



FIVE AND NINE PLUS

THE OFFICIAL NEWSLETTER OF THE APPLEDORE AND DISTRICT AMATEUR RADIO CLUB

Club Callsigns: G2FKO and GX2FKO

Web Site : www.adarc.co.uk

CLUB'S OFFICERS

| | | | |
|----------------|----------------|-------|--|
| President | Terry Adams | G4CHD | |
| Chairman | John Lovell | G3JKL | |
| Vice Chairman | Steve Smith | G6SQX | |
| Secretary | Darren Tofield | M6LQC | 07831 641499 Email: dazztee@gmail.com |
| Treasurer | Ray Hunter | M0TLO | |
| Committee | Dave Cottle | G4XWQ | |
| | Mike Wogden | G4KXQ | |
| | Alan Fisher | M6CCH | |
| | Graham Bailey | G1ZTJ | |
| | Keith Luxton | G0AYM | |
| QSL Manager | John Lovell | G3JKL | |
| Web Master | John Lovell | G3JKL | |
| Exam Secretary | John Lovell | G3JKL | |
| Editor | Terry Adams | G4CHD | |

May, 2018

EDITORIAL

This month's meeting **on May 21st** is the Spring **Bring & Buy Meeting** which gives members the chance to either sell unwanted gear or buy some bargains as well as have a cuppa and catch up with everyone's news.



May I remind members who have not yet done so that their membership fees (£13) are due before the end of May.

You should all have also received details of the Club's Privacy Statement and had an Agreement Form which identifies the personal details that the Club may hold on you and your permission for the Club to continue to do so (if not, copies are included in this Newsletter). Note that this now includes any personal photos which the Club may use in the 5&9 newsletter.

If you have not already returned your Form to me by post/by hand then somebody from the Committee will be available at the May 21st Meeting to collect your Forms which must be received before May 25th.

Spare Forms will also be available if needed.

After May 25th, any member who has not returned the Agreement Form or who has requested on the Form for their personal details to be removed, then in accordance with the GDPR Act, their personal details will be permanently removed from our records and there will be no further communication to you from the Club including Newsletters sent as an e mail attachment.

Can I also draw your attention to our Club Meetings List below where two more talks have been added to an already impressive list. **We still have our June 18th Meeting needing to be filled** so please get in touch if you think you can help

Terry (G4CHD)

CLUB MEETINGS

Meetings are held at the Appledore Football Social Club starting at 7.30pm for 8.00pm. Visitors are always welcome.

For further information, contact the Secretary, Darren (M6LQC) - details in the top panel.

| | |
|-----------|--|
| May 21st | Spring Bring & Buy |
| June 18th | TBA |
| July 16th | Capacitance Loaded Antennas by Terry (G4CHD) |
| Aug 20th | Summer Natter Night |
| Sept 17th | Open Meeting - Exmoor Search & Rescue Team by Lionel Murphy |
| Oct 15th | 3-D Printing by Mike (G4KXQ) |
| Nov 19th | Autumn Bring & Buy |
| Dec 10th | Christmas Party (note - is 1 week early) |
| Jan 21st | TBA |
| Feb 18th | EMC in Amateur Radio by Chris (G0FJY) |
| Mch 18th | Club AGM |
| Apl 15th | TBA |

REPORT ON THE APRIL MEETING

CLANSMAN RADIO

by Chris (G0JFY)

The large number of members who attended were treated to a very well prepared talk by Chris on the range of Clansman radios. Chris obviously had tremendous in depth knowledge on the range of models available and as can be seen from the photo below, Chris brought many of them to the Meeting for members to see. He illustrated his talk with a Powerpoint presentation which illustrated the many points of interest raised by Chris during his talk.



Many examples of ancillary gear were passed around for members to fully appreciate including a number of Morse keys an example of which is shown.



The Club is most grateful to Chris for all the hard work in preparing such an in depth talk and his enthusiasm for the topic was evident from the passion with which he delivered the evening's talk. Many thanks Chris for a most informative and entertaining evening.

Terry (G4CHD)

PRESENTATION OF THE JIM McFEE CUP

The worthy recipient of the **Jim McFee Cup** for the Club member who in the opinion of the Committee had given tremendous support to the Club over the last Club year is Brian (M0BRB). Brian has kept the Zepp and 40m Club nets running despite at times not enjoying the best of good health, in his usual proficient and friendly manner. The Cup was presented by Terry (G4CHD) the Club President.



