

# Short Wave News

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**Vol. 5 No. 5  
May, 1950**



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By J. N. WALKER, G5JU

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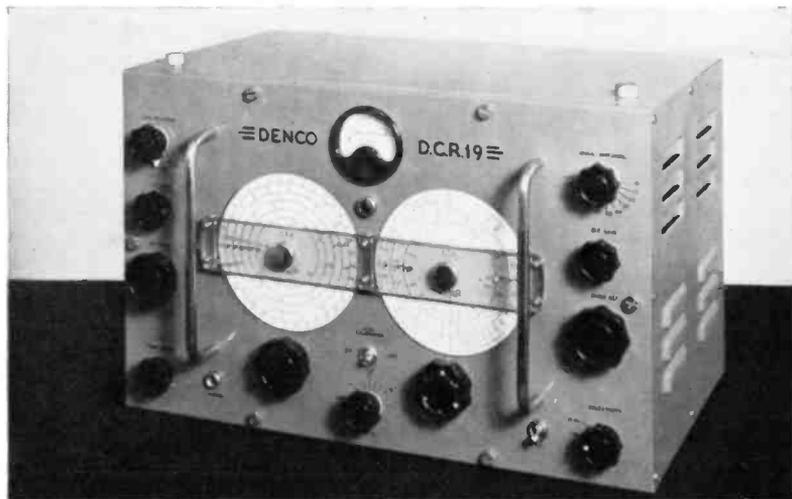
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# Short Wave News

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Asst. Editor - Frank Baldwin G193

## Editorial

### ISWL POLICY

OVER the past few months, the membership of the ISWL has grown by leaps and bounds. So much so that we feel a statement of policy would not be amiss at the present time. The League as such caters mainly for the Short Wave Listeners not only of this country but of those who are overseas. We shall continue to provide full facilities and the organisation for this important section of the Amateur fraternity; that is both our aim and our avowed intention.

While we have many transmitting licence holders among us, and welcome such members to the ISWL, we would state that we are not a Transmitting Society nor do we envisage a section of the League devoted to them. We are only concerned with the League Group Transmitters and the ISWL 3.5 Mcs. Net which we hope to put into effect in the near future.

A very fine organisation already exists for the G call holders and for a great many years now they have adequately catered for all the needs

of the transmitting fraternity. The RSGB, to whom we refer, has been of great help to the ISWL and we have every intention of co-operating with them further in the future.

Logically, therefore, it follows that we shall confine ourselves exclusively to the SWL's interests and activities.

### ISWL BROADCAST

The attention of readers is drawn to the Dedicatory Broadcast to be radiated over HCJB, Quito, Ecuador. It is to be hoped that as many members as possible will make a special effort to log this programme. HQ is negotiating at the present time for more of these broadcasts and we should be pleased to receive readers' letters on this subject. While on the topic of Broadcast Stations, mention should be made here of the affiliation recently effected between the League and the OTC Goodwill Club. OTC2, Leopoldville in the Belgian Congo, has for many months now provided members of their Club with an hour's programme every evening and the aims of the Goodwill Club are similar to those of the ISWL.

F.B.

THE EDITORS invite original contributions on short wave radio subjects. All material used will be paid for. Articles should be clearly written, preferably typewritten, and photographs should be clear and sharp. Diagrams need not be large or perfectly drawn, as our draughtsman will redraw in most cases, but relevant information should be included. All MSS must be accompanied by a stamped addressed envelope for reply or return. Each item must bear the sender's name and address.

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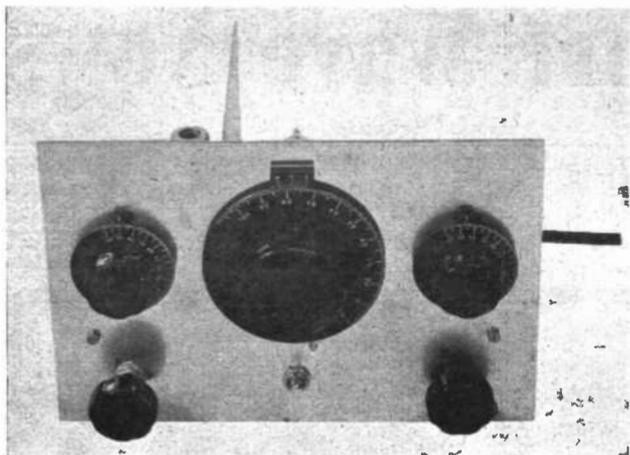
mission from the Editor. Opinions expressed by contributors are not necessarily those of the Editor or proprietors

COMPONENT REVIEW. Manufacturers, publishers, etc., are invited to submit samples or information of new products for review in this section.

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# A PORTABLE BATTERY RECEIVER

By  
J. N. WALKER  
(G5JU)

**T**HIS receiver has been designed primarily for portable use and therefore it has been made light, fairly compact and economical in battery consumption. At the same time, readers looking for a relatively inexpensive battery operated receiver for use at home will find this model of considerable interest.

The batteries usually form the heaviest part of portable equipment and, to keep the overall weight down, valves in the 1.4 volt series are employed. The HT battery can be either a 67.5 or a 90 volt type and a miniature size is suitable as the current drain is very small. The receiver is intended solely for use with telephones but there is ample room for a pentode output valve to be added, so making possible the use of a loudspeaker.

## THE CIRCUIT

The complete circuit diagram is given in Fig. 1. A fully tuned RF stage is included to give increased sensitivity and selectivity, and to prevent the aerial loading the detector stage unequally at different frequencies. The gain of this stage is controlled by adjustment of the screen grid voltage.

The leaky grid detector uses a pentode valve connected as a triode. Two reaction controls are provided—the variable condenser C11 for coarse adjustment with the particular coil in use and the potentiometer R6 to permit critical adjustment, very necessary to obtain maximum performance. The detector is resistance/capacity coupled to the pentode output valve. To reduce the current consumption and incidentally, to increase the audio gain, the screen grid of the latter valve is operated at a reduced voltage and it is permissible to insert the telephones directly in the anode circuit. The RF and output valves do not require negative bias and the circuit is thereby simplified.

Miniature valves are used in each stage because they perform more efficiently at high frequencies than the larger valves, now becoming obsolescent,

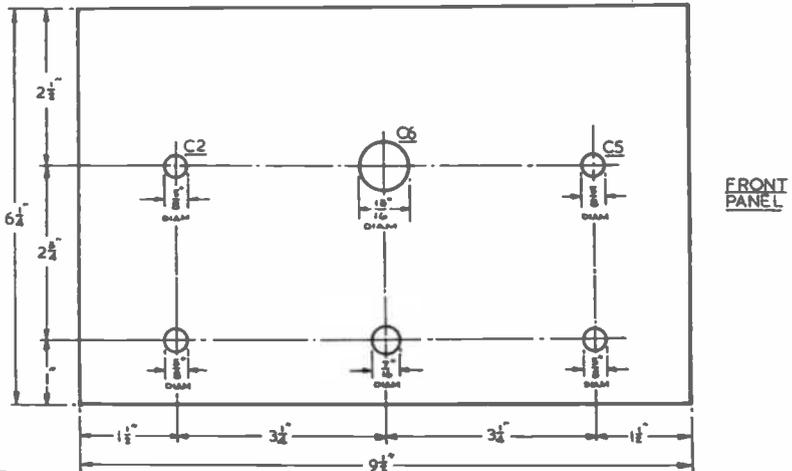
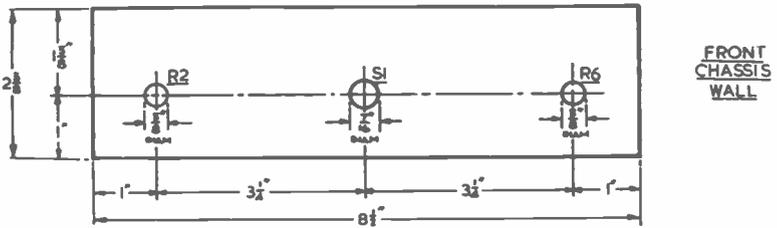
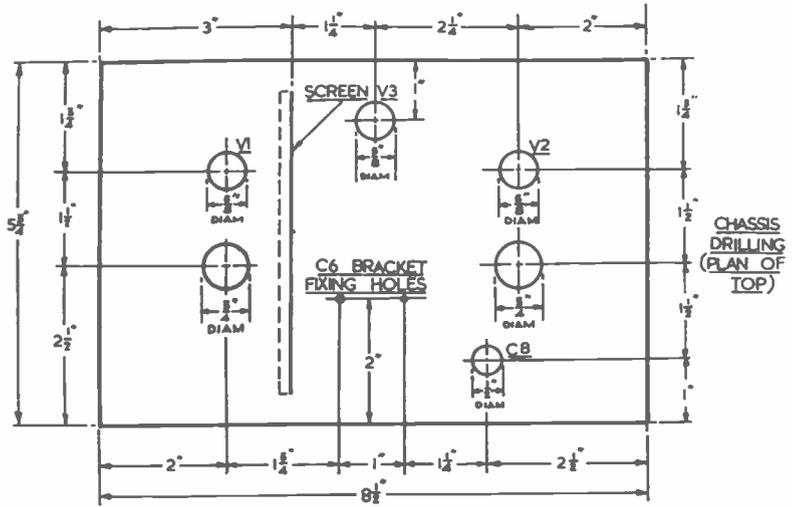
and because they lend themselves to better wiring and a more compact layout.

Originally, it was intended to make the receiver to cover amateur bands and little else. This was to be accomplished by placing fixed padder condensers across the tuned circuits and making the tuning condensers of relatively small capacity. However, the poor power factor of even the best fixed condensers (compared to air dielectric types), affected the performance adversely and it was therefore decided to keep to the time-honoured system of separate bandspread and band set condensers. This also means that the receiver is suitable for general short wave broadcast reception and, by plugging in the correct coils, the medium wave broadcast band can be covered.

## CONSTRUCTION

The foundation for the receiver is a diecast aluminium chassis which confers mechanical and electrical stability and is easy to drill. A panel of brass or aluminium is required, unless the constructor prefers to encase the chassis in the appropriate cabinet (Eddystone Cat. No. 644). Two small pieces of brass or aluminium for interstage screening complete the metal requirements. One measures 5 ins. long by  $3\frac{1}{2}$  ins. wide, the other 5 ins. long by 2 ins. wide, both being provided with  $\frac{3}{8}$  inch fixing flanges along the major dimension. The screens are mounted one above and one below the chassis in the positions indicated in the illustrations, using common fixing bolts. A small hole is necessary in the lower screen for the anode lead from V1—the other wires are run along the side of the chassis.

The drilling details for the top and front wall of the chassis are given in Fig. 2. In the rear wall are three holes—one  $\frac{1}{8}$  inch diameter for the aerial lead through insulator (fitted opposite the RF stage), one  $\frac{1}{8}$  inch diameter for the telephone jack and one  $\frac{1}{4}$  inch diameter for the battery cable. The position of these holes can be judged from the photograph Fig. 4, which

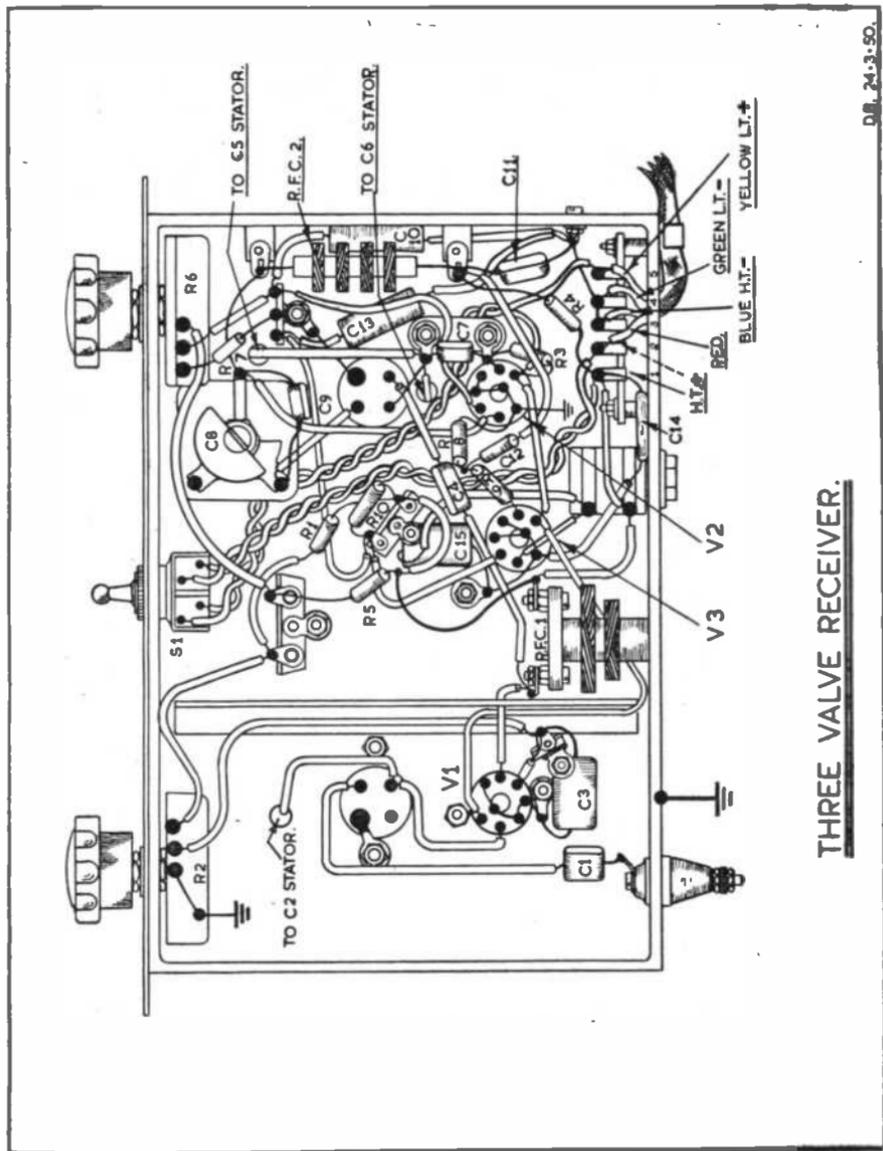


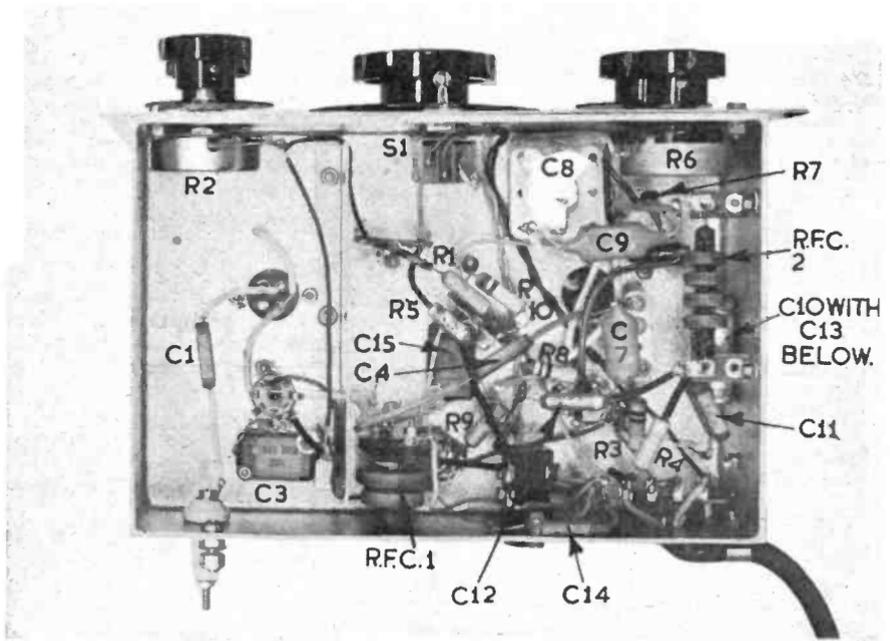
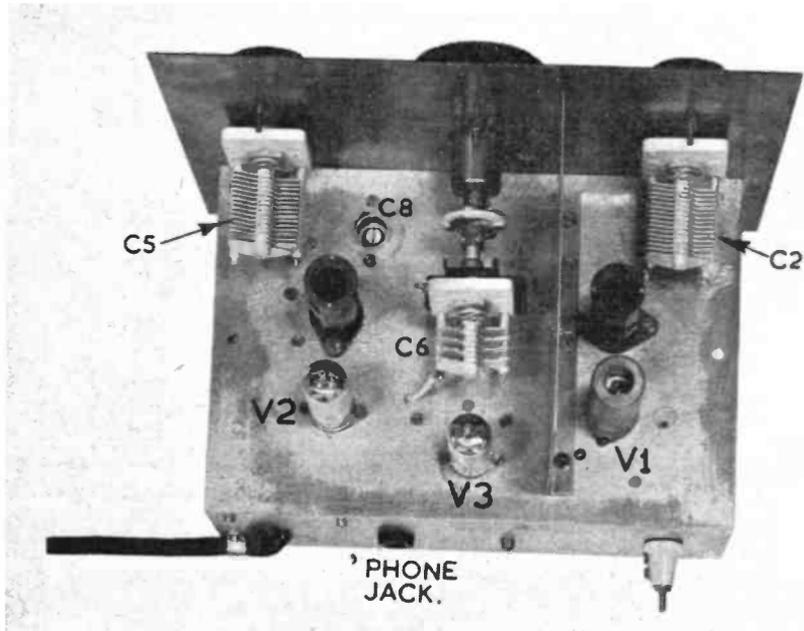
NIO37

Fig. 2. DRILLING DIMENSIONS OF THE PANEL AND CHASSIS

Below: *Wiring Diagram of the 1-V-1 Receiver. A Blueprint of this, full size, is available at 1/8 post paid from us*

*The illustrations on next page show the layout above and below chassis, with the various components enumerated as in Fig. 1*





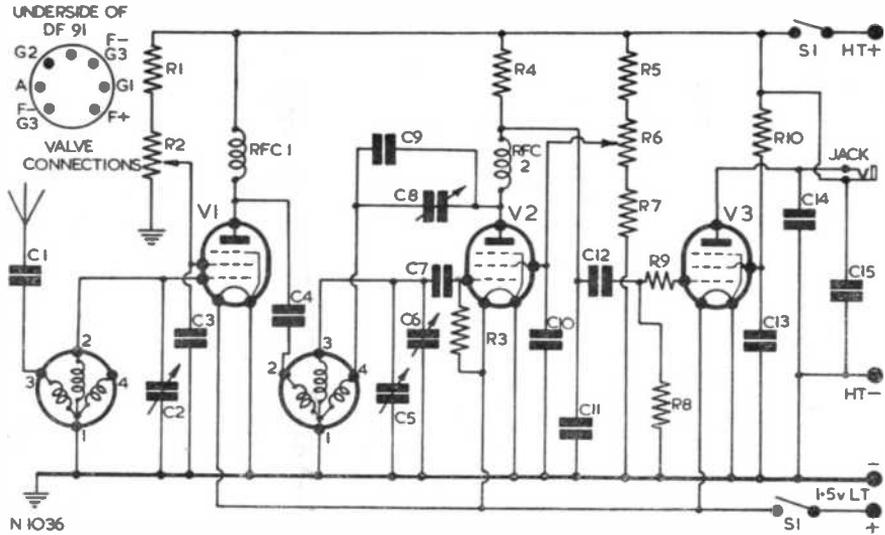


Fig. 1. CIRCUIT OF THE PORTABLE 1-V-1

shows the underside of the chassis. Just below the aerial insulator is fitted a 2 BA bolt, to form the earth terminal. To give the most direct wiring, the valveholders are orientated so that the filament pins and the gap between them face towards the rear of the chassis with V2 and V3 and towards the front with V1. The unused tags on the valveholders are earthed. Separate leads are taken down through the chassis from C5 and C6 to the coil side of C7. The rotor of C6 is earthed to the chassis by a short lead from the tag washer to a fixing bolt.

