



# KEYNOTE



**OFFICES**

**QSL Manager: M0AVW**  
32 Woodford Walk, Thornaby, Cleveland.  
TS17 0LT

**PRO: G4YLB J.A.Welsh**  
3 Minster Cresc. DARWEN. BB3 3PY

**CONTEST MANAGER: M0BPT**  
38 Wheatley St. West Bromwich, B70 9TJ.

**EDITOR: M0BMN**

Paul Webb, 40 Links Road, Penn, W-TON, WV4 5RF  
E-MAIL paul@m0bmn.co.uk or webmaster@fists.co.uk

**COMMITTEE**

**Chairman** G4XHZ  
**Vice Chairman** G4YLB  
**P.R.O.** G4YLB  
**Secretary** G3ZQS

Recommended calling QRGs:  
3.558, 7028, 14.058, 21.058, 28.058

**AWARDS**

E-mail apps/logs to Dennis K6DF  
<fistsawards@comcast.net>  
Written logs to HQ. No charges and no return envelope required.

**SUBS:** Email Keynote £4.00. UK mail £5.00, EEC mail £7.00 others £10.00. Your renewal date appears on the mailing label and your anticipation would be much appreciated. Cheques should be made payable to just FISTS and sent to M0AVW (address on banner)

**Please** include your **CALLSIGN** on all correspondence.

**Useful contacts:**

M0AVW 01642-869619 <m0avw1@ntlworld.com>

M0AYI <glenn@m0ayi.freeseve.co.uk>

MOZAK <jim.stel@ntlworld.com>

M0BMN 01902-338973 <paul@m0bmn.co.uk or

webmaster@fists.co.uk>

I am new to this "Editor" work so I am sure I will make a few mistakes as I learn so bear with me. I also need your contribution if the newsletter is going to work so please send me your articles and news items for future copies of Keynote. I am sure together with the help of my friends in FISTS we can make a newsletter worthy of our organisation.

**FISTS Web Site News HTTP://WWW.FISTS.CO.UK**

May I Start by thanking Andy for running the FISTS web site in the past and doing a very good job of it, I have spoken to him recently and we have agreed that I will be taking over the role of Webmaster, this works well for me as I wanted to link articles in Key Note with full stories on the web site, certain articles will have a larger story on the web site together with larger and better photos. I will also get the Ladder scores put up there. Let me know what you would like to see on the site too!

**Rally News**

Recently John M0CDL and myself decided that we were fed up with the way that radio rallies are going now days, with more and more expensive black boxes from the big three and less in the way of dedicated CW rigs being offered either in Kit or ready built form, in fact rallies used to be a place where many amateurs went to just meet up and talk about our hobby, Well rather than just moan about it we are now attending a number of rallies to support the old ways, we will be promoting FISTS and the G-QRP club (I know many of our members are also G-QRP Club members too) at these rallies we will be displaying a selection of high quality CW radios that you don't see every day (Like the full Elecraft range) but above all we will be happy to meet and talk to any club members that care to pop along. We have now completed one rally and our stand was very well received.

Here is Stan (G0BYA) having a play with my K2 at the Wythall Rally in

**QSL BUREAU**

**All outgoing QLSs to M0AVW** (address on banner)

UK members send stamps and labels (no envelopes necessary) to the appropriate sub-manager as below:

**M or 2 Prefixes** (Except for Wales) **M0AYI**, 7 Tynedale Terrace, Annfield Plain, STANLEY, DH9 7TZ.

**G0,GM0 etc** (Except for GW0), **G3JRY**, 3 Rochford Crescent BOSTON, PE21 9AE.

**G3. GM3 etc** (Except for GW3) **G0UQF**, 2 East St. Dartfield, BARNESLEY, S73 9AE

**G4. GM4 etc.** (Except for GW4) **MOZAK**, 6 Central Ave, SHEPSHEDPSHED. LE12 9HP.

**G1,G2,G5,G6.G7.G8** (Except for Wales) and ALL Special (GB etc) calls to **M0BPT**, 38 Wheatley St. WEST BROMWICH, B70 9TJ

