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Cockenzie & Port Seton Amateur Radio Club is affiliated to the Radio Society of Great Britain and holds the call signs MM0CPS and GM2T which are used for our special event and contest entries.

The Club was formed by Bob Glasgow BEM GM4UYZ in 1984, to help the local amateurs get to know each other.

Far from being just a local club we have members regularly attending from the Borders, Dumfries, Strathclyde, Fife and Newcastle.

We have supported the British Heart Foundation for many years and to date we have raised £20,036 for them.

The Club meets on the first Friday of every month in the lounge of the Thorntree Inn on the old Cockenzie High Street from 7pm till late.

Club email

[cpsarc@gmail.com](mailto:cpsarc@gmail.com)



## Editorial

With Bob GM4UYZ still out of action, I've written a brief editorial but there's not much to say this early in the year.

Firstly, Club Night will take place on Friday 10 January from 7pm in the Thorntree Inn. We'll be in the lounge bar unless there's a Quiz scheduled. If that's the case we'll be in the main bar. We hope to see you all there.

Some of the Club events have had to be suspended while Bob is unwell, morse training and license training are both on hold for now.

We do intend to run as many of the other events as possible, the first being the Radio Check Night in February but there's an issue with the Cockenzie Legion hall availability which we're trying to resolve, this might mean the date has to change, we'll let you know once it's confirmed.

The DX Dinner in Edinburgh scheduled for January has been moved to 22 February 2025, please let John MM0CCC know ([mm0ccc at gmx.co.uk](mailto:mm0ccc@gmx.co.uk)) if you plan to attend (most of the regulars are in a whatsapp group, please use that).

Last year we ran a good number of events, License training, Radio Check Night, Construction nights, DF hunts, Contests (CQWW SSB and CW, RSGB VHF Field Day and IOTA Contests, Our own Mini Rally, Activity Weeks and Club Challenges. We attended the NARSA Rally in Blackpool and the GMDX Convention in Stirling.

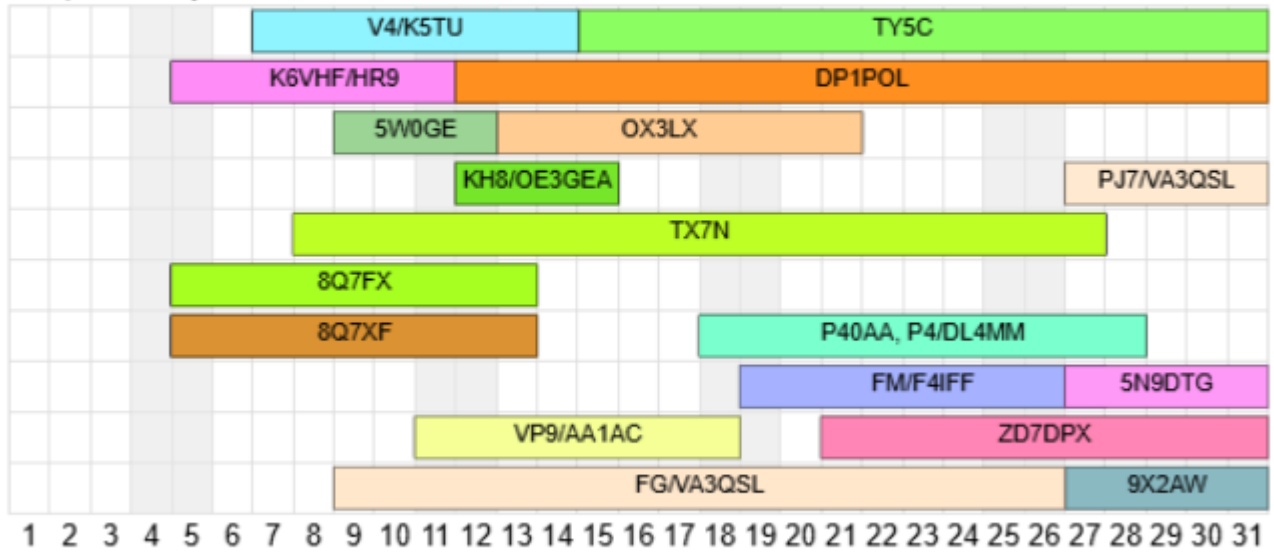
Thanks to everyone who organised stuff and came along during the past year, that makes it all worthwhile.