It will be seen that both sides of C8 are in-

ulated—the condenser specified is provided with mounting pillars and adjustment is made with a screwdriver through the  $\frac{1}{2}$  inch hole near the front of the chassis.

To ensure maximum stability in the RF stage, V1 is provided with a shield can.

Intending instructors will be assisted by the annotation of the various small components and little difficulty will be found both in the placing of the parts and in the wiring. Most of the latter is carried out with 22 gauge PVC covered wire and it helps if different colours are employed for different parts of the circuit. For

AMATEUR BAND SETTINGS

Coil type	Approx. total Freq. coverage	Freq.	RF condition	Bandset condition	Band spread cond.
706/LB	31—15 Mcs.	28 Mcs. 30 Mcs.	45 40	15 15	100 10
706/Y	16—6.9 Mcs.	14 Mcs. 14.3 Mcs. 7.0 Mcs. 7.2 Mcs.	20 18 95 90	12 12 90 90	100 70 100 15
706/R	7.5—3.2 Mcs.	3.5 Mcs. 3.8 Mcs.	80 70	70 59	0 0
706/W	3.0—1.37 Mcs.	1.75 Mcs. 2.0 Mcs.	69 50	65 45	0 0

**PORTABLE BATTERY RECEIVER  
LIST OF COMPONENTS AND VALUES**

1	Chassis ... ..	Cat. No. 643	Eddystone.
2	Dials, Direct Drive (for C2, C5) ... ..	Cat. No. 595	"
1	Dial, Slow Motion (for C6) ... ..	Cat. No. 594	"
2	Knobs (for R2, R6) ... ..	Cat. No. 592	"
1	Mounting Bracket (for C6) ... ..	Cat. No. 708	"
1	Flexible Coupler (for C6) ... ..	Cat. No. 529	"
1	RF Choke (RFC1) ... ..	Cat. No. 1066	"
1	RF Choke (RFC2) ... ..	Cat. No. 737	"
1	Insulator (aerial terminal) ... ..	Cat. No. 695	"
2	Coil Bases ... ..	Cat. No. 707	"
	Coils LB, Y, R, etc. (2 each) ... ..	Cat. No. 706	"
1	Ceramic Strip (to hold C7) ... ..	Cat. No. 749	"
2	Ceramic Microdeners 140 $\mu\text{F}$ (C2, C5) ... ..	Cat. No. 586	"
1	" " 12.5 $\mu\text{F}$ (C6) ... ..	Cat. No. 580	"
1	" " 60 $\mu\text{F}$ (C8) ... ..	Cat. No. 581	"
1	Five-way Tag Strip (Battery connection) ... ..	Cat. No. 649	"
1	Switch DP on/off (S1) ... ..	List S277	Bulgin
3	Three-way Tag Strips ... ..	List T17	"
4	One-way Tag Strips ... ..	List T32	"
1	Telephone Jack ... ..	Igranic	"
3	Valveholders B7G Ceramic ... ..	McMurdo	"
3	Valves DF91 ... ..	Mullard	"

**FIXED CONDENSERS. T.C.C.**

- 1 100 $\mu\text{F}$  Silver Mica type 101SMP (C7).
- 3 50  $\mu\text{F}$  Silver Mica type 101SMP (C1, C4, C9).
- 2 .001  $\mu\text{F}$  Moulded Mica type M2N or MWN (C11, C14).
- 2 .002  $\mu\text{F}$  Moulded Mica type M2N (C3, C15).
- 1 .01  $\mu\text{F}$  Tubular type Metalmite CP32N (C12).
- 2 .5  $\mu\text{F}$  Tubular Paper type 343 (C10, C13).

**RESISTORS (all  $\frac{1}{2}$  watt)**

- 4 20,000 or 22,000 ohms. (R1, R4, R5, R9).
- 1 1 megohm (R8).
- 1 3 megohm (R3).
- 1 10,000 ohms (R7).
- 1 100,000 ohms (R10).

**POTENTIOMETERS**

- 1 100,000 ohms (R2).
- 1 50,000 ohms (R6).

example, the writer uses brown for filament positive, red for HT, black for negative leads and so on. RF wiring is made with 22 gauge tinned wire in telecothene sleeving but good quality cambric sleeving is also suitable—PVC should be avoided in the RF wiring. A few components are held in the wiring but the majority are supported by tag strips. A ceramic strip holds C7 and its associated wiring. The tags on the B7G valveholders are naturally not very strong and they should not be used to support components.

The larger fixed condensers have fixing holes and it makes a more satisfactory job if they are bolted to the chassis, as illustrated. The choke labelled RFC1 should not be bolted in position until the wiring to the V3 valveholder has been completed.

Although shown in the circuit as two separate switches, S1 is a single double pole on/off type.

**TESTING THE RECEIVER**

After checking the wiring, the 1.5 volt LT battery should be connected and, if everything is in order, a faint red filament glow should be visible inside the valves. If possible, the HT current should be checked with a meter. Using a 67.5 volt battery, the current should be approximately 5 mA with full RF gain, decreasing to around 3 mA with minimum RF gain.

The fine reaction control R6 is set at its mid-position and condenser C8 rotated with a long handled screwdriver so that the detector valve oscillates (but not too near the border line setting). Thereafter, for the particular coils in use, adjustment is carried out with R6.

*(Continued on page 131)*

# SEVENTY CENTIMETRES

By  
MAJOR CYCLE

## PART IV. AERIALS

FINALLY in this short series of articles on the 420 Mcs. band, we come to what is perhaps the most important consideration of all, that of Aerials. It is certainly true that however good a transmitter or receiver may be, on Ultra High Frequencies, results will be negligible until it is coupled to an efficient radiator. Nor again will any very satisfactory performance be obtained until the aerial is erected in an open, well-elevated spot so that it commands, as it were, a reasonably good "view" in the direction of propagation.

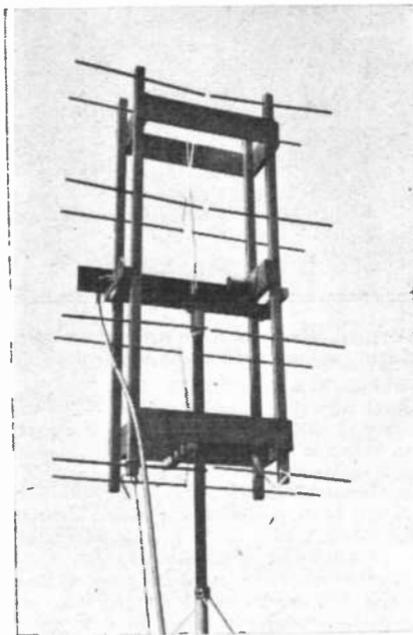


Fig. 5.  
*The Sixteen Element Beam  
described in the text*

The question of transmitter power is relatively unimportant and many of the commercial stations working on centimetre wavelengths use power inputs which can only be described as infinitesimal. Receiver sensitivity is of course important but owing to the general absence of interference in these regions, it is far more important that the aerial should be designed to "collect" as much energy as possible. In this connection and for reasons rather beyond the scope of this article, it may be said that generally the effectiveness of an aerial system on these frequencies depends on the size of the "surface" it presents to the incoming signal. Thus a system which by means of a framework of elements presents a big area to an arriving signal will, other things being equal, provide a strong signal in the receiver.

Let us now consider in detail various kinds of aerial systems all of which will of course function equally well for either reception or transmission.

### THE SIMPLE DIPOLE

Almost every type of aerial used on these frequencies has as its basis the  $\frac{1}{2}$  wave dipole.

A half-wave at 436 Mcs. is 13.4 inches. In practice resonance is obtained with the dipole slightly shorter, about 95 per cent of the theoretical half-wave. The impedance at the centre of a  $\frac{1}{2}$  wave dipole is approximately 80 ohms, and Fig. 1 illustrates a simple horizontal aerial for the band. The length is 12.7 inches and it is correctly fed by co-axial 80-ohm cable. For further details of  $\frac{1}{2}$  wave aerials and their characteristics the reader is referred to the various textbooks on the subject.

Although the simple dipole illustrated can be used quite effectively for short-range communication, the extra trouble involved in making a multi-element beam is infinitely worthwhile as the system will still be easily portable and will give many times the gain of the single dipole.

### CORNER-REFLECTOR AERIAL

This aerial (Fig. 2), one of the simplest to construct and easiest to erect, gives low-angle radiation and reception without being too critical in regard to horizontal angle. It can in fact

sweep the horizon rather as a lighthouse sweeps the sea.

The basis of this beam is a single  $\frac{1}{2}$  wave dipole, as described above, fed by 80 ohm coaxial cable. Behind the dipole is a system of reflecting rods arranged in two rows at right angles, the dipole being fixed on the bisecting line of the right angle and at a distance of one-half wavelength from the apex, as shown in the plan drawing (Fig. 3). The number and separation of the reflecting rods is not critical but the length of each is important. Each rod is 13.4 inches long. Spacing between the rods should be about  $2\frac{1}{2}$  or 3 inches and the gain of the array increases as the length of the sides is increased by adding more rods in the directions B and C. Usually the total number of rods used is limited to 20 or 24 to prevent the array becoming too cumbersome.

Theoretically the presence of the reflecting curtain alters somewhat the characteristic impedance of the centre dipole, but in practice the slight mismatch obtained by using 80-ohm cable is hardly sufficient to warrant modification of the system.

The centre-dipole may be of copper wire but slightly improved results may be obtained by using copper tubing up to one inch in diameter.

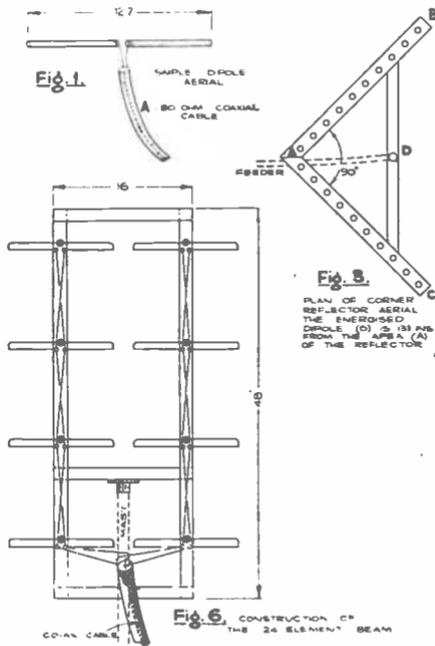
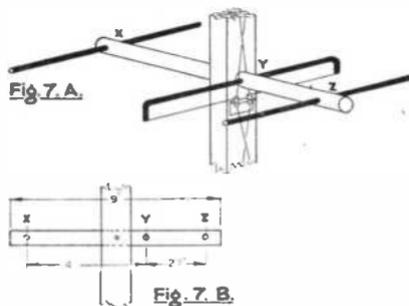
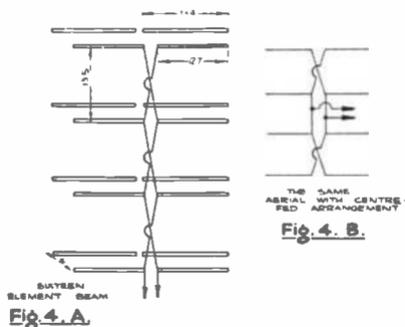
The reflectors may be of  $\frac{1}{4}$  inch or  $\frac{1}{2}$  inch diameter rod or tubing and may be of duralium or aluminium for the sake of lightness. Copper or brass rod will be equally effective, though heavier.

SIXTEEN-ELEMENT BEAM

This particular design combines high-gain and directivity with simplicity of construction. It consists of eight energised half-wave elements and eight reflectors (Cover). These may be mounted in any convenient wooden framework and provided the attachments to the frame are made at the centres of the elements, no special insulation is required.

Considering first the energised half of the aerial, it will be noticed that the elements, made of  $\frac{1}{4}$  inch diameter copper tubes 12.7 inches long, are end-fed and each horizontal pair is  $13\frac{1}{2}$  inches above or below the next pair. To maintain correct phasing, the feed wires, consisting of No. 14 or No. 16 copper wires enclosed in polystyrene sleeving, are crossed over between each pair of elements.

The impedance of the system at the feed points is such that the aerial may be fed directly by 300 ohm cable without special matching arrangements. Should it be desired to use low-impedance, 80 ohm cable for feeding the aerial,



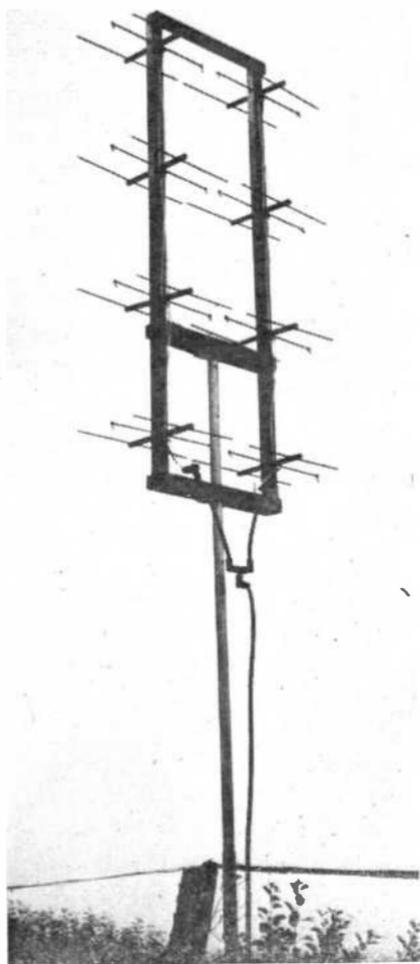


Fig. 8  
The completed 24 Element Beam

a matching transformer may be added consisting of two  $\frac{1}{4}$  inch diameter copper tubes  $6\frac{1}{2}$  inches long with  $\frac{1}{4}$  inch spacing between them. These tubes should be inserted between the end of the 80 ohm line and the aerial itself and may be conveniently supported by small stand-off insulators from the wooden frame. Alternatively, a  $\frac{1}{4}$  wave matching stub could be used.

Fig. 5 shows a photograph of this aerial in use. In this particular model the feeders and matching tubes were inserted between the middle pairs of elements in order that the system could be erected for either vertical or horizontal use. In feeding the system at the centre in this way, it should be remembered that the feed wires are not crossed in the centre section (see Fig. 4B).

Although this beam works very well without the addition of reflectors and is then bi-directional the addition of the eight reflector elements is usually well worth the extra trouble. Each reflector is a metal rod 13.4 inches long suspended 4 inches behind an energised element. The reflecting rods are not connected together or attached in any way to the rest of the system.

#### TWENTY-FOUR ELEMENT BEAM

This rather more elaborate array is nevertheless capable of rapid and extremely light construction and for this reason is ideally suitable for portable operation.

Eight 3-element Yagi arrays are set up in two vertical rows of four each the whole system being supported in a light wooden framework and the single elements being supported by wooden dowels inserted through the frame. Fig. 6 gives the constructional details of the frame and details of one of the 8 three-element beams are given in Fig. 7.

The energised elements are folded dipoles with sides of unequal diameter. Although the actual gauge of wire or rod used is unimportant, the correct impedance at the feed-points will only be obtained if the relative diameters are right. The ratio should be approximately four to one and this was secured in the original model by using  $\frac{7}{8}$  inch diameter copper tubing for the unbroken side of the dipole and No. 18 copper wire for the centre-fed side. Construction of the aerial is carried out as follows.

First cut two lengths of 1 inch by  $1\frac{1}{4}$  inch deal for the sides of the frame, each four feet long. Complete the frame by screwing on six 16-inch lengths of 1 inch by  $\frac{1}{2}$  inch timber in three pairs as shown in the photograph (Fig. 8) and the diagram. The middle pair of supports, as well as giving increased rigidity to the frame, supports the top of the aerial mast.

Now bore six  $\frac{3}{4}$  inch diameter holes through the sides of the frame with vertical spacing of  $13\frac{1}{2}$  inches.

From a length of  $\frac{3}{4}$  inch diameter dowelling cut six pieces, each nine inches long (Fig. 7B) and bore three holes in each to take the three elements of the array. Distances between the holes are 4 inches and 2.7 inches respectively. Insert the six lengths of dowelling in the holes in the frame and secure them by screws.

Next cut six  $1\frac{1}{2}$  inch lengths of  $\frac{7}{8}$  inch diameter copper rod or tubing, fit them midway

into the centre holes of the dowels and bend over the last half inch of each rod as shown in Fig. 7a. The folded dipoles may now be completed by screwing a small insulated bracket bearing two tags or terminals below each dowel and soldering lengths of No. 18 tinned copper wire to the ends of rods and connecting the other end of each wire to a terminal.

Reflector rods 13.4 inches long are now inserted in the holes marked X in the diagram and directors, 12.7 inches long, through the holes marked Z. The diameter of these rods is unimportant, but they should be rigid.

All that remains is to connect up the 8 driven elements by feeder wires. These may be No. 14 or 16 copper wire encased in high quality insulated sleeving. The feeders must be crossed over between each pair of elements as shown in the diagram. The two pairs of feeders must be connected in parallel to a socket for connecting to 80 ohm cable and it is necessary to ensure that this is done in the correct way, otherwise the two sets of arrays will be out of phase. The rule is that the feeder which is attached to the left hand side of the bottom dipole on one side of the frame must be attached to the feeder connected to the left hand side of the dipole on the opposite side of the frame. Fig. 6 will make this clear.

