
2024/06/16 07:33	V831W8G5N0BZ	849	ZM1SEA	AREC-CHECKIN	aining Exercise June 20th

Vara FM Winlink dropdown:

- Telnet Winlink
- Packet Winlink
- Pactor Winlink
- Robust Packet Winlink
- Ardop Winlink
- Vara HF Winlink
- Vara FM Winlink
- Iridium GO Winlink
- ---
- Packet P2P
- Pactor P2P
- Robust Packet P2P
- Ardop P2P
- Vara HF P2P
- Vara FM P2P
- Telnet P2P
- ---
- Pactor Radio-only
- Vara HF Radio-only
- Vara FM Radio-only
- Telnet Radio-only
- ---
- Telnet Post Office

```
Message ID: 5XJ7DBIRWE1G
Date: 2024/03/12 06:25  (UTC)
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To: ZL2GBX
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> Blh The quick btrown fox jumps over the lazy dog
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Type here to search | ENG | 11:11 29/07/2024

Winlink Express 1.7.17.0 - ZL2GBX

ZL2GBX | Settings | Message | Attachments | Move To: Saved Items | Delete | Open Session: Vara HF Winlink | Logs | Help

In Vara HF Winlink session.

System Folders

- Inbox (16 unread)
- Read Items (0)
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- Sent Items (63)
- Saved Items (0)
- Deleted Items (11)
- Drafts (0)

Personal Folders

- Emcomm (5)

Global Folders

Contacts

- DON_LAING
- ETO-DX
- GARY_LODGE
- GREG_J_BARTON
- JOHN_ERRINGTON
- PAUL_RENNIE

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2024/07/28 07:55	HMZ0TTBTJPWH	49318	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 28.07.24
2024/07/28 0...	**YE6UOMKL8...**	**498**	**ZM1SEA**	**AREC-CHECKIN**	**ZL2GBX**	**ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QT**
2024/07/24 05:56	6EX3IXQE11RK	1384	ZM1SEA	ZM1SEA	ZL2GBX	Re: Marlborough
2024/07/21 07:29	817QUHQSP8MF	96092	ZM1SEA	ZM1SEA	ZL4ROB...	AREC-Check-In Net Results Dated 21.07.24 Special Update
2024/07/21 07:14	M5IY9XYGXC8L	83165	ZM1SEA	AREC-CHECKIN	ZL4ROB...	AREC-Check-In Net Results Dated 21.07.24
2024/07/21 06:50	5BUIJAQNHN9H	987	ZM1SEA	AREC-CHECKIN	ZL2GBX	Re: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim
2024/07/20 07:20	V1GLQ7F23AXY	1097	ZL2SEA	ZL2SEA	ZL2GBX	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/20 07:00	2772VUBAS2TT	630	ZM1SEA	AREC-CHECKIN	ZK1EBW...	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/20 06:29	YDMDDK427OZ0	1108	ZM1SEA	AREC-CHECKIN	ZL2GBX	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/19 21:14	8N8X41371P6A	1022	ZL2TBD	ZL2TBD	AREC-CHECKIN...	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/19 0...	**64CZWZ7GA...**	**475**	**KN4LQN**	**KN4LQN**	**ZL2GBX...**	**Winlink Wednesday Roster Published (17 July 2024, Ep**
2024/07/18 1...	**2KVIKMKCT2LB**	**377**	**KN4LQN**	**KN4LQN**	**ZL2ATH...**	**Winlink Wednesday Net Confirmation (Episode #410)**
2024/07/18 08:43	AFEKROSDD96N	634	ZM1SEA	AREC-CHECKIN	ZK1EBW...	ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/16 11:31	I7IRVRL2FTVA	1609	KN4LQN	KN4LQN	XE1PAS...	Winlink Wednesday Reminder (#410)
2024/07/14 16:24	DBEVE7GRHQO2	32787	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 14.07.24
2024/07/07 07:26	6JEO2KK46JC2	31697	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 07.07.24
2024/07/05 0...	**LB2B8DSIF8MR**	**484**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Roster Published (3 July 2024, Epis**
2024/07/04 1...	**4CJ6I2F5CLB8**	**382**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Net Confirmation (Episode #408)**
2024/07/02 11:34	OI54DLLMNOKA	1612	KN4LQN	KN4LQN	YV5BRB...	Winlink Wednesday Reminder (#408)

