

of the

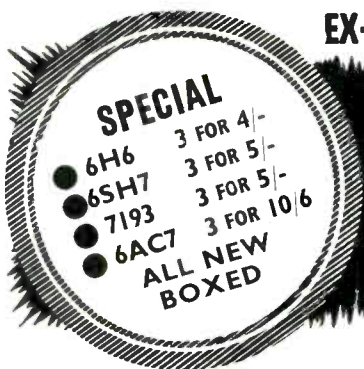
1/3

SHORT WAVE LISTENER



DEVOTED EXCLUSIVELY TO
SHORT WAVE RECEPTION

JULY 1949
VOLUME 3 · NUMBER 8

EX-GOVERNMENT STOCK DISPOSAL!

The finest
RADIO VALUES
ever offered!

SATISFACTION GUARANTEED OR MONEY REFUNDED!

HYDROMETERS. Brand new in carton. Lead acid type, reads from 1,100 to 1,300 S.G. Complete with float. 1/9 each.

BRAND NEW OUTPUT TRANSFORMER for Push Pull 6L6 Class A, 10 watts. Speaker matching 3 and 15 ohms. A "best seller." 12/6 each.

MICROPHONE HANDSET with G.P.O. type carbon insert. Press to talk switch in handle. The whole contained in black bakelite moulded case. Brand new. Amazing value, only 2/6 ea.

RUBBER SQUARES, size 5" x 5", 1/8" thick. Sorbo type. Very useful for mounting, door silencing, etc., etc. Six for 2/-.

FAST AND SLOW MOTION TUNING DIAL, 4" dia. Dial marked 0-100 engraved black on white with transparent pointer and vernier reduction 100 to 1 ratio. Complete with spindle. Brand new in cartons with wooden former. Worth 25/-, only 4/- each!!

UNREPEATABLE OFFER. Brand new electrolytic cans. T.C.C. 8x8 - 8 mfd, 400v working with high ripple section for rectifier. Four for 10/6. Buy four for the value of one. Size 4 1/2" by 1 1/2".

ELECTROLYTIC CANS. Brand new.
 16 x 8 mfd, 450v working 2/6 ea
 16 " 450v " *2/- ea.
 32 " 350v " 1/6 ea.
 500 " 15v " *2/6 ea.
 1000 " 15v " *2/6 ea.
 *U.S.A. manufacture

L.F. CHOKES. 4H 150 mA 100 ohms. D.C. Parmeko. New, 3/6. Swinging type, 3-6/4-2H 250mA 75 ohms D.C. New. Slightly soiled, 5/6. Worth treble.

| METERS | | |
|--------------|-------------|--------|
| Scale | Size | M/Coil |
| 5 m/a ... | ... *2 1/4" | 5/- |
| 15 ... | ... †3 1/4" | 10/- |
| 100 ... | ... †2 1/2" | 6/- |
| 200 ... | ... †3" | 6/- |
| ·5A R.F. ... | ... *2 1/4" | 3/6 |
| 1A R.F. ... | ... *2 1/4" | 3/6 |
| 4A R.F. ... | ... *2 1/4" | 3/6 |
| | *Square | †Round |

GREAT OFFER OF BRAND NEW U.S.A. SPARES PACKED IN EXCELLENT WOODEN SNAP LOCK CASES

A new purchase of these spares enables us to offer you a rare bargain. The wooden case in which the goods are packed will make an excellent tool cabinet or large speaker baffle cabinet, and is beautifully finished in green, with American snap-on locking device with wooden section separators internally. Inside, the contents are packed in parcels and containers, and among other articles you will receive the following: Filament transformers, electrolytic condensers, Pyranol condensers mica and paper condensers of all values. A large assortment of resistors from 100 watts to 1/2 watt, indicator lamps and bulbs, thermometers, chokes, switches including two and three-bank with silver contacts, toggle and heavy duty on-off switches, keying relays, coils, motor spares, insulators, springs, silver contacts, potentiometers, valve holders, modulation, input and output transformers, etc., etc. These spare were for high-class transmitting and receiver work and are quite worth £20 per lot. We offer this astounding parcel of all Brand New Components for 70/- per case.

NO CARRIAGE OR PACKING CHARGES

Except in Eire and for Export.
 Terms—Cash with Order. Send Money Order or Postal Order to:—

WESTON PRODUCTS (Liverpool) LTD.
 71 Great George Street - Liverpool • Telephone ROYAL 5754/5

THE **SHORT WAVE** LISTENER

A MONTHLY MAGAZINE FOR THE LISTENING AMATEUR

VOLUME 3

JULY 1949

NUMBER 32

Conducted by the Staff of
The Short Wave Magazine.

Published on the third Thursday
in each month by The Short
Wave Magazine, Ltd., 49 Vic-
toria Street, London, S.W.1.
(ABBEY 2384.)

Single copy, 1s. 3d. Annual
Subscription (12 issues) 16s.
post free.

All editorial and advertising
matter should be addressed to
The Short Wave Listener, 49
Victoria Street, London, S.W.1.

Payment at good rates is offered
for articles of short wave listener
interest.

EDITORIAL

Jamming

Arising from our comment in this space last month, the BBC has made some suggestions in regard to the fourth and last paragraph of the June Editorial, as follows :

"Given some indication of the position of the main jamming centres, it should be possible, by making use of the higher frequency broadcasting bands and directional aerials, to obtain useful signal-to-interference ratios in the target area. One obvious difficulty, however, is that observations in this country may not provide a true picture of conditions in the reception areas. Therefore, the main planning of measures to overcome this jamming must be along theoretical lines, qualified by such observations as are applicable."

We are glad to give this statement by the BBC the same prominence as our own remarks on the problem with which they are faced.

On quite another matter, however, we must join issue with the Corporation. A recent BBC activity list discloses that a new frequency, right in our 7 mc band, has been appropriated for GRS on 7075 kc. Additionally, frequencies have been taken at 7120 kc (GRM) and 7150 kc (GRT), though the latter two are in the 7100-7150 kc area of the band officially allocated as "shared with broadcasting." However, as the new bands have not yet been brought into use in the European Region, the BBC action is anticipatory, and some notification of their intentions might reasonably have been expected.

But there is no possible excuse for the appearance of GRS on 7075 kc, a frequency in the exclusive amateur area. The unfortunate fact is that such action by a great undertaking like the BBC is open encouragement to the lesser breed to do the same sort of thing.

CONTENTS

JULY 1949

| | |
|---|-----|
| Editorial | 225 |
| QSL'ing Amateur Stations | 226 |
| Reducing Ignition Noise | 229 |
| Have You Heard? | 232 |
| Calls Heard | 240 |
| SWL Stations—No. 22 | 243 |
| "Pse QSL" | 244 |
| The VHF End | 245 |
| DX Broadcast | 248 |
| Broadcast Station List, Revision 48.66-50.26 metres | 255 |

QSL'ing Amateur Stations

Advice and Suggestions

by THE OLD TIMER

(The business of hearing the stuff is easy compared with getting the cards back, as so many SWL's well know. There is no certain way of maintaining a high percentage of returns—the best that any listener can do is to QSL with care and discrimination, in the hope of getting a reasonable return. These days, the average return is probably about 30 per cent., so that the 70-80 per cent. achieved by some SWL's is exceptionally good. This article discusses the problem from the point of view of an active DX operator who receives a steady stream of SWL reports.—Ed.)

VERY few short-wave listeners will deny that the collection of QSL cards from far-off places is a very important side of their interest. True, there are some who listen for the sake of listening, and simply don't bother to get caught up in the postal aspect of the business. But the majority do: and, of these, some show a very good return of cards from DX and others do not.

As (I hope) a typical amateur transmitter with a fondness for DX, let me state my own views about incoming

reception reports. Personally, I slip a card in reply to all of them; but many of them go straight into the W.P.B. after being answered, with a marked feeling of dissatisfaction and the query of "Why did the fellow send this?" remaining unanswered.

Anything Unusual?

Here is my point of view. If, during my usual morning session, I work a VK, a ZL and a W6 on 14 mc, I am not particularly interested to know that my signals were "579 FB" in Leningrad or Moscow or Kiev. Surely any G station putting out any sort of a signal would be "579 FB" in those places at that time. On the other hand the listener in the UL7 or UM8 district, or even a UAØ 'way up in Zone 19, would awaken a little more interest.

In other words, the "rubber-stamp" report is of no value unless it comes from someone in an unusual part of the world. Are you in an unusual part of the world? If you are in the Isle of Man or the Channel Islands you are, in a way, lucky. You need not be too discriminating in your reports. But if you are just a G, a GI, a GM or a GW, you'll have to work for those QSL's.

Return to my own case. If just one of the huge bunch of Russian reception reports which recently cascaded into my W.P.B. had been on, say, 3.5 or 1.7 mc transmissions, it would have been of



A representative selection of SWL reporting cards, with spaces for filling in the details of transmissions heard. These are from New Zealand, the United States and Holland; each is attractively designed, in several colours, and is of a markedly higher standard in this respect than the cards in general use by British short wave listeners.



Cards received by G2CDI (Stokenchurch, Bucks) for his record WAC on 28 mc. December 18, 1242-1302 GMT

distinct interest or value. (Point No. 1—the unusual wave-band.)

Similarly, had one of them, concerning 14 mc, imparted such information as "You called CQ and VK2NO replied, but you did not work him," then that would have pleased me. I might have called CQ five times that morning, and, getting no reply, stumped off to work in disgust thinking that the gear was not working. I might even have torn down my newly erected aerial that night, convinced that it was no good. And all the time, perhaps, my CQ's were being answered by VK's whom I could not hear, but whom the Russian listeners could. That would have been practical reporting—even if somewhat late in arriving. (Point No. 2—the unusual happening.)