#### OPERATION

Those who construct any of the above aerials for transmission as well as reception will be well advised to construct a simple field strength meter to study the performance of the aerial. The cost of such an instrument will not be more than about 15/- if government surplus parts are used.

Although space will not permit a description of the construction and use of such a meter in this article, it should be emphasised that correct readings will only be obtained if the aerial is erected in the open, well away from obstructions.

Those who build a beam aerial for reception only will be well advised to contact a transmitting amateur and to arrange tests with him, doubtless for mutual benefit. If a transmitter modulated by a pure tone (M.C.W.) can be left running for a period the listener can make adjustments to his receiver and beam aerial and also ascertain the directional properties of the array.

Finally, the writer would urge experimenters to make their equipment portable. As already mentioned, location is of first importance and highly satisfactory results are obtainable with even the simplest gear if operated from open and elevated sites.

#### HQ ANNOUNCEMENT ISWL DEDICATORY BROADCAST

HQ announces that a special ISWL dedicatory programme will be radiated from HCJB Quito, Ecuador over 17.890, 15.115 and 12.455 kcs., on Friday 19th May 1950 at 2200 hrs. GMT. All reception reports should be sent to HQ when they will be forwarded in bulk to HCJB. It is hoped that all League members will make a special effort to log this programme.

All League Group secretaries have been notified direct.

☆ ☆ ☆

#### PORTABLE BATTERY Rx.

(continued from page 127)

The frequency coverage given by the four higher frequency Eddystone coils is given in the accompanying table, which also indicates the approximate settings at which the amateur bands fall. Close agreement will be found in receivers built to the specified design. Resonance of the RF stage is shown by an increase in signal strength. On the higher frequencies, the bands spread condenser C6 forms the major tuning control. On the lower frequencies, it is necessary to tune with C5 using C6 as a fine control.

The receiver has given good results, both at home and when used portable, with aerials of greatly varying lengths and characteristics. The sensitivity is good and excellent results are possible on quite a short aerial (20 ft. to 30 ft. overall)—in fact, a short aerial is to be preferred as selectivity suffers somewhat with a long aerial. Should a long aerial be favoured, it will be desirable to replace condenser C1 with a 3/30 (or 3/20)  $\mu\mu\text{F}$  air or ceramic trimmer and adjust it to a fairly low value.

Finally, since the audio output is not great, it pays to use a really sensitive pair of telephones with a receiver of this type.

☆ ☆ ☆

#### OUR COVER PHOTO

shows a sixteen element beam for seventy centimetres consisting of eight energised half wave elements and reflectors, combining high gain and directivity with simplicity of construction

Data Book 4, a revised and enlarged edition of "Inexpensive Television" will be available by the end of this month. 48 pages, 2s. 6d. Obtainable from usual sources

# AMATEUR BAND REVIEW

By "QUA"

**A**BOUT these lists. Many lists have been placed in the WPB this month for various reasons, the main one being calls heard mixed in with general comments, etc. Then we have the entries which are completely unmarked or only partially completed, some have no name, ISWL number or QTH, others state no band or bands, often no Rx is included and with no clues as to which are CW or Phone. The rest have fallen by the wayside because the calls have not been set out in alphabetical order, which is a pity for some of these lists contain the choicest Dx and must represent some considerable effort on the part of the operator. A glance at the lists published this month will show just what is required, the rules are simple and are: (1) Name, QTH and ISWL number if any; (2) CW or Phone; (3) Calls in alphabetical and numerical order; (4) Band or Bands and lastly—the Rx. Provided these few conditions are complied with, your list will appear as space permits.

## \* GENERAL NEWS AND GOSSIP

ZS9F Bechuanaland, formerly ZE2KG, is located at Serondela and uses 22 watts to a 807 with a three element beam array. The Rx is a Hallicrafters S-40A.

AC4NC in Tibet runs 25 watts on 14.329 kcs.; latest news is that he owes some 300 QSLs to his various contacts and is now trying to get some more printed which isn't easy in AC4 land!

HH5V is OK and is located at Plantation Dauphin, Cape Haitien, Haiti. W6ATB/KC6 (Yap Island) is ex W4DNY, 6ATB, KA2SD and his present call is KG6GD. He will soon be on Ponape Island in the Caroline Group using 14 Mcs. phone and some 100 watts input. Listen from 0800-1300 hrs. GMT from 14.200 to 14.225 kcs. 'Pete' Peters flies to the various islands in the Palau and Caroline Groups every week. May also be heard as KG6GD/KC6.

Jesse Bell, better known as EL5B, is W4NAZ when stateside; the Tx has a PP 812 final, the Rx is a National NC-183 and the antennae is a three element beam.

W6CRE/KC6 is on Koror Is. in the Palau Group.

G3PO is now a VK, full call is VK2AKV and he is active on 14 Mcs. phone from the Sydney area.

FK8AC is on phone around 1700 to 1900 hrs. GMT, Saturdays only.

AG2AG is genuine (Trieste). VT1RF is located in Kuwait, full QTH—R.B. Fuqua, Bungalow 106, Ahmedi, Kuwait Oil Co. Ltd., Kuwait, Persian Gulf.

## \*S.L.P.s.

For the convenience of readers these are listed here and all lists for these SLPs should reach me by the 7th June latest.

### AMATEUR BANDS—AMATEUR SLP No. 5.

Date: From 2000 hrs. GMT to 2200 hrs. GMT  
25th May.

Band: 7 Mcs. CW and Phone.

Object: To log all stations outside Zone 14.

Date: From 1900 hrs. GMT to 2000 hrs. GMT  
21st May.

Band: 14 Mcs.—CW and Phone.

Object: General DX Session.

Logs for the above Amateur SLPs to reach HQ by 7th June.

## \*STAR LOG

For this feature 7 Mcs. CW was chosen this month. Designed to popularize the LF bands among SWLs and to lure some of you away from 14 and 28 Mcs., it is hoped that more of you will support this venture.

Operation on the usual bands is relatively easy compared with 7 Mcs. where one has to deal with commercial QRM in addition to the usual interference. A good DX list on this frequency is the hall mark of the first-class operator who forsakes the easy DX and is prepared to really operate his RX in order to show just what he can do.

All honours are due to R. Lancing G828, of Barham, Kent, who toted his S640 around the band and offers this month's Star Log.

### APRIL STAR LOG 7 Mcs. CW

FB8ac, HP1km, KL7aai, PY2ac, UBSmq,  
UF6ab, UO5kaa, VE3deg, 4tq, W6kri,  
ZL1ha, 2gg, 3hc, 4ft.

This represents a very fb log indeed and must have entailed some considerable effort on the part of G828. Congratulations OM on being the first to be honoured in this feature. Next month will be devoted to the best Phone and CW

Palmyra Island

KP6AA

Stephen S. Barnes

*A Verification from  
that elusive zone, 31.  
Obtained by CW recep-  
tion on the 14 Mcs.  
Band*

log submitted for the 3.5 Mcs. Band so how about a QSY to 80!

\* 28 Mcs.

This band is quite definitely on the way out at least until next October when we may hope to see an improvement with the seasonal changes usually associated with this band. The DX is still to be had however, provided one is prepared to search for it.

CR5UP has at last returned to Portugal and D. L. McLean reports him as CT1BW heard several times on the 14 Mcs. band.

The VS6s who are well heard on the band held a hamfest on the 31st March when a good time was had by all, no doubt DX working was the subject of the hour!

Further to my remarks last month with reference to FB8AX, the name of the Expedition ship is SS Commandant Charcot and the call sign of the ship is FNFM. Good luck to them there in the Antarctic brrrr!

From the Calls Logged we note that the Wizard of Yeovil pulled in AP2N, KG6CR, TG5DM and ZD1SS among others. TG5 prefix is allocated to Guatemalan stations working portable—just in case someone gets confused and starts claiming a new country hi!

W. J. C. Pinnell pulled in some good ones—CP5FB, being notable among them. A paradise for the phone addicts it would appear that it is far from this for the CW enthusiast and most of these have by now probably gone down to the next band which is everybody's favourite. Wonder if 20 will continue to hold the interest after 15 becomes active?

\* 14 Mcs.

A good month for this band with most parts of the globe continuing to come in well. By far the best times of operation were the early mornings and at dusk.

Two readers managed to log the super DX station of the month—VR4AA who was active on several mornings around 0730 on 14040 kcs. with the inevitable wolf pack in full cry after him.

How one works anything through all that QRM is anyone's guess. Most certainly four W6's probably using a full gallon would take some shifting!

MP4BAO was heard to say that he expected to QRT on the 20th April—vide D. L. McLean who also informs us that FM7WE is none other than F9QU/FM8 and that ZD1KO is now QRT and has left Sierra Leone.

VR5GA 14394 kcs. is on Tonga Is., FS8PR 14170 kcs. is with an expedition on Clipperton Island, off the West Coast of Mexico and KS6VH 14210 kcs. American Samoa is active around 1200 hrs. GMT.

N. Robinson tells us that VQ5AI is now QRT and back in VQ4 land. The AK stations are not Amateurs but are US Forces Stations, AF3FMC is the HQ station and they normally operate just above the Amateur band. They should not be included in the Calls Logged lists.

M. Milne offers the best phonetic of the month with I1NMC (I one no more cash)!! J. Goddard reports that the sunset hour was the best time for DX and that he is moving to a new QRM free QTH—lucky man!

Several noted the appearance of an HE1 and the answers to the queries that came with the letters are, HE is the prefix of Liechtenstein, a small state to the east of Switzerland. Every year several HB9's operate from there and it does count as a separate country.

W. Nicoll quotes a letter received from W4KOJ who says that in ten years of ham radio he has never exceeded twenty five watts and until recently had never had a contact outside the USA.

Les Waive has received a QSL from PJ5TR for a CW report, the card came via W4BYF. PJ5TR has been heard calling CQ Europe on about 14090 kcs. around 2130 hrs. GMT., so if you want the card—!

A feature of the CW band this month was the regularity with which the KH6's came across. Morning after morning they were there, plugging

away at the Europeans with good RSTs until quite late in the day.

\* 7 Mcs.

Several readers managed to turn in good logs on this band but the best DX here is to be had on the CW portion mainly in the early mornings and late at night.

Among others we noted HK5cr, KP4kf, 4kr, 5dr, MD7we, PY6ak, YN4rg, ZL2gg, 4ft, which should send some of you CW fans hunting out the LF end.

C. J. Goddard noted that conditions were good after 2200 hrs. but crowded with G's and F's during daylight.

D. J. Randall G3032 who only started learning the morse code last Christmas now has some 38 countries heard to his credit—good going OM.

7 Mcs. could do with a lot more devotees, the DX is there to be had just for the searching and reception of a KH6 really is DX. For those who QSL, the return ratio is much higher here than on 14 Mcs. where the average amateur receives dozens of unsolicited and often useless reports practically every day. It is also more gratifying to produce a DX list from 40 than it is to do the same from 20. So how about some lists!

ZONES AND COUNTRIES ROLL 1950

Name, CW and Phone:	Zones	Countries
W. J. C. Pinnell, G1832 ...	35	128
I. Street, G3512 ...	35	120
R. Masters, G407 ...	34	137
D. G. Gordon, G2508 ...	31	97
W. Wills, G1640 ...	31	92
L. H. Waive, G328 ...	30	83
C. J. Goddard, G2227 ...	27	83
J. Vaux, G3034 ...	25	75
N. G. Foord, G706 ...	19	33
Phone:		
L. Robinson, G523 ...	36	115
P. H. Strudwick ...	35	120
D. L. McLean, G3400 ...	34	125
P. Bysh, G1233 ...	25	75
M. Milne, G2828 ...	22	55
A. O. Frearson, G2242 ...	17	47
L. Foster ...	17	37

\* 3.5 Mcs.

What has happened to this band? Only two logs submitted this month! A few weeks ago this was the star performer with the LF bands DX but it appears to have died a natural death of late. The main snag here would be the very late hour at which DX does seep through and even then one has to contend with local signals spreading some considerable way across the band. The CW consists mainly of DL signals while the phone is almost exclusively confined to ON's and PAØ's. Why is this? Once a comfortable band with an almost certain QRM free QSO it has now become almost as bad as the 14 and 7 Mcs. bands. Pity.

DX QTHs

- AR8PO: P.O. Box 682, Beirut, Lebanon.
- AR8BA: 37, Avenue des Francais, Beirut, Lebanon.
- CT3AD: Jose Alfonso, Cam. St. Antonio 225, Funchal, Madeira.
- HP1GR: Glickenhau, Box 135, Panama City, Panama.
- HR1RL: Hector R. Lagos, Fuerza Aerea Hond., Tegucigalpa, Honduras.
- KG6SH: U.S.C.G., Navy 3245, c/o FPO, San Francisco, Calif. USA.
- KR6AF: APO 239, Unit 1, c/o Postmaster, San Francisco, USA.
- KR6DW: APO 239, c/o Postmaster, San Francisco, Calif., USA.
- MD2GC: APO 231, c/o Postmaster, New York City, NY, USA.
- SV5UN: United Nations, Rhodes, Dodecanese Islands.

\* 1.7 Mcs.

Heigh Ho for top band. Plenty of DX here for the enthusiast. What with HZ1KE, ZBIAR, GM2HIK, GD3UB, EK1AO, GM3ATV, etc., it has indeed been exciting.

A little bird whispers that some very large antennae are spreading o'er the landscape as an aid to DX working. One has 500 ft. per leg in a 'V' beam! Some very good county lists and totals should be apparent by the end of the year with all this DX about.

A very refreshing change is to be made by forgetting 14 Mcs. for once in a while and working 1.7 Mcs.

\* QUESTIONS AND QUERIES

W. Watson G3393 wants to know if GM, GW and GI count as separate countries, they most certainly do OM.

N. C. Smith G3785 enquires after FM7WE, see remarks re 14 Mcs., he also queries DI2BC and LJ2K. The former is a German experimental station while the latter is located in Norway.

Peter Short DL2-3468 says of PI1LC "I can't decide whether he is a Dutchman swimming the Atlantic or a Brazilian who has gone nuts!" Well OM, the answer is that PI1LC is the call of a Dutch weather ship located in the Atlantic Ocean so the position you heard as 500 miles south west of Land's End would be correct.

D. H. Cotterell asks after LF2V, this is another Norwegian OM, these calls are issued to experimental depts., technical institutes and the like.

C. L. Bradbrook G3692 requires enlightenment on the EA7 position; this prefix denotes Andalusia including the provinces of Cadiz, Granada, Cordoba, Seville, Malaga Huelva and Jaen. You will note therefore that EA7 is, as you say, firmly affixed to the mainland of Spain.

\* CONCLUSION

Questions and queries welcome as are 7 Mcs. lists. Don't forget the opening remarks with reference to the DX Calls Logged lists, failure to comply here will result in the non appearance of your selection. Until next month then, good hunting, good DX and 73's.

"QUA"

**TOP BAND  
COUNTIES AND COUNTRIES LIST**

Name, CW and Phone :	Counties	Countries
W. J. C. Pinnell, G1832 ...	51	9
D. L. McLean, G3400 ...	46	—
R. Masters, G407 ...	31	—
R. Iball, G941 ...	22	1
N. G. Foord, G706 ...	11	—
Phone :		
L. Robinson, G523 ...	31	1

**THE QSL LADDER**

R'g.	Name	Countries	States	Zones
1	M. Preston ...	158	48	38
2	D. L. McLean (Yeovil) ...	153	48	35
3	E. A. Hardwick (Minterton) ...	144	40	35
4	D. Robertson (Wick) ...	128	48	35
5	C. G. Tilly (Bristol) ...	127	44	36
6	E. Caffey (Yarmouth) ...	116	48	35
7	E. W. Field (Watford) ...	104	46	33
8	A. H. Onslow (Hove) ...	94	47	—
9	L. H. Waine (Yeovil) ...	83	34	30
10	I. Street ...	83	34	33
11	W. J. C. Pinnell (Sidcup) ...	74	14	35
12	D. Shallcross (Borrowash) ...	70	38	24
13	K. S. Ward (Cheltenham) ...	66	23	20
14	P. Bysh (London) ...	64	41	26
15	A. L. Higgins (Bridgend) ...	61	19	26
16	D. J. West (Bristol) ...	59	39	25
17	K. Trautner (Lunenburg) ...	47	—	—
18	D. Garrard (Ipswich) ...	45	22	15
19	C. J. Goddard (Warwick) ...	45	4	14
20	F. B. Allen (Gravesend) ...	44	19	16
21	W. A. Ferrar (???) ...	40	14	15
22	M. Hampton (Bristol) ...	36	37	21
23	M. Dransfield (Purley) ...	36	7	17
24	W. Hamilton (???) ...	29	12	12
25	W. Jackson (Westmorland) ...	24	11	10
26	Ian Glen (???) ...	20	4	10
27	W. Jardine (Brighton) ...	19	6	9
28	D. Cotterall (Reading) ...	17	4	6
29	J. Randall (Sidcup) ...	17	2	4
30	D. J. Appleby (Wells) ...	17	1	5
31	A. O. Frearson (B'ham) ...	14	7	9
32	J. Pennington (Preston) ...	11	5	9

**CALLS LOGGED**

28 Mcs. Band. 28000-30000 kcs.

L. Foster ISWL/G2894, Liverpool. Phone : CP1AM, CX4CS, EK1AD, FF8FP, LU3DH, MS4A, MP4NJ, OQ5LC, SVØWB, TA3GVU, VQ2HC, YO7WL, ZE2JA, 2JE. (Rx: S640.)

R. Vincent ISWL/G748, Enfield. Phone : AP2G, 2J, AR8BC, CE3LX, CO2AH, CX3AA, HC2OT, HZ1AB, JA2HQ, KG6SH, KP4IN, KR6JR, KZ5AU, LU4CD, M13NC, MP4BAB, OQ5AB, OX3BC, PK1CR, 1UA, 3LC, ST2AM, VK5AE, 6RU, VQ4ERR, VS6AM, 6BE, 6BC, 9AH, VU2BF, YS3SC, ZC6UNJ, ZD4AB, 4AH, ZE1JX, ZL3DS, ZS5CU, 6IR, 6VR. (Rx:)

C. L. Bradbrook ISWL/G3692, Alton, Hants. Phone: CN8EE, FF8AH, HZ1AB, MP4BAB, 4BAO, MT2BFC, TA3GVU, YO3RI, 7WL, ZB1AK, 1AH. (Rx: SH10.)

W. Winchester ISWL/G2152, Eastbourne. Phone: AR8AB, HZ1AB, 1KE, LU3DH, MP4BAB, 4BAO, PY1AB, 2AMT, 7QD, SVØAJ, VE6EO, W6AOR. (Rx: SH6.)