```
Message ID: E96C7UQ3JYBM
Date: 2024/03/10 08:47  (UTC)
From: gjbceds@gmail.com
To: ZL2GBX
Source: SMTP
Downloaded-from: RMS:ZL1SEA
Subject: Return test 3

Testing testing testing 0987654321
```

Vara HF Winlink Session - ZL2GBX

Exit | Settings | Channel Selection | Map | Forecast | **Auto-connect** | Next chan. | **Start** | Stop | **Abort**

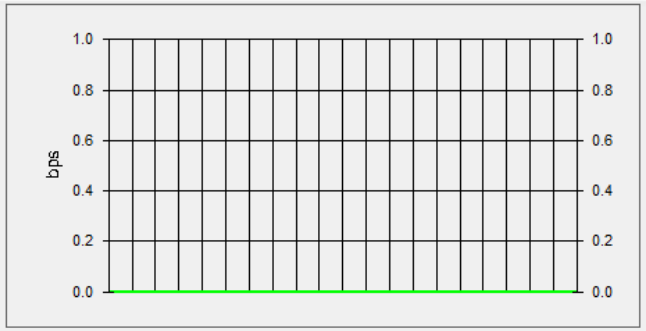
ZL2TBD | Center Freq: 7155.000 | Dial Freq: 7153.500 | Bandwidth: 2750 | Bearing: 240 | Quality: 53

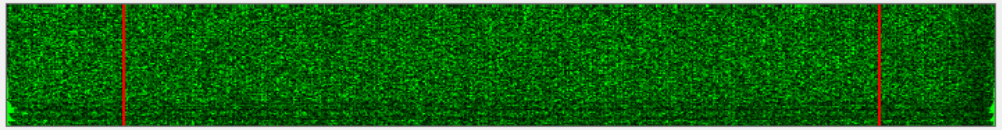
Favorites: | Select | Add to favorites | Remove from favorites

Channel Free | In: 0/0 Out: 0/0 BPM: 0/0 Disconnected