CROSSWORD

Many thanks to Stuart (M1FWD) for this month's Crossword.

The answers are in next month's Newsletter. Good luck !

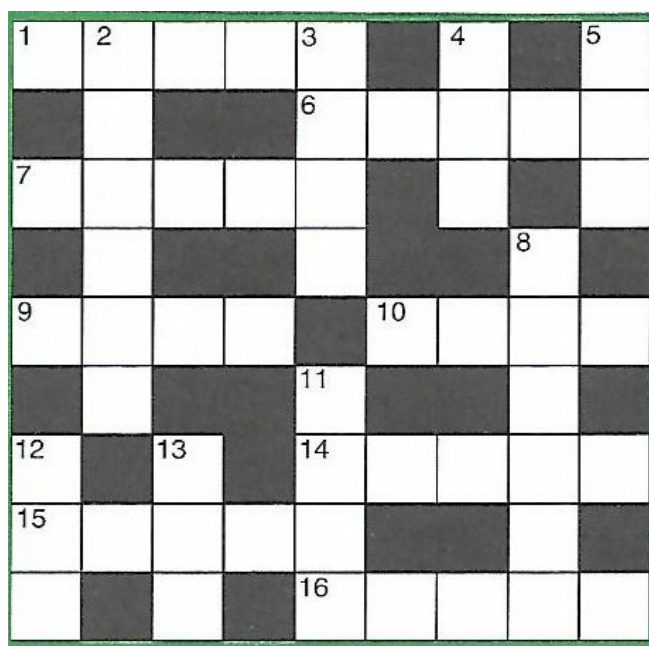


CLUES ACROSS

- 1) One of the population of Uniform Kilo (UK) land (5)
- 6) Victor Uniform (VU) land (5)
- 7) Weapon accompanying a bow (5)
- 9) Connection point or interface between a computer and other devices (4)
- 10) ? Kenyatta, first President of Five Zulu (5Z) land (4)
- 14) Five Uniform (5U) land (5)
- 15) Beaver-like rodent native to South America (5)
- 16) Alfred ? (1833-1896), inventor of dynamite (5)

CLUES DOWN

- 2) Mineral belonging to the group of nesosilicates (6)
- 3) Flightless bird native to Zulu Lima (ZL) land (4)
- 4) ? Lupino (1918-1995), Anglo-American actress (3)
- 5) Unit of air pressure, about equal to the atmospheric pressure on Earth at sea level (3)
- 8) Unit of electrical current (6)
- 11) Impedance transformer used to match an unbalanced antenna to a feedline (4)
- 12) The highest-ranked playing card in its suit (3)
- 13) Electronics company founded in Cambridge (1896) and discontinued in 1988 (3)



Last month's answers :-

ANSWERS ACROSS: 1) Amin 3) Ming 7) craic 8) era 9) hat 10) ion 11) Sao 13) aim 14) petal 15) Nine 16) Yana

ANSWERS DOWN: 1) Ascension 2) Inca 4) inch 5) Guatemala 6) Mayotte 12) open 13) Alba

LOCAL REPEATERS

70cm Handy Cross Repeater/Echolink (#221334)

Gateway (GB3ND)

User: Listen 433.35 MHz– Transmit 434.95 MHz
Access 1750 Hz Tone (Timeout 4.25 mins)/ 77 Hz CTCSS
Repeater keeper is Jeff (G4SOF)

2m Stibb Cross Repeater (GB3DN)

<http://www.g0rgl.co.uk/gb3dn.htm>

User: Listen 145.6375 MHz - Transmit 145.0375 MHz.
Access 1750 Hz Tone or 77 Hz CTCSS
Repeater keeper is Tony (G1BHM)

70cm Twitchen (nr South Molton) Analogue Repeater (GB3SF)

User: Listen 430.9375 MHz - Transmit 438.5375 MHz
Access 77Hz CTCSS
Repeater keeper is Steve (G6SQX)

APRS Digipeater (MB7VE)

Frequency 144.800 MHz
Repeater keeper is Steve (G6SQX)

