



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	John Jeffers	G0UNB	
Chairman	Terry Adams	G4CHD	
Vice Chairman	Mike Hammond	G3PGA	
Secretary	Alan Fisher	M6CCH	01237 422833 Email: fisheralan@btinternet.com
Treasurer	Mike Wogden	G4KXQ	
Committee	Laurence Soutter	G4XHK	
	John Lovell	G3JKL	
	Graham Bailey	G1ZTJ	
QSL Manager	John Lovell	G3JKL	
Web Master	John Lovell	G3JKL	
Exam Secretary	John Lovell	G3JKL	
Editor	Terry Adams	G4CHD	

July, 2014

EDITORIAL

As I write this at the end of June, we are blessed with glorious weather - just perfect for /P operation from some remote spot complete with deck chair and sun cream! Observant members will have noticed that I have finally included John's new role as **Exam Secretary** in the above header (sorry for the delay John) and a report of recent successes is included in this Newsletter. Anyone not already a member of our Club is very welcome to come and join us.

This month's Meeting is our annual Bring & Buy - which will be run as per last year - **ie there are no standing fees but a donation to the Club from any sales made would be appreciated by your Treasurer!** If the weather permits, perhaps this year selling could be done from either within the Clubhouse or literally from your 'car boot'. This would save lugging heavy gear around unnecessarily.

Please remember that next month, our **August Meeting**, is an **open meeting** to which **family and friends** are very welcome. This year's talk by a member of the Appledore RNLI on the work of our local Lifeboat Station should be extremely interesting so please be sure to come along.

So, enjoy your Newsletter and hopefully see many of you next Monday evening.

Terry (G4CHD)



CLUB MEETINGS

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

For further information, contact Alan (M6CCH)

July 21st	Club "Bring & Buy"
August 18th	Open Meeting - "Appledore RNLI"
September 15th	"History of Radio in North Devon" by Peter Christie
October 20th	Brief History of Policing Terrorism' by Alan (M6CCH)
November 17th	A Light Hearted Radio Quiz - by John (G3JKL)
December 15th	Club Christmas Party
January 19th	"Contests - Beauty or a Beast?" by Terry (G4CHD) & Mike (G3PGA)
February 16th	"Whisper & WebSDRs" by Mike (G4KXQ)
March 16th	Club AGM
April 20th	TBA

EXAM LICENSE SUCCESSES

I am delighted to include the following report from our Exam Secretary, John (G3JKL) :-
An exam was held at the Blue lights Hall, Appledore on the 1st of June for 7 candidates, a record number of entrants for our Club. I can report that all seven candidates (3 foundation and four Intermediate) passed, one of whom is club member Charlie Passey. They are hopefully in possession of their new call signs as I write.

Congratulations everyone!

REPORT ON THE JUNE MEETING

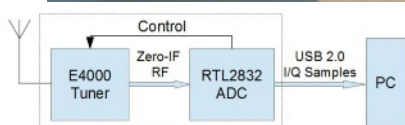
SDR ON THE CHEAP

by Mike (G4KXQ)



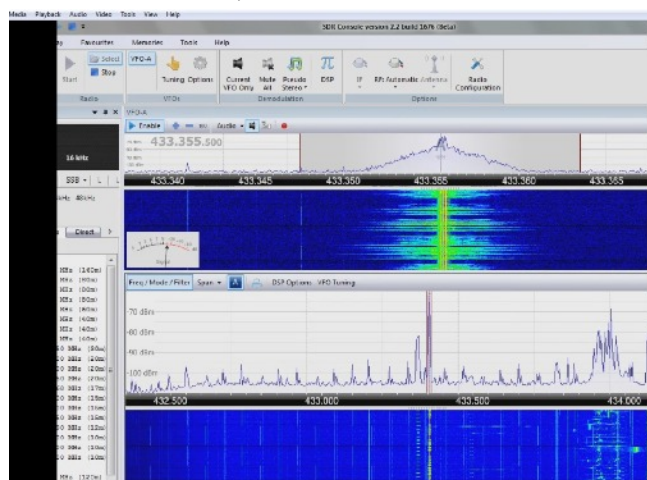
The title of the June Meeting's talk obviously resonated well as there was an excellent number of members who attended and were treated to a well researched and most interesting and thought provoking evening. The talk commenced with the introduction of a typical cheap