Yet again, had one of those stereotyped reports stated "Sigs RST 459 but the only G coming through" I should have been interested. (Point No. 3—unusual conditions—or something!)

Period Reports

I have on only one occasion received a "period report." This came from an Australian SWL who had logged my 28 mc phone on fourteen consecutive days for periods varying between fifteen minutes and an hour. On some of these days I had been happily working VK stations, but on others I had called several without

receiving any reply. He was able to tell me why: on the unlucky days the W's had been very strong at the same time and European signals were weaker than usual. So only the VK's who really dug for them were working Europeans on those occasions.

This really handsome report came by air mail. I duly sent back one of my best QSL cards, with a note of thanks and a photo or two—also direct by air mail. This as an instance of the value placed on the very useful report. The quite unexpected sequel—not strictly Amateur Radio any longer—was the arrival of a food parcel from the SWL! Thus are short-wave friendships made.

When to QSL

So here are my suggestions to you, if you want to show a good percentage of QSL's in return for your reports. First, draft out a neat and tidy-looking card; also, be neat and tidy over the way you fill it in.

Include on the card the following data: Station Heard; Time and Date; Frequency; Conditions at the time; Station with whom in contact (and whether heard or not); Any unusual remarks (such as stations answering a CQ but unheard by the sender of it); Rough average signal-strength of other stations in the same part of the world at the same time (quote definite examples if you can); Type of

receiver and receiving aerial; Signal-strength, in RST if CW, or R and S if on phone, *plus* report on phone quality and fullness of modulation.

These are just about the minimum requirements, but don't add more unless you feel you have to, because a report that has grown too complicated is almost as bad as one that doesn't say enough. (If that Bulgarian filled in all his spaces, it would be far too much—and of no practical value!)

Whom to QSL

Now don't sprinkle these reports indiscriminately around the place. If you want the "easy" countries and, for instance, all States of the USA, you'll have to work for them. Listen (during the winter, at any rate) on 7 and 3.5 mc. If you manage to bag an American unusually early in the evening on either band, report to him and tell him he was the first one to break through. That will probably please him and induce him to reply. If you hear one of the rarer States—for instance, one which you haven't heard before—you can truthfully say on your report that he was the only station in that particular State coming through at the time.

If you hear one call CQ and a flock of G's answer him, but he doesn't hear them—note down all their calls and bang off a report saying "Your CQ at 2130 on June 1

was answered by G3..., G4..., G5... and G6..." (But *don't* add—"Why the heck don't you buy a receiver?" or you won't be popular.) Say "Thought you would like to know that you were getting out all right."

Getting your QSL back from rare DX stations is rather more difficult and, in some cases, impossible. If AC4YN makes one of his memorable appearances on the air, a queue (and not a very well-behaved one) immediately forms. In this queue may be a VS7, a VS1, a ZS, several F's, DL's, G's and goodness knows how many W's. The same thing happens for ZD9AA, ZD8B, FM8AD, KP6AA and practically all the rare birds. Now, from the queue, they *know* that they are being heard all over the world, even if they only work one or two stations and pack up. Your report won't tell them *anything* unless you manage to do something clever.

You'll never be clever enough to hear AC4YN call CQ and not get a reply, so put that out of your mind! But you might hear him working nothing but strings of W6's and might be able to pass him the information that lots of G's and possibly a GC and a GD were calling him as well. If you can, that's one up to you, and may you get a card back.

But remember that these rare DX stations spend practically all their time off the air writing up a tremendous log and



A post-war "Worked All Continents" (WAC) selection from the wall at G6QB. The Japanese-looking specimen in the centre is a photostat card produced by W3GZT when operating from the Island of Okinawa, in the Pacific. Cards of this kind (representing in this particular instance the continent of Asia) will probably never be obtainable again, and thus have a high rarity value.

sending QSL's to all the stations worked. They simply have not the time (or, in some cases, the money) to reply to all SWL reports. And remember, even if you send a reply coupon, that the cards themselves cost quite a lot these days. And when, as I have heard with ZD9AA, an hour on the air means twenty QSO's, all the stations contacted screaming for cards because he is their first ZD9, think of the time the chap spends just writing out cards. Would you, in those circumstances, be pleased if an incoming mail brought you an SWL report from practically all the readers of the *Short Wave Listener*? (No, neither would I!)

So don't send reports to the much-sought-after rarity unless you have something interesting to impart. Catch 'em when signals are unusually weak and you may be able to say that so-and-so replied and they didn't hear them; catch them when QRM is very bad and tell them what

somebody said to them, but they missed it. Otherwise lay off the rare DX, which everybody chases, and send reports to the weakest of the W's (he may be using 5 watts!) or to the ZS who keeps calling and calling and never seems to work anyone; or to the Australian phone station who seems to have mike trouble and only makes his callsign intelligible once in ten times.

And don't forget 7, 3.5 and 1.7 mc—especially the latter—if you want your reports to be useful and appreciated. True, you won't have rarities to tack on your wall in return, but you will be doing a useful job and you will make friends. If your ambition is to acquire a licence yourself one day, the value of the latter cannot be over-estimated.

Then, when you proudly put out your call for the first time, perhaps you will receive your first SWL report; and perhaps you will answer it!

Reducing Ignition Noise

Wiring-in a Series Noise Limiter

by H. F. BURTOFT (G8LO)

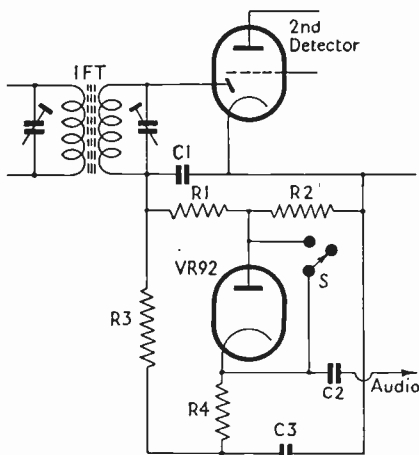
(While we would warn the inexperienced against tampering with a commercially built receiver, many readers will be able to take advantage of the suggestion put forward in this article.—Ed.)

DESPITE petrol rationing, unthinking motorists still steer their QRM machines nonchalantly past our doors, little realising the havoc they cause to our DX. What to do? A Molotov cocktail, or a hand grenade? Quell those murderous thoughts which arise with each passing car, and start work on your receiving installation!

Is your aerial as far from the road as it possibly can be? It probably is, but perhaps you can move it farther still. Can you increase its height? Maybe you can put up a dipole for your favourite band? If well matched to your receiver, feeder pick-up will be small. Are you using a receiver with a wide band-width? If you are, try to narrow it somewhat. Ignition noise is wide-band stuff, so the less the bandwidth of your receiver, the less noise will you hear. Remember, you need only

5 kc band-width for communication quality telephony, and just a few hundred cycles for CW.

This is all fine, you say, but I can't move my aerial, and I don't feel inclined to dive



Circuit of the series noise-limiter suggested by the author. Though it can be applied to any receiver not already so fitted, a commercially built set would call for expert attention to apply the modification.

into the innards of my Super-Blooper Thirteen, which cost me two years of no smoking and a scene with the XYL. If that is the case, you've had it, and car noise will continue to haunt you, anti-interference Bill or not.

Let us try another tack. Can you locate the diode load resistor in your receiver? The one hanging around the detector diode somewhere, value about half a megohm. If you can, you can fit a series diode noise limiter, which will reduce that car ignition by quite a lot of dB. So most of your troubles are over; just find that detector diode load, snip it out, replace it with a couple of $\frac{1}{2}$ -megohm resistors in series, wire in a VR92, with a couple of 1-megohm resistances and a $\cdot 01 \mu F$

condenser, and transfer the audio coupling condenser to the cathode of the VR92. This simple circuit is one of the best noise limiters ever to relieve the lot of the long-suffering SW operator.

VR92 diodes are conveniently available on the surplus market. This valve has a 6.3-volt heater, but the VR78 (exactly the same in appearance) has a 4-volt heater and may be used on normal 6.3-volt supply by inserting a 10-ohm resistor in one heater lead. A 6H6, or EB34 (VR54) work equally as well but owing to their larger size are not as easily wired into the circuit as the miniature diodes, which are quite happy supported only by their connecting leads. The circuit diagram ties up the electrical details.

LEARNING MORSE

Those who saw that photograph on p. 205 of the June issue of the *Short Wave Listener* may be interested to know that, in the London area, the Grafton Radio Society is in a position to provide instruction in Morse on three evenings a week. When a trainee reaches 12's, he is coached on the air by a qualified operator using the Club's own transmitter, G3AFT. Readers who are within reach of Holloway should get into touch with the Hon. Secretary (W. H. C. Jennings, G2AHB), Grafton Radio Society, Grafton School, Eburne Rd., N7.

OLD TIMERS' DINNER

An event unique in post-war Amateur Radio took place in London on the evening of May 20 last, when more than 70 amateurs, all licensed not less than 20 years ago and still active to-day, gathered for the Old Timers' Dinner. The chairman was G2NM, supported by G6UT, G6CL and G6FO, with VE6HM as an overseas visitor. The evening was an unqualified success, and was well supported by the British Old Timers' Club, which is run under the auspices of our parent *Short Wave Magazine*.

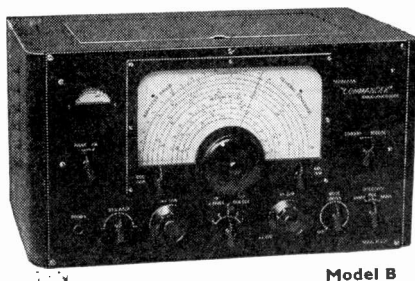
Acclaimed

by Amateurs Everywhere
as THE FINEST EVER!