```
*** Launching VARA TNC
*** Successfully connected to VARA TNC at 127.0.0.1 port 8300
*** Maximum signal bandwidth is set to 2300 Hz.
*** Using Icom 7300, COM3, 19200 baud
*** Ready
*** This is a registered version of Vara TNC that can operate at full speed.
```

Settings | View | Log* | Monitor | Help





RX | Disconnected | 2300 | LISTEN | TCP | DCD

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2024/07/19 0...	**64CZWZ7GA...**	**475**	**KN4LQN**	**KN4LQN**	**ZL2GBX...**	**Winlink Wednesday Roster Published (17 July 2024, Ep**
2024/07/18 1...	**2KVIKMKCT2LB**	**377**	**KN4LQN**	**KN4LQN**	**ZL2ATH...**	**Winlink Wednesday Net Confirmation (Episode #410)**
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2024/07/07 07:26	6JEO2KK46JC2	31697	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 07.07.24
2024/07/05 0...	**LB2B8DSIF8MR**	**484**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Roster Published (3 July 2024, Epis**
2024/07/04 1...	**4CJ6I2F5CLB8**	**382**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Net Confirmation (Episode #408)**
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To: ZL2GBX
Source: SMTP
Downloaded-from: RMS:ZL1SEA
Subject: Return test 3

Testing testing testing 0987654321
```
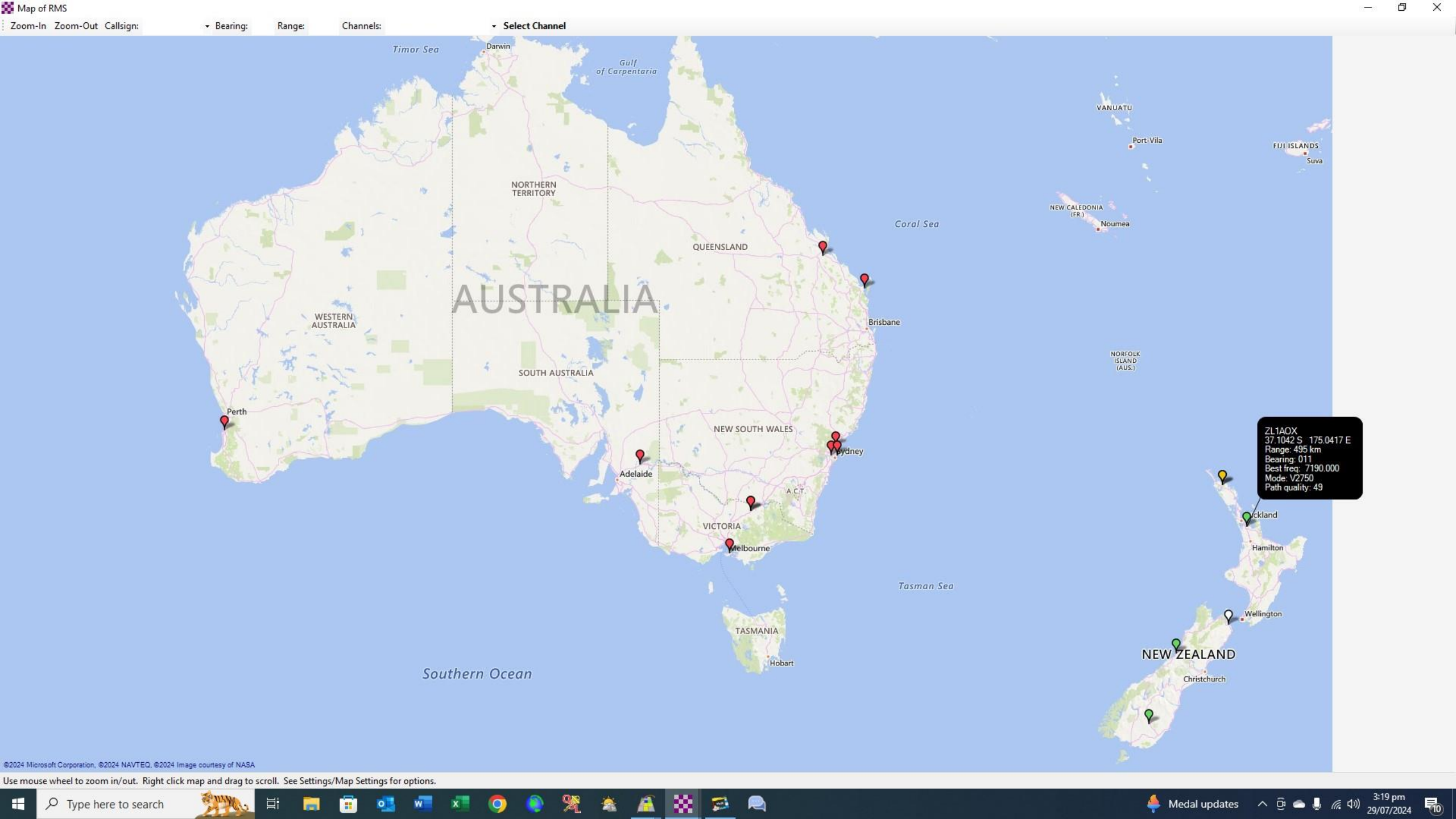
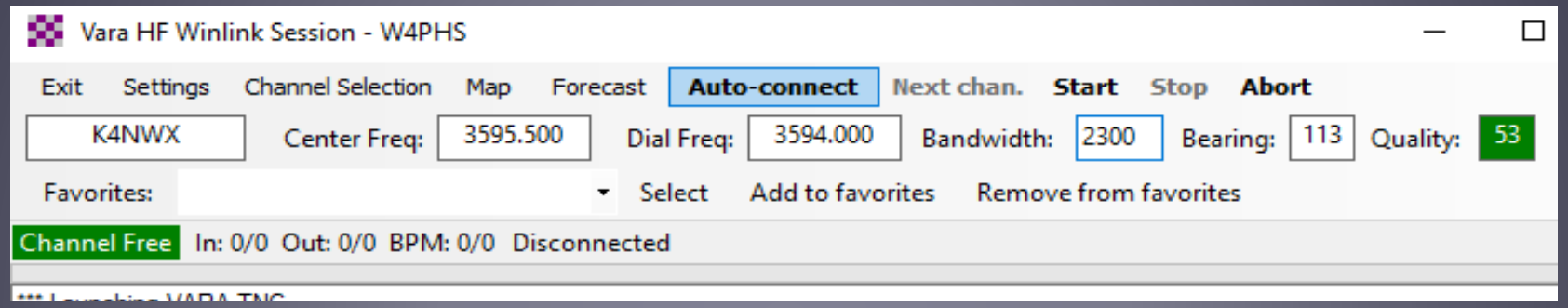