LOCAL SKEDS

Zepp Net: Mon/Tues/Thurs : 145.450MHz - 4pm
Wed via GB3DN - 4pm

2m Net: Mon/Tues/Wed : 145.450MHz
10.45 - 12.00 noon

6m Net: Wednesday, 8pm, 51.480 MHz FM

HF Net: Friday at 3pm 7.134 MHz ± qrm
If conditions poor - 145.450 MHz

70cm Net: Sunday, via GB3ND, 11am - noon
Available on Echolink node 221334

Top Band Net: Sunday 1.860 MHz
(LSB - 32W pep max) 9.30 - 10.15am
Contact Dave (G4XWQ) for details

FOR SALE - YAESU FT817 HF/VHF/UHF ORP TX/RX

I have owned this rig from new and it is little used. Comes complete with fist mike, box, manual, as well as a Quick Reference Booklet for the rig.

£210 ono



For further info please contact me, G4CHD at terrywho35@gmail.com

LOCAL SILENT KEY

Dave Lawrence (G0PGK) has informed me that Bazil Ham (G0NPV) sadly passed away on April 26th after a short illness. Our condolences go to his family.

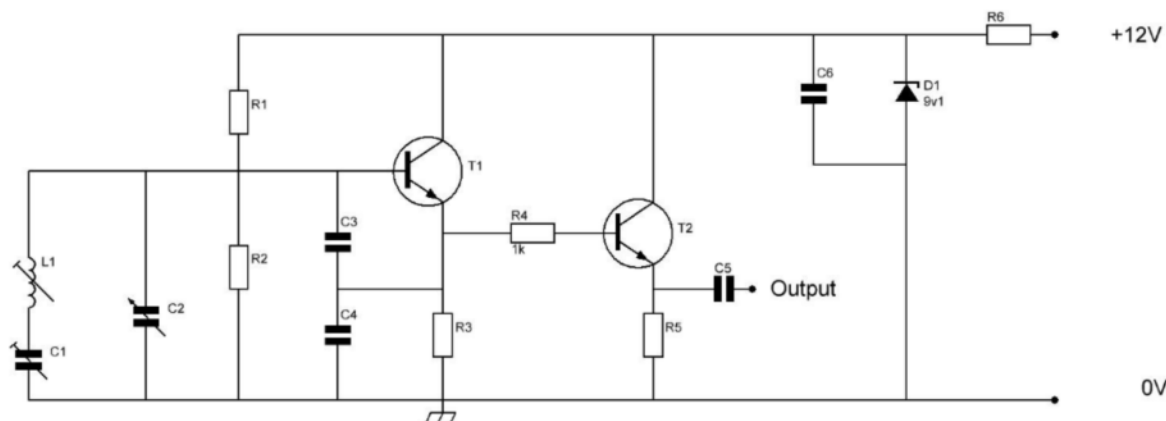
VFO ASSIGNMENT PROBLEM

by Mike (G4KXQ)

Different components, either individually or in combination with others, perform various functions within a circuit. The circuit below is a Variable Frequency Oscillator. Your assignment is to identify the function of every component in the circuit. To help you, the functions are listed in the table. All you have to do is to identify which component carries out which function.

| |
|--------------------|
| Tuning |
| Biasing |
| Oscillator |
| Feedback |
| AC Passing/DC |
| Blocking |
| Decoupling |
| Amplification |
| Current limiting |
| Potential Dividing |
| DC Supply |
| Regulation |

Answers will be given in next month's 5&9



SUDOKU PUZZLE

The aim is to enter a number into each cell so that **any column, or any row, or any block of cells contains all numbers from 1 to 9**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | | 3 | | | 6 | 2 | | |
| | 6 | | | | 7 | 4 | | |
| | 4 | | | 5 | 9 | | 6 | |
| | | | | 2 | | | | 6 |
| | | | 9 | | 5 | | | |
| 2 | | | | 1 | | | | |
| | 3 | | 5 | 7 | | | 9 | |
| | | 9 | 6 | | | | 5 | |
| | | 1 | 4 | | | 6 | | 8 |

Terry (G4CHD)

RADIO GEAR FOR SALE

The Club is most grateful to the family of Kevin (2E0KMG) (SK) for donating the following radio gear with [all proceeds going to Club funds](#) :-

PS30M 30A PSU @ £50

Ezeematch ATU (Quite rare these days) @ £75



Box containing PL259 plugs etc £ offers



6" mag mount @ £10

For further information, contact G4CHD. Any unsold items will be available at the May Bring & Buy Meeting.