(approx £10) device - RTL SDR (E4000) which offered a 3.2 MHz bandwidth and a tuning range of approx 50 to 2200 MHz (gap between 1100 and 1250 MHz) together with its internal block diagram :-

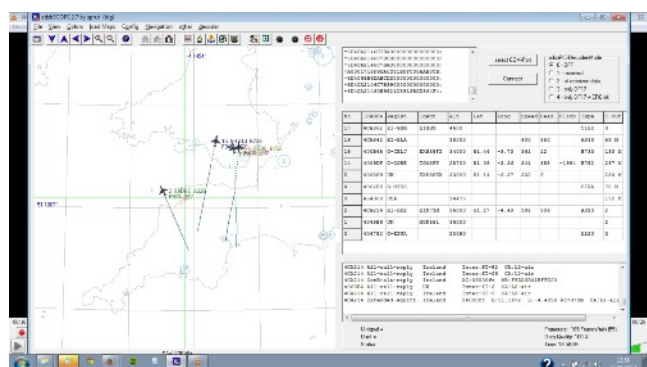


Once plugged into a computer usb port and used with appropriate software - examples of which quoted were Zadig for drivers, SDR Sharp, and SDR Radio - (all for Windows), then the number of uses to which this device could be put were mind boggling!

Examples demonstrated by Mike included acting as a 6m/4m/2m/70cm RX,



airband scanner and tracker,



weather satellite RX, and with an HF up convertor as an HF RX. Even budget Radio Astronomy was included! Finally, this cheap SDR was compared with the more expensive FunCube Dongle Pro+

	FCD Pro +	RTL-SDR (E4000)
Bandwidth	192KHz	3.2 MHz
ADC Resolution	24 bits (~20 actual)	8 bits (~7 actual)
Dynamic Range	~120dB	~42dB
XTAL Accuracy	0.5ppm TCXO	~200ppm
Cost	£125	~£10

The talk was illustrated by a very professional Powerpoint presentation which benefited from the projector system kindly provided by Dave (M0JAP). If anyone is interested in this presentation, then Mike has kindly agreed for it to be made available on our Club website in pdf form - look under articles and SDR on a shoestring. Many thanks Mike for a most entertaining and informative evening which I am sure will provide the springboard for many members to investigate what SDRs can do for them.

Terry (G4CHD)

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.**

5	7			2		9	
		4	7			8	
					5	3	
					1		5
	8		2	3	5		7
	2		4				
			3	9			
		8				7	5
4			5				2
							7

Terry (G4CHD)

LOCAL SKEDS

- Zepp Net:** Mon, Tues, Thurs :
145.450 MHz **Wed**
via **GB3DN** 1600 local time
- 6m Net:** Wednesday, 8pm, **51.480 MHz FM**
- HF Net:** Friday at 1500 local time
7.145 MHz ± qrm
- Slow Morse:** Run by **Dave (G3YGJ)** every
Tuesday and Thursday, 7pm clock time
on **145.250 mode FM.**
- 70cm Net:** **Sunday, via GB3DN, 1100 - noon**
local time.
Available on Echolink node 221334

LOCAL REPEATERS

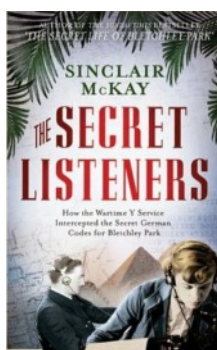
70cm Handy Cross Repeater/Echolink (#221334)
Gateway (GB3DN)
User: Listen 433.35MHz– Transmit 434.95MHz
Access 1750Hz Tone (Timeout 4.25 mins)/ 77Hz CTCSS
Repeater keeper is Jeff (G4SOF)