**All members in Wales to M0AVW** (address on banner)

**EU/DX Members:**RCs' UK Banknotes, US Dollaers or Euros to M0AVW. The club will provide envelopes. Also, any excess over subs from non-UK members will be regarded as QSL postage unless otherwise advised

**Greetings people.**

I am so grateful to Paul M0BMN for jumping into the editor's chair. Similarly, Chuck,M0AVW, has been picking up some renewals for me. If you have anything which could form part of Keynote, pse QSP to Paul. Got nil response for txprt from Darwen to Teeside for a load of envelopes so perhaps I ill have better luck with Paul in Wolverhampton. Pse LMK if you can call here and pick up a few boxes (there are about 30 in all) and drop 'em off there.

Health wise am still a little doubtful. Back and other bits of me kind of threatening to strike, eyes SLOWLY deteriorating and optician completely useles but getting used to it and next month an appointment with the NHS optical specialist.

**Hello from New Editor**

First let me say a thank you to Geo for the hard work he has put in over a number of years in producing Keynote and to the help and support he and many others connected with FISTS both in the UK and Internationally have been with putting together this copy of FISTS Keynote.

My name is Paul Webb, I have been a Radio Amateur since the mid 80's, first a Class B with a G1 call, then a 2E0 with the 5 wpm Morse under my belt and later with my M0BMN call when I passed the old 12 wpm test some years ago. I am at present, a Full time "Mature" student taking a computing Degree at a local university in the Midlands. Most of my spare time is spent breathing in solder fumes as building equipment is one of the things I love about the hobby. I make no apologies for my leaning towards the QRP side of our hobby and I am sure you will soon see this love of QRP in many of my stories and articles. Over the years I have gained an appreciation for CW and despite still battling with my poor CW skills I really love this mode.



March, also shown is John M0CDL behind the stand. We had a number of FISTS members come and say hello and sign our visitor book which was great, many of the traders there said that our stand was the busiest at the show and I could believe it, after unpacking the car and walking about 1/2 mile to the hall I could have done with a nice sit down and a cuppa but even before the doors opened to the public we had visitors wanting to know who FISTS are and when the public came in they were queuing up to talk to us, we even had a visit from the Robert M0BPT (Contest manager) .

John and Myself will be attending a few more rallies this year too, we have confirmed bookings at the Red Rose QRP festival on the 4th June with a large 12ft table set aside for us! And also in September at the Castle Donnington Rally, it's a two day event and we will be there for both days. If you are going to either then please come and say hello, we will have free sweets!

### Anyone for 2M CW?

I have received a email from Terry (G0TMX) commenting on the activity or rather the lack of it on 2m CW, Terry says that he often can work hundreds of miles on 2m with just a handful of watts." *It's a nice quiet band without all the noise that you find on HF but just doesn't seem to get used by many people*". He comments that the situation has not always been like this and back in the early 90's 6m and 2m had plenty of C.W. operators and getting QSO's was easy. He would like to encourage people that have this mode on their 2m radios to give it a try, and that he has found that even simple vertical antennas like the sort many of us have strapped to our chimney stacks will provide good range with just 10 watts or so. I must admit to being one of these people that doesn't operate 2m CW at all and I must admit that I have never even considered using CW on UHF. Let me know what you think! Is it worth trying for local VHF/UHF FISTS nets ??? If so what band 6m? 2m? or like many of us do you prefer to listen for contacts in the high noise levels that are found on the HF bands. Let me know.

### The Suns sleeping

Well its now official, we are at the sunspot minimum, Nasa have now stated that there was no sun spot activity for the month of February (well for 21 days out of its 28), this is seen by them as the start of the solar minimum phase of the standard 11 year cycle. In fact NASA say the really the cycle that gives us great DX contacts at its peak is in fact a 22 year cycle with just a small peak and dip at the 11 year spot. NASA scientist expect this low sunspot activity to continue for the rest of 2006 so we may find that its harder and less common to make those rare DX contacts for a few years to come. But even at the lowest point of the cycle the odd flare can occur that can give band openings so keep your ears open.