The "COMMANDER" Double Superhet Communications Receiver

Price
£48:10:0

Hire Purchase
Terms Available



Model B

Prompt
Delivery
Home
and
Export

Fitted with every worthwhile device or giving you a performance second to none. It is without doubt the finest investment the amateur can make. Complete coverage 1.7 to 31 mcs. with electrical "Ham" bandspread.

Send 2½d stamp for literature or 5/- for handbook to the makers:—

RADIOVISION (LEICESTER) LTD., 58/60 RUTLAND ST., LEICESTER
EXCLUSIVE AGENCIES AVAILABLE TO "HAM" SUPPLIERS

Phone : 20167

PREMIER RADIO

MORRIS AND CO. (RADIO) LTD.,

All Post Orders To: JUBILEE WORKS, 167 LOWER CLAPTON RD.
LONDON, E.5. (Amherst 4723, 2763, 3111)

NOW OPEN. LARGE NEW PREMISES AT
152 & 153 FLEET STREET (Central 2833)

NOW OPEN. NEW BRANCH AT
207 EDGWARE ROAD, W.2 (Ambassador 4033)

OPEN UNTIL 6 p.m. SATURDAYS

Introducing "PREMIER"

The Television Kit
YOU can build for
£17·17·0

This Receiver consists of 4 units:—
The Sound Receiver, Vision Receiver,
Time Base and Power Pack. As is usual
in all Premier Kits, every single item down
to the last bolt and nut is supplied. All
chassis are punched and layout diagrams
and theoretical circuits are included.
The cost of the Kits of Parts is as follows:—
The Vision Receiver with valves £2/13/6
The Sound Receiver with valves £2/14/6
The Time Base with valves £2/7/6
The Power Supply Unit with valves £6/3/-
In addition you will need:—
A VCR87 Cathode Ray Tube .. £1/15/-
A Set of Tube Fittings and Socket .. 7/-
And a 5" PM Moving Coil Speaker .. 16/6
The Instruction Book costs 2/6, but is
credited if a Kit for the complete Teletvisor
is purchased.

Any of these Kits may be purchased
separately; in fact any single part can
be supplied. A complete priced list of all
parts will be found in the Instruction
Book.

**A GLANCE AT THE PRICES WILL SHOW
THAT THIS IS THE GREATEST VALUE
OFFER PREMIER HAS EVER MADE.**

20 Valves are used, the coils are all wound
and every part is tested. All you need to
build a complete Television Receiver is a
screwdriver, a pair of pliers, a soldering
iron and the ability to read a theoretical
diagram.

Working models can be seen during trans-
mitting hours at our Fleet Street and
Edgware Road Branches.

VALVES AT BARGAIN PRICES
Set of four 4-valve valves:—26/- Set.
LOCTAL BASED.

1LC6 (Pentagrid Converter).
1LN5 (RF. Pentode).
1LD5 (Diode Pentode).
3D6 (Output Pentode).
1LN5 Valves. 1-4v Loctal based RF
Pentode. 6/6 each.
3A4 Valves. Button based 1-4v/2-8v.
Power Pentode. Load resistance 8,000
ohms. 8/6 each.
All other types previously advertised are
still available.

LOUDSPEAKERS—by Rola, Truvox,
W. & B., etc. 3", 9", 5", 10"; 6",
16/8; 8", 17/6; 10", 23/6. Transformers
for any of the above, 2/11 each. Special
offer of Truvox 10" Speakers, 18/11 each.

METERS.—Additions to our usual range:
0-20v 3 1/2" o.d., moving iron a/c meters,
8/6 each. 0-3.5kV 3 1/2" o.d., electrostatic
meters, 2 1/2" each. 0-30v and 0-500v
moving coil meters with external resistance
4 1/2" o.d., 17/6 each.

METER KIT.—A FERRANTI 500-
MICROAMP M/C METER, with separate
high stability, high accuracy, resistors to
measure 15, 50, 150 and 500v D.C.
scale length 1 1/2", diameter 2 1/4". 10/-
the complete kit.

Short Wave micro variable condensers.
All values from 10PF to 100PF, 2/6 each.

0005mf 2-gang Variable condensers.
Without trimmers, 4/6 each; with
trimmers, 4/9 each.

Cydon transmitting condensers. 200PF.
Ceramic insulations, .17" spacing, 4/6.
Marconi split stator transmitting con-
densers. 200PF. Each section .112"
spacing, ceramic insulation. 2/6 each.

ALUMINIUM PANELS, 16 SWG.

| | | | |
|-------------|------|-------------|------|
| 7" x 6" | 1/- | 7" x 4" | 9d. |
| 9 1/2" x 6" | 1/2 | 9 1/2" x 4" | 11d. |
| 10" x 9" | 1/10 | 10" x 7" | 1 6 |
| 12" x 9" | 2/3 | 12" x 7" | 1 9 |
| 14" x 9" | 2/8 | 14" x 7" | 2/2 |
| 16" x 9" | 3/- | 16" x 7" | 2/4 |
| 20" x 9" | 3/9 | 20" x 7" | 3/- |
| 22" x 9" | 4/2 | 22" x 7" | 3/4 |

2,000-ohm 12-watt metal-cased potenti-
ometers. 2/6.

Wavechange switches, Yaxley type.
3 Banks each. 2 Pole 5 Way. 1 Bank has
shorting ring on one pole. Overall length
7", spindle is 1 1/2". 3/6 each.

ENAMELLED COPPER WIRE

| SWG. | 8oz. | 4oz. |
|------|------|------|
| 16 | 2/6 | 1/8 |
| 18 | 2/6 | 1/8 |
| 20 | 2/6 | 1/8 |
| 22 | 2/9 | 1/8 |
| 24 | 2/9 | 1/8 |
| 26 | 3/- | 1/9 |
| 28 | 3/- | 1/9 |
| 30 | 3/- | 1/9 |
| 32 | 3/3 | 1/11 |
| 34 | 3/3 | 1/11 |
| 36 | 3/9 | 2/2 |
| 38 | 4/3 | 2/5 |
| 40 | 5/- | 2/9 |

COIL FORMERS. Moulded bakelite coil
formers, 2 1/2" long, 1 1/2" in diameter with 8
ribs. Closed at one end. An ideal S.W.
coil former, 1/3 each. Aladdin coil formers
with iron core. The ideal television
former, 10d. each.

MOVING COIL MICROPHONE INSERTS.
1 1/2" diameter. Make excellent Mike,
Barphone, or Personal Loudspeaker.
2/- each.

BALANCED ARMATURE UNITS

Make very sensitive Headphones, Tele-
phones or Mikes. No battery needed,
1/3 each.

SECTIONAL WHIP AERIAL

Seven sections which plug into each other
making an aerial 14 ft. long. Thinnest
section 1/2" diam., thickest section 1/2" diam.
Weatherproof enamel. 3/6 each. Complete.
Insulated rubber base for same, 2/6 each.

R107. ONE OF THE ARMY'S FINEST COMMUNICATIONS RECEIVERS

(See "W.W.", August, 1945.) 9 valves,
R.F. amp. osc. Frequency changer,
2 L.F.'s (465 kc.), 2nd detector, AVC.
Af. amp. B.F.O. A.C. mains. 100-250v
or 12v a.c. Frequency range 17.5 to
7mc/s, 7.25 to 2.9 mc/s; 3-0 to 1.2 mc/s.
Monitor L.S. built in. Complete. Write
for full details. £18/16/-. Carriage paid.

H.T. ELIMINATOR AND TRICKLE CHARGER KIT

Consists of a complete kit of parts to con-
struct an H.T. eliminator with an output
of 120v at 20 mA., and provision for
trickle charging a 2v accumulator. Two
metal rectifiers are employed. With
circuit, 35/-.

MINE DETECTOR PANELS, include
three 17 1/2 valves, 12-1 midget trans.,
three ceramic valveholders, 18 condensers
and resistors, etc. 20/-. Without valves,
5/-.

GOVERNMENT SURPLUS MAINS TRANSFORMERS. All are for use on 230v 50 cycle mains.

| Type | Price |
|---|-------|
| 42 500-0-500v 170 mA., 4v 4a. | 25/- |
| 44 10v 5a., 10v 5a., 10v 5a. | 35/- |
| 51 350-0-350v 60mA., 6-3v 1a., 6-3v 3-5a. | 12/8 |
| 53 250-0-250v 60mA., 5v 2a., 6-3v 2-3a. | 15/- |
| 54 275-0-275v 60mA., 5v 2a., 6-3v 2-3a. | 15/- |
| 55 250-0-250v 100mA., 5v 2a., 6-3v 3-5a. | 17/8 |
| 56 330-0-330v 70mA., 5v 2a., 6-3v 2-3a. | 17/8 |
| 57 300-0-300v 70mA., 4v 2a., 4v 3-4a. | 17/8 |
| 58 300v Half wave 60mA., 6-3v 1a., 10v 1a. | 10/- |

Electrolytic Condenser at special prices.
16-16 mf. Ally Can. 350v. 2/3 each.
3 for 5/9. 25mf 25v, cardboard tube,
1/- each, 3 for 2/6.

ALTHOUGH the month may not have been terribly exciting in the DX sense, I have to thank just as many readers as ever for sending in their letters, Calls Heard, Contest claims and so on. The volume of mail has, in fact, been as high as ever, and this goes to show that the true enthusiast is not deterred by declining conditions or increasing difficulty in winking out what he is looking for.

Let us dismiss the SLP's first, before we get to serious business. Only one of them was concerned with DX, the other being a Top-Band affair which was quite well supported. The 14 mc period struck mediocre conditions, but the following countries were heard on 'phone: CN, EA8, EK, EL, FA, FT, HI, KP4, LU, OX, PY, VK, VQ4, W, ZC6, ZD6, ZL and 4X. Not really a bad assortment, although no individual listener heard them *all*. On CW a few



about it. But can I? Well, it's very difficult, because I usually finish the pile by being conscious only of SHG1's and SL5BB's and VK1AD's and all the funny little queries that

news will be presented more tidily and that the monthly summary will be based on what you all have to say.