FROM THE WORKBENCH

by Mike (G4KXQ)

Following on from Mike's excellent article in last month's 5&9 Newsletter, Mike's next article follows on the next few pages and as always is well worth the read.

Enjoy this month's 5&9 Newsletter

Terry (G4CHD)

From the Workbench

One of my favourite toys in the shack is the RSP2 my SDR. This generally gets used for shortwave listening with a range from 2Khz to 2 Ghz. When I couple the SDR with my main computer I have visibility of 10 Mhz of spectrum.

When coupled with the SDR-Console software suite I can have up to 10 receiver windows visible at anyone time. I can monitor 20M, 17M and 15M all at the same time all within the 10 MHz of bandwidth . One of my favourite uses is to set one of the receivers to the WSPR frequency whist tuning around the rest of the band using one of the other receiver slots.

One of the disadvantages of using a SDR for digital modes is how to get the audio into the digital decoder program such as Ham Radio Delux, WSPR, FLDIGI or WSJT-X for FT8. Normally the audio would come from your HF Rig into the computer via a sound card interface. This option isn't available when using a SDR as the audio only exists within the computer. Sometimes there is an option to use the Windows Mixer as a sound input source but this option seems to vary between machines and operating systems. Another option would be to use a 3.5mm to 3.5mm stereo patch lead to physically connect the computers audio output to the audio input port. The disadvantage of this method is that the speaker output will be silenced so you lose the ability to listen to whatever else is going on.

The answer lies in a piece of software called a virtual audio cable. Virtual audio cable's allow you to "pipe" or pass the audio from one application to another. The use of a virtual audio cable will allow you to connect the SDR output to decoder programs. Any application can send (play back) audio stream to an output side of a cable, and any other application can receive (record) this stream from an input side. All transfers are made digitally, providing NO sound quality loss (a bitperfect streaming).

The main Software available for this function is called Virtual Audio Cable (VAC) <http://software.muzychenko.net/eng/vac.htm> . This software does the job but the version available on the internet is Trialware with a audio comment superimposed over the piped audio at intervals. Not much use if you're using it for decoding digital signals.

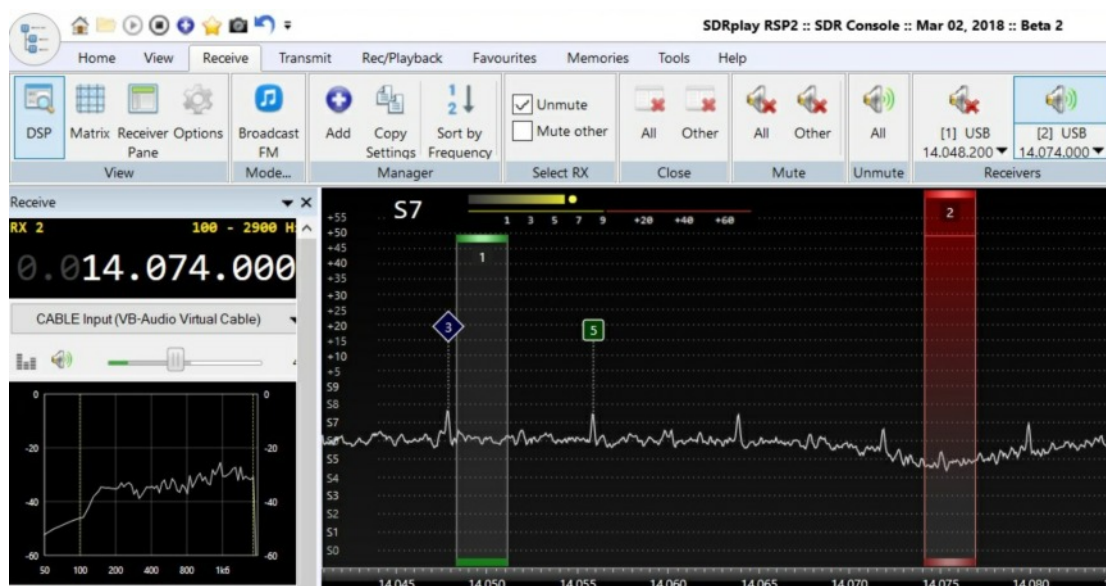
Now there's a donationware alternative to VAC for Windows known as VB-Audio software . <https://www.vb-audio.com> VB-Audio installs drivers on your Windows box giving you a VB-Audio cable choice among you audio devices. This allows you to pipe the SDR output to the decoding program of your choice for free. Of course, the VB-Audio developers appreciate a donation, and in exchange for a donation of any amount you get the ability to unlock two additional virtual audio devices, helpful if you're using a multiple-SDR setup.