### Editors "One a Day" Challenge

From talking to many friends both FISTS members and not it is clear to see that many people are interested in CW, but since they lack confidence with their own CW skills they do not use the mode. I have suffered from this too, the less you use CW the harder it is in getting back on air with it. I have found the best way (in my opinion) to get going again is to aim at one CW QSO a day, it can be a simple rubber stamp type at first, that's fine, use crib sheets if that helps, I even know one friend that runs a Morse decoder program on his PC as backup if his receiving skills let him down. Do what ever you need to do to get that one QSO a day done! Try on the FISTS frequencies first but remember the golden rule, NEVER send faster than you can receive, its easy to blast out code at high speed but a completely different thing to receive it at the same speed. Any decent operator will slow down to your speed, so don't worry about that, if they are sending to fast just send QRS back to them and they should slow down, if you have sent the CQ call and they reply at to high a speed then just send CQ again until they either slow down to match your speed or someone else calls you. If you have no luck on the FISTS frequencies then try the standard QRP Frequencies next.

Keep this "one a day" routine for a full month and you will be amazed at how much your CW improves. Another good time is when the FISTS ladder is running, there will be many FISTS operators on air and they will all be grateful for the points that a QSO with you are worth. Good luck and let me know if it helps you.

### Falkland Islands Trip – a Brief Report from Andy, VP8DJO / ZD8AD / G0JLX (Full Story with ALL Pictures our Web Site <<http://www.fists.co.uk>>)

As some of you may be aware, I have just returned from a 1 month trip down to the Falkland Isles, located deep in the South Atlantic Ocean, some 51½° S, and almost 58° W.

The background to this trip was that it was intended to last for 2 weeks, that I was very weight limited, I needed a good selection of clothes to accommodate vastly different weather conditions, so I had no space for even my portable ATU, and the VSWR function needed to be entrusted to my FT-897 rig – so no space for external metering at all. I needed a small, lightweight portable antenna that I could just chuck in my suitcase and go with, so rather than tote the doublet and the tuner that type of antenna implies along, I thought I'd try the ultra lightweight option of a Buddipole for a change.

I also had to purchase a suitable switch mode PSU that was both light-weight and able to give me 22A on demand, as my good old (very large solid linear Drae) PSU that I took out to Ascension Island with me last year was just not for this trip with clothes as well.

For those that don't know, the Falkland Isles comprise two main islands, East and West Falkland, and a gaggle of smaller islands surrounding them with an amazing variety of wildlife. Terrain varies between flat-ish open tundra and a range of mountains that rise to well over 1300 feet in places. Wx varies daily between beautifully sunny and a howling gale with hail or rain and temp ranges from -2°C to +19°C or so in summer.

Upon arrival at the house I was staying at, it was immediately clear that this was not going to be the best radio site in the world as it was a bungalow, situated about 1/3 up a hillside, with an 11kV power line running behind the house and a huge mast or two on the top of the hill behind us. I noted that the house was not very high above the water line of the local sea inlet that abound the Falklands. Across the water there was another set of sizeable hills!

On my first full day I called by the main Post Office in Stanley (the sole issuing authority) and completed a small application form, paid my one-off £20 fee for a lifetime licence and walked out 10 minutes later with callsign VP8DJO. Wonderful – all set for some fun.

I was operating exclusively from East Falkland on this trip – sometimes from the bungalow where I was staying in Stanley, sometimes from the 4WD jeep on a hilltop. To be honest, I got better results when operating /mobile from the jeep than I did from the bungalow as the latter was so low down and near the sea water level. The hills across the other side of the inlet also played a part in my poor Tx sigs from this QTH methinks.

Station comprised my trusty FT-897 & new PSU running 100W into either the Buddipole (40m – 10m) or one of two very low dipoles (40m & 80m) and a straight key. Given that this was supposed to be a short sharp trip, operating was only ever going to be a couple of hours per night at best, so I decided to give it a go anyway, and the Buddipole was duly set up on its pole at the end of the garden strapped to a rather wonky metal fence-post hammered into the rocky soil at a most strange angle! See photos.