HF Channel Selector

Select Channel | Update Via Internet | Update Via Radio | Map | Forecast | SFI | Exit | All RMS

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (km)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
ZL2TBD	7175.000	V2750	RE57LG	00-23	PUBLIC	284	240	95	53
ZL2TBD	14105.000	V2750	RE57LG	00-23	PUBLIC	284	240	0	0
ZL2TBD	14150.000	V2750	RE57LG	00-23	PUBLIC	284	240	0	0
ZL2TBD	7155.000	V2750	RE57LG	00-23	PUBLIC	284	240	95	53
ZL2TBD	7165.000	V2750	RE57LG	00-23	PUBLIC	284	240	95	53
ZL1AOX	7215.000	V2750	RF72MV	00-23	PUBLIC	495	011	85	49
ZL1AOX	7190.000	V2750	RF72MV	00-23	PUBLIC	495	011	85	49
ZL1AOX	7195.000	V2750	RF72MV	00-23	PUBLIC	495	011	85	49
ZL1AOX	14130.000	V2750	RF72MV	00-23	PUBLIC	495	011	6	10
ZL4RMS	21424.000	V2300	RE44QI	00-23	PUBLIC	592	217	0	0
ZL4RMS	7136.000	V2300	RE44QI	00-23	PUBLIC	592	217	81	48
ZL4RMS	3621.500	V2300	RE44QI	00-23	PUBLIC	592	217	0	20
ZL4RMS	7146.000	V2300	RE44QI	00-23	PUBLIC	592	217	81	48
ZL4RMS	14124.000	V2300	RE44QI	00-23	PUBLIC	592	217	22	28
ZL4RMS	14134.000	V2300	RE44QI	00-23	PUBLIC	592	217	22	27
ZL2SEA	3591.500	V2750	RF64TU	00-23	PUBLIC	704	358	0	1
ZL1SEA	3657.000	V2750	RF64TU	06-04	PUBLIC	704	358	0	12
ZL1SEA	7187.000	V2750	RF64TU	06-04	PUBLIC	704	358	71	45
ZL1SEA	1847.000	V2750	RF64TU	06-04	PUBLIC	704	358	0	0
ZL2SEA	21427.000	V2750	RF64TU	00-23	PUBLIC	704	358	0	0
ZL2SEA	18137.000	V2750	RF64TU	00-23	PUBLIC	704	358	0	0
ZL2SEA	14137.000	V2750	RF64TU	00-23	PUBLIC	704	358	34	34
ZL1SEA	3647.000	V2750	RF64TU	06-04	PUBLIC	704	358	0	11
ZL1SEA	3717.000	V2750	RF64TU	06-04	PUBLIC	704	358	0	12
ZL2SEA	14127.000	V2750	RF64TU	00-23	PUBLIC	704	358	34	35
ZL1SEA	7133.000	V2750	RF64TU	06-04	PUBLIC	704	358	70	45
ZL1SEA	7143.000	V2750	RF64TU	06-04	PUBLIC	704	358	70	45
ZL2SEA	7143.000	V2750	RF64TU	00-23	PUBLIC	704	358	70	45
ZL2SEA	7133.000	V2750	RF64TU	00-23	PUBLIC	704	358	70	45
VK2RZ	10146.400	V2750	QF56PG	00-23	PUBLIC	2165	286	1	25
VK2RZ	21086.400	V2750	QF56PG	00-23	PUBLIC	2165	286	0	0
VK2RZ	7045.000	V2750	QF56PG	00-23	PUBLIC	2165	286	0	0
VK2RZ	18115.000	V2750	QF56PG	00-23	PUBLIC	2165	286	5	6
VK2RZ	14103.000	V2750	QF56PG	00-23	PUBLIC	2165	286	15	34
VK2IO	7046.500	V2300	QF56LG	00-23	PUBLIC	2191	286	0	0
VK2EHQ	3569.500	V2750	QF56OR	00-23	PUBLIC	2197	287	0	0
VK2EHQ	7063.000	V2750	QF56OR	00-23	PUBLIC	2197	287	0	0
VK3MIT	21080.500	V2750	QF33DP	00-23	PUBLIC	2447	274	0	0
VK3MTI	3577.000	V2750	QF33DP	00-23	PUBLIC	2447	274	0	0
VK3MIT	7056.500	V2750	QF33DP	00-23	PUBLIC	2447	274	0	0
VK3MIT	14103.500	V2750	QF33DP	00-23	PUBLIC	2447	274	14	33