Just read those last paragraphs again before you write your next letter!

GENERAL IMPRESSION

This month has been interesting at times, but, on the whole, well below the average. The 28-mc band, which many people seem to have thought dead, has produced just about as much DX as 14 mc. 14 mc, on the other hand, has given us the real plums, with AC4RF, heard on May 28 or 29 by R. W. Thomas (London, E.5), J. C. Beal (Wembley), M. E. Bazley (Birmingham) and your fortunate Scribe; and YJ1AA, heard by F. K. Earp (London, S.W.11). Add, if you like, W2EJV/PK3 (K. Parvin, Thornton Heath) and ZD7B (T. W. Jones, Birmingham). So let us deal with Twenty first.

AMATEUR BAND COMMENTARY *by the DX Scribe*

better ones were added, notably CR6, CT3, DU, FF8, JA2, UAØ, UJ8, VP4, VQ2 and ZD4.

So, even if DX isn't what you have become accustomed to in the last few months, it's still alive and kicking. And remember that many days have been much better than that on which the SLP was held.

THE MAIL

And now a gentle appeal to those faithful readers who write every month, and those newcomers who bid fair to take their place with the "regulars." I do appreciate all your letters—but how some of them ramble! What I like to do is to read through them *all*, and then sit down to write this commentary with a general picture of the month in my mind—my own experience backed up by what readers say

become interspersed with the news.

And then there are those lovely letters that begin "I really haven't any news this month" and then end "I see I have already covered nine pages so I'd better finish before I get really wound up." One reads them with interest but just can't remember a thing at the end of it all!

So, for my sake (as well as to make it easier for yourselves) would you like to set out your letters something like this in future, please? First, *News of the Month*. Real news, such as hearing AC4YN or your first VK on 1.7 mc. Next, a heading for *Each Band* you are dealing with. Thirdly, *Queries*, if any. And lastly, *Miscellaneous Gen.* which doesn't come under any of the other headings.

If you will do this for me, I promise on my side that the

THE 14 MC DX

The welcome appearance of AC4RF, round about 1600-1800 GMT during the week-end of May 28-29, was most interesting. He worked a whole queue of Europeans, and told them that he was not in Lhasa, but using portable equipment 12 days' march north from there. His B2 was powered by a 6-volt battery only. At one time on the Saturday his signals were 579, but averaged about 359, and, of course, the QRM at most times was terrific. He did not use 'phone at all.

As nice a CW list as you could wish to see comes from A. Baldwin (London, E.11) and includes KJ6AB, KS6GS, KW6EA, KX6BE, PK5HL, VQ6F and VK9KR. He finds the best time 1400-1630 GMT. T. W. Jones (Birmingham) contributes FO8AC, ZD7B, KP6AE, KS4AI and 4AJ,



W9DKM is Fire Chief at Lisle, Illinois, and runs a kilowatt on all bands, CW and 'phone. This is an impression of the operating position.

C8FP, FF8GC, KV4AA and PK6XG. He also adds OY3G, QR5AN, EA9F and HZ1Y as "queriable."

O. A. Good (Oswestry) devoted more time to 14 mc CW and found one period on one day when the skip was just right for the more distant Russian districts. So he picked out UAØKFD (Zone 19), UJ8KAA, UL7BS and UM8KAA. The latter is still T5-6 and creeps 50 kc or more. Others from O. A. G. were CR7AD and 7BZ, KS4AF (0805), VQ8AY (1825) and ZD9AA (1925-45). On 'phone he collected HI, KG6, IG9, VE7's and 8's, VP5AX, YS1MS and XZ2EM. He queries whether KH6VP is still in the Solomons; but, alas! he isn't. He was only there for about four days and is now just another KH6. O. A. G. would also like to know more about a station he heard signing KL7Z/K?. Rather

imperfect, but might have been exciting!

SAN SALVADOR PARTY

D. Kendall (Potters Bar) heard YS1ES, 1GQ, 1RR and 1ZG, all in the space of 20 minutes at 0520 one morning—on 'phone. D. W. Bruce (Eltham) says that VQ2DH may shortly (or even by now) be operating portable and signing VQ2DH/ZD6. Worth watching for. Best from D. L. McLean (Yeovil) were EA8CO, FF8CN, VP3HAG and HI6EC. And from J. P. Warren (Croydon) come KH6VM, CE3FG, KR6AG, MP4BAD, HI6EC and DU1AK (all 'phone). The last, he says, is surely the most consistent DX signal on the band.

M. E. Bazley (Birmingham) heard, in addition to AC4RF, EA8AO and 8MC, FK8AB, UM8KAA and VU7DP—all CW. K. Parvin (Thornton Heath) logged W2EJV/PK3

as well as ZD4, VP2KM and YS1MS. He heard W's working YJ1AA but couldn't find the chap himself. A. R. Wybrow (London, S.E.22) comes up with YS1ES, XZ2EN, MP4BAC, CR6AI, HZ1AB, CE1AM and KG6FH—all 'phone. He wants the QTH of EA8AO—is he really in the Canary Islands or not?

F. K. Earp (London, S.W.11) was the lucky one who heard YJ1AA. He also logged VK9GW and FI2ZA—but who or what the latter is, I couldn't say.

D. K. Cocking (Farnborough) who now styles himself a "second-year listener," offers a little advice to those of the first-year variety. Best times for DX, he says, are 0630-0800 GMT (VK and ZL), 1745-1945 (VQ4 and ZS) and after 2100 (South America). (But the best times for the really rare ones continue to be—when you hear them!)

FOUR-BAND DX

| Listener | 28 mc | 14 mc | 7 mc | 3-5 mc | Total |
|--|-------|-------|------|--------|---------|
| M. E. Bazley (Birmingham) | 127 | 215 | 47 | 19 | 221 |
| D. W. Bruce (Eltham) | 151 | 197 | 69 | 34 | 207 |
| J. L. Hall (Croydon) | 7 | 202 | 122 | 54 | 205 |
| R. S. Stott (Upminster) | 129 | 194 | 74 | 26 | 200 |
| W. J. C. Pinnell (Sidcup) | 116 | 174 | 75 | 29 | 182 |
| R. A. Hawley (Goostrey) | 122 | 144 | 29 | 19 | 181 |
| T. W. Jones (Birmingham) | 54 | 175 | 63 | 22 | 177 |
| G. Braithwaite (Belfast) | 129 | 142 | 25 | 20 | 169 |
| D. L. McLean (Yeovil) | 141 | 139 | 19 | 18 | 158 (P) |
| N. A. S. Fitch (London, E.10) | 110 | 135 | 40 | 23 | 158 |
| A. Bannister (Manchester) | 124 | 137 | 18 | 22 | 157 (P) |
| H. M. Knott (Margate) | 76 | 148 | 21 | 18 | 157 |
| N. S. Beckett (Lowestoft) | 41 | 151 | 53 | 27 | 156 |
| A. W. Robertson (Cranford) | 76 | 144 | 22 | 20 | 151 |
| O. A. Good (Oswestry) | 106 | 144 | 7 | 4 | 150 (P) |
| F. K. Earp (London, S.W.11) | 100 | 135 | 29 | 23 | 150 (P) |
| J. Butler (Portsmouth) | 89 | 124 | 36 | 18 | 150 |
| D. Kendall (Potters Bar) | 124 | 128 | 24 | 29 | 148 (P) |
| K. Parvin (Thornton Heath) | 108 | 131 | 22 | 28 | 143 (P) |
| J. M. Graham (Glasgow) | 129 | 128 | 22 | 24 | 140 (P) |
| R. A. Fowler (Cranwell) | 65 | 127 | 25 | 21 | 138 |
| E. A. Parkinson (Leeds) | 105 | 116 | 10 | 14 | 137 (P) |
| P. Butler (Portsmouth) | 84 | 127 | 38 | 19 | 136 |
| D. G. Martin (Cheltenham) | 82 | 110 | 14 | 16 | 135 (P) |
| D. Powell (Wilton) | 60 | 122 | 58 | 27 | 135 |
| K. Smeeton (Barnton) | 91 | 123 | 22 | 22 | 134 (P) |
| A. Studley (Harrow) | 49 | 131 | 50 | 37 | 133 |
| A. R. Wybrow (London, S.E.22) | 89 | 115 | 21 | 18 | 131 (P) |
| L. Shearlaw (Camberley) | 71 | 109 | 14 | 16 | 131 (P) |
| T. W. W. Dearlove (Frimley Green) | 101 | 90 | 12 | 10 | 131 |
| L. Tombs (Swindon) | 107 | 100 | 16 | 21 | 130 (P) |
| M. G. Whitaker (Halifax) | 80 | 111 | 22 | 27 | 129 (P) |
| D. Shallcross (Derby) | 74 | 98 | 18 | 20 | 120 |
| H. M. Graham (Harefield) | 52 | 111 | 18 | 19 | 118 (P) |
| P. G. Lucy (East Barnet) | 88 | 91 | 17 | 22 | 117 (P) |
| A. E. Carter (Romford) | 78 | 87 | 16 | 22 | 115 (P) |
| A. M. Norden (London, N.W.11) | 2 | 112 | 18 | 13 | 113 (P) |
| C. S. Poole (Ipswich) | 63 | 92 | 19 | 24 | 112 (P) |
| E. C. Palmer (Bath) | 59 | 79 | 26 | 18 | 107 |
| C. A. Naylor (Appley Bridge) | 89 | 62 | 15 | 12 | 106 (P) |
| R. L. Bastin (Coventry) | 53 | 93 | 18 | 18 | 106 (P) |
| J. P. Warren (Croydon) | 9 | 102 | 9 | 8 | 104 (P) |
| K. M. Parry (Sandwich) | 59 | 83 | 12 | 6 | 104 (P) |
| J. C. Beal (Wembley) | 25 | 96 | 18 | 13 | 103 |
| A. L. Higgins (Aberkenfig) | 45 | 93 | 13 | 15 | 101 |
| M. Watson (Malta) | 54 | 76 | 39 | 30 | 101 |
| A. O. Frearson (Birmingham) | 67 | 61 | 13 | 8 | 100 |
| P. Bysh (London, N.8) | 57 | 73 | 16 | 13 | 92 (P) |
| Miss P. A. Litson (Saffron Walden) | 50 | 67 | 7 | 16 | 89 (P) |
| G. Musk (Blackpool) | 16 | 87 | 7 | 11 | 89 (P) |
| Miss D. Hall Taylor (Southport) | 33 | 78 | 7 | 11 | 87 |
| C. J. Goddard (Coventry) | 3 | 87 | 23 | 13 | 87 |
| B. Hummerstone (Harrow) | 43 | 73 | 8 | 12 | 87 (P) |
| A. Butler (Onchan, I.O.M.) | 67 | 13 | 13 | 6 | 78 (P) |
| K. G. Harland (Westcliff) | 32 | 57 | 11 | 14 | 77 (P) |
| O. R. F. Mason (Prittlewell) | 3 | 71 | 12 | 11 | 72 (P) |
| J. H. I. Austin (Coventry) | 23 | 51 | 38 | 7 | 54 |