It was only at this point in time that I realised that I'd left the damn tuning chart for the Buddipole in the UK !!!

For those of you unfamiliar with the Buddipole, it has two fixed arms, two coils with individually-settable tapping points, and two telescopic arms that between them provide resonance per band with some careful setting. It was the chart of those careful settings I'd left behind in the box at home, some 8500 miles away.

After finding out how to access the internet locally (and that's a palarva), I was able to get an email message to Budd, W3FF, the designer and original builder of the Buddipole and have his firm send me a soft copy of the tuning chart by email (wonderful invention). Armed with this info I was able to get the Buddipole working on a couple of bands with a reasonable VSWR as reported by the rig's VSWR bar meter function. In the meantime, I had knocked up a couple of single band inverted V dipoles as mentioned for 80m and 40m that worked, but were really far too low down near the ground to be very effective.

The Buddipole comes complete with all the hardware needed to achieve connection to the radio, except that I needed to extend the feeder a good bit to reach the back fence where the antenna was from my back bedroom in the house where the shack was. Fortunately, I was able to make a long coaxial extension up with a back-to-back adaptor without any difficulty and weatherproof it. It all worked OK and I was able to get started.

Initial results were promising – lots of the right sort of noise out of the Rx and once the settings for each of the intended bands were established for the Buddipole, I found it quite quick and easy to QSY – especially between some bands where I just had to swap the coil tapings over and leave the arms and whips alone.

Generally, band conditions were not kind – with only a handful of QSO's into South America and the odd one into North America or Canada, it became quite clear that propagation was not working well, except for a couple of days when I decided to try operating /mobile from local hilltops that I could reach with the jeep.

I persevered with the station in the bungalow, calling and calling, but apart from the odd QSO as above, very little doing. Plenty of activity on the bands – I just could not make myself heard – 51 to 53 Tx was good going for this station. I did think the take-off angle for the Buddipole might be a bit high and that was almost confirmed one day when I heard VP8DIZ calling from about 30 miles up the road – and I could NOT get back to him on 15m.

2m is used by everybody on the Falklands, so only very limited opportunity for an Amateur Radio "chat" there. 70cm is even more limited with very little activity, so I decided to stay firmly with HF apart from a couple of natters on 2m with VP8ML.

After about a week, it became clear that the bungalow site was not good. Only a handful of QSO's as reported, so I decided to try the mobile option. Key factors here were that the QTH had to be accessible with a vehicle, be fairly level and of at least moderately hard standing (very difficult on peat bog to stay afloat in a jeep, even with great big wide tyres if you stop moving). Much examining of the OS maps available ensued and mission planning swung into action as this was clearly going to be a major expedition or two.

Secondly, I had to get the Buddipole off the fence at the bungalow and get it strapped onto the front bullbars of the jeep somehow – see pictures of the result – wonderful what you can do with a broom stick and a few hefty cable ties and a bit of improvisation !!

Amazingly, I realised that I had not bought any big croc clips for connecting the rig to the battery, so had to run around in Stanley one day looking for some – and even that was easier said than done. As you can see from the pictures, I did manage to find some eventually, and made them up onto the long power cable for the rig I'd bought along 'just in case' of /m ops. Upon opening the bonnet, I discovered that the jeep had two batteries – one for starting and one for the aircon and auxiliaries (i.e. radio). Great !

The first attempt was on what I had hoped would be a good site a few miles away from the mountain range, on the south side of it, overlooking a great deal of East Falkland, but to my disappointment, after 5 hours, only about 4 QSO's. QTH abandoned. . . . . that's the one in the pictures.

On the second attempt I tried a different QTH on the way to Salvador in the north of East Falkland, so I was north of the mountain range for a change – and had spotted a good flat RF takeoff to the north, west and east for a long way (several miles) before any hills !