Once the software is installed two new devices are installed in you sound drivers. One confusingly called 'CABLE Input' as a new playback device and 'Cable Output' as a new recording device.

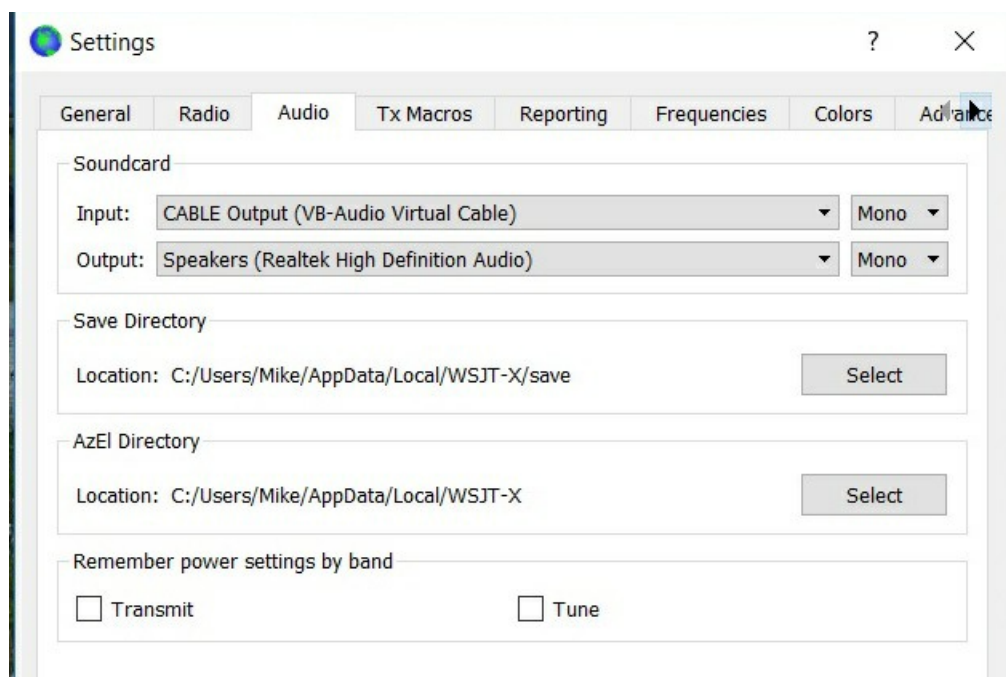


One use of the VAC is to decode FT8 activity with your SDR to monitor propagation.