Map of RMS
Zoom-In Zoom-Out Callsign: Bearing: Range: Channels: Select Channel
Timor Sea
Darwin
Gulf of Carpentaria
VANUATU
Port-Vila
FIJI ISLANDS
Suva
NORTHERN TERRITORY
NEW CALEDONIA (FR.)
Noumea
Coral Sea
QUEENSLAND
AUSTRALIA
WESTERN AUSTRALIA
Brisbane
NORFOLK ISLAND (AUS.)
SOUTH AUSTRALIA
Perth
NEW SOUTH WALES
Sydney
Adelaide
A.C.T.
VICTORIA
Melbourne
Tasman Sea
Hamilton
Wellington
TASMANIA
NEW ZEALAND
Hobart
Christchurch
Southern Ocean
ZL1AOX
37.1042 S 175.0417 E
Range: 495 km
Bearing: 011
Best freq: 7190.000
Mode: V2750
Path quality: 49
©2024 Microsoft Corporation, ©2024 NAVTEQ, ©2024 Image courtesy of NASA
Use mouse wheel to zoom in/out. Right click map and drag to scroll. See Settings/Map Settings for options.
Type here to search
Medal updates
3:19 pm
29/07/2024

Using “Auto-connect” to Select RMS



- Click “Auto-connect” to tell Winlink Express to start trying channels in decreasing order of connection quality. Busy channels are skipped automatically.
- Quality estimate is based on several things:
  - Computed propagation quality
  - Success/Failure history for channel
  - Relative Signal/Noise history

Winlink Express 1.7.17.0 - ZL2GBX

ZL2GBX | Settings | Message | Attachments | Move To: Saved Items | Delete | Open Session: Vara HF Winlink | Logs | Help

In Vara HF Winlink session.

System Folders

- Inbox (16 unread)
- Read Items (0)
- Outbox (0)
- Sent Items (63)
- Saved Items (0)
- Deleted Items (11)
- Drafts (0)

Personal Folders

- Emcomm (5)