L. F. Robinson ISWL/G523, New Addington, Surrey. Phone: CE3CZ, FF8AH, HC1KE, HK4AM, KG6FX, 6IE, 6SC, 6SH, KR6AS, 6CG, PZ1Z, VP3NCB, 4TP, VU2SD, YS2AC, YV5BO.

A. O. Frearson ISWL/G2242, Birmingham. Phone: CE3CZ, CM9AA, CO2EA, MD2AC, MI3SC, MP4BAB, 4BAO, MT2E, OQ5AO, PY7BN, ST2AM, SV5UN, VK6KW, VQ4ASC, 4ERR, VS9AH, ZD2JHP, ZS6IJ, 6OY, 6TH.

J. Fairs ISWL/G2660, Redcar. Phone: AR8PO, HC1FG, KZ5GM, PY6JG, 7BN, 7VA, UA3BU, VE6WS, VK5ZR, VS9AH, ZE2JA, 2KH. (Rx: S640.)

B. Basey-Fisher ISWL/G3305, Bungay, Suffolk. Phone: CX4CN, 4CS, FF8AH, 8FP, HH2PA, KV4AC, OA4AI, OX3BD, PK3LC, 3PC, 4DA, PZ1WK, ST2AM, SV5UN, VK5AE, 5ZR, VP3LF, 6SD, VS9AH, YK1AC, 1AH, ZD4AH, 4AX. (Rx: 358X.)

K. M. Parry ISWL/G2842, Sandwich, Kent. Phone: AP2J, CR4AC, FF3CN, 8FP, KG6FX, 6FZ, 6SC, 6USA, KR6AD, 6CM, KV4AS, KZ5GM, 5OY, MP4BAB, MS4A, PK3JF, 3KP, 3LC, 3PH, 3SP, 4KS, 5HL, SV5UN, VS6AE, 7GD, 7PW, 9AH, VU2GB, 2GJ, 2JP, 2LJ, XZ2EM, 2PM, 2KN, ZD2JHP, 4AB, 4AH, ZS9F.

N. C. Smith ISWL/G3785, Petts Wood. Phone: CR4AC, CX3CN, 4CS, HC1FG, HK4AM, KP4BY, 4HN, 4JM, 4JT, LU1CF, 4DB, 6AJ, 9PV, MD2AC, 2GC, M13SC, MP4BAE, OQ5FF, PY7QD, PZ1QM, SV5UN, VP6IS, 6JC, 6SD, VQ4ERR, ZD2JHP, 4AB, 4AM, ZE1JO, ZE2GN, 2KH, ZS6DW, 6TC. (Rx: 0-V-1.)

The Editor invites contributions dealing with general matters of SW interest as well as constructional articles. Photographs of SW BC stations, amateur stations and short-wave gear, radio club functions, etc., suitable for publication are also welcome. All communications to:—The Editor, "SWN," 57 Maida Vale, London, W.9

G. Adam ISWL/G3704, Goojleston-on-Sea. Phone AP2N, KP4HZ, 4KM, KR6CF, 6CO, 6DW, LUSDC, 6ES, 8CW, MI3SC, PK4KS, PY6DJ, 7XC, PZ1A, ST2AM, TA3GVU, TG9RB, VQ2PL, 4AQ, VS1AX, 9AH, VU2DY, ZD4AH, ZE2KH, ZS6FS. (Rx: S640.)

A. J. Clatworthy ISWL/GW3024, Cardiff. Phone: KP4ES, OQ5CJ, VS9AH, ZD4AX, ZE2KE, ZS1AJ, 1CI, 6LA, 60H. (Rx: Ham-bander.)

W. J. C. Pinnell ISWL/G1832, Sidcup. Phone: CP5FB, CR4AC, HH2W, KG6FZ, 6IE, PK3JF, 4DA, TG9AS, TI2SA, VS6BC, XE2KW, YN4VN, ZD2JHP. (Rx: V55R and Converter.)

D. L. McLean ISWL/G3400, Yeovil. Phone: AP2C, AR8AB, 8BA, CE3CZ, CM9AA, CN8AJ, CO2JJ, 7GM, CR4AC, CX3BL, EK1RW, EL2A, EQ3SAM, FF3CN, 8AH, 8CG, 8FP, 8PG, 8PM, HC1KV, 1KW, 1KX, 2JR, 2OT, HH2PAS, 2W, HI6EC, HK3CK, 3FF, 4AM, 4DF, HP1GR, HZ1AB, 1KE, JA2CL, KG6EZ, 6FZ, 6IE, 6SH, KP4BY, 4DN, 4HM, 4LA, KR6AD, 6AF, 6CW, 6CW, 6DW, MD2AC, 2AF, 7DC, 7HV, MI3GH, 3SC, 3SI, MP4BAB, 4BAO, MT2AB, OA4DW, OQ5AB, 5AO, 5CA, 3GE, PK1PH, 3JF, 4DA, 4KS, PZ1QM, ST2AM, 2KR, SV5UN, TA3FAS, 3GVU, TI2SA, UB5KAF, VQ4ASC, 4CRM, 4ERR, 4HK, VS6AM, 7GD, 7PW, 7RF, 9AH, VU2SC, 2SD, 2GB, 2LJ, 2ARCI, XE2KW, YK1AC, YN4BM, 4SDA, ZD2FAR, 2JHP, 4AB, 4AC, ZC6UN, ZE2KH, 2JE, ZS1BK, 5CU, 6LA, 4X4AM, 4AR, 4AS. (Rx: RCA AR88LF.)

R. J. Brooker ISWL/G3457, Herne Hill. Phone: CO2EH, EK1BC, HH2W, KP4BY, KZ5PC, MD2AC, MP4BAB, PY7QD, ST2AM, 2KR, SV5UN, TA3GVU, VE7UN, 7AAD, VP5FR, 6DS, ZD4AB, 4X4CZ. (Rx: 0-V-1.)

14 Mes. 14000-14400 kes.

R. J. Brooker ISWL/G3457, Herne Hill. Phone: AR8BC, CE3AE, CO8NT, CT2AE, EK1DA, HC1FB, HK1DZ, JA2BL, KL7LU, 7YY, LU5HI, MD2AM, OX3BD, 3BF, PY5DH, 6CO, TI2OA, 2OH, UB5BV, VE8MI, VK4WJ, VO6AW, VP3MCB, 9F, 9HH, 9KK, VS6BS, 7SV, XE1AC, YN4CB YV5AB, ZC6DO, 6JM, ZL3JD, 3V8AI, 8DV. (Rx: SH4.)

D. Webber ISWL/G3623, Reading. Phone: AR8BC, CE3CZ, CO2CO, CT2AE, CX2CL, EA8HS, FF8AB, HK1DZ, HP1LO, HR2RF, JA2BL, KG4AK, KP4AU, LU4BC, MD7AR, OX3BF, OY3IGO, PY7TA, SV5UN, TI2ES, VE8MI, VP3MCB, VP4CK, 4TB, 5AY, 6SD, 7NU, 9F, 9KK, VQ2WP, 4AQ, 5AI, VS2BS, 7SV, VU2BU, XE2GZ, YK1AC, YN4CB, YS1RR, ZD1SS, ZS1GG.

S. Smith ISWL/G3825, Kenilworth. Phone: AP2N, CR7AH, CO7AZ, CX1CG, HC2GRC, HZ1PC, LU7HS, PY2VL, 2CK, 7VA, TA3FAS, 3GVU, VK3HW, 5MN, VP4TB, VS7SV, VU2OH, VQ4KTC, 4SC, XE1HC, YK1AC, ZC6JM, 6UNJ, ZS3F, 6DO, 3V8AP, 8BB, 4X4AB, 4AV, 4CA. (Rx: R1084.)

C. L. Bradbrook ISWL/G3692, Alton, Hants. Phone: AP2J, 4JH, AR8BC, 8DN, CO2SG, 2WV, CR7AH, CX2CO, EA6AP, 7PL, 8AP, 9AI, EK1MD, 1AD, FF8QM, FM7AH, HK4TF, HR2RF, HZ1HZ, KP4AZ, MD1J, MD2MD, 4TH, 7WE, MI3SC, OQ5CF, OX3BF, 3MD, SVØAJ, 5UN, TA3FAS, VK5RN, VP4LS, 6SD, 9KK, VQ4SC, 5AI, VS6BS, 7SV, YI2BJ, YK1AC, YV5AY, ZC6JM, ZD1SS, ZS6AF, 6DW, 3V8BB, 4X4AG, 4BL, 4CA. (Rx: SH10.)

N. C. Smith ISWL/G3785, Petts Wood. CW: CE3dg, 5aw, CX1ac, FM7we, HZ1pc, KH6hg, 6ij, 6lg, 6vp, KL7aaf, KP4cc, 4hu, 4kd, LU1aa, 4hb, 7cde, 7ef, 8en, 9cv, OA4bg, OQ5ly, PK2zz, UG6wd, VE7xm, 8sm, VK4hm, 7jb, VQ3ad, ZL4ga, 4ja, 4nd, ZS6hz, 4X4cj. Phone: HK1FE, HP1EA, KP4AZ, 4ES, LU5CZ, MD2AC, 7WE, OQ5CF, OX3BF, 3WF, PY2CK, 7SXE, 8RG, SV5UN, TA3FAS, VK4UD, 5MS, 5RN, VP3LF, 9F, 9KK, VQ4SC, VS7SV, YN4CB, YV5AY, 5BZ, ZC6JM, ZL4AO. (Rx: 0-V-1.)

B. Basey-Fisher ISWL/G3305, Bungay. Phone: CR7AH, HR1MM, KH6OR, MD7AR, 7WE, VK2HK, 3HW, 5RN, VP9KK, VS6BS, 7HC, 7SV, YN4CB, ZL1BZ. (Rx: 358X.)

D. L. McLean ISWL/G3400, Yeovil. Phone: Ap2N, AR8AN, CR6AI, 7AH, CT2AE, 3AC, EL2A, FF3CN, EA8AP, 8AV, HK3BK, 4DA, HP1LL, HZ1KE, 1PC, KG6CR, KP4AV, 4ES, MD4TH, OQ5AO, OX3BF, 3GE, 3RG, PK4DA, ST2GE, SV5UN, TA3FAS, TG5DM, TI2OE, VE6TM, 7FC, VK6VD, VP4LS, 4TB, 5AY, 6RM, 6SD, 9KK, VQ4RF, 4SC, 4VL, 5AI, VS7SV, VU2DH, YK1AC, YN4CB, YS1MS, 2AG, ZE1JX, 2KJ, 3JF, ZC6JM, ZD1SS, ZS5MX, 6AF, 6DW, 4X4AC, 4BA, 4CA. (Rx: RCA AR88LF.)

M. Milne ISWL/G2828, South Woodford. Phone: AR8BC, FA8CF, FB8AB, HE1JJ, KP4ES, 4AZ, LU4CN, 6AJ, OQ5CA, OX3MW, 3BD, OY2RD, TA3GVU, UAØBM, VE5JG, VQ4ERR, 4SC, 5AI, VS6BS, 6BI, 7SV, VP4PK, VK2AGU, YS1MS, ZC6DO, 6JM, ZE2KJ, ZL4FO, 3V8AI, 4X4AS. (Rx: SH5.)

W. J. C. Pinnell ISWL/G1832, Sidcup. CW: CR4af, EP3q, FM8ab, FN8ad, FY7ya, HC2ot, JA2hb, KG6di, KH6es, KS4ac, KV4aa, MP4bao, PK2zz, 4da, ST2te, UAØsj, VQ2ac, VS1cw, 6ax, 9aa, VK9jc, YS1o.

P. Short ISWL/DL2-3468, Gutersloh. Phone: EK1SA, 1FC, KP4AZ, MD2AC, OQ5CF, OY2RD, PY7CJ, SVØAG, UP2KBC, VK3MM, 3XW, VQ4BL, VS7SV, VU2DH, ZC6JM, 6DO, 6OY, ZL2GX, 3AM, 3FL, 3V8AP, 8AT, 4X4AD, 4AG, 4AK, 4BL, 4BO. (Rx: QRP 0-V-1.)

E. Churchman ISWL/DL2-979, Gutersloh. Phone: AR8HN, CR7AH, EK1MD, FA3JW, 9WU, MD2AC, 7HV, OA3IS, OX3RG, SVØVL, UA6SF, UB5BG, VK2AGU, 2BAL, 4VD, VQ4SD, 4VL, VS6BS, 7SV, YK1AE, ZL3GU, 3FL, ZS1DB, 4X4AG, (Rx: R107.)

L. R. Scott ISWL/G3110, Beccles. Phone: CE2TZ, 3AB, KH6AX, KP4AV, 4AZ, 4ES, 4JA,

MD7WE, MI3GH, OX3BF, PK1FT, ST2GE, SVøWL, TI2GM, OA6SF, YS1SL, 2AG, ZC6JM. (Rx: R1155.)

Roy Patrick ISWL/G699, Finsbury Park. Phone: CN8EO, OE13LL, TA3FAS, VO6AW, W2KC, 3DHM, 4DEQ, ZB1AJX.

K. J. Ward ISWL/G3013. Phone: CE3AE, 3CZ, CO2MA, 7PM, CT2AE, EA9AI, HC1FG, HK1CL, KZ5MN, KP4AZ, LU4BH, 7CK, OX3GE, OY3ITO, SV5UN, TA3FAS, 3GVU, TI2OE, VE7HIA, VP3HIG, 3MCB, VP4LS, 7NK, VS7MV, YS2AG, YV5AB, ZD1SS, ZL1LA, 3V8AP, 4X4AG. (Rx: BC348.)

W. A. Ferrar ISWL/G2475. Phone: AR8BC, CR4AC, 7AH, KR6CR, LUSBH, SV5UN, VS2CU, 7SV, VP9KK, VU2DH, YV5BQ, ZE2JJ. J. Fairs ISWL/G2660, Redcar. Phone: AR8BC, CO2SG, CR7AH, OX3GE, TG5DM, UB5DC, VS6BS, YK1AC, YV1AD, ZL2GX, ZS1BV. (Rx: S640.)

A. O. Frearson ISWL/G2242, Birmingham. CW: FA3jy, JA2hb, VH3tb, VQ3ak, ZB2i, ZD2jhp. Phone: FA8PX, UQ2AB, VQ5AI, ZS1BV.

L. F. Fotherton ISWL/G523, New Addington, Surrey. Phone: EA8CO, FF8PJ, HC2KM, HZ1KE, KG4AK, KL7YY, KP4AZ, VP4TZ, 5AR, 6SD, 7NU, 9L, 9II, 9KK, 9NS, VS6BE, 7SV.

G. M. Gifford ISWL/G3442, Dudley, Worcs. Phone: CN8ME, CO8MP, CT2AB, EA6CT, EK1DI, EP3L, HK1BZ, KP4AZ, MF2AA, OX3BC, PY2CK, VP4TB, YV5AY, ZD1KO, ZS6JW, 3V8BB, 4X4AD. (Rx: R1116.)

D. H. Swain ISWL/G3354, Manchester. Phone: CE3AT, FA9WU, KL7YY, LU4CN, PY2RK, 6BF, VE8AW, VK3LN, 5MS, VP4TB, 9KK, 3V8AP. (Rx: PCR2.)

J. R. Clayton ISWL/G3370, Newark, Notts. Phone: CE1AR, EA8HS, OX3BD, VK3XW, 6MO, VP3MCB, ZD1KO, ZL4HP, 4X4AT, 4BC, 3V8AA. (Rx: S640.)

M. Abrahams ISWL/G3206, Nottingham. Phone: AP2C, 2J, CO2EA, 2NG, 7RQ, HK3CK, HZ1AB, 1KE, JA2KK, KG6GD, 6GH, 6SH, KP4BY, 4CU, 4GU, KR6AD, 6AH, MD2AC, MD7HV, MI3SC, MP2BAB, PK3SK, 3SP, PY6DJ, 7KD, 7RD, ST2AM, 2RM, SV5UN, TA3FAS, 3GVU, TF5TP, VPSFR, 6SD, VQ2WQ, 5ALP, 5DES, VS1DZ, 7PW, VU2GJ, 2SD, XE2KW, 2W, YS2AG, YV4AM, ZD4AP, 4AC, 4AH, 3AX, ZS6EG, 4X4AD, 4AS. (Rx: AR88.)

C. J. Goddard ISWL/G2227, Coventry. CW: CR7ag, FB8xx, HP9fsm, HZ1pc, MD2pj, MQ3fg, MP4bao, VP6cdi, VR4aa, VS7nx, ZC6jm, ZL1lx, 2fa, ZS6ij, 6xq. Phone: AR8PO, CT3AC, EK1HB, SV5UN, VK3RW, VQ2WR, YK1AC, 4X4BL. (Rx: SH5.)

F. Baldwin ISWL/G193, London, E.11. CW: CE3cz, FM8ab, FO8ac, KH6es, 6fg, 6ij, 6lg, 6so, KL7aaf, 7aas, LU7bn, MD7lc, OQ5av, OX3rg, PK2zz, PY2atg, UAøkfd, U18kaa, VE8ao, 8as, 8aw, 8mf, VK3vj, 4zb, VP6cdi, VR4aa, VU2wr,

YV5bx, ZL3ct, 4gu. Phone: CO2BZ, 7AA, HPI1A, JA2BL, KG6SH, MI3SC, PY2JU, VE8NX, VK3BA, VP3HAG, 4TB, VQ3HI, VS6BH, 6BS, 6BT, XE1HC, 2AM, 2NF, YS1MS, 2AG, ZC6JM, ZL2JB. (Rx: S640 with Pre-selector.)

7 Mcs. 7000-7300 kcs.

F. B. Allen, Gravesend. CW: CN8bi, 8mz, CO2tr, CT3ab, EA9bb, EK1ad, FA8bg, 8rj, 9vn, HZ1ck, 1kc, KP4hu, 4kf, 4kr, 4qz, 5dr, 5wl, MD7we, PY2aia, 2aj, SV1vs/mm, TA3fas, TF5tp, UF6pa, VP6cdi, ZB1ajx.

J. P. Colwill, Launceston. Phone: CT1QG, EA3RK, IIBLW, ON4TU, 3V8AS.

D. J. Randall ISWL/G3032, Sidcup. CW: DL7cw, HB9hu, 9jo, OK1qq, 2bam, SM5aft, 5pw, UA6ar. (Rx: R1224a.)

W. Nicoll ISWL/GM2704, Dundee. CW: CO7nr, EA9bb, FA8rj, 9rz, KZ5dr, PY6ak, SL2an, UR2aa, VE1cy, 1jo, 1gu, 2jl, 3au, W1odu, 2dsb, 2yjc, 3opr, 4koj, 8feo, YN4rg, VP6cdi, ZB1ajx. (Rx: R1116a.)