(P) Signifies *Phone Only

J. Neal (Birmingham) had a receiver breakdown, but with the borrowed set managed to find ZM6AF working VK3HF so he doesn't grumble.

28 MC—"THE DEAD BAND"

If this band is dead, as so many suggest, it's taking an awful long time to lie down. The fact of the matter is that so many people think the departure of the Yanx means the end of the DX season. Far from it.

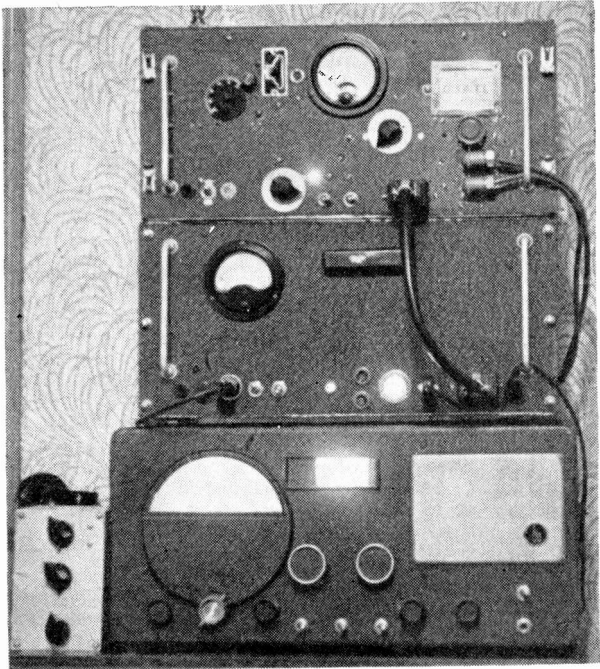
One of the luckiest this month was G. Braithwaite (Belfast), who logged T19BR (Cocos Island) and ZS9D—both 'phone. A. Bannister (Manchester) pulled off a very unusual one with KL7DD—KL7's are a real rarity on Ten.

The log from K. Parvin (Thornton Heath) shows ZC1AZ, VS1DZ, W6WVJ/KW6, FF8FP, ZP5BL and VS7EP. D. L. McLean (Yeovil), who knows the band pretty well by now, weighs in with FF8CP, HI8WF, ZP5BL and 9FA, some XZ's and HP's, ZD2S and CP5EP. He would like the QTH of C3EN, and sends that of EQ1RX, asked for last month, in return.

R. S. Stott (Upminster), who has just reached the total of 200 countries in exactly 18 months' listening, put some time in on 28 mc and acquired VS1's, XZ's, HI, EL's, YS1AC, ZD1RA, FF8FP and PJ5KO (all 'phone), plus PK4KS on CW, giving him 70 countries on the band in one month.

D. W. Bruce (Eltham) adds VP1SJC, VQ8AE, HP1EJ and ZAIAR; K. M. Parry (Sandwich) found VS7EP, XZ2SY and 2TH, PK4DA and 4KS. H. M. Graham (Harefield) listened on May 15 from 1300 to 1400 and heard four KP4's and nothing else; on other occasions he collected AR8AB, OQ5SCH, VQ4CJG and 4CRE, W5AXI/MM and 5OTF/MM.

O. A. Good (Oswestry) had a picnic on May 1 and emerged with seven ZL's, KR6, JA2,



When G3ATL is operating /A at Coalville, Leicester, this is the equipment. A full description of the main station appeared in the "Other Man's Station" series in the June issue of our *Short Wave Magazine*.

VQ5, two KG6's and W6WVJ/KW6. He now totals 34Z and 109C on 28 mc. D. Kendall (Potters Bar) remarks on HH3L, FQ8SN, PK4DA and 4KS, W6WVJ/KW6, and the VS1's and XZ's—all 'phone.

Finally, W. J. C. Curtis (Belfast) remarks that the "experts" told him the band was dead, so he listened and got VQ3, VP6, OQ, EL, ZD4, YV, KP4, PZ1, CO, CE and W7—not bad going for a dead band.

FORTY METRES

Not much news of 7 mc this month, but D. Kendall found CO's, CM's, ISIFFL and CN8MZ, all on 'phone, and R. S. Stott remarks on XE1AV on 'phone at 0415. D. Cocking asks when one gets out of Europe on 7 mc? The answer is "just wait until the autumn—then you'll see something."

3.5 MC STILL GOING

Good old Eighty continues to fascinate a number of correspondents. D. Kendall logged several W's plus KP4CO, VO2BL and VO1AB ('phone). C. S. S. Lyon (Liverpool) says the PY's are not up to last summer's strength, but they are quite good. And M. G. Whitaker (Halifax) mentions MD2AC, SV5UN, VP6CDI, CT3AB and others—quite a few new countries there for those who want to improve their Four-Band figures.

THE TOP BAND

K. L. B. Dalby (Gainsborough) says he is getting a bigger kick from the Top Band (Counties Heard) contest than from anything else he has tackled. He uses a Dutch Philips receiver built to Ger-

man specification, covering 1.5 to 24 mc.

J. H. Roskell (Harrogate) noticed EI7U making a surprise appearance on Top Band phone, and says everybody on at the time went madly after him at once. He was S6-7 at 0035. G. C. Allen (Thornton Heath), who still heads 1.7 mc Counties Heard, is gratified to find that 36 counties have come back with QSL's but he would like one from G.C. He remarks on the excellent QRP results of G2AJU (Ipswich), who has worked all G with one watt, and has recently covered 50 miles with a 9-volt GB battery and 12 miles on 4½ volts!

J. H. Woodward (Stoke-on-Trent) thinks the signals from the South get to the North better than those on the return path; he has heard southern stations calling GM's, but rarely any replies.

FUTURE SLP'S

Note that one of this month's SLP's is on a Thursday evening—by request of several readers who, for various reasons, don't like

week-ends. Note, also, that the advance notice of the SLP for Sunday, July 31 reveals the long-awaited SLP for portables only. I don't propose to lay down a lot of rules for this; sufficient to say that the gear must be away from home, not connected to mains of any kind, and not used with anything resembling a permanent aerial. If competitors will send, with their lists, particulars of location, receiver and aerial used, this should be an interesting little event. D. G. Martin (Cheltenham) shows his circuit for a portable Rx designed round a single 1D8GT, which sounds the sort of thing that ought to be used.

Several readers say that they find two-hour SLP's too long, and suggest that I should make one of them a one-hour job each month. I am trying this out, and we'll see what your reactions are. (But I'm making the portable one *three* hours, to make it worth while!)

THE GEN. DEPARTMENT

R. L. Bastin (Coventry) writes to say that all reports on KA1A1, up to April 1949,

should go to W7JKJ. His address, as given in the Call Book, is 3903 S.E. 14th St., Portland, Oregon. Since April someone else has been keeping the station on the air. Also VP3MCB is now in Canada but will be back in VP3 by the autumn, so save your reports until then.

K. Smeeton (Barnton) confirms the sad news that our friend HR1MB ("Hot Rolls and One Meat Ball") has now packed up, and he and his XYL have returned to the States.

A newcomer, G. Moses (Crewe) says he started on Christmas Day with an S.640, and since then has logged 32Z and 111C on phone. He has heard EZ5AD on 7 mc phone; but EZ, according to the pundits, does *not* count as a country. Neither does YM, described on a QSL as "ex-Danzig." S. Money (Southsea) hasn't yet met an IRC, and asks what it is. It's an International Reply Coupon, obtainable at a Post Office, which you can send with your QSL instead of a stamp. The latter would be valueless in foreign countries, anyway. Your addressee cashes the IRC at his post office to buy the stamp for the card he sends you.