Global Folders

Contacts

- DON_LAING
- ETO-DX
- GARY_LODGE
- GREG_J_BARTON
- JOHN_ERRINGTON
- PAUL_RENNIE

Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
2024/07/28 07:55	HMZ0TTBTJPWH	49318	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 28.07.24
2024/07/28 0...	**YE6UOMKL8...**	**498**	**ZM1SEA**	**AREC-CHECKIN**	**ZL2GBX**	**ACK: Winlink Check-in EXERCISE - ZL2GBX - Home QT**
2024/07/24 05:56	6EX3IXQE11RK	1384	ZM1SEA	ZM1SEA	ZL2GBX	Re: Marlborough
2024/07/21 07:29	817QUHQSP8MF	96092	ZM1SEA	ZM1SEA	ZL4ROB...	AREC-Check-In Net Results Dated 21.07.24 Special Update
2024/07/21 07:14	M5IY9XYGXC8L	83165	ZM1SEA	AREC-CHECKIN	ZL4ROB...	AREC-Check-In Net Results Dated 21.07.24
2024/07/21 06:50	5BUIJAQNHN9H	987	ZM1SEA	AREC-CHECKIN	ZL2GBX	Re: Winlink Check-in EXERCISE - ZL2GBX - Home QTH, Blenheim
2024/07/20 07:20	V1GLQ7F23AXY	1097	ZL2SEA	ZL2SEA	ZL2GBX	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/20 07:00	2772VUBAS2TT	630	ZM1SEA	AREC-CHECKIN	ZK1EBW...	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/20 06:29	YDMDDK427OZ0	1108	ZM1SEA	AREC-CHECKIN	ZL2GBX	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/19 21:14	8N8X41371P6A	1022	ZL2TBD	ZL2TBD	AREC-CHECKIN...	Re:ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/19 0...	**64CZWZ7GA...**	**475**	**KN4LQN**	**KN4LQN**	**ZL2GBX...**	**Winlink Wednesday Roster Published (17 July 2024, Ep**
2024/07/18 1...	**2KVIKMKCT2LB**	**377**	**KN4LQN**	**KN4LQN**	**ZL2ATH...**	**Winlink Wednesday Net Confirmation (Episode #410)**
2024/07/18 08:43	AFEKROSDD96N	634	ZM1SEA	AREC-CHECKIN	ZK1EBW...	ZL2TBD New HF Winlink Gateway at Hokitika
2024/07/16 11:31	I7IRVRL2FTVA	1609	KN4LQN	KN4LQN	XE1PAS...	Winlink Wednesday Reminder (#410)
2024/07/14 16:24	DBEVE7GRHQO2	32787	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 14.07.24
2024/07/07 07:26	6JEO2KK46JC2	31697	ZM1SEA	AREC-CHECKIN	ZK1EBW...	AREC-Check-In Net Results Dated 07.07.24
2024/07/05 0...	**LB2B8DSIF8MR**	**484**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Roster Published (3 July 2024, Epis**
2024/07/04 1...	**4CJ6I2F5CLB8**	**382**	**KN4LQN**	**KN4LQN**	**ZL1BQA...**	**Winlink Wednesday Net Confirmation (Episode #408)**
2024/07/02 11:34	OI54DLLMNOKA	1612	KN4LQN	KN4LQN	YV5BRB...	Winlink Wednesday Reminder (#408)

```
Message ID: E96C7UQ3JYBM
Date: 2024/03/10 08:47  (UTC)
From: gjbceds@gmail.com
To: ZL2GBX
Source: SMTP
Downloaded-from: RMS:ZL1SEA
Subject: Return test 3

Testing testing testing 0987654321
```

Vara HF Winlink Session - ZL2GBX

Exit | Settings | Channel Selection | Map | Forecast | **Auto-connect** | Next chan. | **Start** | Stop | **Abort**

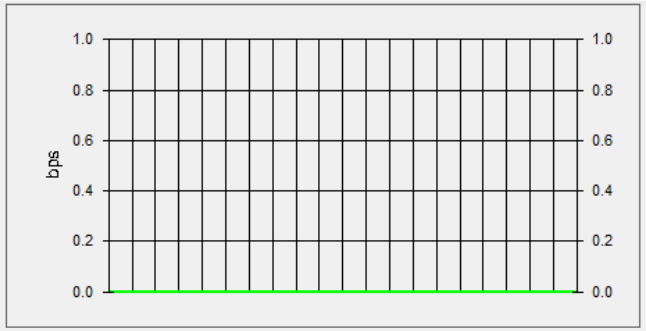
ZL2TBD | Center Freq: 7155.000 | Dial Freq: 7153.500 | Bandwidth: 2750 | Bearing: 240 | Quality: 53

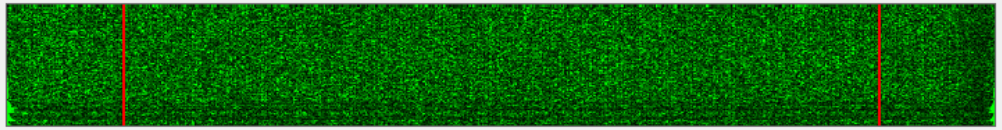
Favorites: | Select | Add to favorites | Remove from favorites