3.5j Mcs. 3500-3635 kcs. 3685-3800 kcs.

J. P. Colwill, Launceston. Phone: DL1JY, 5AA, 7CD, FA8JO, HB9HM, ON4HG, OZ7SM, PAøCT, øKC, øDF.

W. Winchester ISWL/G2152, Eastbourne. Phone: SM6JO, VP6SD, W1MQ, 2CSY, 4KOU.

1.7 Mcs. 1715-2000 kcs.

W. Nicoll ISWL/GM2704, Dundee. CW: G2jf, 2ayc, 2hd, 3dj, 3fxs, 3fzw, 6ab, 8ak, 8du, 8vn, 8fm, GM3atv, 3fba, 3dzb, 8mj, GW3cby, GI5ej, DL2dv. (Rx: R1116a.)

G. M. Gifford ISWL/G3442, Dudley, Worcs. Phone: G2BZB, 2MT, 2YM; 3EBW, 3EKT, 6XA, GW8BW, 8FM. (Rx: R1116a.)

D. L. McLean ISWL/G3400, Yeovil. Phone: G2ABB, 2AON, 2FFY, 2FLK, 2MM, 2SC, 3AHM, 3ALE/A, 3BRN, 3CHW, 3EKT, 3ERH, 3FIB, 3MT, 3AMV, 4GR, 5FJ, 5HB, 5HP, 5UH, 6GU, 8DX, 8KG, GD3UB, GM3DZB, 3EBA, 4MF, 8FM, GW2BG, 2HIN, 3BUT, 3CJR, 4FW, 8BW. (Rx: AR88LF.)

Bill Iball ISWL/G941, Wigan. CW: G2kz, 2ys, 3aaq, 3dh, 3fh, 3gba, 3ip, 4au, 4cf, 5sk, 5um, 5xb, 6ij, 6vc, 6wo, 6zr, GM3fba, 3fxm, GW3efz, 5ab, 8mj, DL2hk, OELac, ON4tk. Phone: G2JF, 2NV, 3APG/A, 3BCM, 5SM, 6NB, GM3DZB, GW2BG, 8BW. (Rx: 0-v-1.)

W. Winchester ISWL/G2152, Eastbourne. Phone: G2ABB, 2ACV, 2AR, 2BGU, 2DKH, 2DQ1, 2DSP, 2DZF, 2FLK, 2GF, 2XQ, 2YM, 3ACQ, 3AQH, 3BEX, 3DHH, 3DJD, 3EBW, 3EKP, 3EKT, 3ERN, 3FEX, 4GI, 4GR, 4IB, 6RQ, 8KG, GC2BMU, GD3UB, GM3BL, 3DZB, GW2BG, 3CDH, 3FFE, 8BW. (Rx: SH6.)

J. P. Colwill, Launceston. Phone: G2ABR, 2BLW, 2DU, 2FFY, 2HAS, 2HFT, 2HOP, 2KO, 2MD, 2NV, 2YM, 3ABZ, 3AFT, 3AGP/A, 3ARS, 3AY, 3BCC, 3EDW, 3EES, 3EHB, 3EHX, 3EKT, 3ELV, 3FCY, 3GQ/A, 3IW, 5MT, 6XA, GW3CDH, 3CF.

# BROADCAST BANDS COMMENTARY

Conducted by "MONITOR"

## ● Asia

**Indonesia.** "The Voice of the United States of Indonesia broadcasting on 11785 kcs., Station YDE3" (Note new frequency... old was 11770 kcs.). English Hour begins at 1900 hrs. GMT. Dutch programme ends at 1900. English transmission from 1900-2000 hrs. GMT. News, recorded music, talk on Agriculture within Indonesia followed by News summary— $\frac{1}{4}$  hour each item. Heard QSA4 R7 with QSB to R3. (Reported by IBIS). Have been heard with strong signals at your Scribe's QTH in Bristol giving talk on Volcano's and Javanese Music.

Sidney Pearce has received a letter Veri from "Radio Indonesia" with schedule, for report on their French transmission at 1700.

(YDF2 heard R8 from 1900-2000 with English BC for Europe.)

Signals were QSA5 R8. Your Scribe has heard them very strong at this time with American Swing recordings. Norman Smith logged them closing at 2030.

**Syria. Damascus.** Heard several times on new frequency near 6900 kcs. usually QSA4-5 R7 around 1900 with Arabic music and news at 1915. (Fairs).

## ● Australasia

**Melbourne. VLC9 17800 kcs.** heard R6 from Sign on at 2000 in parallel with VLB2 9650 kcs., VLA4 11850 kcs. Off at 2155 and returns to the Air at 2210 for BC to S. America but is then on 17840 kcs. Broadcast to Europe in German heard strongly at 1700-1815 over VLB9 9580 kcs., VLA8 11880 kcs. and VLC 15200 kcs. VLG6 15230 kcs. after close of ABC Progs. at 2200

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Schedule	1100-1200	English over	YDC	15150 kcs. and YDB2 4910 kcs.
	1400-1500	"	"	"
	1200-1300	Chinese	"	"
	1300-1400	Arabic	"	"
	1500-1600	French over	YDB2 YDC and YDE	11770 kcs.
	1600-1700	Hindu/Urdu	YDB3	7270 kcs.
	1400-1500	Indonesian	YDF	6045 kcs.
	1500-1600	English	"	"
	1615-1700	Arabic	YDF2	11785 kcs.
	1700-1800	French	"	"
	1800-1900	Dutch	"	"
	1900-2000	English	"	"

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Jack Fairs lists YDF2 and states that they have extended the evening English transmission to 2000 and heard with FB signals. Hawaiian Melodies and a story of the islands (Mr. Charles Smart was the reader). Announces "This is The Voice of Indonesia in Djakarta." Norman C. Smith is a newcomer to this column and reports YDF2 (not YDS2 OM as you say), Gong at 2000 (16 notes then strikes 4) preceded by "Melodies from the Islands" and news in English. (Welcome Norman and let's hear from you again soon).

**Iran.** Pete Woolmer G116 reports EQC Radio Teheran on 9660 kcs. with News in English at 2000 followed at 2005 by dance music on records, sign off at 2030 with clock striking midnight.

heard R6 with Radio Australia BC for British Is. until 2315. VLH3 (ABC) 9580 kcs. R6 around 0845, ABC News at 0900. Also heard from 1330-1405 with running commentaries from SABC (Johannesburg) during Final Cricket Test Match at Port Elizabeth. (Pearce).

Frank P. Warton G3051 of Mill Hill, London, tells me that "Radio Australia" is to be taken over by The Australian Broadcasting Commission instead of being operated by the Dept. of Information, and that there is going to be a large reshuffle. He quotes that a large number of the transmitters now used are to be taken off the Air and there is to be a complete overhaul of all programmes. Frank says he will advise us on any more 'gen' he gets. Thanks OM. I wonder

SHORT WAVE NEWS

how many of you started Shortwave Listening at the age of seven? The following news has come to your Scribe that . . . Michael Crocker of Westbury-on-Trym, Bristol, has started at the age of Seven and listens to the Kookaburra Bird from "Radio Australia" every morning at 0700. Congratulations Michael and let's hear from you about any other signal that comes "thru your Loud-speaker" there. It's very seldom we hear a SWL in Bristol these days. What's holding you back Fellows? Can't you tune off 14 and 28 Mcs. once in a while!! (28 Mcs. is out of Season anyway—Ed.)

<b>Trans. WRCA</b>	<b>Frequencies 11890 kcs.</b>	<b>Beam to Central Europe, France, Germany, Poland.</b>
<b>WBOS</b>	<b>15210 kcs.</b>	<b>Mediterranean, North Africa, Turkey, Palestine.</b>
<b>WGEX</b>	<b>17765 kcs.</b>	<b>S. Europe, Spain, Austria, Italy, Balkans.</b>
<b>WNRX</b>	<b>21730 kcs.</b>	<b>Europe, N. Germany, Norway, Sweden.</b>

U.S.A. (West Coast). Jack Fairs is the sole reporter of any 'Californian' and logged KNBX San Francisco on 15240 kcs. at 2315 QSA4 R5-6 giving 'Reporters at Work' followed at 2330 with programme in Chinese. (RX: S640).

Canada (Newfoundland). Pearce lists CBNX St. John's with call at 2315 "This is Trans-Canada Network of the CBC, Stations CBN and CBNX at St. John's," foll. by World News. QRM from HI4T. (RX: Sky Champion).

● North America

Canada. Our DR Orville Lyttle VE2578 sends in a nice list of Canadian Stations, their freq., power, location, relays and slogans.

U.S.A. (East Coast). The Armed Forces Radio Service, New York 14, New York operates on the following freqs. from 1800-2145 :—

<i>Station</i>	<i>Freq. kW</i>	<i>Location</i>	<i>Relays from</i>	<i>Slogan</i>
	<i>kcs.</i>			
CBNX	5970 0.3	St. John's NFD.	CBN, CBC	Canadian Broad. Corp.
CFCX	6005 0.075	Drummondville QUE.	CFCXF	Canadian Marconi Radio.
VE9AI	6005 0.2	Edmonton Alta.	CJCA	The Voice of the Great North-West.
CJCX	6010 1.0	Sydney N.S.	CJCB	The Voice of Sydney.
CFVP	6030 0.1	Calgary Alta.	CFCN	The Voice of the Prairies.
CKRZ	6060 50	Sackville N.B.	CBC	CBC Inter. Service.
CFRX	6070 1.0	Aurora Ont.	CFRB	Roger Broad, Station.
CKFX	6080 0.01	Vancouver B.C.	CKWX	Western Broadcasters.
CBFW	6090 7.5	Vercheres, Que.	CBF	Canadian Broad. Corp. (French).
	0.2			CBC Inter. Service.
CKOB	6090 50	Sackville N.B.	CBC	The Voice of Halifax.
CHNX	6130 0.5	Halifax N.S.	CHNS	Trans.-Canada Communications.
CKRO	6150 2.0	Winnipeg Man.	CKRC	Canadian Broad. Corp.
CBRX	6160 0.15	Vancouver B.C.	CBR	CBC Inter. Service.
CHAC	6160 50.0	Sackville N.B.	CBC	Yukon-NWT Radio System.
VED	8265 5.0	Edmonton, Alta.	CBX	CBC (French).
CBFR	9520 7.5	Vercheres Que.	CBF	Voice of the Great North-West.
VE9AI	9540 0.2	Edmonton Alta.	CJCA	CBC (French).
CBFX	9610 7.5	Vercheres QUE.	CBF	International Service.
CHLS	9610 50.0	Sackville N.B.	CBC	CBC (French).
CBFO	9630 7.5	Vercheres Que.	CBF	CBC I nternational Service.
CKLO	9630 50.0	Sackville N.B.	CBC	CBC French Service.
CBFY	11705 7.5	Vercheres Que.	CBF	CBC International Service.
CKXA	11705 50.0	Sackville N.B.	CBC	CBC French Service.
CBFL	11720 7.5	Vercheres Que.	CBF	CBC International U.N. Service.
CHOL	11720 50.0	Sackville N.B.	CBC	Trans-Canada Communications.
CKRX	11720 2.0	Winnipeg Man.	CKRC	CBC French Service.
CBFA	11760 7.5	Vercheres Que.	CBF	CBC International Service.
CKRA	11760 50.0	Sackville N.B.	CBC	CBC International Service.
CKEX	11900 50.0	Sackville N.B.	CBC	CBC English/French Service.
CBLY	15090 7.5	Vercheres Que.	CBM/CBF	CBC International Service.
CKLX	15090 50.0	Sackville N.B.	CBC	CBC French Service.
CBFZ	15190 7.5	Vercheres Que.	CBF	CBC International Service.
CKCX	15190 50.0	Sackville N.B.	CBC	CBC International Service.
CKCS	15320 50.0	Sackville N.B.	CBC	CBC International Service, U.N.
CKNC	17820 50.0	Sackville N.B.	CBC	International Service U.N.
CKRP	21600 50.0	Sackville N.B.	WNCBC	CBC International Service.
CHLA	21710 50.0	Sackville N.B.	CBC	

**Canada.** A newcomer whom we welcome to this column is Dave Cocking G3722 and he reports the CBC International Service to Europe over CKCS in English at 2200 instead of over CKLO and in parallel with CHOL. He also receives the CBC beamed to S. Africa on CKRP at 1415, at good strength. (RX: S640/SH5).

**Alaska.** Roy Patrick G699 mentions that there is a Coast Guard Station NMJ on 2698 kcs. and wonders if any SWL has ever tried for it. Voice transmissions are given at 0600 and 1800 hours daily (a Canadian Friend tells him of this). Station is very keen to have reports from distant SWL's. Power is 5kW. How about it Sidney? ... Oh that QRN!

● **South America**

**Brazil.** Roy Savill G2811 has received from "Radio Nacional" in Rio an up-to-date list of Brazilian SW Stations and we have pleasure in listing them for your guidance:—

Rio de Janeiro	...	PRL7	9720 kcs.
		PRL8	11720 kcs.
		PRL9	6175 kcs.
		ZYC8	9610 kcs.
		ZYC9	15366 kcs.
		PRL4	9770 kcs.
Ceara	...	PYZ2	9290 kcs.
	...	ZYN6	6105 kcs.
	...	ZYN7	15165 kcs.
	...	PRK5	4865 kcs.
Para	...	ZYE7	4825 kcs.
	...	PRK5	6000 kcs.
Paraiba	...	PRK9	16190 kcs.
	...	PRK9	5998 kcs.
Minas Gerais	...	ZYB7	6095 kcs.
	...	PST2	7410 kcs.
	...	ZYB8	11765 kcs.
	...	ZYB9	15155 kcs.
SAO Paulo	...	PRA8	6015 kcs.
	...	ZYK2	6085 kcs.
	...	ZYK3	9565 kcs.
	...	ZYK2	15145 kcs.
Pernambuco	...	ZYK3	11825 kcs.
	...	PRF6	4895 kcs.
	...	ZYS8	4805 kcs.
Amazonas	...	ZYM8	4785 kcs.
	...		

Pearce reports ZYK2 on 15145 kcs. "Radio Jornal do Commercio" Recife R6 from around 0900. ZYN6 Ceara Radio Club Fortaleza R7 after 2100, PRN9 Departamento Federal Seguranca Publica, Rio de Janeiro sends letter Veri and card for report on their station PYZ2 on 9290 kcs. PRN9 is the MW transmitter evidently. Alan Willey reports ZYN6 QSA5 R7 at 2300 with call "Ceara Radio Clube" preceded by gong. ZYB7 QSA5 R8 at 2315 with call "Radio Difusora Sao Paulo." ZYC8 QSA5 R8 from 2100. This is "Radio Tamoio" and Roy Savill who reports them says they are usually one of the best signals from Brazil and have good entertainment value programmes of popular music. PRL5, also reported by the same reader, has appeared on

approx. 11940 kcs. and has been heard regularly late evenings. It is companion to PRL4 on 9770 kcs. and is run by the Ministry of Education ... "Radio Ministerio de Educacao." Usually QSA4-5 R8-9, PRA8 "Radio Club de Pernambuco" heard QSA4 R6 at 2230 with Sponsored programme (Savill).

● **Central America/West Indies**

**Dominican Republic.** HI2L Trujillo City 9525 kcs. heard QSA4 R7 on a clear channel at 2230-2245 with Latin American music and frequent call, "La Voz del Tropico" (Fairs).

**Cuba.** Havana COCY 11746 kcs. heard QSA4-5 R5-6 with hetero. Sponsored programmes and call "RHC Cadena Azul en Habana, Cuba" at 2230. COBZ Havana 9026 kcs. QSA4 R5 around 2300 with good musical programme and call "Radio Salas." COKG Santiago 8960 kcs. QSA4-5 R6 at 2230 with slogan "Cadena Orientale del Radio" followed by News bulletin. (Fairs).

**Panama.** HO50 Panama City. "Radio Continental" heard testing on 6045 kcs. (listed as 5960 kcs.). (Radio Sweden DXers Prog. per J. Fairs.)

**Haiti.** 4V2S Port-au-Prince 5951 kcs. QSA4 R6 with bad W/T QRM at 2330 onwards peaking to R7 by 0020 (Roy Savill G2811).

4VRW (ex HH3W), 4VW (ex HHW) sends QSL Card and says "Many times Thanks a Million." For reception near 9780 kcs. (Sidney Pearce who reports this says he never had a QSL from HH3W). Schedule:—1100-1330, 1700-2000, 2300-0300 on freq. 10130 kcs. but now heard 10210 kcs. with R7 signals from 2300.

**Cuba.** COBC Habana "Radio Progreso" 9362 kcs. R7 after 2300 (a little spread from Madrid sometimes), COCH Havana "Union Radio S.A." 9437 kcs., clear signal from 0130, earlier has some QRM from Brazzaville on 9440 kcs. (Pearce.)

**Panama.** HOLA Colon. "Radio Atlantico" 9505 kcs. R6 with sponsored progs. in English 2200-2300 when says time 6 p.m. and second session in English will be at 9 p.m. (0200 GMT) after three hours BC in Spanish. (Pearce.)

**Nicaragua.** Managua. YNWA 6464 kcs. regularly heard QSA4-5 R6 around 2300. Announces as "Radio Mundial en Managua." (A. Willey G1780), YNEQ Managua 6963 kcs. heard QSA5 R6 at 0130 with call "La Voz de la Victoria" (QRA see QRA Section) (Willey.)

**Haiti.** 4VCN Port-au-Prince 6407 kcs. heard regularly at 0015 with Six chimes followed by call sign given in French ('Quatre Vay Say Enn') (That's how it sounded thru' Allan Willey's Speaker). This reader says the power used is 100 watts but reception is often R8 with perfect readability. Allan wants the QRA. Anyone oblige for QRA Section next month?

**Trinidad.** Port of Spain. "Radio Trinidad" 9625 kcs. heard at 2040 QSA4 R4, Prog. was "Bringing Christ to the Nations" (D. Webber G3623).

● Africa

Observations from IBIS (in April).

**Mauritius.** V3USE Forest Side operating on 15075 kcs. . . 0300-0415, 0800-0930 and 1430-1700. Power 1.5kW.

**Angola.** Radio Clube de Huambo, Nova Lisboa. 11925 kcs. Sun. . . 1100-1245, 1600-1700. Weekdays 1800-2200.

**Cape Verde Islands.** CR4AA Radio Clube de Cabo Verde. 5895 kcs. is again audible when ZRK Cape Town leaves the Air at 2100.

**Bechuanaland.** ZNB Mafeking. Now on 8230 kcs. having QSYd from its old channel of 5900 kcs. Schedule:—1700-1930 hrs.

**Mozambique.** CR7BE 9671 kcs. also on 11764 kcs. in parallel from 0400 hrs., requesting reports on the latter channel. CR7BG 15196 kcs. varying from between 15175 to 15195 kcs. with test transmissions. Reports requested and should contain programme content, QSA, R, and QRM/source of, etc.