2m Stibb Cross Repeater (GB3DN)
<http://www.g0rql.co.uk/gb3dn.htm>
User: Listen 145.6375MHz - Transmit 145.0375 MHz.
Access 1750 Hz Tone or 77 Hz CTCSS Repeater keeper is
Tony (G1BHM).
Yahoo users group for general chat and banter at :-
<http://groups.yahoo.com/group/GB3DN/>

RECOMMENDED READ

John (G8BXO) gave me the following details of a book he thoroughly recommends :
“The Secret Listeners” (Y Service and Bletchley etc) by Sinclair McKay (2012) ISBN: 9781 845137632

Checking recently at Amazon.co.uk, it can be bought for £13.60 with free delivery.



CROSSWORD

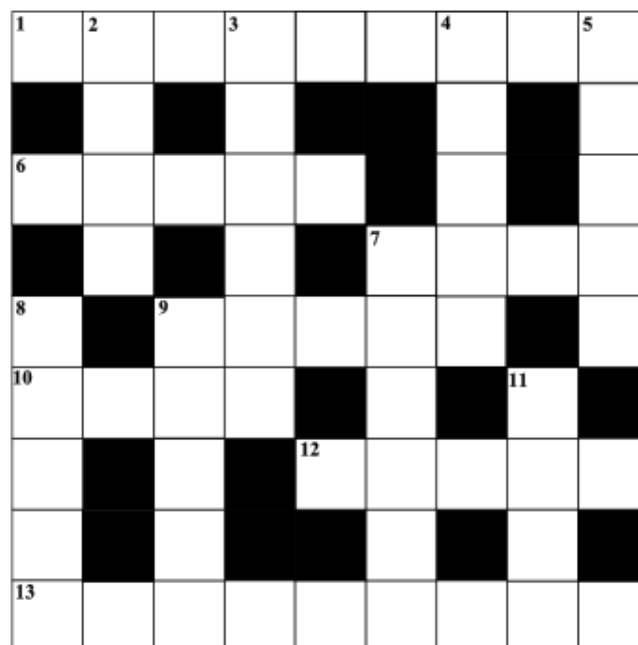
This month's Crossword is by Stuart (M1FWD).
The answers will be published in the next month's Newsletter. Good luck !

Clues Across

- 1) A flash of bright light produced by an electric discharge between clouds or between clouds and the ground (9)
- 6) TV channel currently showing on Sky 132 and Virgin 130 and 200 (5)
- 7) Midday (4)
- 9) A low oval basin used especially for washing the genital area (5)
- 10) A quarter of an acre (4)
- 12) Sierra Tango land (5)
- 13) A measure of capacitance (9)

Clues Down

- 2) ? Jack, a character in the pantomime Dick Whittington (4)
- 3) The offspring of two plants or animals of different species or varieties (6)
- 4) Colloquially, a stupid person; an utter fool (5)
- 5) Nine Golf land (5)
- 7) A large cloud of distant stars (6)
- 8) A number of persons together - an amateur radio net, for instance (5)
- 9) An acid used as a mild antiseptic and in the manufacture of heat-resistant glass and enamels (5)
- 11) ? Fairydean Rovers, a football club in Galashiels, GM land (4)



Last month's answers :-

Across 1) Fiji 3) Isis 7) Guernsey 9) col 10) Tunisia
13) nil 14) weakened 15) need 16) tune

Down 2) ingot 4) Sistine 5) soya 6) trailer 8) ululate
11) Aidan 12) twin

Stuart (M1FWD)

CLUB MEMBERSHIP FORM, CONSTITUTION AND GUIDELINES

Your Committee met on July 9th at the Laurence's qth at which it was agreed to now issue the Club Guidelines. These in no way replace the Club Constitution which is included with this Newsletter for reference.