DX QTH's

| | |
|-------|--|
| AR8BM | Box 1119, Lebanon. |
| EA8MC | Manuel Celanmor, 23 Sol-y-Ortega Street, La Laguna, Tenerife. |
| EK1DO | B.P.O. Box 39, Tangier. |
| EQ1RX | c/o 24 Wendover Road, Yonkers 5, N.Y., U.S.A. |
| FF8MM | Marcel Morel, Box 207, Dakar. |
| HP1JO | Box 1039, Panama City. |
| HP1RA | Box 1567, Panama City. |
| MS4A | Fabrizio Caramelli, Aiula, Italian Somaliland. |
| VS1CS | Lt.-Col. H. F. Trewby, R.E.M.E., 335 Thomson Road, Singapore, Malaya. |
| XE2GZ | P.O. Box 6, Culiacan, Mexico. |
| XZ2DA | Box 833, Rangoon. |
| ZD1CL | H.M. Naval Base, Kissy, Freetown, Sierra Leone. |
| ZD3D | R. G. Smith, c/o International Aeradio, Ltd., Fajara Rest Camp, Bathurst, Gambia. |
| ZE2KL | R.A.F. Thornhill, Gwelo, Southern Rhodesia. |
| ZL1MP | David Mitchell, Ohauiti Settlement, near Tauranga, Bay of Plenty, North Island, N.Z. |
| 4X4ES | Box 163, Haifa, Israel. |

QUERY CORNER

J. P. Moore (Solihull) wants the QTH's of CN8BB, AR8BM (see list) XZ2TH and HC1OY. H. M. Graham (Harefield) would like to know the status of DØRK (Berlin) and DFØEU. Very fishy, I should say, as amateur licences are not being issued yet in the Western Sectors of Berlin.

Lots and lots of people have taken the trouble to confirm that the station in Northern Sweden mentioned last month was SHG1, located at a University in Kiruna.

W. J. C. Pinnell (Sidcup) and K. Parvin (Thornton Heath) both ask whether the OQ5's in Ruanda Urundi count separately from those in

Belgian Congo. The answer, at present, is No. But it seems from the latest American lists that ZC6, ZC8 and 4X count as three separate countries, ZC6 now being defunct.

A. M. Norden (London, N.W.11) wants to know whether Labrador and Sicily count separately. Labrador does *not*, but Sicily *does*, which seems singularly cock-eyed, but there it is. He would also like the QTH of KZ5RM, and also to know whether VK1AD really does exist—whether anyone ever hears him—and

whether the guy QSL's. Well we can say definitely that the station has been heard and worked in this country and is perfectly genuine—I know one of the operators—but he remains a great rarity. K. Parvin heard a station signing MW2AF, and later, on the same frequency, MD2AF appeared. Draw your own conclusions.

MISCELLANEOUS SEAWEED

R. W. Finch (Ilford) makes the ingenious suggestion that a QRP Listening Champion-

ship would not be a bad thing—the QRP station's card to be produced as evidence. The King QRP-Catcher would be dethroned from time to time as someone came along with a better claim. 'All right, let's hear from you ; but send the cards along, and, please, an envelope for their return ! R. W. F. instances a card from VP5HN, stating that he was using 5 watts. He also remarks on the number of inconsiderate QRO amateurs and wonders whether flocks of SWL reports (telling them, for instance,

1.7 mc COUNTIES HEARD—1949

| Listener | Counties | Listener | Counties |
|----------------------------------|----------|------------------------------------|----------|
| 'PHONE and CW | | 'PHONE ONLY | |
| G. C. Allen (Thornton Heath) .. | 56 | J. H. I. Austin (Coventry) | 49 |
| A. Baldwin (London, E.11) | 55 | W. Eyre (Whaley Bridge) | 46 |
| R. A. Hawley (Goostrey) | 54 | K. L. B. Dalby (Gainsborough) .. | 43 |
| D. Webber (Newton Abbot) | 51 | J. H. Roskell (Harrogate) | 42 |
| L. H. Waine (Yeovil) | 50 | R. A. Hawley (Goostrey) | 41 |
| R. S. Stott (Upminster) | 44 | L. H. Waine (Yeovil) | 40 |
| L. E. P. Holgate (Jersey) | 41 | J. H. Woodward (Stoke on-Trent) .. | 40 |
| M. Davies (Carmarthen) | 40 | A. Hart (Ilkeston) | 37 |
| D. Powell (Wilton) | 36 | E. Nottingham (York) | 37 |
| N. S. Beckett (Lowestoft) | 29 | J. Bagshaw (Callington) | 35 |
| D. T. Bradford (Denham) | 29 | R. S. Stott (Upminster) | 34 |
| D. Shallcross (Derby) | 28 | D. Garrard (Ipswich) | 33 |
| J. Woodfield (Hayes) | 27 | W. McBey (Orkney) | 27 |
| A. C. Blair (Farnham) | 25 | P. N. Marriage' (Newbury) | 25 |
| M. E. Bazley (Birmingham) | 18 | M. G. Whitaker (Hallifax) | 24 |
| D. W. Bruce (Eltham) | 15 | H. M. Graham (Harefield) | 19 |
| W. Iball (Wigan) | 12 | K. G. Harland (Westcliff) | 19 |
| A. L. Higgins (Aberkenfig) | 7 | D. S. Grant (Sevenoaks) | 18 |
| | | K. Smeeton (Barnton) | 17 |
| | | M. Neale (Aylesbury) | 17 |
| | | G. Greenfield (Slough) | 16 |
| | | D. J. Freeman (Welwyn Garden City) | 12 |
| | | O. R. F. Mason (Prittlewell) | 10 |
| | | R. Line (Birmingham) | 9 |
| | | G. Musk (Blackpool) | 9 |
| | | R. J. T. Sands (Harrogate) | 8 |
| | | R. L. Bastin (Coventry) | 7 |

ZONES HEARD

(MAY)

| Listener | Zones | Countries |
|---------------------------------------|-------|-----------|
| 'PHONE and CW | | |
| D. W. Bruce (Eltham) | 39 | 131 |
| O. A. Good (Oswestry) | 38 | 122 |
| R. W. Thomas (London, E.5) | 38 | 96 |
| R. S. Stott (Upminster) | 37 | 137 |
| T. W. Jones (Birmingham) | 36 | 107 |
| J. C. Beal (Wembley) | 28 | 75 |
| R. A. Hawley (Goostrey) | 28 | 67 |
| J. Neal (Birmingham) | 25 | 55 |
| J. P. Moore (Solihull) | 23 | 39 |
| C. J. Goddard (Coventry) | 16 | 43 |
| A. L. Higgins (Aberkenfig) | 14 | 39 |
| 'PHONE ONLY | | |
| D. W. Bruce (Eltham) | 36 | 115 |
| D. Kendall (Potters Bar) | 35 | 111 |
| R. G. Poppi (Beckenham) | 34 | 97 |
| R. S. Stott (Upminster) | 33 | 107 |
| K. Parvin (Thornton Heath) | 32 | 94 |
| F. K. Earp (London, S.W.11) | 32 | 91 |
| O. A. Good (Oswestry) | 32 | 86 |
| R. A. Hawley (Goostrey) | 28 | 64 |
| K. M. Parry (Sandwich) | 26 | 71 |
| K. Smeeton (Barnton) | 26 | 69 |
| J. P. Warren (Croydon) | 26 | 60 |
| A. T. Cheesley (London, E.10) | 24 | 65 |
| T. E. Botham (Walsall) | 24 | 50 |
| J. C. Beal (Wembley) | 23 | 44 |
| B. Hummerstone (Harrow) | 23 | 40 |
| A. M. Norden (London, N.W.11) | 22 | 46 |
| H. M. Graham (Harefield) | 21 | 57 |
| J. Neal (Birmingham) | 21 | 34 |
| K. G. Harland (Westcliff) | 17 | 51 |
| M. G. Whitaker (Halifax) | 17 | 39 |
| D. Dadswell (Steypning) | 15 | 44 |
| C. J. Goddard (Coventry) | 15 | 40 |
| P. Bysh (London, N.8) | 15 | 40 |
| D. K. Cocking (Farnborough) | 13 | 29 |
| O. R. F. Mason (Prittlewell) | 7 | 12 |

that they were swamping out ZD9AA) would help matters at all—not a bad idea!

R. G. Poppi (Beckenham) pleads for one-hour SLP's and says several of his friends agree. All right!

D. Dadswell (Steypning) writes for the first time and says "Living in a little country village ten miles from a town, there's nothing else to do . . ." So he's started short wave listening, using a 1947 Cossor all-wave battery set. And on it he heard the mysterious call of MYP8B, calling W3KTF. Now whom do you suppose *that* one might be?

J. P. Warren (Croydon) makes the suggestion that now we have had P11RAT and UN2LIS, someone in search of a smart callsign might care to try PHØNEY!

J. L.Hill (Croydon) has pushed his 14 mc total over the 200 mark, not so much by listening as by going over his log with the latest Country List! He has thereby gleaned 26 new ones. His 3.5 mc log now shows 54 countries, including recent acquisitions such as CM, PY, MT2, MF2 and GD.

J. C. Beal (Wembley) has collected 18 new countries, including CO6ZE on 7 mc; he would like the QTH of EA8AL, if anyone can oblige.

ODD POINTS

Last month's suggestion that we should have a ladder for "Heard All States" has brought a few replies, most of which point out that the goal can easily be achieved in a week or less when 28 mc is open for W's; or that on 14 mc in the early mornings it shouldn't take long, either in the autumn or the spring.

And D. W. Bruce (Eltham) brings up a query that has often bothered me. Why, he asks, do some British SWL's have cards on which they describe themselves as "British Experimental Short Wave Receiving Station," or some such rigmarole, when they

merely sit themselves in front of a commercial communications receiver and *listen*? Why indeed? By the way, D. W. B. again has the honour of heading both the "Zones Heard" lists this month—fine work. The Four-Band Table I have arranged this time in order of *totals*, so he has to take second place to the redoubtable M. E. Bazley of Birmingham.

But anyone who can total 200 countries or more is worthy, in present-day entertainment jargon, of a "big hand"—so let us give it to them all—listeners Bazley, Bruce, Hall and Stott. I'd like to get them all together in my shack and listen to the conversation for an hour or two. (Yes, I've heard my 200 as well, but I'm not telling you the total.)