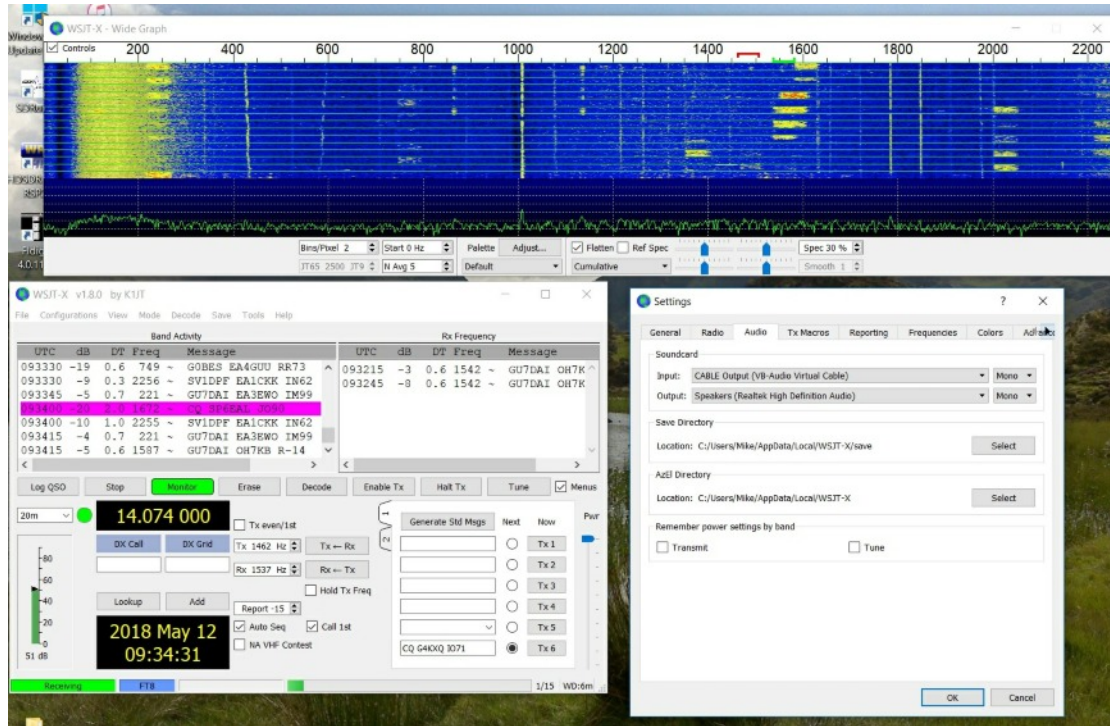
First setup up audio output from the SDR to CABLE INPUT.



Then set the Audio Source of your digital modes decoder software to CABLE Output.

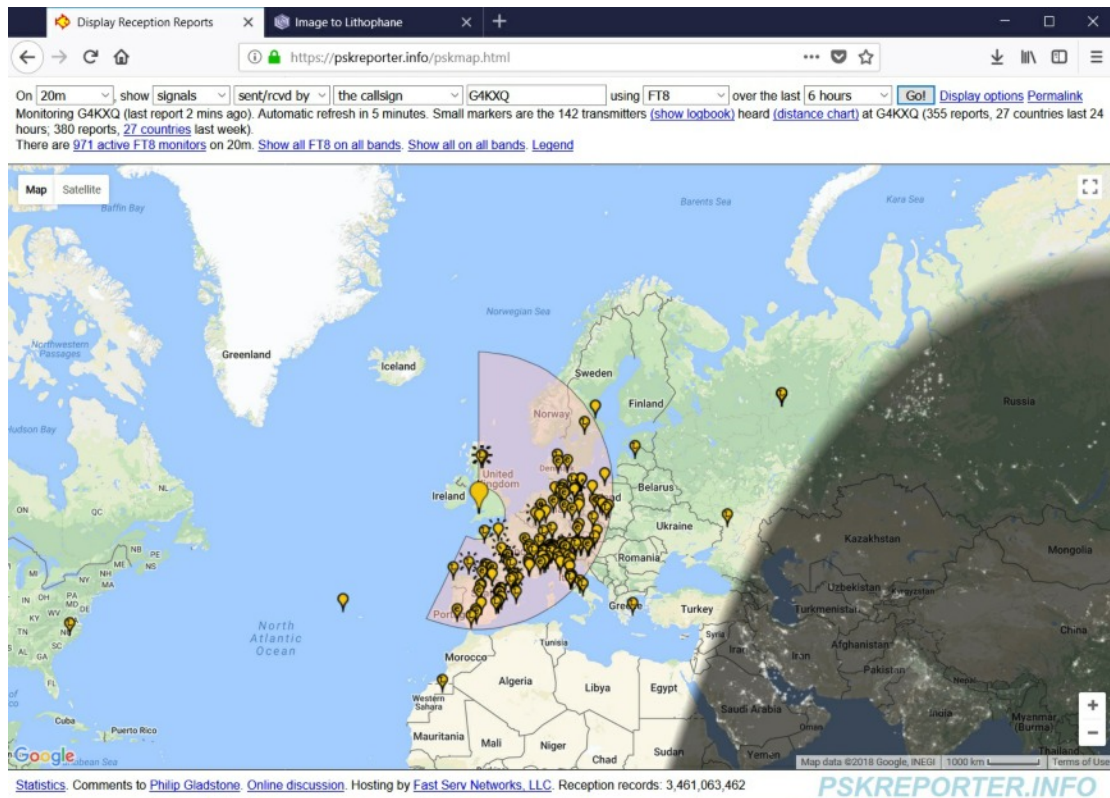


Then you're good to go.