It is intended that in future, all new Club members will be given a copy of the Guidelines together with a Membership Form, copies of which are also included with this Newsletter. If any existing member has not yet completed a membership form, please send your completed form to any Committee member asap please. Many thanks

Terry (G4CHD)

Well that's it for another month, enjoy the read.

Any member has written an article that they feel would be of interest to Club members, please send it in to me and it will make your Club Newsletter all the more interesting.

Terry (G4CHD)



Appledore & District Amateur Radio Club

Application for Club Membership

Membership number : _____



<p>First Names : _____</p> <p>Preferred Name : _____</p>	<p>Family Name : _____</p>
<p>Address : _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Post Code : _____</p>	<p>Contact Phone Numbers</p> <p>Home : _____</p> <p>Mobile : _____</p> <p>Email : _____</p>
<p>Do you currently hold an amateur radio licence? Y / N</p> <p>Your call sign: _____</p> <p><u>Club Newsletter 'Five and Nine Plus'.</u></p> <p>Are you happy to receive the club's monthly newsletter by email? Yes / No (<i>please circle</i>)</p> <p>If you wish to receive the newsletter by some other means please discuss with the secretary to agree an acceptable arrangement. If mailed postage costs will be incurred.</p> <p><u>Data Protection.</u></p> <p>Personal details are not used for any other purpose other than club administration.</p>	<p>Applicant's signature _____</p> <p><i>(Please note: under 16's•need parental/guardian consent signature as given below)</i></p> <p>Signature of parent / guardian:.....</p> <p>Print name</p> <p>Relationship</p> <p>Date</p> <p><i>The information I have given above is correct to the best of my knowledge and I agree to abide by the Appledore & DARC rules and constitution. The A&DARC committee reserves the right to refuse or cancel club membership.</i></p>

APPLEDORE & DISTRICT AMATEUR RADIO CLUB CONSTITUTION

(July 2014)

1. NAME

The society shall be known as the Appledore and District Amateur Radio Club.

2. AIMS

The aim of the Club shall be to further the interests of its members in all aspects of Amateur Radio and associated activities.

3. MEMBERSHIP

Membership shall be open, subject to the discretion of the Committee, to all persons interested in the aims of the Club.

(a) Full Members

Full Members must be 16 years of age or over, OR must hold the permission of any competent authority to install and operate an amateur radio station.

(b) Student Members

Student Members must be in full time education, and under 25 years of age.

(c) Honorary Members

Honorary Membership may be granted to any person, who, in the opinion of the Committee, has rendered outstanding service to the Club, either directly or indirectly.

Such membership shall carry the rights of full membership but shall be free of subscription.

(d) Guests

Members may invite guests to meetings. No visitor may attend more than three meetings in each year.

All members shall abide by the Constitution of the Club. The Committee shall have the power to expel any member whose conduct, in the opinion of at least three-quarters of the full Committee, or a General Meeting, renders that person unfit to be a member of the Club. No member shall be expelled without first being given an opportunity to appear before the Committee. The Club is committed to the protection of minors and vulnerable adults and fully adopts the recommendation from the RSGB entitled "Safeguarding Children and Vulnerable Adults" which is appended to this Constitution.

4. SUBSCRIPTIONS

(a) The Annual Subscriptions for membership shall be set by the Committee, but ratified at a General Meeting.

(b) All subscriptions shall be due and payable at the beginning of the financial year. Members more than one month in arrears shall have no voting rights.

(c) The financial year shall run from 16th February to 15th February.

(d) A member shall be considered to have resigned from the Club, if by the following May 31st the subscription remains unpaid.

(e) The Committee shall have the power to waive or reduce the subscription in special circumstances for a period not exceeding one year at a time.

5. FINANCE

All money received by the Club shall be promptly deposited in the Club's Bank account. Withdrawals need the signature of the Club's Treasurer and one other nominated officer of the Club.