We've also has some dissappointments, long standing venues for special events and contest stations are either no longer available or have priced themselves out of our reach.

We have also raised a further £860 for the British Heart Foundation through sales and donations at the Mini Rally and sale of silent key equipment. This brings our total to £20,036 which is a fantastic result.

**DXWORLD.net**  
**FEATURED DXPEDITIONS TIMELINE**

Last update: January 5, 2025



Edited by MM0NDX

**JANUARY**

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## Club Attire

The club has a design for Club T-shirts, Polo-shirts, Sweat-Shirts, Fleece and Jackets and all of these can be obtained from Patricia Bewsey Designs

When making an order please quote 'Cockenzie & Port Seton Amateur Radio Club' to ensure that the Club Logo will be placed on the required garments.

Cost will depend on garment and should cover the garment and logo, call sign addition will be extra.

If you wish to add your call sign to the logo then please ask at the time of the order.

Order from:

**PATRICIA BEWSEY DESIGNS,**

Tel/Fax: 01620 850788

Mobile: 07970 920431

Email: [patricia.bewsey@gmail.com](mailto:patricia.bewsey@gmail.com)

Note: the shop at Fenton Barns is now closed

# The RSPduo:

## A Powerful Software Defined Radio Receiver

The RSPduo is a versatile and highly capable software defined radio (SDR) receiver designed by RFSpace, a leader in radio communication technology. Offering both professional and amateur radio enthusiasts a wide range of features, the RSPduo stands out as one of the most flexible and high-performance SDR receivers on the market today.

As you know, traditional radio receivers rely on hardware components like tuners, filters, and amplifiers to process radio signals. In contrast, an SDR performs most of these tasks through software. This allows for a far greater degree of flexibility and control, enabling users to adjust, modify, and even reconfigure their receiver's capabilities through software updates. This makes SDR a highly adaptable solution for a wide range of radio applications.

The RSPduo is an SDR receiver that takes advantage of this flexibility, making it an ideal tool for both radio amateurs and professional users in areas like telecommunications, signal intelligence, and research.

### Key Features of the RSPduo

The RSPduo is packed with a wealth of features that make it a powerful and adaptable tool for radio frequency (RF) enthusiasts. Here are some of its stand-out characteristics:

- 1. Dual-Channel Operation:** One of the RSPduo's most notable features is its dual-channel operation. This allows users to simultaneously receive two different signals on different frequencies, which is incredibly useful for a range of applications. Whether you're monitoring multiple frequencies for communication, tracking satellite signals, or conducting interference analysis, the dual-channel setup greatly expands the SDR's usability.
- 2. Wide Frequency Range:** The RSPduo covers a broad frequency spectrum, from 1 kHz to 2 GHz, which includes almost all of the commonly used bands for both amateur and professional radio services. This expansive coverage ensures that the RSPduo can be used for everything from shortwave listening to VHF/UHF communication and beyond. It is also capable of receiving signals from a wide range of modulation types, including AM, FM, SSB, CW, and digital modes, offering incredible flexibility for different radio applications.