On this trip, I did manage a few QSO's with the UK and Continental Europe very successfully and somebody very kindly (!) spotted me on the DX cluster. As I worked through the resulting pileup over the next couple of hours until the band went flat again about 7pm local, just as it was getting dark, I did manage to work my old chum G0OOC, who although not a FIST by any means, has only just emerged from the depths of single band working on 80m to the wonderful world of multi-band HF. His setup is modest, but he still managed to get a 57 from me. It was interesting that he could only give me a 54 however, which I think proves the point I was making. 8500 statute miles as the Upland Goose (and RF) flies as far as we could tell.

The nice thing about a huge diesel engine is that it can chug away for hours and hours and not get fussed about it – so running the engine on tickover to keep the batteries in good condition, and myself warm whilst operating on said hilltop was of no concern at all. Chill factor when stood outside the jeep on the rock, reaching up to adjust the Buddipole for QSY's was frightening. I felt chilled to the bone when I got back into the warm jeep.

Unlike in the UK when I do this, I had no thermos flask for a cuppa, so resorted to soft drinks to keep the throat lubricated. You can perhaps imagine the scene ? The pictures only tell a small part of the story.

The other big problem was keeping the log – I was writing all this down in my log book which has a hard cover – just as well I hear you mutter. But the steering wheel kept getting in the way and I almost resorted to



sitting in the passenger seat (or even the back seat ??) to operate. Next time I might just consider the jump seats facing each other in the rear luggage compartment that are normally folded up. Aahh, the joys of operating

from a 4WD camper van with a table I hear you cry. . . .well, I'm on the lookout.

And that my dear friends is about the size of it for this ditty – a month long trip and only just about 100 contacts, but I have to say it really was most enjoyable and I look forward to working you very soon if you're not already in the log. Of the couple of CW QSO's I had, they were all into South America, and not a FIST amongst them, but never mind – there's always another time.

Vy 73 de Andy

For the Story with all the pictures go to the FISTS Web Site <http://www.fists.co.uk> and follow the links under Current Key Note 04/06 .

### Review of the Brent CW Transceiver Kit from Walford Electronics by MOBMN

From time to time and when space allows I will pop in a review of certain CW Related items . in this edition I will be looking at a nice and simple CW kit.



The Brent is a Direct conversion radio that gives around 1.5

watts of output, not a lot but you would be surprised how far this can get you if you have never played around at this power level before.

The kit costs £34 plus £2 postage which in my opinion is good value, I was looking for a simple, small radio like the old FOXX3 from Kanga and after a few emails to Tim Walford I was convinced that the Brent would be a better bet for my needs, The kit arrived very shortly after placing my order and the first thing I did was to do a full inventory of the parts, I was pleased to see that they were all there, I read the instructions which seemed clear and then had a good look at the circuit board ready to start work, now the one thing you will notice with all of the Walford kits is that the board is NOT silk screened, in fact the board reminded me of the days when I used to make my own PCB's for projects in Hobby electronics magazine (do you remember that?) . It's a decent quality board with a coating which stops the copper from oxidizing and allows for easy soldering. The instructions have you place a few large components first so you can find the location of smaller parts easier as you go. Having built a number of other radios like the Elecraft K2, K1 and KX1 I can say that the building experience offered from the Walford kits is completely different, the Elecraft kits are really like painting by numbers, its hard to go wrong and as long as you can solder you can build the radio, with the Walford kits I found that I did need to look at the circuit diagram a few times to be sure that I was placing the right part in the correct holes and I found I had a better understanding of what I was building because of this. The kit went together well, I built it in stages as per the instructions and tested each stage as it was built following the methods for this in the literature with the kit,

It took me a couple of nights to build the Brent and it worked first time, it covers about 3.500 to 3.600Mhz and seems to be stable with a nice side tone. I had my first QSO with a FISTS member (John, M0CDL) and he reported that the Brent sounded nice and without chirp or other nastys. The kit does not come with a case its just in flat form so the next stage is boxing it up. I will be taking it along to the rallies with me so if you come you can have a look yourself.