6. MEMBERSHIP OF THE COMMITTEE

The Club's affairs shall be administered by a Committee elected at the Annual General Meeting. The Committee, in whom the Club's property shall be vested, shall consist of :-

- (a) A Chairman, who will preside at all meetings at which he is present.
- (b) A Vice-Chairman, who will act as Chairman in the absence of the Chairman.
- (c) A Secretary, who will be responsible for:-
 - (i) Keeping the Minutes of all meetings of the Club.
 - (ii) Ensuring that all correspondence is correctly handled.
 - (iii) Maintaining a master roll of Members and Honorary Members.
 - (iv) Maintaining a register of Club equipment.
- (d) A Treasurer, who will be responsible for:-
 - (i) Keeping the Club's accounts.
 - (ii) Advising the Committee on all financial matters.
 - (iii) Preparing the accounts for audit, and presenting them at the AGM
- (e) Three Ordinary Committee Members.
- (f) Not more than two co opted members who have full voting rights
- (g) The Committee shall have the right to appoint Members to various Club Roles as and when the need arises. Such appointments shall automatically include eligibility to be co opted in a non voting capacity onto the Committee.

7. COMMITTEE STANDING ORDERS

- (a) The Quorum for the Committee shall be four.
In the absence of a Quorum, business may be dealt with, but any decisions taken only become valid after ratification at the next meeting at which a Quorum exists.
- (b) Committee Meetings may be called by the Chairman, the Secretary, or any three Full Members of the Committee.
- (c) The Chairman may vote; in the event of a tie he has a second casting vote.

8. ANNUAL GENERAL MEETING

- (a) The Annual General Meeting shall normally be held on the third Monday of March each year.
At least 21 days notice shall be given to each member in writing.
- (b) The Quorum for the meeting shall be twelve.
- (c) The Agenda of the meeting shall be:-
 - (i) Apologies for absence.
 - (ii) Minutes of the previous AGM.
 - (iii) Chairman's Report.
 - (iv) Secretary's Report.
 - (v) Treasurer's Report.
 - (vi) Election of the new Committee.
 - (vii) Election of Auditors.
 - (viii) Other Business.
- (d) Items (i) to (v) shall be chaired by the out-going Chairman; item (vi) by an acting Chairman who is not standing for election to office; the remaining business by the newly elected Chairman.
- (e) Nominations for Committee Members will be valid only if confirmed by the nominee, or previously in writing.

9. EXTRAORDINARY GENERAL MEETING

- (a) Extraordinary General Meetings may be called by the Committee, or not less than 8 members of the club; the date of this next meeting being the earliest convenient as decided by the Committee.
At least 28 days notice in writing must be given to the Secretary, who in turn, shall give members at least 14 days notice in writing of the Agenda.
- (b) The Quorum for the EGM shall be half the Club membership.

10. AMENDMENTS TO THE CONSTITUTION

The Constitution may be amended only at an EGM called for that purpose.

11. WINDING UP OF THE CLUB

- (a) The decision to wind up the Club may be taken only at an EGM.
- (b) The funds of the Club shall, after the sale of all assets and the payment of all outstanding debts, be disposed of as directed by Members at the final EGM.

Appendix

Safeguarding Children and Vulnerable Adults

1. Introduction

- 1.1 The whole area of safeguarding children and vulnerable adults is currently subject to much change and we need to keep abreast of those changes. All clubs are reminded of their responsibility to take all reasonable steps to safeguard the welfare of children and vulnerable adults when they are engaged in club activity and/or on club premises.
- 1.2 A child is someone under the age of 18.
- 1.3 A vulnerable adult is someone aged 18 or over:
- who is, or may be, in need of community services due to age, illness or a mental or physical disability and
 - who is, or may be, unable to take care of himself/herself, or unable to protect himself/herself against significant harm or exploitation (Department of Health 2002).

Where this note refers to children, similar considerations apply throughout to vulnerable adults.