- 3. High Dynamic Range (HDR):** The RSPduo features an impressive high dynamic range, which allows it to receive both very weak and very strong signals without distortion or loss of quality. This is particularly useful in environments where strong local transmissions might interfere with weaker signals, such as in urban areas or during DXing (long-distance radio communication).
- 4. 16-Bit ADC (Analog-to-Digital Converter):** The receiver utilizes a 16-bit ADC, ensuring high-resolution digital sampling of incoming radio signals. This level of resolution provides a highly detailed signal representation, making it ideal for applications that require precise signal analysis or advanced processing. The high ADC bit depth also results in greater sensitivity and improved overall signal quality.
- 5. USB 3.0 Interface:** The RSPduo connects to a PC or other host device via USB 3.0, offering high-speed data transfer that is essential for handling the wide range of frequencies and the large amount of data generated by the SDR. The USB 3.0 interface ensures low-latency operation and allows the user to access a high-fidelity, real-time spectrum view.
- 6. Extensive Software Support:** As with most SDR receivers, the RSPduo is designed to work with a variety of SDR software platforms, including popular programs like SDR# (SDRSharp), HDSDR, and GNU Radio. These software applications provide users with powerful tools for signal processing, frequency analysis, and signal demodulation. Whether you are a novice or an expert, the availability of these tools ensures you have the capabilities you need to work with any radio signal.

7. Customizable Filters and Gain Control: The RSPduo offers customizable filtering and gain control, allowing users to adjust these parameters to optimize reception based on the environment and the type of signal being received. These settings can be tweaked to reduce noise, enhance weak signals, or eliminate unwanted interference.

8. Versatility for Various Applications: The RSPduo is used in a wide variety of settings, including amateur radio, signal monitoring, academic research, and commercial applications. It is an ideal tool for activities such as frequency scanning, satellite communication, research into radio propagation, and even cybersecurity applications like signal intelligence (SIGINT).

I used it in earnest during the IARU HF Championship in July along with my IC-7300. I fed the receiver into a virtual Windows machine under my Mac (VM-Fusion) running CW Skimmer. In a contest I normally

work from the bottom of the band and work my way up. With both VFOs on my IC-7300 used for transmit and split the SDR receiver and CW Skimmer were able to spot the CW stations above me and provided callsign and frequency. This allows you to quickly tune to the next station and cherry pick the calls for maximum points. The receiver is controlled by SDRUno a free Windows application which is feature rich. The app did hang a few times during the contest but that could be down to my complicated configuration under VMware with USB port sharing issues.

The RSPduo is £260

Derek MI0WST

# Clublog Tables

The 2024 table has now finished.

Gordon MM0GPZ sneaked in at the end with 221 DXCC, Brian M0RNR comes in second with 192 Countries and a separate entry from EA while on holiday and Martyn MM0XXW is third on 152 (we'll see if his new radio makes a difference next year). I've excluded the GM2T contest station from the personal list.

The 2025 table has now started, please carry on uploading your logs so we can see how you are all doing.

Club members can join in at any time, simply sign up at clublog.org, submit your log and apply to join the CPSARC club there (club members only, random applicants will be refused)

John MM0JXI

Rank	Callsign	160	80	60	40	30	20	17	15	12	10	6	DXCC	Slots	Range
1	MM0GPZ	41	49	0	72	23	105	13	94	18	138	49	221	602	19 yrs
2	M0RNR	8	10	25	63	49	111	85	134	65	154	30	192	734	26 yrs
3	GM2T	45	68	0	88	0	131	0	105	0	128	23	158	588	25 yrs
4	MM0XXW	0	26	27	62	106	72	88	100	69	62	2	152	614	19 yrs
5	MM0DXH	0	0	0	38	27	97	3	65	4	115	0	140	349	21 yrs
6	GM4UYZ	0	2	0	16	5	56	37	39	21	41	1	80	218	44 yrs
7	EA/M0RNR	0	0	0	0	0	53	34	37	0	6	0	67	130	2 yrs
8	GB0EMT	0	0	0	6	46	35	0	27	2	3	1	55	120	1 yrs
9	2M0EGH	0	0	0	0	2	20	7	27	11	23	0	55	90	7 yrs
10	MM0CPS	0	2	0	7	0	7	0	0	0	8	5	21	29	26 yrs
11	MM0NBW	0	0	0	0	0	8	2	0	0	2	0	11	12	7 yrs
12	2M0BEC	0	0	0	0	0	3	0	0	0	0	0	3	3	18 yrs

# Christmas Fun Quiz - Answers

For a bit of fun during the Christmas period and to test your knowledge the quiz and answers are related to Flight Transport of some kind. Enjoy and have some fun....