The Complete build of this in photo form is now on the Web site, just follow the links from the home page. To current Key Note 04/06

#### Conclusion

The Brent may not be ideal for first time builders, it does require the builder to have some understanding of how electronic circuits work but that said the instructions are good and I had no problem following them, if you want to know anything the a quick email to Tim we get you the answer and put you back on track. The cost of the kit is very reasonable when you consider at the end of the project you have a complete working transceiver that covers just about all of the important end of 80m (that's the CW end!) Also if you don't like or want 80 there is a add on board that will allow the Brent to work on any band of choice between 80m and 20m, if you feel that the 1.5 watts (just under 2 watts on mine) output is to low for you there is a Add on Amplifier kit that will give you 10 watts output from a 13.8 volt supply and considerably more from higher supply voltages. If you want to have a look at the wide range of kits offered by Walford Electronics have a look on their web site <http://www.users.globalnet.co.uk/~walford/> Link also on the FISTS web site under useful links

## DX Expeditions

From the 16th-19th June 2006 I will be operating from OC-181 Witu Island signing P29VV. I will use SSB and CW on 10,15,20,30 and 40 meters. QSL info and additional information will be published on <http://home.quicknet.nl/mw/prive/willwmsen/> when possible I will operate from OC-008, New Britain, a few days before and after the expedition to OC-181

73 PA3EXX, VK4WWWI

- OZ/DL7UZO, by Tom, from Jylland North Group (EU-171) - May 13/31 . 80 to 10m included WARC + 2 and 6M. CW, SSB, PSK31, RTTY and WSJT. Skeds are possible via e-mail ([dl7uzo@gmx.de](mailto:dl7uzo@gmx.de)). QSL via home call, direct or bureau.

- EA6/DF7XE by Hellmuth, from Isla de Formentera (EU-004, DIE E 024, MIA MB-002, WLOTA LH-1148). May 14/26; CW, PSK31, SSB, and RTTY. QSL via home call, direct or bureau.

- CT3/OE3JAG, by Karl, from Madeira Island (AF-014, MA-001, Grid Loc. IM12, WLOTA LH-0053), MAY 15/22. Main activity on 30 and 20 meter CW, PSK and RTTY, . Will be QRP with a dipole or long-wire antenna. QSL via home call, direct or bureau.

-JA1UNS/1, J11PLF/1, 7NGMK/1, 7L4PVR/1 and 7N4VPS/1 plan to be active from Hachijo Island JA1 South Izu. (IOTA AS-043, WLOTA LH-0446, AS-043-003 JIIA Award ) MAY 19/22, all HF bands CW/SSB. QSL via their home calls, direct or bureau.

### Silent Key

It is with regret that I must inform on the sad news of the passing of GW0SSG. Bill was a staunch supporter and many will remember him for his presence on our behalf at Swansea.

### New FISTSCW Email Forum Started at Yahoo Groups

[HTTP://groups.yahoo.com/group/fistscw](http://groups.yahoo.com/group/fistscw)

I have just been given news of a new email Forum group started by Mark M0BLT which already is growing fast with over 60 members already signed up. Until this newsletter its existence has only be know by word of mouth, so I am sure Mark can expect many more members to join in the next few weeks! When I spoke to Mark about this "FISTS Reflector" he told me it was setup to allow members to have a way to arrange Skeds, chat and share information in a quick easy way without having to wait for a paper copy of Keynotes to arrive once a month. Well having joined myself I can say that it is indeed a great way for FISTS members to stay in touch it has a good community feel too. Well done Mark on setting it up!