- 1.4 A scheme was set up following the enactment of the Safeguarding Vulnerable Groups Act 2006 to vet individuals who had access to children or vulnerable adults through their work or voluntary activities. As far as the RSGB was concerned, compliance with the Act entailed carrying out CRB checks on what were then known as Registered Instructors .
- 1.5 In 2010 the government announced that the scheme would be scaled back in a “common sense and proportionate” way and, as a result, new legislation (The Protection of Freedoms Act 2012) will be enacted this month (September 2012).
- 1.6 Around the same time, the RSGB and the RCF recognised that there was no requirement for Instructors to be registered with the RSGB; in reality, anyone could deliver training, including self-training by exam candidates. The policy was therefore changed so that only those individuals that carry out Practical Assessments need to be registered with the RSGB and were then subject to CRB clearance. These are official roles carried out on behalf of the RSGB/RCF, with the responsibility of saying that candidates are competent in specific activities prior to being allowed to sit the appropriate examination. In reality, most Assessors are also Instructors, but that is not a requirement.
- 1.7 This note advises of changes to RSGB policy regarding CRB checks, provides advice to clubs and independent training providers on their position and recommends good practice.
- 1.8 Further legislative changes are planned later in the year and further guidance will be issued if required.

2.0 Discussion

- 2.1 The Society has the responsibility for ensuring compliance with the regulations as far as its staff and volunteers are concerned. In practice this affects Registered Assessors (i.e. those who carry out practical assessments prior to Foundation and Intermediate examinations).

- 2.2 Clubs and independent training providers have the responsibility for ensuring compliance for volunteers who teach students or supervise examinations, within the context of their overall duty to protect children and vulnerable adults. This means trainers and examination Invigilators.
- 2.3 The CRB Checks Guidance for Volunteering published in 2008 states that the decision as to whether to make a CRB check is a matter for the employer. Our legal advice is that “Employer” in this context means the RSGB for Registered Assessors, and clubs and independent providers for trainers and examination invigilators. It goes on to state that the decision should be part of an overall risk management process. The decision should, it states, be made “carefully” and “because there is a strong and demonstrable reason for doing so and not just in case”.
- 2.4 The “test” for assessing whether a person is recommended and eligible for a CRB check is if
- a) they engage in a “regulated activity” (in this case, any form of teaching, training or instruction of children and/or vulnerable adults) **AND**
 - b) they carry out this activity **EITHER** frequently (once a week or more) **OR** on more than 3 days in any 30 day period.
- 2.5 After careful consideration of the advice it is clear that
- Some trainers may fall within the definition in 2.4, depending on who they teach and how their teaching time is structured.
 - The role and scope of registered assessors do not fall within the definition in 2.4 and RSGB-sponsored CRB checks will cease. RSGB HQ will continue to take up references before registering assessors. Some registered assessors are also trainers, however, and may qualify for a CRB check depending on 2.4 above.
 - The role and scope of examination invigilators do not fall within the definition of a regulated activity. Some examination invigilators are also trainers, however, and may qualify for a CRB check depending on 2.4 above.
- 2.6 Notwithstanding the above, it may be that some trainers already have CRB clearance due to their activities outside of the club.

3.0 Recommendations

- 3.1 All RSGB Affiliated Clubs should formally adopt and implement the RSGB Child Protection Guidelines whether they teach students or not, and this should be made widely available. The RSGB Guidelines are available on the website using the following link
<http://www.rsgb.org/tutors/general/pdf/childprotection.pdf>
- 3.2 All independent clubs and independent training providers should develop a Child Protection Policy whether they teach students or not, and this should be made widely available. Guidance is available on the RSGB website using the following link
<http://www.rsgb.org/tutors/general/pdf/childprotection.pdf>
- 3.3 All clubs should review their teaching schedules. If a trainer’s teaching commitment falls within the definitions described in 2.4 above then a risk assessment must be undertaken by the club or independent provider to determine whether a CRB check is warranted. There should be consideration of how well the risk is mitigated by the attendance of parents or other responsible adults.