Earl Roberts (Indianapolis) confirms that the NY4's are

now re-licensed as KG4's. He is rather suspicious of VK4SI/VR4, who, he says, won't tell anyone how to QSL, but says "wait until you get my card." So far, they're waiting. . . .

But he says that HS1SS is genuine enough. He has been heard in the States at 1115 GMT, if that helps you at all.

MARITIME MOBILES

E. H. Williams (Poole) has developed a liking for the MM's, and sends a long list which includes W1LYF, 2MUD, 3KIF, 3NCV, 3NE, 3OZA, 5AXI, 5OFO, 5OTF, 6YYT, 7KVM, 8ZVL and ØIAX. These were heard in various parts of the world from Cape Town to New Orleans. R. A. Hawley (Goostrey) adds W3KKV and W5OCN, the latter having been heard "near Japan." R. A. H. also logged two airborne mobiles—DL2OU and DL4GJ, both on

14 mc 'phone while flying to or from Germany.

SET LISTENING PERIODS

June 23, 2000-2200 GMT
—14 mc CW and 'Phone.

June 26, 1600-1800 GMT
—28 mc 'Phone.

July 29, 2100-2200 GMT
—14 mc CW and 'Phone.

July 31, 1400-1700 GMT
—14 mc CW and 'Phone
(for Portable Receivers only)

And so ends another month's record. Please look back and read those earlier paragraphs about setting out your letters before writing to me for next month. The deadline will be July 5, first post, addressed to DX Scribe, *Short Wave Listener*, 49 Victoria Street, London, S.W.1. Please be punctual, and may you have another good month in store. Best of Luck and Best of Listening!

Have YOU had the **EDDYSTONE** 145 Mc/s Guide?

If not, get a copy from your Eddystone retailer. This interesting Booklet describes a compact and efficient converter using readily obtainable valves and a crystal-controlled transmitter capable of an excellent performance. Both units are tried and tested, and you can rely on getting really good results. Advice is also given on aeriols.

Perhaps you are a little doubtful about 2 metres? It is an easy band on which to get going, and the units described in the Eddystone 145 Mc/s Guide will not take you long to put together.

Or do you just want a receiver? The converter in the Guide is very fully described, and construction has been simplified without sacrificing performance. Difficult metal work is avoided if you obtain the ready drilled chassis, etc. The converter can be used with any receiver which tunes to 10 Mc/s.

EDDYSTONE 145 Mc/s GUIDE. - PRICE 1/6 - GET A COPY TO-DAY

EDDYSTONE

SHORT WAVE COMPONENTS

The illustrated **EDDYSTONE CATALOGUE** is available at every Eddystone Dealer. Many new lines are included and the range of components and accessories offered is very comprehensive. Prices are, in a number of cases, lower. You will find it most interesting to scan through the catalogue, which represents a really good sixpennyworth. By choosing Eddystone you get quality and reliability.

EDDYSTONE SHORT WAVE COMPONENT CATALOGUE, 6d.

Please obtain from your Eddystone Dealer—we do not supply direct



STRATTON & CO., LTD.

EDDYSTONE WORKS,

ALVECHURCH RD., WEST HEATH, BIRMINGHAM



CALLS HEARD

1-7 mc

May 29, 0900-1100 GMT

Please note the following simple rules for sending in lists of Calls Heard :

28 and 14 mc : No Europeans, No USA except W6 & W7

No VE except VES, 6, 7 & 8.

7 mc : No Europeans.

Arrange logs in the form given here, with (a) prefixes in alphabetical order, but not repeated; (b) numbers in numerical order and repeated as part of the call-sign; (c) call-signs in alphabetical order. For example—VK2GW 3CP, 4UL, VP1AA, 6CDY, YQ3HJP, 4EJT, W6ENV, 7VY. Please underline each prefix, keep each list to one band, and, in short, make your lists exactly like those below, except that the more space you leave, the better.

SET LISTENING PERIODS

14 mc

May 28, 1900-2100 GMT

W. E. Bachell, 24 Hill Road, Prittlewell.

PHONE: CN8MA, 8MZ, EA8CO, EK1AD, 1AR, 1DL, FA3RR, 3WH, 8IH, 9WC, FT4AP, LU6AJ, OX3GE, PY2ARK, 7AT, 7EY, 7FC, 7VB, VK3HG, VQ4IMS, ZC6UNJ, 4X4AB. (Rx: Ham-bander.)

T. E. Botham, 4 Victoria Terrace, Walsall.

PHONE: CN8MZ, FA3RR, 9WC, FT2A, PY7AT, VK2AGU, 3EE, VQ4NSH, ZC6UNJ.

W. J. C. Pinnell, 40 Melville Road, Sidcup, Kent.

PHONE: CN8MZ, EK1AD, 1AR, 1CH, FA8BE, PY7AT, 7FC, VK2XG, VQ4IMS, 4NSN, 4X4AB.

CW: CN8BL, CT3AV, FF8GC, FT4AB, 4AN, JA2BS, LU4DJS, MD2NA, PY1AHP, 2CK, UAØKFD, ZL4CL. (Rx: V55R with Converter.)

E. H. Williams, Tara, Rowland Avenue, Poole.

PHONE: CN8MZ, EK1AR, VK2XG. (Rx: AR88.)

G. Moses, 65 Ralston Avenue, Crewe.

PHONE: CN8AM, EK1DL, FA3DS, HI6EC, LU1JC, 5NA, OX3GD, PY4BU, 4CT, 4ZI, VQ4IMF.

R. S. Stott, 44 Corbetts Tey Road, Uppingham.

CW: CN8MI, CR6AW, DU1HR, FF8GC, LU3CM, MD2NA, PY1DS, 2AFW, UJ8AF, VO6J VP4TB, VQ2GW, ZD4AM, ZL3CC, 4X4RE.

PHONE: LU4DW, PY4CT 7EU, VK2XG, VQ4NSH.

B. Davies, 73 Eden Road, Beckenham, Kent.

PHONE: FA3RR, LU6AJ, PY2ARK, 7AT, 7EE, VK2XG, VQ4IMS, 4NSH, 4X4AB. (Rx: Ham-bander.)

F. W. Hardstone, 43 Shrubbery Road, Streatham, London, S.W.16.

PHONE: EK1AR, KP4JM, LU6AJ, PY2ARK, 4CT, 7AT, 7EE, VK2AGU, 2XG, 3EE, 3WU, VQ4IMS, ZD6EJ, ZL4AO. (Rx: R.F. 24 into S40a.)

D. Garrard, Ceaque, 17 Hill House Road, Ipswich, Suffolk.

PHONE: EA1FH, 3LC, 3OC, 3RW, 4LU, 7CA, EK1AR, 1DL, EL4A, LU6AJ, OX3AB, PY2KR, 4X4AB. (Rx: Radiovision "Commander".)

M. G. Whitaker, Rishworth School, Rishworth, nr. Halifax, Yorks.

PHONE: EA8CO, EK1DL, FA8BA, 9WC, OX3GE, VK2HG, 3HT, W2ICE, 2OPF. (Rx: Battery 0-V-1.)

G. P. Watts, 62 Belmore Road, Thorpe, Norwich, Norfolk.

PHONE: VQ4IMS, 4NSH. **CW:** MD2NA, PY1DH, UJ8AF, VP4TBE, VQ2GW, ZL2NA. (Rx: S640.)

D. V. Preston, 93 Ulverley Green Road, Olton, Birmingham 27.

PHONE: LU6AJ, PY7AT, VQ4NSH, VK2HG. (Rx: S640.)

N. S. Beckett, 48 Beaconsfield Road, Lowestoft.

PHONE: KP4DY, LU6AJ, OX3GE, PY2ARK, 4CT, 7AT, 7AW, VK2AGU, 2XG, 3AUU, 4VD, VQ4IMS. (Rx: 0-V-0.)

R. A. Hawley, Torview, Brookfield Crescent, Goostrey, Cheshire.

PHONE: G2AUI, 2DYF, 3AIL, 3BZF, 3CUB, 4OKK, 5AU, 8IZ, GW2FVZ.

CW: G2AUI, 3AIX, 5IV, 5UO, 5XF, GW2FVZ. (Rx: S504.)

D. J. Freeman, 75 Millgreen Road, Welwyn Garden City, Herts.

PHONE: G2CVO, 2DPO, 2TN, 2VLK, 3AHA, 3AZ, 3CJB, 3CRR, 3FJ, 4BY, 4FN, 4GB, 6RQ. (Rx: R1224A.)

D. Baxter, 51 Princes Crescent, Bare, Morecambe, Lancs.

G2BL, 2LC, 2MY, 2VP, 3MP, 5AU, 5SV, 6KK, 8IZ.

O. R. F. Mason, Fairlawn Gardens, Prittlewell, Essex.

PHONE: G2TN, 2XB, 2BYF, 3CBA, 2HKU, 3CO, 3GW, 3LY, 3BDB, 3CVI, 3ELB, 4FN, 5WW, 6AB, 6FV, 6NU, 6RQ, 8LZ.

CW: G6RQ. (Rx: 1155A, Modified.)

K. G. Harland, 14 Bridgewater Drive, Westcliff-on-Sea.

PHONE: G2BYF, 2HKU, 2TN, 2XB, 3AHN, 3CO, 3ELB, 3GW, 3LY, 4BY, 4FN, 6FV, 6NV, 6RQ, 8CJ, 8LZ. (Rx: R107.)

D. Garrard, Ceaque, 17 Hill House Road, Ipswich, Suffolk.

PHONE: G2BBT, 2CDI, 2CN, 2HKU, 2HT, 3ELB, 3GIN, 3OJ, 4BY, 4FN, 6AB, 6FT, 6KU, 6NU, 6RQ. (Rx: Radiovision "Commander".)