### I Need Your Help!

This is the first Key Note for some time, lets not make it the last, I need articles and stories from FISTS members, I would guess some people will be criticising various articles I have included in this edition , that's to be expected, you cant please all the people all of the time. So please feel free to let me know what you liked or disliked so I can "tune" key-note to suit the readers better, but please email, write ,phone or bang on the front door and give me your items to be included in Key Note for next month. With out items from the readers its going to be hard work to put it together each month so please help me out. **My Contact detail on Banner or via WWW.FISTS.CO.UK website**

## FISTS Ladder and FISTS WARC Challenge

I am sure that many of you that take part in any of the on air activities will be aware of the sterling work being done by Robert M0BPT (The Contest manager) in keeping the regular contesters informed as to what's happening, in fact for some time Robert as been producing a mini newsletter himself for the FISTS contest community with great success. For those of you that don't get this I will be including larger than normal amount of contest type news in this edition (since it's the first for a while) to start with the results of the FISTS Ladder for 2005 are at the bottom of this page, Congratulations to Peter M5ABN who after a hard battle with Peter G4LHI managed to pip him to the post by just two points! And came out top of the pile for 2005. Now lets see what happens in 2006...

The returns for 2006 will be included from the next edition of Key Note so look out for that, yours truly may even be in the running!

## FISTS CONTESTS 2006.

Fists W.A.R.C Band challenge

This challenge is separate from all other activities in the FISTS calendar.

From 00.01 1<sup>st</sup> January 2006 to 23.59 31<sup>st</sup> December 2006.

Bands 30M, 17M & 12M

### RULES

Mode: C.W. Only Scoring: 1 point non members, 2 points FISTS members, 3 points Fists club Stations.

Exchange: FISTS nr, or NM, and IARU locator square, (Four character format) which can be used as a multiplier for the total number of contacts made during the year.

EXAMPLE:- #5576 (or) NM IARU Loc IO82

FOR THE LOCATOR SQUARE TO BE ELIGIBLE FOR A MULTIPLIER, A CLUB MEMBER MUST HAVE BEEN WORKED WITHIN THE SQUARE. i.e. G9XYZ scores 2,400 points and gains 12 different locator squares on a combination of all three WARC Bands.

= 2,400 x 12 = 28,800.

REPEAT STATIONS: CAN ONLY BE WORKED A MAXIMUM OF FOUR TIMES PER MONTH.

### AWARDS:

Outright winner: The "G3ZQS" Award with your call, year, etc, Engraved.

1<sup>st</sup> Runner up: certificate 2<sup>nd</sup> Runner up: Certificate

A certificate will also be awarded to the highest points scored by a QRP entrant. (Max 5w output at the transmitter) endorsed accordingly.

Therefore all entrants must declare their power output.

A certificate will also be awarded to the highest scoring "Receiving station" log.

### LOGS.

LOGS; to include; CALL/NAME/LOCATOR/QRG/RST/TIME/FIST No or NM/POINTS SCORED

EXAMPLE:- M0BPT ROB IO82 30m 579/599 11.48 #5576 (or) NM 2pts  
Monthly returns by the 14th.

By email in excel format if possible please to:

[m0bpt@blueyonder.co.uk](mailto:m0bpt@blueyonder.co.uk)

Land mail to:

R.D.Walker

38, Wheatley Street. West Bromwich,  
West Midlands, B70 9TJ, England.

The purpose of the challenge is to promote activity on the WARC Bands  
It is not a contest

CALL "CQ FISTS" on or around the following frequencies;

30m 10.118 MHz

17m 18.085 MHz

12m 24.918 MHz

CALL	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTALS
M5ABN	32	41	30	32	20	18	28	10	0	45	37	34	327
G4LHI	28	30	34	26	22	12	35	27	24	30	27	30	325
G6GUN	8	10	0	0	0	0	7	4	17	20	17	17	100
OH7QR	3	10	19	5	2	10	0	2	2	11	0	25	89
M0DRK	0	17	4	10	0	4	2	10	8	11	9	12	87
M0BHA	18	25	16	8	0	13	0	0	0	0	0	0	80
GW4HDB	12	21	19	0	0	0	0	0	0	0	0	0	52
MX5HDF	2	7	7	0	0	5	6	0	5	10	0	8	50
2E0TEK	4	25	0	0	0	0	0	0	0	0	0	0	29
M0CMQ	0	0	2	0	4	2	5	0	0	4	0	0	17
G8XGQ	0	0	0	2	0	0	0	8	0	0	0	6	16
PA3AFF	0	8	0	0	0	0	0	0	0	0	0	0	8