As much as I don't like FT8 as a communication mode it does have its uses as a propagation indicator.

This is the signals received by my SDR on my simple loft dipole on what is a very poor afternoon for 20m propagation.



Mike (G4KXQ)

PRIVACY STATEMENT

This statement by the Appledore & District ARC (hereafter referred to as the Club) informs you about what personal information the Club holds about you, why it is needed, and the steps the Club takes to protect its security. Your rights to request further information regarding your personal data held by the Club, or to withdraw permission for its use or retention, and to whom such requests should be directed, are also explained.

It is most important that you fully read and understand this Privacy Statement. Please do not hesitate to contact any Club Official if you require further clarification.

Personal Data held of Club Members

For any Club Member, the following personal data is held :-

- Name
- Callsign (if applicable)
- E Mail address
- Home address
- Telephone number
- Membership Number
- Receipt number

This data is controlled and maintained by a Data Controller/Processor whose contact details are given in the Club Newsletter

In addition, any photograph containing an image of a member is deemed within the terms of the new Data Protection Act to constitute personal data.

The above members' personal data enables the Club to :-

- Maintain a membership list (requires all of the above data)
- Maintain a Club Newsletter e mail mailing list (requires Name, Callsign, e mail address)
- Maintain contact details in the event of the Club being wound down (requires Name, Home address)

In addition, for Club Officers, Committee members and members holding specific responsibilities (including the Club Data Controller/Processor), the above personal data enables the Club to :-

- Publish in the Club Newsletter (accessible to the public), the Name and Callsign of all current Club Officers, Committee members and members holding specific responsibilities, and in addition publish the Name, Callsign, and E Mail address for both the Club Secretary and Newsletter Editor.

No data is made available to third parties without any member's specific permission.

How Members' Data is Stored and Protected

Members' personal data is stored on the Club Website in a secure area accessible only to the Club Data Controller/Processor, Club Officers, Committee members and the Newsletter Editor via individually allocated, non changeable passwords with read only privileges. The data can only be edited by the Club Data Controller and Processor. Once a member steps down from holding any of the above positions, their password will be revoked.

Members' personal data is only held for fully paid up members of the Appledore & District ARC.

Once a member's membership ceases or lapses through non renewal (presently based upon non renewal by the end of May) their personal details will be held for one year and then deleted.

Honorary members personal details are treated as for paid up members except that Honorary members have life membership or until the Club is wound down, whichever is the sooner.

If an Honorary member wishes to resign from the Club, then their details will be deleted.

All Newsletters/group e mails sent to members use BCC (Blind Carbon Copy) to hide other members' e mail addresses.

Rights of Members to either give or refuse Permission for their Data to be Held

Having read and understood the full implications of the Club Privacy Statement, every Club Member will be asked to complete an Agreement Form which gives or denies permission for their Data to be held by the Club and any photographic images to be used in the Club Newsletter. If permission is withheld, then members should be aware that Club Newsletters and/or Club information would no longer be sent by Email.

GENERAL DATA PROTECTION REGULATION (GDPR) AGREEMENT FORM

Please complete the following to ensure that your information we hold is correct and up to date

Your Name :- _____ Your Callsign :- _____

Your Email Address :- _____

Your Home Address :-

Your Phone Number(s) :- _____ (Home)
_____ (Mobile)

Finally, please **tick the appropriate boxes** to indicate your permission or otherwise for the Club to continue to hold your personal data :-

I give permission for my personal data to held by the Appledore & District ARC in accordance with their Privacy Statement which I have read. I understand that at any time I can revoke such permission in writing by contacting the Club Data Controller.

☐

I give permission for any photograph containing an image of myself to be published within the Appledore & District ARC Newsletter. I understand that at any time I can revoke such permission in writing by contacting the Club Data Controller.

☐

I do **not** give permission for my personal data to held by the Appledore & District ARC in accordance with their Privacy Statement which I have read or for any photograph containing an image of myself to be published within the Club Newsletter.

☐

At any time, a member can request details of their personal data held by the Club

Signed :- _____

Date :- _____