**Angola.** Pearce reports the "Radio Clube de Huambo" Nova Lisboa 11925 kcs. and heard evenings R7. Sometimes closed as late as 2205 with Portuguese National Anthem. CR6RJ "Radio Clube da Huilla" Sa da Bandeira, 9760 kcs. heard on Sundays until sign-off at 1830 with Nat. Anthem.

**French West Africa.** Dakar. 15345 kcs. "Radio Dakar" R7 evenings until close with "La Marseillaise" on this freq. at 2030. The 11895 kcs. channel in parallel is on the Air until 2300. News in French at 2015. (Pearce.)

**Tangier.** "Radio International" Tangier 6110 kcs. sends Pictorial QSL Card to Sidney Pearce with foll. schedule:—1200 English, 1230-1315 French, 1315-1400 Spanish, 1400-1600 French-Spanish, 1800-2000 Arabic, 2000-2115 French, 2115-2215 Spanish, 2215-2400 French/Spanish. "Voice of America" relay station in Tangier heard R7-8 signing on at 1630 with "This is Tangier on 11710 kcs. signing on" then Foreign language Broadcasts. QRM from presumably VUD on same freq. Also strong signals evenings on 7220 kcs. until sign-off at 2230 hrs. (Pearce.)

**Kenya Colony.** Roy Patrick lists VQG1 Nairobi on 4885 kcs. and has logged them around 1800 regularly over the past few weeks with BBC News relay foll. at 1515 with Local Newscast, announcements and weather forecast.

● Europe

**Netherlands.** Jack Fairs heard an experimental transmission from "Radio Nederland" on approx. 7080 kcs. on Feb. 14th last at 1850 to close at 1905. Call letters announced appeared to be PCL. A QSL card has since been received for report on this transmission but no 'gen' on this station was mentioned. Has anyone else heard this one?

**Germany.** Leipzig (USSR Zone) Mitteldeutscher Rundfunk has been heard on several frequencies apparently testing and in parallel

with 9730 kcs. channel. Approx. freqs. logged were:—8670, 8930, 10520 and 10775 kcs. (Fairs.)

**Malta, G.C.** FBS was heard on 9925 kcs. with weak signals and bad hetro. Radio Sweden DX Session quotes a letter from this station, that this is a second harmonic of 4965 kcs. freq. (Fairs.)

● Honour Roll, 1950

1. S. Pearce (Eng.)	...	...	118
2. A. Cushen (N.Z.)	...	...	118
3. R. Gillett (Aust.)	...	...	111
4. T. B. Williamson (Eng.)	...	...	91
5. E. Field G962	...	...	67
6. A. Levi (N. Ireland)	...	...	65
7. H. F. Buggins (Eng.)	...	...	64
8. A. V. Wilkinson (Eng.)	...	...	52
9. R. Patrick G699	...	...	50
10. J. Fairs G2660	...	...	45
11. R. Savill G2811	...	...	40
12. P. E. Woolmer G116	...	...	39
13. C. Shapiro G13173	...	...	37
14. 86th Belfast Scout Group (N. Ireland)	...	...	37
15. M. Milne G2828	...	...	33
16. J. Symes G3010	...	...	31
17. O. Lyttle VE2578	...	...	30
18. R. H. Barnett (Eng.)	...	...	27
19. F. Pilkington (Eng.)	...	...	25
20. R. Chorlton G2832	...	...	25
21. D. Webber G3623	...	...	25
22. J. Unal (N. Ireland)	...	...	22
23. A. Willey G1780	...	...	21
24. J. Garrett G13348	...	...	21
25. S. J. Sinclair G3290	...	...	20
26. J. Grainger G3657	...	...	19
27. P. A. Hartley G730	...	...	18
28. D. Morris G2795	...	...	18
29. H. Moss (N. Ireland)	...	...	18
30. J. Harris (Eng.)	...	...	18

Readers are requested to send along their lists of Countries Verified for this Roll, ten or more gets you in. Lists must state Country and Station Verified. Add your ISWL Number if any and head your sheet "Honour Roll" Monitor. Good reporting and concentrated listening will reap those elusive QSL's for you, as the "Top-notchers" have found.

**Poland.** Warsaw 6215 kcs. heard with English News bulletin at 1930 QSA5 R8-9 (J. Vaux).

**Hungary.** Budapest. Heard with fairly good signals giving News in English at 2200. R5 with bad QRN on 6240 kcs. also in parallel on 9820 kcs. (R9 with bad QRN). Station leaves the Air at 2300. Verified with typewritten letter Veri. (William S. Fargo ISWL-W4/1076 Atlanta, Georgia sends in this 'gen' in a lengthy log. (Please state GMT OM).

**Germany.** "Radio Stuttgart" sends letter Veri to Pete Woolmer (RX: R1224A and SH5) and schedule as follows:—

Mon./Fri. ...	... 1045-1350	1430-2300
Tues. ...	... 1045-1400	1500-2300
Wed./Sat. ...	... 1045-2400	
Thurs. ...	... 1045-1345	1500-2300
Sun. ...	... 0500-2400	

(QRA ... see QRA Section).

**Switzerland.** HER7 Berne 17784 kcs. often heard with strong signals at 1450 with English BC in parallel with HER5 11865 kcs. (Woolmer).

**Spain.** Madrid. EDU10 Sindicato Espanol Universitario on 7171 kcs. heard QSA4 R7-8 from 2230. Programme consisted of mainly Spanish music and popular classical pieces. Being in the 7MC Amateur Band some bad QRM was suffered at times. (Roy Savill). (Guess there was QRM Roy !)

● **QSL Section**

Verifications received by readers over the past month:—Jack Fairs has found the following to oblige him: Radio Sofia (7670), TGWA (9760), "La Voz de la Falange" (7380), Radio Nederland (PCL ?). Jim Symes: Beyrouth (8036), A. I. R. Delhi (17840), CKLO, HCBJ, VLA6, VLA4, VLB4, VLB2, VLC4. Carl Shapiro: ZYK3, PH1, TGWA. Peter Hartley: HER5, Radio Sofia. Peter Woolmer: CHNX, HER3, ZYN7 Stuttgart. Orville Lyttle: VLC3, VLC9, VLB4, VLA4, VLA8, VLG3, VLT5, VLI2, VLX3, VLR2, TAP, Budapest, FZP8 Khartoum (enclosed picture magazine of the Sudan), CKFX, WABC. (Nice work Orville those VK's. Congrats to you on winning the Broadcast Contest there with your 'Amigo's'). J. F. Vaux: LRS (Letter Veri and schedule, also by separate post two copies of the Constitution and "The Truth about Argentina!"), Radio Sofia. Roy Savill: Larissa Voralberg ZJM7 VOA Munich. Carl Shapiro in a second list has: WGeo, Argentina, Hungary, FHE3, Sudan, OIX2, Lebanon. Sidney Pearce: Manila (15330 kcs.), HEU3, YDF2, PRN9, Ponta Delgada, LKQ, Radio Menorca, CKLO, 4VRW, YVMM, YVMQ, Beirut, TGWA, HOLA, Blue Danube Network and VUM2. Roy Patrick: CBNX (9 months to answer!), Tel Aviv, TFJ, Belgrade (6100), Budapest (9820), CS2WI (12865), YVOA (4830), CR6RB. Alan Willey: Beirut (card by Airmail in two months. ... depicting a "Cedar of Lebanon"), YVME (less than two months. May increase power from 2.5kW to 10kW shortly says this reader). Roy Savill: "La Voz de la Falange" in Madrid, Deutschlandsender, Bayerischer Rundfunk.

● **QRA Section**

This month we are adding addresses sent in by readers to Sidney Pearce's usual six QRAs. Last month's QRAs from Pearce were omitted and are now added to this list.

**HO50.** Radio Programas Continental, Apartado 1795, Panama City, Panama, Central America.

**DZH7.** Far East Broadcasting Co., P.O. Box 2041, Manila, Philippine Islands.

**TIFC.** The Lighthouse of the Caribbean, Apartado 1307, San Jose, Costa Rica, Central America.

**HC4FA.** La Voz de Manabi, Av. 18 de Octubre No. 113, Portoviejo-Manabi, Ecuador, South America.

**YDF, YDF2.** Radio Republic Indonesia Serikat, Gambir, Selatan 17, Djakarta, United States of Indonesia.

**COCH.** Union Radio S.A., Prado 107, Havana, Cuba.

**PY22.** Chefatura de Policia, Rua da Relacao S/N., Rio de Janeiro, Brazil, South America.

**ZYU8.** Radio Difusora de Teresina Ltda., Rua Areolino de Abreu 1157, Tercina, Est. Praui, Brazil.

**CR6RM.** Caixa Postal No. 174, Mocamedes, Angola, Portugese West Africa.

**OAX4Q.** Radio Victoria, Edificio Minería No. 508-510, Lima, Peru, South America.

**ZPA5.** Radio Encarnacion, Compania Paraguaya da Radiodifusion, Encarnacion, Paraguay, South America.

**OZU, OZH2.** The Danish State Radio, Radiohuset, Copenhagen, Denmark, Europe. (Sidney Pearce).

**YVOA.** La Voz del Tachira, Apartado 37 San Christobal Venezuela, South America.

**Pared.** Radio Club Portuges, Pared, Portugal. (Roy Patrick).

**Madrid.** "La Voz de Falange" Alcala 44, Madrid, Spain.

**Deutschlandsender.** Berliner Rundfunk, Charlottenburg, Masurenallee 8-14, Berlin, Germany.

**Munich.** Bayerischer Rundfunk, Anstalt Des Offentlichen Rechts, Munchen 2, Rundfunkplatz, Germany. (Roy Savill).

**EQC.** The Imperial Government of Iran, Department of Press and Propaganda, Teheran, Iran.

**LKQ, LKV.** Radio Norway, Oslo, Norway.

**Radio Stuttgart.** Office of the U.S. High Commissioner for Germany, Information Services Branch, Radio Section, APO 154, Stuttgart, Germany.

**SBO, SBT, etc.** Radio Sweden, Stockholm 7, Sweden.

● **ACKNOWLEDGMENTS**

The Editor and "Monitor" wish to thank all the readers who have kindly submitted items compiled in this month's Article. Your news for "Around the Broadcast Bands" is always appreciated and should be sent to "Monitor" c/o SWN 57 Maida Vale, London, W.9, England, to reach your scribe by the 27th of the month latest.

73 and Good Dx until next Month OM's.

"MONITOR" (ISWL/G282)

# VHF NEWS

Conducted by

H. E. SMITH, G6UH

WITH improved conditions and higher activity generally, it is pleasant to record that the 2 metre band gave us, on the whole, a lively month.

We worked quite a number of stations, including several newcomers to the band, and we should like to extend a special welcome to G3GMZ, 3EYV, 3GHS, 3AZJ, and G4FC, all in the London area and putting out some fine signals (Dx stations please note).

Most of our reporters comment on the improved conditions, which gave some of us some rather startling contacts!

G3EHY (Banwell) was heard on the evening of March 30th working G5MA (Ashtead) and his phone was many dB's over S9 in Hayes.

A solid phone contact was made with G3ABH (Sandbanks, Dorset) on the evening of March 31st, and his signals were peaking to S9 most of the time.

It is interesting to note that an increasing number of stations are changing over to the co-linear stacked array and, in the main, are reporting greatly improved results. This is to be expected, of course, and we have for a long while advocated vertical stacking as being really necessary on 144 Mcs. and higher. Re the V.H.F. Contest: It is doubtful whether judging will have been completed in time for the June issue, but we shall at least be able to give some details of the number of entries and any Dx worked. We wish to extend a very hearty welcome to the new reporters to these columns and thanks for the most interesting reports received.

Apologies are offered for being unable to accommodate all the reports received last month. This was mainly due to the space taken by the V.H.F. Contest details and the resultant wielding of the Editors scalpel! So, without any further preamble, to the reports.

Stan Martingell (G2MV), Kenley, Surrey, comments in no uncertain manner on the Band Plan chaos (to which we heartily subscribe) and puts up a really interesting proposal for a workable Band Plan. Briefly the plan is as follows:—HF and LF ends, CW only. All centre for phone, and about 200 kcs. of the centre for high power phone. (With activity in the London area increasing rapidly, the QRM problem is sometimes serious under the present arrangement.) Stan reports also on the March conditions, which were exceptional on the 1st, 5th, 10th, 13th, 25th, 26th and 28th. The outstanding

Station Reports:  
Full details of 5BY/3EJL Epic.  
Calls Heard and Worked

signals during these periods being G2OI, GW2ADZ, G2AIQ, G3DIV/A, G5SK, G3ABH, G3EHY, G3EJL, G4LU and G8SY. On the 28th the band was wide open from 1600 to 2000 hours for 200 miles, east through south to west. (This was also noted at Hayes.) Stan hopes to have some slot aerials working shortly, and we shall be most interested in some "gen" on these.

G3EHY "Louis" (Banwell, Som.) reports March as being the best month for a very long time; the band being open every night to the S.E., and most nights to the north. He worked G2OI (Eccles) on fourteen consecutive nights, and G3DA fairly regularly. Louis has been on every night throughout the winter, and has found that stations up to 100 miles could be worked even on the worst nights. He will not be quite so active during the next few months, but hopes to put in as much time as possible on the band. Thank you, Louis, for the good wishes extended to these columns.

Bill Parker (GW2ADZ), Louis's "sparring partner," also sends an interesting report, and comments on the excellent conditions, especially March 28th, when he had 5 Dx Fone QSOs in a row, with stations in London, all coming in like locals. Bill's fone is 2 watts grid modulation to an 829B running at 65 watts, and is only about 40 per cent. In spite of this it sounded FB in Hayes on the 28th! He finds it pays to come on during the early evening, as conditions are usually better then. We should like to join Bill in welcoming G5UD back to the band after his long illness.

Bill mentions that the only way he can work north is to beam S.S.E. at mountains three miles away (thars iron in them thar mountains Bill! Hi!).

Harry Gray G8LG (Sunningdale) again reports excellent progress on the band. Starting up on Feb. 26th, QSO No. 1 being with yours truly, he has worked more than 45 stations in 15 counties (this is some going). His Dx QSOs now include G2ATK (Warks.) G3ABH (Dorset); G3EHY (Som.), and he has also worked G8IL, G3FAN, G5UD and heard G5BY several times.

Harry's efforts to put out a good signal with DC mains are being well rewarded, and he is to be congratulated in obtaining these results with only about 12 watts input.

We welcome John Letts G8IL (Salisbury) a new reporter to these columns. John is not situated in a particularly good QTH, but manages

to put a good signal into Hayes lately. He worked his best Dx, so far, on the 28th March when he had QSOs with G2XS and G5UD (both of King's Lynn) 153 miles from Salisbury. John sends an interesting calls-worked list and reports that G3FMO (Chard, Som.) is active again, and G4GR (Newport, Mon.) has been heard testing.

Aerial at G8IL is a 4 over 4 with an 829B in the P.A. (perhaps we can have details of your Rx next month, John?).

Vernon Mellor G5MR (Hythe Kent) is fully active again on 145.152, with 30 watts to an 832A. He hopes soon to be QRO with an 829B (or equivalent).

Vernon has three detachable heads for his mast, i.e. Quad, 3 over 3 W.S., and 6 element co-linear. GW2ADZ has been worked on the 3 over 3, but the stack has not had a chance yet under really good conditions.

Vernon does not agree with your conductors' comments on the band plan, but suggests the falling off in activity is due to the deterioration of conditions last November which caused a lack of interest, and this interest has not been fully restored. (We agree about the lack of interest, Vernon, but comments over the air from many stations indicate that the lack of interest is due to frustration at not knowing where to look for the Dx, coupled with the fact that many of the original staunch supporters of the Band Plan now rarely show up on the band).

Vernon sums up by asking London area stations who complain of lack of activity on Sunday mornings to remember that there is a slice of England to the south-east, and a station situated over 50 miles from London waiting for a QSO, i.e. G5MR.

"Pip" Pearcey G2JU (West Wittering, Sussex) has just finished reorganising at his new QTH and will be on only at week-ends, being away at business during the week. Main operating time is Saturday 1900 onwards. His QTH is only 10 ft. above sea level and he specially welcomes reports.

Aerial is a four element rotary in roof space and frequency 145.21 Mcs.

"Pip's" only grouse is against the Band Plan. He, like many others, finds it difficult to "look" for the Dx owing to the uncertainty as to where to find it (Perhaps, after all the VFO might be useful on 144!).

Bill Winsford G4DC (New Cross) sends an interesting report (and a welcome one too!). Bill found January and February conditions at a low ebb, but with the improved conditions during late March and early April he found the opportunity to catch up with the "Die-Hards," by working a number of new stations, among whom were G3GM, G5QB, G8NB, G2FAB, G3BHS, and G3AZJ. On March 5th, G5SK (Coventry) was netted at dinner time, and a sudden drop in temperature on the same evening provided another welcome QSO with G2CPL

and a new county in the shape of GW3EJM (Cardiff).

On March 25th, Bill heard G5IB calling F3LQ, and carefully searching the band found F3LQ merrily calling CQ on 144.85 Mcs. at 549. Efforts to raise the Frenchman were fruitless.

Bill sends more interesting gen on the 144 Mcs. position in Holland, received from PAØLU. Activity is low at the moment, due to re-building and waiting for improved conditions. When the Dutch stations were working Hull and Newcastle last autumn no signals were heard from the London area, which appears to be a difficult haul.

Activity is also limited by a lack of surplus equipment and high prices, 829's being £10 each and the 6J6 is unobtainable. PAØLU is on 144.68 Mcs. and is building Rx for 70 cms., using a crystal diode. Thanks for a most interesting report, Bill.

Norman Brundle G2CPL (Lowestoft) appears with another welcome report. He notes the improved conditions on March 10, 25 and 26th, also on April 6/8th, and has maintained his skeds with G3VM, 3F1J, and GW2ADZ. On April 6th G3EHY was heard at 579 for the very first time and although Norman called him for nearly an hour no QSO resulted. G3EHY was later heard working G2XS (King's Lynn) (so near and yet so far O.M.?).

Norman's list of calls heard and worked shows a nice degree of activity. His all time score on 144 Mcs. is 111 stations, 25 counties, 7-PAs, 2-ON4s, Best GDX 263 miles.

G3DIV/A (Eastbourne) sends an interesting list of calls heard and worked, and notes that activity is peaking to a much higher level. His aerial is a 20 ft. high Yagi but he hopes to increase the height to 40 ft. in the near future. Tx is a 522.