- 3.4 If the risk assessment causes the club or independent provider to decide that a CRB check is warranted then it is their responsibility to initiate the check. The General Manager is available for advice in such cases. Please send a copy of your risk assessment to gm.dept@rsgb.org.uk in the first instance.
- Please note that if the trainer is an RSGB member, RSGB HQ will organise and fund an agreed check on their behalf. Non-members will need to make their own arrangements.

4.0 Conclusion

- 4.1 The RSGB is committed to protecting children and vulnerable people from abuse, and supporting affiliated clubs in their endeavours in this respect, as a result of their amateur radio activity. The guidance above, and the RSGB Guidelines referred to, provide a proportionate framework within which we can work.

Graham Coomber
General Manager

14th September 2012

ADARC CLUB GUIDELINES

General

- These Club rules are authorised by the Committee and will be maintained by the Club Secretary.
- Any comments or amendments should be forwarded to the Sec. They will be reviewed annually.
- Nothing in these rules is intended to contradict the Club Constitution. Any inadvertent conflict should be brought to the attention of the Sec.

Objective

The objective of ADARC is to promote the educational hobby of Amateur Radio in the North Devon area as an affiliated club of the Radio Society of Great Britain (RSGB).

Club Officials

President
Chairman
Vice Chairman
Treasurer
Secretary

3 Elected Committee membership

Maximum 2 co-opted members with full voting rights

The Committee shall have the right to appoint Members to various Club Roles as and when the need arises. Such appointments shall automatically include eligibility to be co opted in a non voting capacity onto the Committee.

Safety

- The safety of Club members and members of the Public should always be the paramount consideration in the organisation of any Club events.
- In particular, Health & Safety regulations and the protection of minors and vulnerable adults must be fully considered in all Club activities.
- Members are responsible for their and the public's safety when operating their stations and equipment when used for Club activities.

Membership

- Club membership is open to all, whether licensed and non-licensed, who have an interest in Amateur Radio.
- The annual subscription (currently £13) runs from March each year and members are requested to pay by end May. Late subscriptions will normally be accepted at the discretion of the Treasurer!
- All members should complete a Club Membership Form which will be used by the Secretary to maintain a register of members.
- Members under 18 should have parents or guardians permission to join the Club.
- Members under 16 should be accompanied by an adult approved in writing by their parent or guardian.

Meetings

- A monthly meeting will be held in the Appledore area. Visitors are welcome, but regular attendance will

normally be expected to lead to a request for Club membership.

- It is intended that one of the meetings each year will be on a non-radio theme to encourage family and friends to attend.

Monthly magazine (5&9)

- A monthly magazine will be e-mailed to members. Those who wish a hard copy can make arrangements with the Club Secretary for a postal copy, but must provide stamps or preferably an SAE.

Club Callsigns

- The Club holds the following callsigns :- GX2FKO and G2FKO
- The Club licence holder is M0JKL, who is responsible for the correct use of the Club call and approving the arrangements for use of this

Operating Standards

- Members should always operate within the terms of their OFCOM Licence. Foundation and Intermediate licence holders may operate the Club station at full power under the supervision of an approved full licensee.
- All members are encouraged to promote high operating standards and adopt the approved operating procedures as indicated on the accompanying RSGB 'Good Amateur Radio Operating Practices' document.
- This is particularly important when operating or joining Club nets. These may be listened to by a wide variety of SWLs, including Children, and visitors to the area. The regular nets act as the Clubs' 'Shop Window'
- Remember that all electronic communication is 'open'. Never say anything on air that you would not be prepared to see reported on the front page of the 'Daily X....' !!

Club Equipment

- The Club has several transceivers and ancillary equipment. The Club Secretary acts as the custodian. Equipment may be purchased or disposed of as agreed by the Committee. It may be necessary to raise money, on occasion, should members agree that significant new equipment purchase is desirable.
- The Club equipment is available for use at 'events' and may be loaned to licensed club members for specific purposes.