Channel Free | In: 0/0 Out: 0/0 BPM: 0/0 Disconnected

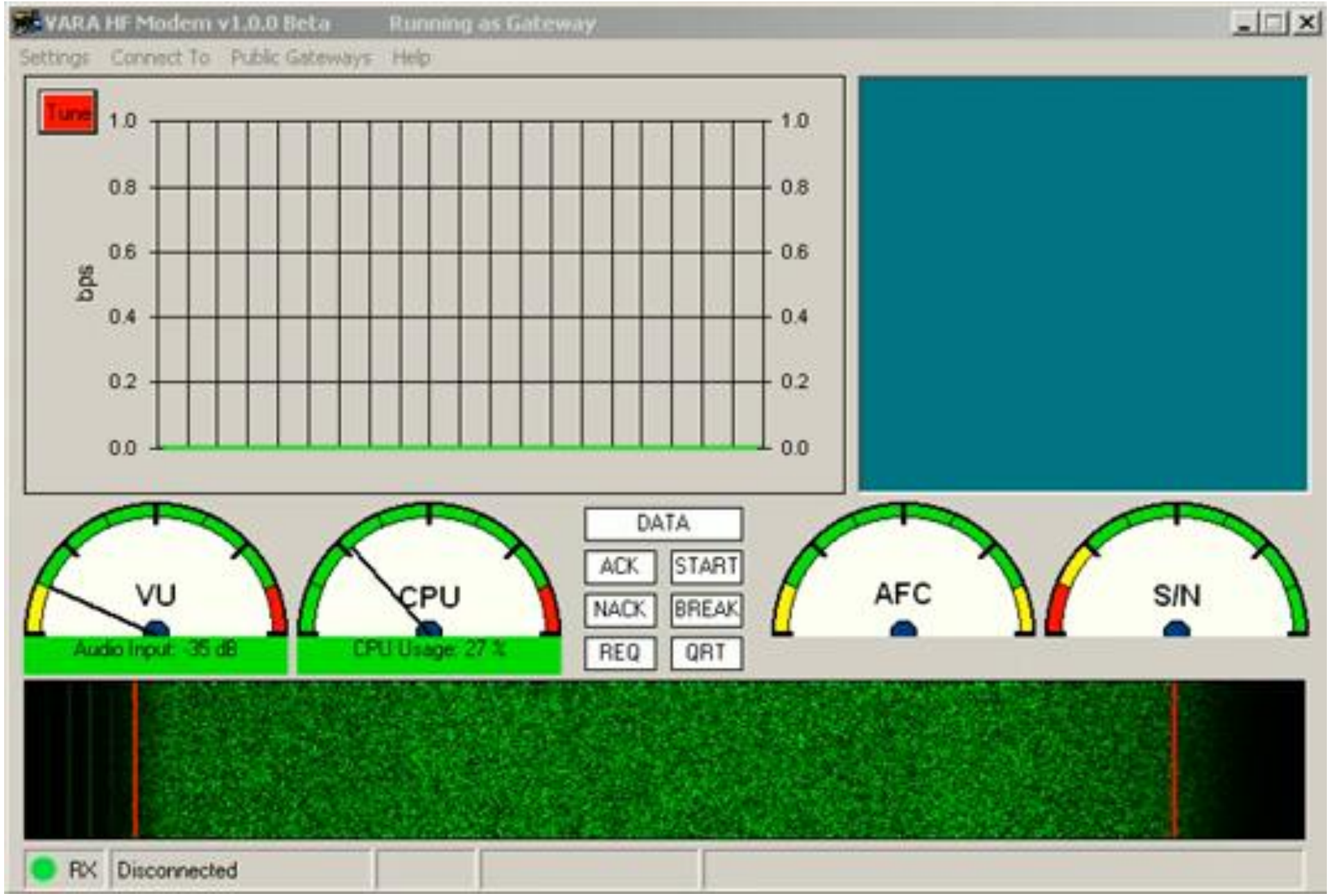
```
*** Launching VARA TNC
*** Successfully connected to VARA TNC at 127.0.0.1 port 8300
*** Maximum signal bandwidth is set to 2300 Hz.
*** Using Icom 7300, COM3, 19200 baud
*** Ready
*** This is a registered version of Vara TNC that can operate at full speed.
```