#### 430 Mcs. News

G5BY and G3EJL are making a habit of it! Hilton sends interesting extracts from his log for the period March 28th—April 7th and very fine business reading it is:—

March 28th (1914-1925). Two way CW contact with G3EJL, 5BY was 599 and EJL 449.

April 6th (1923-1951). Two way phone contact with 3EJL. Both ends peaking to 5 and 7. 5BY heard 3ABH at 559-1956 GMT, off back of beam, when 3ABH was calling 3EJL. Worked 3ABH cross band (3ABH on 436 Mcs.-5BY on 145.) 2030 to 2038.

April 7th. Two cross banders with 3EJL for test purposes 5BY on 435 Mcs. and 3EJL on 436 Mcs. for 1st and 2nd contacts respectively (1741-1809).

1810-1820 GMT—Two way contact with 3EJL, CW and phone. 1923-1934 Another two way phone contact with 3EJL—both ends up to S9 on phone.

Between 2120 and 2126 3ABH was again heard at 559 and again at 2210, at S3 when 3ABH had his 15 element Yagi in the opposite direction.

When one remembers that the distance between 5BY and 3EJL is 119 miles, the only word applicable is—"Magnificent."

That's the lot for this month. Thanks a lot chaps, with good luck and 73 to all. G6UH.

**Calls Heard and Worked**

**G2CPL (Lowestoft) March 10th-April 9th.**

**Worked**

G2CIW, G2NH, G2XC, G2YU, G3CGQ, G3DIV/A, G3FIJ, G3FXG, G3GBO, G3VM, G4HT, G6OH, G6WU, G8QR, GW2ADZ.

**Heard**

G2XS, G3AFV, G3AHB, G3ANB, G3DAH, G5IB, G5MI, G5TP, G6LL, G6YP, G8QC, G8SY.

**G8IL (Salisbury) March**

**Worked**

G2AJ, G2BMZ, G2CIW, G2MV, G2NS, G2XC, G2XS, G3ABA, G3ABH, G3EBW, G3EHY, G3EJL, G3FAN, G3FD, G3FKF, G3FMO, G3GBO, G3RI, G4DC, G5BY, G5IB, G5MA, G5TP, G5UD, G6JK, G6NB, G6UH, G6WT, G8KZ, G8LG, G8LY, G8QC, G8SM, GW3EJM.

**A. E. Wright G3145 (Hinkley, Leics.)**

Rx—RF27—CR100.

**Heard**

G2ATK, G2FNW, G2FWW, G2IQ, G3ABA, G3BLP, G3CXD, G3EHY, G4RK, G5JU, G5RW, G5SK, G6NB.

**A. L. Mynett (Wembley, Middx.) Mar. 15th-Apr. 7th.**

**Heard 50-75 m.**

G2AIQ, G2DSW, G2NM, G2XC, G2XV, G3BHS, G3DAH, G3DEP, G3DIV/A, G3EJL, G3FAN, G3FIJ, G4MW, G5MI, G8IL, G8SY.

**Heard 75-100 m.**

G2ATK, G2FNW, G2XS, G3ABA, G3ABH, G3CFR, G3ENS, G5SK, G5UD, G6CI.

**Heard 100-200 m.**

G2CPL, G2IQ, G2BMZ, G2OI, G3EHY, G3AHT, G3FMO, G5BY, GW3EJM, GW2ADZ.

**G3DUV/A (Eastbourne) March 12th-April 10th.**

**Worked**

G2AJ, G2CPL, G3KF, G2MV, G2UJ, G3CGQ, G3DAH, G3EBW, G3FXG, G4DC, G4HT, G4MW, G5UD, G6LL, G8NW.

**Heard**

G2AIQ, G2CIW, G2FZR, G2IQ, G2WJ, G3BLP, G3FXA, G3WW, G3FD, G3GBO, G5MI, G6NB, G6LO, G6LR, G6VX, G6WU, G8KZ, G8QC, G8SK, G8SY, G8VW, F8OL, F8CH, F9FT.

## MAILBAG

*G3XT raises a controversial issue—Ed.*

*The Editor,*

*Short Wave News,*

*57 Maida Vale, W.9.*

Dear OM,

"Centre Tap" makes an interesting point in his feature "Resonant Lines" this month. He says "Why ninety-nine in every hundred immediately start to print in block capitals is a point worth investigating by psychologists . . . It is a silly mistake. The beginner will soon learn to read it faster than he can print."

Although I usually find myself in agreement with "Centre Tap" in his published views, this time I really must "beg to differ." I was privileged to serve with some of the best Morse operators in the country during the war, and I noticed they, too, made this alleged "silly mistake."

I submit that block capitals are far more likely to be legible and accurate than the average person's handwriting. It is quite possible, with practice, to print in block capitals at 20 wpm., and some operators can copy faultlessly in block capitals up to 25 or 30 wpm.

I enclose, by way of illustration for Editorial perusal, five quarto pages of messages in block letters which I have taken down at random from four stations on the 7 Mcs. band to-day. I think they are unquestionably 100 per cent legible, 100 per cent accurate copy of the signal exactly as sent (including the sending op's mistakes!) and virtually 100 per cent solid copy despite the fact that I read them through fairly heavy fone and CW QRM on a rather unselective home-built 0-v-2 receiver with loudspeaker, with a short indoor receiving aerial. If "Centre Tap" could produce a more legible and accurate copy in ordinary handwriting, I raise my hat to him!

"Centre Tap" goes on to say that "the other bad habit to eradicate is the temptation to make words of it, instead of simply putting down the letters, and making sense of these later." Here again I disagree. Correct and intelligible Morse depends *entirely* on proper spacing. Even a beginner should be in no doubt as to where a word ends if the spacing is correct. Therefore the sender, and not the receiving operator, "makes words of it."

I have met, on the air, some of the gentlemen who "make sense of it later." They are easy to recognise, as they invariably address me as "G3XTG"—even after I have carefully left a 3-second space after the letter T!!

Anyway, it would be interesting to hear what your other readers think about this controversial subject, which concerns every operator who wants to do his best in Morse.

73, Yours sincerely,

W. Oliver, G3XT.

Suffolk.

Order your next month's *Short Wave News* NOW. It helps your bookstall, it helps us, and it will ensure that you are not disappointed.



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## ISWL AMATEUR AWARD CONTEST No. 1

THIS Contest was intended as a practice run for the main annual event which took place last month. Timed to coincide with the ARRL telephony Contest, it provided plenty of fun for the phone operators while conditions made things worthwhile for the CW boys. Congratulations are offered to the East Brighton Group in winning this event; under their energetic secretary Will Jardine ISWL/G2428 they performed wonders down in Brighton and this Group is now one of the most progressive that we have on the League books. Will himself logged some twenty countries in fifteen zones, mostly on phone and ably backed by a first-class team they succeeded in amassing the total score of 2639 points. Will reports that conditions were good but that QRM was heavy owing to the ARRL Contest and while his team had no casualties, Ian Neame again had some trouble with his Rx but managed to keep going and produce some 216 points towards the total score.

North London Group came second with some 1240 points. Considering that this was the first ISWL Contest they had entered, they have done extremely well. They were successful in logging zones 1, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 16, 18, 20, 33, 35, 37 and 40. Peter Bysh himself was able to amass some 455 points with his SX24—a most creditable achievement. North London entered the field with a good team and have given very good account of their prowess. All success to them in future events.

The Huddersfield ISWL Group were handi-

capped by being two members short but nothing daunted they decided to enter and make the best of it. They certainly made a good showing and are placed third on the list with some 1173 points, only five points behind the North London Group. This is indeed a very good show and congratulations are due to J. H. Fish ISWL/G2875 with his Hallicrafters S38, J. Burgess ISWL/G2561 operating his R107 and D. Littlewood ISWL/G2974 using the R1155. Good operating appears to have been the order of the day up there in Huddersfield!

Chelmsford ISWL Group occupy fourth place with a total of 1056 points. This grand score was the result of one operator only! W. Mills ISWL/G261 was let down at the last moment, owing to the misreading of the rules etc. However, he has succeeded in becoming the highest individual scorer, no mean feat in a Contest of this nature. Congrats. Walter and may your success spur the Chelmsford Group on to even greater achievements.

Bert Glass of Plymouth forwarded another individual entry. Having decided not to be left out of the fun he enters the arena with some 935 points but then a high score is expected from an old timer like Bert. Using his Hambander with good effect, he concentrated on the CW band and produced his usual good list of choice Dx. Good going Bert!

East London finish up at the bottom of the list this time—for a change! The usual support was not forthcoming owing to the various

INDIVIDUAL SCORES

Name	Group	Rx	Pts.	Place
W. Mills ISWL/G261	Chelmsford	HRO	1056	1
A. E. Glass ISWL/G2597	Plymouth	Ham- bander	935	2
W. Jardine ISWL/G2428	E. Brighton	R1155a	705	3
J. Burgess ISWL/G2561	Huddersfield	R 107	644	4
R. Langridge ISWL/G3471	E. Brighton	R 107	644	4
F. Walton ISWL/G3497	E. Brighton	R 107	507	5
D. Littlewood ISWL/G2974	Huddersfield	R 1155	481	6
J. Davies ISWL/G1695	E. Brighton	O-V-1	462	7
P. Bysh ISWL/G1233	N. London	SX24	455	8
P. West ISWL/G3701	N. London	358	434	9
J. Fish ISWL/G2875	Huddersfield	S38	408	10
C. Parks ISWL/G3641	N. London	SX24	350	11
W. Wills ISWL/G1640	E. London	504	275	12
M. Raphael ISWL/G2426	N. London	S640	224	13
M. Freedman ISWL/G2506	N. London	SH5	216	14
I. Neame ISWL/G3470	E. Brighton	SH11	216	14
D. French ISWL/G2280	E. London	SH5	90	15
M. Milne ISWL/G2828	E. London	SH5	50	16

commitments of members. Three operators entered for the event with the secretary, W. Wills G1640 as the team captain. Bill obtained 275 points on his Eddystone 504 while D. French, one of the younger members, provided some 90 points as his individual score.

REFLECTIONS

While the support for this event was not as great as had been expected it did provide some fun for the participants and in this respect alone has been well worth while. Conditions were good and the scores very gratifying considering the short duration of the Contest.

APPRECIATION

ISWL HQ extends its thanks to all who participated in the Dx hunt and we sincerely hope that the sport provided was well worth while. Thanks are also due to the Group secs., who, as is usual in these events, spent a great deal of time and energy on the general administrative work associated with these contests.

ISWL CERTIFICATED AWARDS

To the first, second and third teams will be awarded the ISWL Certificate of Merit suitably engraved. These are the property of the respective Groups and will be retained at their HQ's as a Group trophy.

GROUP PLACING

Place	Group	Points
1	East Brighton ISWL Group	2639
2	North London ISWL Group	1178
3	Huddersfield ISWL Group	1173
4	Chelmsford ISWL Group	1056
5	Plymouth ISWL Group	935
6	East London ISWL Group	330

Inspection of the entry sheets and Group synopsis records may be made by any League member. These records are available at HQ, where they will remain for inspection purposes until the last day of June, 1950.

HQ GROUP ACTIVITIES

**BROADCAST BANDS**—Broadcast Survey No. 6  
Date: 1300 hrs. GMT 24th to 2300 hrs. GMT 25th June inclusive.  
Band: 3000 to 6000 kcs. Target Country: Venezuela.  
Results: To reach HQ by the 7th July.

AMATEUR

**Amateur SLP No. 6**  
Date: 0700 hrs. to 0900 hrs. GMT 11th June.  
Band: 14 Mcs.—CW and Phone.  
Object: General DX Session.  
Date: 2000 hrs. to 2200 hrs. GMT 17th June.  
Band: 14 Mcs.—CW and Phone.  
Object: General DX Session.

JULY

**BROADCAST BANDS**—Broadcast Survey No. 7  
Date: 1800 hrs. GMT 16th to 2300 hrs. 23rd July inclusive.  
Band: 15.000 to 15.500 kcs. Target Station:—15165 kcs., ZYN7 Fortaleza, Brazil.  
Results: To reach HQ by 7th August.

AMATEUR.

**SLP's No. 7.**  
Date: 2200 hrs. to 2359 hrs. 8th July.  
Band: 14 Mcs., CW and Phone.  
Date: 2100 hrs. to 2300 hrs. GMT 16th July.  
Band: 14 Mcs. Phone only.

ERRATUM

In the Inter Group Broadcast Band results published in the March issue, J. Burden's receiver was erroneously stated to be an HRO, this was due to a misreading of the Portsmouth Group's account of the Contest. The RX in question should have read SH-7. For the same reason G1535 was referred to as James. Apologies to the Portsmouth ISWL Group.

AFFILIATIONS

New affiliations are announced this month, they are:—OTC Goodwill Club, Canadian DX Club and Glenalmond Wireless Club. ISWL Leaflet HQ/C/0013 is available to all Club Secretaries. This sets out the affiliation conditions in a clear and concise manner.

**SCOTTISH REPORT—MAY 1950**  
 Report of the ISWL Scottish Group by  
**J. THOMPSON ISWL/GM249**

**Activity.**

Once more I would remind GM's of the SLP's, let's have a first-class show OM's. Your support for the coming Summer field day activities is required by your rep, so contact them without delay.

**Representatives.**

The following new rep has been appointed, members living in the district should contact him as soon as is possible.

**Angus CR**—Mr. W. Nicoll, ISWL/GM2704, c/o Thomson, 8 Patons Lane, Dundee, Angus.

**Vacancy**—Any member willing to undertake the duties of TR for Edinburgh should contact me at the QTH given above.

**SCOTTISH SLP's for JUNE.**

No. 3. *Note:* Date: From 1400 hrs. 27th May to 2200 hrs. 28th May inclusive.

Other data as published last month.

No. 4. Date: From 0700 hrs. to 0900 hrs. GMT, 4th June.

Band: 14 Mcs.

Object: General DX.

No. 5. Date: From 1800 hrs. to 2359 hrs. GMT, 15th June.

Band: 9,000 to 12,000 kcs.

Object: Log all stations in Africa and Central America.

No. 6. Date: From 1300 hrs. GMT, 24th June to 2300 hrs. GMT, 25th June inclusive.

Band: 3,000 to 6,000 kcs.

Object: Target Country—Venezuela.

*NOTE.* All results to reach me by the 4th July latest.

**BORDER GROUP ISWL.**

This Group is now in course of formation and all who are interested should either contact me or the Midlothian rep for details. All Lone Wolves in the border region should take note.

That is all for this month GM's, let me have some really fb logs.

73's,

J. THOMPSON GM249,  
 Scottish DR.

**REPORT OF THE ISWL EXPERIMENTAL SECTION**

(Manager: J. Thompson GM249, 17 High Street, Innerleithen, Peeblesshire.

The following data is available to League members, please state number when applying.

(1) All dry 2 valve superhet. (1A7G-1D8GT).

(2) All dry 3 valve superhet. (1A7GT-1D8GT-1C5).

(3) (a, b) TV sound RX using battery valves. Type 1299a.

(4) 144 Mcs. 1 valve RX. (7193).

The last two are the current circuits under review, all interested members please send along

SAE for details. All data held by members on circuits 1 and 2 should send in same by 17th June.

For those interested, circuit No. 3 consists of the all dry valve 1299a TV type pentode. Two circuits are available (a) 1-V-0 using only the two valves and (b) Mixer—Osc, IF, 2nd Det with four valves of the same type. No LF stages are described as these are left to the individual experimenter.

Work on a complete vision RX using the 1299a valve is well under way.

**REPORT OF THE ISWL QSL BUREAU**

Cards are held in the Bureau for the following members, will all concerned please forward to HQ SAE's of suitable size and marked in the top left hand corner with the appropriate ISWL number.

G 36	638	1079	1670	2400	3051
59	647	1156	1729	2404	3072
93	658	1185	1731	2433	3073
170	670	1254	1756	2475	3084
173	706	1259	1762	2505	3094
217	710	1386	1779	2510	3141
227	760	1435	1804	2515	3156
240	766	1450	1824	2523	3162
292	786	1459	1854	2568	3180
326	815	1462	1860	2572	3209
329	847	1464	1904	2657	3235
395	858	1469	1905	2761	3313
419	866	1504	1984	2812	3332
483	889	1516	2025	2815	3374
486	893	1547	2049	2827	3377
501	950	1552	2057	2907	3418
504	1009	1553	2217	2930	3423
552	1019	1584	2237	2985	3495
555	1036	1585	2290	2990	3568
591	1061	1640	2345	3013	
GW937				GM1069	
				and 1296	

**Resignations.**

The following League officials have resigned for various reasons.

E. London CR. A. C. V. Seymour  
 ISWL/G2526.

Birmingham CR. G. S. Moore. ISWL/G606.

Bolton TR. T. E. Tonge. ISWL/G124.

**Appointments.**

The following have been appointed League officials as shown.

British Guiana DR—C. V. Edwards  
 ISWL/VP3-3473.

Co. Durham CR—F. Bell  
 ISWL/G3278/G40D.

Newark, Notts. TR—J. R. Clayton  
 ISWL/G3370.

Wigan, Lancs. TR—W. Iball ISWL/G941.

Keighley, Yorks. TR—R. Milner  
 ISWL/G3538.

West Hartlepool TR—G. Cooper  
 ISWL/G3407.

North Liverpool TR—A. Willey  
 ISWL/G1780.

**Services.**

The following services are now no longer in operation, the respective managers having resigned.

Translation Service—Spanish. W. A. Impett ISWL/G477.

Instruction Manual and Circuit Service—G. K. Sutherland ISWL/GW384.

Oscilloscope Query Service—A. Burckhill. New Services are set out below.

Translation Service—French and German. S. E. Tilley ISWL/G3356, 115 Springfield Road, Walmley, Sutton Coldfield, Warwicks.

Thanks are due to the retiring officials listed above and HQ wish them all the best and every success in the future. A welcome is extended to all the new officials and we hope that together, we shall make the ISWL even more successful in the future.

**IBIS**

This service is being expanded to cover the monitoring of specific short wave broadcast stations. This is to aid engineers with period reports and data relative to the reception of signals in the British Isles. An increased staff of well-known DXers has made this service possible. Any other DXer who is interested in joining the staff of IBIS should contact Roy Patrick ISWL/G699 c/o ISWL HQ.

**FRENCH REPRESENTATION and the I.A.R.U.**

M. Malandain ISWL/F9-3815/F9MH, 11 Avenue de Maine, Paris 15eme, France, has been appointed the ISWL rep. for all France and his QTH is now the ISWL French Headquarters. F9MH is also the official ISWL representative at the International Amateur Radio Union Congress and a report of the proceedings written by him will appear in these pages in due course. All French members should contact F9MH as soon as possible.