Club Affiliation

- The Club will maintain an affiliation with the RSGB.
- The club also has affiliation with FISTS (No 15,870).

Operating Events/ Contests

- The Club will plan to run a station at various local public events during the year. This both helps to increase the profile of Amateur Radio with the public, and provides members with an opportunity to set up and operate a 'temporary' station. All Club members are encouraged to visit these events. Volunteers who assist in running and operating the station are particularly welcome, and it usually provides an 'educational'

experience in one way or another.

- Although the Club is not historically a 'Contest Club', there are many smaller activity and special events that provide an ideal opportunity to experience and participate in station operation, with a good number of stations on the air. A Club aim is to encourage and facilitate members or groups who would like to participate in any of these (for example the RSGB club cumulatives).

Good Amateur Radio Operating Practices

Showing consideration for

- Remember that radio contacts are private – the amateur radio community is a public place
- Use language that is clear and will not offend
- Leave music to the broadcast stations
- Keep a copy of the band plans to hand and follow them
- Use amateur codes and abbreviations on amateur bands when they are appropriate (e.g. Two Echo Zero, QSY, 73, 5&9) and avoid codes or jargon from other radio users (e.g. CB, PMR, military, marine)



The phonetic alphabet

A	Alpha	N	November
B	Bravo	O	Oscar
C	Charlie	P	Papa
D	Delta	Q	Quebec
E	Echo	R	Romeo
F	Foxtrot	S	Sierra
G	Golf	T	Tango
H	Hotel	U	Uniform
I	India	V	Victor
J	Juliet	W	Whisky
K	Kilo	X	X-ray
L	Lima	Y	Yankee
M	Mike	Z	Zulu

- Keep overs short as you would conversation – new friends might want to join in or conditions might change such that your signals fade away
- If you find another station on 'your' frequency politely ask them to move, or move your QSO to a clear frequency – propagation may have changed and they may have been there all the time
- Find a clear frequency to tune up on and keep a note of your ATU settings for quick retuning next time you use the band
- Reduce power to minimum whilst tuning – it's safer for your radio and less interference to others

Calling other stations

- Listen carefully to the CQ call – is it a general call to all or a specific call to one continent or country?
- Only call if the general or for your area (e.g. 'CQ UK' or 'CQ Europe') or your callsign group (e.g. 'calls with zero only') your turn will come – be patient



- Always give your callsign in full remember to send the other station's call first (e.g. 'Delta Six Eight Charlie from Golf Zero Alpha Bravo Charlie')
- Answer CQ calls once then listen; only call again if no other station has been identified – be patient
- If the station you are calling is not working anyone near you wait a while and try again later – be patient
- Try calling CQ on bands that sound dead – others may be waiting for a call
- Remember, there is no need for 'CQ' on a repeater just 'M6XYZ listening through GB3UB' is enough

Helping

- Keep the hobby growing and help newcomers to get started
- Offer friendly advice to help others improve their skills
- If you can hear someone calling CQ and no one is answering, give them a call, even if it is just to let them know their signals are getting out

- Always give accurate signal reports you need 3 repeats, they cannot be 5&9
- Inspire others to be good operators by being one yourself
- If someone needs help (e.g. with putting up an antenna) lend a hand – you may need help next time



Being

- Use the bands without abusing privileges that your Licence gives you
- Join in club activities (local, national or both) – they provide an excellent opportunity to help others and to

Learning

- Familiarise yourself with your own equipment (e.g. Know how to work 'split')
- Read through the whole of your Licence – the training doesn't cover all of it but you must comply with the parts that apply to you
- Read up on topics of interest (the RSGB operating manual is a mine of information)
- Try new ways of operating (e.g. back-

- Experiment with different bands, modes – learn by doing
- If you don't know something, try to find the answer, search the web, read some books or ask for help
- Set yourself some goals (e.g. To upgrade your licence by the end of the year, to work 100 countries in a year/month/ weekend, to learn Morse and get a proficiency)