QUESTION	CLUE	ANSWER
1	COULD THIS BE LINKED WITH STARTREK	VULCAN
2	MORE RISK IN UNITED STATES FROM THIS	TORNADO
3	RELATIVE OF THE WASP	HORNET
4	SURELY NOT BEING RETIRED FROM SERVICE	CONCORDE
5	THIS SOUNDS VERY FRIGHTENING	SPITFIRE
6	PADDINGTON BEAR WORE THESE	WELLINGTONS
7	DID HE GOVERN THE WAVES	SEA KING
8	SELF SORTING FRY (Anagram)	FLYING FORTRESS
9	DID COWBOYS PILOT THIS	DAKOTA
10	COULD YOU LINK THIS TO A BILL HAYLEY SONG	COMET
11	WILD ANIMAL OR A FAST CAR	JAGUAR
12	DID THIS BEGIN IN THE NORTH EAST	SUNDERLAND
13	SURELY AN ENGLISH COUNTY NAME	WESSEX
14	TV PROGRAMME WITH STRONG MEN AND WOMEN	GLADIATORS
15	EX-WIFE OF MICK JAGGER IS ONE OF THESE	TEXAN
16	STRONG SILENT MEANS OF FLIGHT	GLIDER
17	IS THIS A PREDATORY BIRD	HAWK
18	STOW ALE CHIMP (Anagram)	SOPWITH CAMEL
19	TYPE OF WILD ANIMAL PERHAPS	MUSTANG
20	IS THIS A SHOOTING STAR	METEOR
21	COULD THIS BE A SCOTTISH TOWN TOO	STIRLING
22	THIS IS EATEN FROM THE SEA NOWADAYS	SWORDFISH
23	ANOTHER FORCEFUL WEATHER CONDITION	HURRICANE
24	THIS ONE SHOULD HAVE MUSCLES	HERCULES
25	ARE SCOTTISH MIDGES AS BAD AS THIS	MOSQUITO
26	COULD YOU SEE THIS AT THE BUTTERFLY FARM	TIGER MOTH
27	AAACILNT (Anagram)	CATALINA
28	DEFINITELY SHOWING BRAVERY	VALIANT
29	WOULD YOU SEE THIS DOWN UNDER	CANBERRA
30	THIS COULD BE USEFUL IN A TIGHT SPOT	HARRIER

# Club Events

10 Jan 2025	Club Night
4 - 10 January 2025	Activity Week
7 Feb 2025	Club Night
8 - 14 February 2025	Activity Week
13 February 2025	Radio Check Night
22 February 2025	DX Dinner (see MM0CCC for info)
7 Mar 2025	Club Night
8 - 14 March 2025	Activity Week
12 March 2025	Construction Night
4 Apr 2025	Club Night
5 April 2025	GMDX Convention
12 - 18 April 2025	Activity Week
13 April 2025	Blackpool Rally
2 May 2025	Club Night
10 - 16 May 2025	Activity Week
16 May 2025	1st 144MHz DF Hunt
28 May 2025	Club SOTA Activation - North Berwick Law
1 June 2025	Port Seton Gala Day
6 Jun 2025	Club Night
7 - 13 June 2025	Activity Week
14/15 June 2025	Museums on the Air Weekend (Dunfermline Bus Museum (TBA))
27 June 2025	Club Night (early due to VHF Field Day)
5/6 July 2025	VHF Field Day (Dumfries)
12 - 18 July 2025	Activity Week
26/27 July 2025	RSGB IOTA Contest from Tiree (GM2T)
1 August 2025	Club Night
8 August 2025	Mini Rally (Port Seton Community Centre)
9 - 15 August 2025	Activity Week
16/17 August 2025	Not the Lighthouse Weekend
5 September 2025	Club Night
6 - 12 September 2025	Activity Week