Settings | View | Log* | Monitor | Help



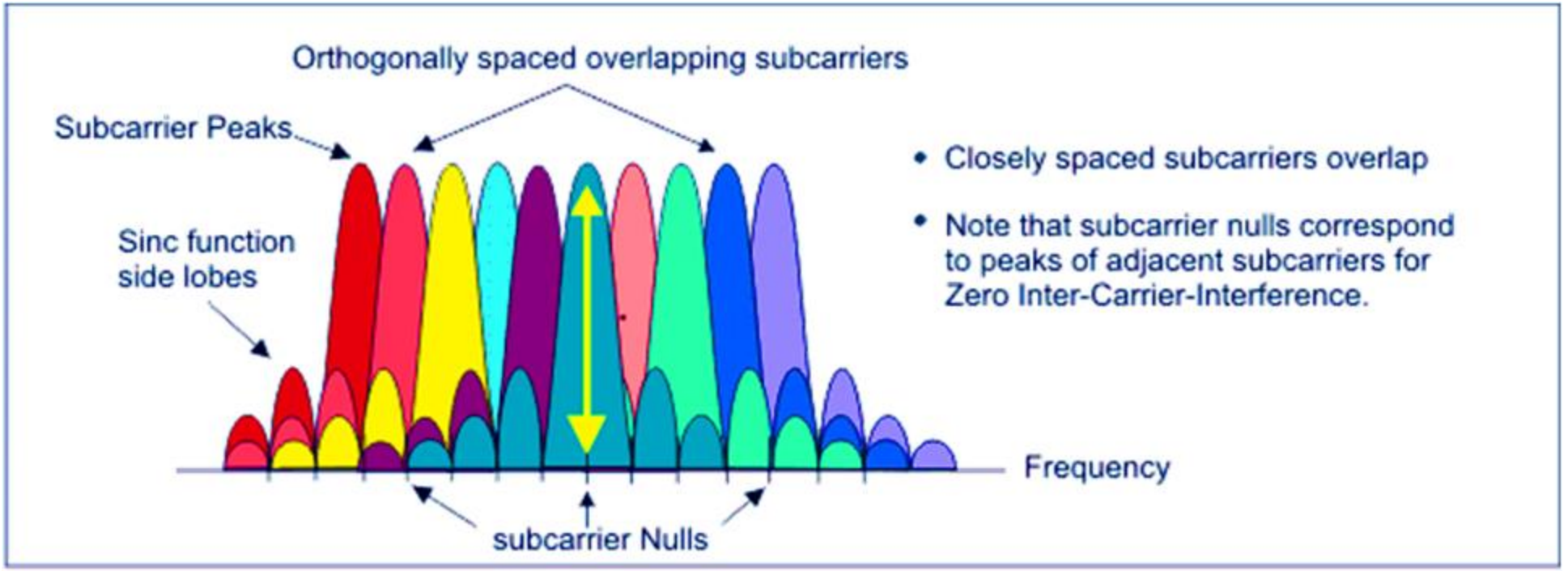


RX | Disconnected | 2300 | LISTEN | TCP | DCD


YARA HF Modem v1.0.0 Beta
Running as Gateway
Settings
Connect To
Public Gateways
Help
Tune
1.0
0.8
0.6
0.4
0.2
0.0
bps
VU
CPU
Audio Input: -35 dB
CPU Usage: 27 %
DATA
ACK
START
NACK
BREAK
REQ
QRT
AFC
S/N
RX
Disconnected

VARA

Level	Symbol Rate	Carriers	Mod.	Bytes / Packet	Net Data Rate	User Data Rate
1	37,5	52	BPSK	20	35	29
2	37,5	52	BPSK	32	54	45
3	37,5	52	BPSK	71	113	94
4	37,5	52	BPSK	150	234	194
5	37,5	52	BPSK	308	476	395
6	37,5	52	BPSK	626	963	799
7	37,5	52	4PSK	1257	1929	1601
8	37,5	52	8PSK	1887	2893	2401
9	37,5	52	16QAM	2951	4521	3752
10	37,5	52	32QAM	3690	5653	4692
11	37,5	52	32QAM	4428	6782	5629



OFDM Signal Frequency Spectra

Setting up a Winlink Client

Google is your friend – there are many hardware-specific tutorials

Download Winlink Express if on PC
Download WoAD if android-based
Download VARA (HF/FM) as required

Setup is reasonably straightforward – sometimes getting audio levels correct is tricky
Beware there are settings in both Winlink Express and VARA etc, and in the radio.

Connection between computer and radio ranges from simple to complex
(but remember Google will help!)

Once setup and working document/record all settings