**YUGOSLAV REPRESENTATION**

Cener Zeljko ISWL/YU3-3866, Ljubljana, Kersnikova 7, Yugoslavia, has been appointed the League rep. for Yugoslavia. Welcome OM.

**GROUP NOTES**

(Please submit to HQ by the 10th of each month).

West Hartlepool ISWL Group. (Sec.: P. Forrest G3GLL/G3388, 68 Collingwood Road, West Hartlepool, Co. Durham.)

Meetings are held regularly at the CR's QTH at 71 Wilson Street, every Wednesday night at 7.30 p.m. Prospective members are also welcome any evening of the week at this address. March was a very good month for Group activities, the Chairman Mr. Fred Bell G4OD being appointed ISWL CR for the County with George Cooper as the TR for West Hartlepool. Slow morse classes given by the CR every Wednesday evening for 30 minute periods are proving very popular and a series of lectures taken from the City and Guilds syllabus of the RAE's has been running now for some three months with great

success. The Group's monthly magazine "CQ DX" is issued free to members.

**QRP RESEARCH GROUP :**

Membership of this Group is now approaching 100 strong and extends from Aberdeen to Berlin. The Group offers a unique opportunity to all Low Power Rx and Tx operators who, for any reason, are unable to attend local group meetings, or whose local club is not interested in QRP affairs, to join in the activities of a band of real enthusiasts. Through the pages of "QRP," a live and friendly, duplicated monthly journal (now extended to twenty pages a month), a "personal" contact is achieved between members wherever they may live. It also makes available a permanent record of every practical achievement and theoretical advancement in QRP which has taken place during the month.

Although the Group's interest is somewhat biased towards construction and experimental testing, Dx and other contests are held regularly and the May issue of "QRP" carries the preliminary announcement of a "Portable Gear" contest scheduled for August. Entries for the constructional contest for the Carter Shield are coming in well and considerable interest has been expressed in the recent description of G3CED's complete QRP station. Other similar descriptions are being planned.

If you are interested in Low Power S.W. radio you owe it to yourself to find out more about the Group and about "QRP," a sample copy of which will be sent upon receipt of 6d. by the Editor, J. Whitehead, 6 Abbot's Tilt, Hershham, Walton-on-Thames, Surrey.

**The Bournemouth Radio and Television Society.** (Bournemouth ISWL Group.) (Sec.: F. G. Hamshere G2790, 99 Elmes Road, Winton, Bournemouth.)

The Group received another grand lecture and demonstration at their HQ, The Cricketers Arms Hotel, Windham Road, Bournemouth, given by Mr. P. W. Crouch. The subject was Amateur Radio Station Control, a most interesting subject which was adequately covered by the lecturer who is an active amateur as well as one of the GPO engineers of the Bristol Region. A very interesting lecture is to be given on the 15th May by Mr. C. Green entitled "The Early Days in Radio." All ISWL members in the district are cordially invited and should make every effort to support this very active and progressive Group.

**North Bay, Ontario ISWL Group.** (Sec.: R. O. Lyttle ISWL/VE2578, 140 Lake Street, North Bay, Ontario, Canada.)

This Group were the winners of the First ISWL Broadcast Contest and all members are enthusiastically lending support to the Sec. who is also the DR for Ontario. Meetings are held regularly at the above QTH and all are welcome. It has been decided not to enter the Amateur Contest as most of the members are Broadcast enthusiasts.

**Stourbridge and District Amateur Radio Society.** (Sec.: W. A. Higgins, 28 Kingsley Road, Kingswinford, Nr. Brierly Hill.)

The AGM of the Society was held on Friday, March 10th. The following officers and Committee were elected: President J. Timbrell G6OI, Chairman H. Littlely G2NV, Vice-Chairman N. Harper G4MI, Hon. Treasurer C. E. D. McLean G2CLS, Hon. Sec. W. A. Higgins G8GF, Committee: B. Whitehouse G6WF, F. Bills G3CLG, F. Meredith, N. C. Heathcock and D. Weaver. Membership of the Society is now sixty. Mr. D. A. G. Edwards G3DO, Regional Rep No. 3 Region RSGB was the visiting speaker who came at short notice to take the place of Mr. J. Claricoats G6CL, General Secretary RSGB who had been unable to attend owing to illness. Mr. Edwards spoke at length on RSGB matters and very ably dealt with many questions from members. Mr. H. Porter G2YM recently gave a talk on the past and future of Amateur Radio which included some very interesting and amusing experiences as a Radio Operator in World War I. Meetings are held on the first Tuesday and third Friday of each month, all are welcome.

**East London ISWL Group.** (Sec.: W. Wills G1640, 24 Watermead House, Homerton, E.9.)

The Group's constructional class is proceeding with a course on elementary electricity and radio work. John Lepper, the constructional manager, is also working on the Group Receiver with parts supplied from members junk boxes and club funds. This will be used on Field Days and is available for loan to members when completed. Four new members attended the last meeting when a talk on the Fisk Solariscope together with demonstrations was given. Future lectures with demonstrations include "An Antennae Tuning Unit"—W. Eaton, "Preselection and a Preselector," "An ECO," "CW Operation" and "The Broadcast Bands"—W. Eaton. Meetings are held fortnightly and all are welcome.

**Surbiton and Stoneleigh ISWL Group.** (Sec.: R. H. Oliver G2752, 139 Hamilton Avenue, Tolworth, Surbiton, Surrey.)

Meetings are held on the first Monday in each month at the above QTH. A team is in the process of formation for ISWL Contests and it is hoped that more members will attend these meetings in order to get more activity going in the area. Will all ISWL members residing within the district please contact the Sec. with this object in view.

**Birmingham ISWL Group.** (Sec.: G. Pennington, 114 Birmingham Road, Rowley Regis, Near Birmingham.)

Meeting recently in the Digbeth Institute, this Group installed the club receiver. Future activities will include the construction of an output stage for this RX. Meetings are held on

the first Friday of each month and all Birmingham members are invited to support the Group at these meetings.

**Bristol and District SWL Club. (Bristol ISWL Group.)** (Sec.: N. G. Foord G706, 71 Brynland Avenue, Bristol 7.)

Another of the Group's supporters has recently obtained his ticket. This is R. Elsworth G2364, his full call being G3GMN, congrats OM! The Group continues to function well with various activities proceeding apace. Any member living in or visiting Bristol is invited to join in the fun.

**East Brighton ISWL Group.** (Sec.: W. Jardine G2428, 52 Kipling Avenue, Woodingdean, Brighton.)

Meetings have been held regularly every Tuesday evening and a T1154 has been purchased for use as the Group TX. Application for a licence has already been made. A visit to ISWL HQ has been arranged when various League matters will come under discussion. Ian Neame, G2AUB, has commenced a series of lectures entitled "An Outline of Amateur Radio" which is being received well by members. The Group has become a member of the QRP Group and hopes that it will shine in this sphere.

**Newark and District Amateur Radio Society.** (Sec.: J. R. Clayton G3370, Kinema Flats, 14c, Barnbygate, Newark, Notts.)

The inaugural meeting was held on Sunday, March 19th when the following officers were elected:—Chairman Mr. C. Crisp G3ELJ, Vice-Chairman Mr. G. Riby, Sec. J. R. Clayton G3370, Treasurer Mr. W. Davidson G3EVG. Meetings are held fortnightly on Sundays at 10 a.m. at the above QTH until suitable accommodation can be found. A comprehensive programme to cover all interests is being arranged and a cordial welcome will be given to all new members.

**South West Essex Radio Society. (Romford ISWL Group.)** (Sec.: L. G. Barrett, G1941, 367 Rush Green Road, Romford, Essex.)

Members have constructed the TRF described by the Clifton ARS in the December issue of the Mag while the Group TX recently had a run on 80 metres when several contacts were made on the CW portion of the band. Future activities include the 2 metre RX recently described within these pages. Several members are interested in constructing this and it is hoped that work on it will commence shortly.

#### PROPOSED NEW ISWL GROUPS

The following new ISWL Groups are proposed and members residing near the addresses given below should contact the organiser with a view to the formation of a club.

**GRAVESEND, KENT.** A. Ward ISWL/G1943, 16 Bartlett Road, Gravesend.

**BECCLES, SUFFOLK.** B. Basey-Fisher, Home Farm, Ditchingham, Bungay.

## I.S.W.L. S.W. Broadcast Station List

Frequency	Wave Length	Call Sign	Location	Frequency	Wave Length	Call Sign	Location
6275	47.62	ZPA1	Asuncion, Paraguay.	6140	48.86	H11R	San Cristobal, Dominican Rep.
6265	47.88	YS2	San Salvador, El Salvador.				Belgrade, Yugoslavia.
6255	47.96	TCRA	Guatemala City, Guatemala.			HOQQ	Malta, GC.
6250	48.00	CE625	Santiago, Chile.			CR7AA	Panama City, Panama.
		YSUA	San Salvador, El Salvador.	6137	48.88		Lourenco Marques, Mozambique.
6247	48.02		Macao, Port. China. (E)				
6235	48.12	HS8PD	Budapest, Hungary.	6135	48.90	ZJM4	Limasol, Cyprus.
		HRD2	Bankok, Siam.				Bogata, Colombia.
6230	48.16	TGJA	La Ceiba, Honduras Rep.				Singapore, Malaya.
6225	48.19	HJFB	Guatemala City, Guatemala.	6130	48.94	HC2FB	Guayaquil, Ecuador.
6220	48.23	CE622	Manizales, Colombia.			XEUZ	Mexico City, Mexico.
			Santiago, Chile.			RW96	Moscow, USSR.
6125	48.25		Alma, Ata, USSR.			CHNX	Halifax, Canada.
6210	48.31	HC1AC	Warsaw III, Poland.			VLX2	Perth, Australia.
			Quito, Ecuador.	6128	48.96	COCD	Havana, Cuba.
6205	48.35	YVOF	Bucharest, Roumania.	6125	48.98	OAX4A	Cusco, Peru.
6200	48.39	OAX4V	Bolivar, Venezuela.			CXA4	Montevideo, Uruguay.
		HOB	Lima, Peru.			GWA	London, UK.
		HJCT	Panama City, Panama.			HRQ	San Pedro Sula, Honduras Rep.
			Bogata, Colombia.	6124	48.99	H11G	Trujillo, Dominican Rep.
			Paris, France.	6123	49.00	FG8A	Basse Terre, Gaudeloupe.
6197	48.41	OAX1B	Piura, Peru.	6122	49.00	HP5H	Panama City, Panama.
6196	48.42	H11A	Santiago, Dominican Rep.				Omdurman, Sudan.
6195	48.43	GRN	London, UK.	6120	49.02	CP15	La Paz, Bolivia.
6190	48.47	HVJ	Vatican City, Vatican.			O1X7	Helsinki II, Finland.
		VUD7	Delhi, India.			LRX1	Buenos Aires, Argentine.
		TGX1	Guatemala City, Guatemala.			KCBA	Los Angeles, USA.
		HI9T	Puerto, Plata, Dominican Rep	6115	49.06	OLR2C	Salisbury, S. Rhodesia.
		CP37	Ororo, Boliva..				Prague, Czechoslovakia.
6185	48.51	KNBA	Frankfurt, Germany.	6110	49.10	GSL	???? Germany. (U)
6180	48.54	HC1FM	Hanoi, Fr. Indochina.			CP2	London, UK.
		LRM	Dixon, USA.			VUD3	La Paz, Bolivia.
		GRO	Ibarra, Ecuador.				Delhi, India.
6179	48.55		Mendoza, Argentina.	6105	49.14	H11Z	Tangier, Tangiers.
6177	48.56		London, UK.				???? Spain. (U)
6175	48.58	YSMA	Dalat, Indo China			ZYN6	Trujillo City, Dominican Rep.
		XEXA	Ashkabad, USSR	6103	49.16	HJFK	Fortaleza, Brazil.
		YSHQ	Athens, Greece	6101	49.18	TGOA	Pereira, Colombia.
6170	48.62	OAX4V	San Salvador, El Salvador	6100	49.18	XRRA	Guatemala City, Guatemala
		OAX5E	Mexico City, Mexico.			WLKS	Peiping, China.
		OAX6G	San Miguel, El Salvador			DYH3	Kure, Japan.
		GSZ	Cerro de Pasco, Peru.	6095	49.22	ZYB7	Cebu City, Philippines.
		OLR2D	Chincha, Peru.			OAX4H	Hantan, China.
		ZJM5	Arequipa, Peru.				Belgrade, Yugoslavia.
		CXA21	London, UK.	6092	49.25		Sao Paulo, Brazil.
		DUH2	Prague, Czechoslovakia.	6091	49.26	OAX4G	Lima, Peru.
			Limasol, Cyprus.	6090	49.26	GWM	London, UK.
6165	48.66	4VCM	Montevideo, Uruguay.			CBFW	Montreal, Canada.
		GWK	Manilla, Philippines.			CKOB	Sackville, Canada.
		TILS	Munich I, Germany.			VL12	Sydney, Australia.
		HER3	Port au Prince, Haiti.				Cambodia, Indo China.
			London, UK.				Paris, France
6160	48.70	CR7CB	San Jose, Costa Rica.				Moscow, USSR.
			Berne, Switzerland.	6085	49.30	ZYK2	Luxembourg, Luxembourg.
			Damascus, Syria.				Recife, Brazil.
			Saigon, Fr. Indo China.	6080	49.34	H13X	Milan, Italy.
			Lourenco Marques, Mozambique.				Trujillo City, Dominican Rep.
		CGR				WLWO	Cincinnati, USA.
		CHAC	Vancouver, Canada.	6078	49.33	CKEX	Vancouver, Canada.
		HJKJ	Sackville, Canada.			ZL7	Wellington, New Zealand.
6155	48.74	CS2WD	Bogata, Colombia.				Munich III, Germany.
		EQB	Munich, Germany.	6077	49.36		Vladivostok, USSR.
		XEEP	Moscow, USSR.	6075	49.38	APK2	Trujillo City, Dominican Rep.
		KGEX	London, UK.			CXA3	Moscow, USSR.
		PRL9	Vienna I, Austria.	6071	49.42	HC1BF	Karachi, Pakistan.
6153	48.75	TIRH	San Jose, Costa Rica.	6070	49.42	CFRX	Montevideo, Uruguay.
6150	48.78	CKRO	Winnipeg, Canada.			GRR	Colombo, Ceylon.
		CE615	Valparaiso, Chile.			CP18	Guayaquil, Ecuador.
		CP12	Sucre, Bolivia.				Toronto, Canada.
		GRW	London, UK.				London, UK.
		OAX1A	Chiclayo, Peru.				Oruro, Bolivia.
		YSPB	San Salvador, El Salvador.	6069	49.42	HJDJ	Petropavlovsk, USSR.
		YVMK	Cabismas, Venezuela.	6067	49.45	E9A9H	Quibdo, Colombia.
		VLR2	Melbourne, Australia.				Tetuan, Morocco.
6147	48.80	H11G	Trujillo City, Dominican Rep.				
6145	48.82	HJDE	Medellin, Colombia.				
6140	48.86	BEF6	Chungking, China.				
		RW97	Moscow, USSR.				
		DYH2	Cebu City, Philippines.				
		OAX8C	Iquitos, Peru.				

(UC) Under construction. (U) Unidentified.  
(E) Experimental channel. (I) Inactive.

# SMALL ADVERTISEMENTS

Readers' small advertisements will be accepted at 2d. per word, minimum charge 2/-. Trade advertisements will be accepted at 6d. per word, minimum charge 6/-. If a Box Number is required, an additional charge of 1/- will be made. Terms: Cash with order. All copy must be in hand by the 10th of the month for insertion in the following month's issue

## PRIVATE

**WANTED**—Eddystone Preselector plug-in coils. State price and condition. N. Anderson, 5 David Street, Buckhaven.

**SKY CHAMPION**—540 kc.-44 Mc. 6AC7 RF, sound condition £15. B.C. 453, Q5-cr., converted, all diagrams 45/-. Macnaughton, 11 Outram Road, Croydon, Surrey.

**SHORT WAVE NEWS.** First three volumes unbound minus Dec. 1947 and Nov. 1948. American Radio News Feb. 1949 to Jan. 1950. Offers to W. T. Lack, Littleworth, Wilstead, Bedford.

**FOR SALE R1116** A.C. Eliminator, accumulator, phones. Perfect order. £6 10. carriage paid. Boulton, 113 Alcuin Avenue, York.

**FOR SALE.** Inexpensive T/V set, sound and vision with lens and mask. In working order. For Sutton Coldfield. Walker, 93 Victoria Road, Runcorn, Cheshire.

**BATTERY RECEIVER KITS** for Sale. 1 valve 5/-. 2 valve 7/6. Write: J. C. Clark, 25 Chailey Avenue, Rottingdean, Brighton.

**YOUNG, KEEN SWL**, 20 years old, wishes to rent 2 or 3 unfurnished rooms in the London area or Suburbs, preferably in North London, where he can pursue his hobby. Furnished rooms also considered. Good refs. available. Please reply: BM/GSWL, London, W.C.1.

**HAMBANDER.** £14 or near offer. Hire Purchase if required. Eddystone two valver £2. 9 Novers Park Drive, Bristol, 4.

"INEXPENSIVE TELEVISION" is the title of a booklet describing how to make a Televisor for the London or Birmingham frequencies using ex Govt. Radar Material. Send only 1/9d to cover cost and postage for a copy, and also price list of material required.

**RECEIVERS R.1355.** As specified for above Televisor. Complete with all valves and a copy of the booklet. ONLY 55/- (carriage 7/6).

**INDICATOR UNITS TYPE 6.** The Indicator unit specified for above, this being complete with the Cathode Ray Tube VCR 97 and all valves. BRAND NEW IN MAKERS CRATES. ONLY 90/- (carriage 7/6).

**TRANSFORMERS** for the above TV have been specially made as follows: Time Bases and Vision Transformer, 350-0-350V 160 mA, 5V 3a, 6.3V 6a, 6.3V 3a, ONLY 36/- Sound Receiver Transformer 250-0-250V 100 mA, 5V 3a, 6.3V 6a, ONLY 30/-. EHT Transformer for VCR 97 Tube 2500V 5mA, 4V 1.1a, 2-0-2V 2a, ONLY 27/6 (postage etc. 1/6 per transformer).

**MAGNIFYING LENS** for 6 inch C.R. Tube. Brings up the picture size to approximately that given by a 9 inch tube. A new contract enables us to price them at ONLY 25/- (postage etc. 1/6).

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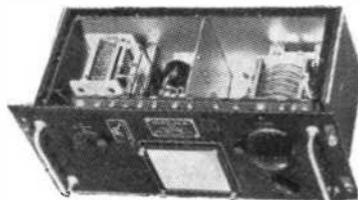
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