E. Nottingham, Lyndhurst, Upper Poppleton, York.

PHONE: G2AFV, 2BH, 2BOJ, 2DQ, 2FIS, 2NY, 2VO, 3AGE, 3AGG, 3AMA, 3DAQ, 3DYY, 4LQ, 4OK, 4PL, 5AU, 5ZB, 6DV, 6PL, 8CB, 8IZ, 8TF, 8WF. (Rx: 1224A.)

K. L. B. Dalby, Green Lane, Lea, Gainsborough, Lincs.

PHONE: G2AFV, 2BOJ, 2CQ, 2DQ, 2DR2, 2DYY, 2FMO, 2RI, 2RP, 2VO, 3AGG, 3AMH, 3ANM, 3DAQ, 3EZZ, 3FR, 5AU, 5IV, 6VD, 8AK, 8WF. (Rx: Phillips 12-valve C.R.)

A. Baldwin, 28 Wallwood Road, Leytonstone, London, E.11.

CW: G2BYF, 2IZ, 2KF, 2NJ, 3BPX, 3CEX, 3CVI, 3DZJ, 3DZW, 3ECU, 3FAD, 6IY, 8JR.

PHONE: G2BQY, 2CVO, 2FLK, 3BGC, 3CRR, 3DDB, 3LY, 4DY, 6NU, 8CJ. (Rx: Ham-bander with Preselector and BC453.)

GENERAL

28 mc

Miss D. Hall Taylor, Red House,
2 York Road, Birkdale,
Southport, Lancs.

'PHONE: AR8BM, CE2CC,
2BH, CX2CL, EL5A, KP4AZ,
LU3BO, 4DE, 4MG, MD7BL,
MT2FU, OQ5BO, 5CH, PY2CK,
VQ2JJ, 4ERR, 4RF, 5PBD,
VS9AH, W7KVM/MM, XZ2TH,
ZC6CB, ZE2KH, ZS1BV, 2CA,
6Z. (Rx: Denco DCR19.)

N. S. Beckett, 48 Beaconsfield Road,
Lowestoft.

CW: CT3AB, EL3A, KP4CU,
PY1GJ, 2AE, 2OE, PZ1QM,
UG6KAA, VS9AH, W7LQB,
Ø1AX/MM, 4X4AD, ZC1AZ,
6UN. (Rx: 0-V-0.)

G. Moses, 65 Railton Avenue,
Crewe.

'PHONE: CM9AC, CX2CL,
4CS, EL3A, HC1FG, HK3AB,
HL1BO, HP1OY, JA2AK, 2AN,
KZ5BB, PJ5KO, VP6JC, 6SD,
YS1AC, YV1AU, ZC6BG, ZD1SW,
4AH, ZS6Z, 4X4AA.

J. Roxburgh, The Cottages,
Broomlands, Kelso.

CN8EI, HC1FG, HI6VC, HK3AB,
4DF, KP4B, 4P, LU3EI, M13LZ,
PK4DA, ST2AM, VP6CDI, 6FO,
VQ4FR, VS1AY, 1CO, VS9AH,
4X4AA, 4CV, YV1AU, ZB1AM,
1E.

R. A. Hawley, Torview, Brookfield
Crescent, Goostrey, Cheshire.

'PHONE: AP2F, 2X, AR8AB,
8BM, EL2A, 3A, KP4AZ, MD7BL,
MT2FU, OQ5CH, PK4DA,
PY1GQ, 4RJ, VK6DD, VP6CDI,
VQ4CRE, 4RF, 4SC, 5PBD,
VS9AH, W3KKV/MM, 3NKS/
MM, 5AXI/MM, 5OCN/MM,
5OFO/MM, 5OTF/MM, 6YTT/
MM, 7KVM/MM, YV5AB, 5BJ,
ZD1SW, 4AX, ZE2JV, ZS1P,
2DY, 2ET, 4N, 6QP, 4X4AA, 4CV,
4ES. (Rx: S504 and S640.)

G. Braithwalte, Belfast, N.I.

CW: EL3A, JA2BQ, KR6BM,
LU2DS, M13AB, PY1GJ, 2ATG,
UB5BP, VK3CP, 4SR, 5FH,
VQ5ALT, VS9AL, ZL3HC,
ZSSJC, 5JR, 5OY, 6JZ, 4X4AD.
(Rx: N55R and Expander.)

D. Baxter, 51 Princes Crescent,
Bare, Morecambe.

AC4EZ, PY1SA, 1RK, VQ4CJG,
WSOTF/MM. (Rx: S640.)

J. P. Moore, 16 Silverbirch Road,
Sollihull, Warwickshire.

'PHONE: AR8AB, 8BM,
CN8BB, EK1RW, HC1OY,
KP4CU, 4HZ, LU2GH, 4EC,

M13OZ, OQ5CH, 5RU, PK4DA,
PY4AFW, VK5RV, VP6SD,
VQ2WP, 4CUR, 4ERR, 4SC,
5PBD, VS9AH, VO2CZ, VU2ET,
XZ2TH, ZC1HZ, 6DZ, ZD2S,
4AX, ZS6LF.

O. A. Good, 1 Western Drive,
Oswestry, Shropshire.

'PHONE: ET3AE, HC1FG,
1KV, 2OL, JA2AN, KG6DF, 6EO,
KR6BM, W6WVJ/KW6, PK4DA,
VP5AS, VQ2HW, 2WP, 3KIF,
5JTW, 5PBD, VS1DZ, W3KIF/
MM. (nr. Ascension I.), 5WOCN/
MM (nr. the Laccadives), W6YYT/
MM/ZS3, ZE1JH, 2JA, 2KH,
ZL3AW, 3BV, 3JM, 3LE, 4AH,
4AT, 4BN, ZP5BL, 9FA. (Rx:
S640.)

J. H. Woodward, 6 Council Houses,
Rode Heath, Stoke-on-Trent,
Staffs.

'PHONE: EL3A, KP4HZ:
KZ5CI, 5LH, MD7BL, OQ5BR:
5CH, 5LL, PY6AO, 6CN, VP4TAY
6SD, VS1DZ, 7PW, ZE2GS,
ZD2CL, ZS5BZ, 6DW, 6LW, 6TP.
(Rx: S640.)

G. Musk, 449 Central Drive,
Blackpool.

'PHONE: KZ5CD, LU3EI, 7BH,
VS9AH, YV1AU. (Rx: Sky
Champion.)

K. Parvin, 98 Winterbourne Road,
Thornton Heath, Surrey.

'PHONE: CP4DH, CR7AH,
CX7JB, EL3A, ET3AE, 3AF,
FF8FP, JA2AN, KR6BM, MD7BL,
OA4DA, PK4KS, PZ1D, 1M,
TI2EV, VS1DZ, 7EP, 9AH,
W6WVJ/KW6, YS1AC, ZC1AZ,
ZC1SW, 2S, ZL3AW, 3LE, 4HP
ZP5BL, ZS3O. (Rx: S640.)

E. H. Williams, Tara, Rowland Ave.,
Poole, Dorset.

'PHONE: CN8ED, CO7RO,
CX3AF, 5BN, ET3AF, HC1FG,
1JW, 2OL, HI6EC, KP4FF,
LU4DP, OA4AN, OQ5VD,
PY4AFE, 7VB, TI2FG, VP6SD,
VQ2FR, 4RF, 4CRE, 5PBD,
ZC6DZ, ZD1SW, 4AX, ZE2JV,
ZP5AB, ZS5CZ, 6DY. (Rx:
AR88.)

D. L. McLean, 9 Cedar Grove,
Yeovil, Somt.

'PHONE: AP2F, 2X, AR8AB,
8BM, 8MR, 8PP, CP5EZ, ET3AE,
FF8FP, HQ2CP, H18WF, HP1JO,
1RA, VQ3KIF, VS7PS, 7PW, 9AH,
VU2DU, W2TUH/Mobile, XZ2DA
2TH, ZC1AZ, 6DZ, 6UN, ZD1CL,
1SW, 2S, ZL4AK, 4HP, ZP5BL,
9FA, ZS3O. (Rx: AR88LE.)

D. E. Hayes, 18 St. Cuthberts'
Road, Hoddesdon, Herts.

'PHONE: AR8AB, CO7GM,
CX2CL, ET3AE, LU7BH, PY2ATG
2NK, ST2AM, VP4TZ, VQ4CRE,
4AC, VS7EC, ZL1DK, 1GZ. (Rx:
RF26 (mod.) to R1116.)

K. M. Parry, 6 St. Bart's Road,
Sandwich, Kent.

'PHONE: AP2F, CE5BH,
HP1LA, KG6FI, KZ5WG, MD7BL,
OA4AN, PK4DA, 4KS, PZ1D-
1M, VP6CDI, VQ2DH, 5PBO,
VS1AX, 7EP, 9AH, 9AJ, ZE1KT,
XZ2SY, 2TH, ZD1SW, 2RGV,
ZE2JV, ZS3O. (Rx: R208.)

A. T. Chesley, 738 High Road,
Leyton, London, E.10.

'PHONE: AR8AB, CX5AB:
EL3A, HC1OY, KZ5CD, OQ5CO:
OA4N, ST2AM, VQ5PDD,
VS9AH, ZD1SW, 4AB, ZP5BL.
(Rx: Hambander—Preselector and
RF Unit.)

J. Neal, 217 Sladefield Road, Ward
End, Birmingham 8.

'PHONE: CE2CC, HC1OY,
2OA, HK4CO, 4DF, JA2AN,
KG6DL, KP4AJ, KR6BM, LU4DD,
M13LZ, ST2AM, TA3GVU,
VP6JC, 6SD, VQ4CRE, 5PBD,
W6WVJ/KW6, ZD4AH, 4X4CV.
(Rx: S640.)

D. W. Bruce, 39 Dunkery Road,
Eltham, London, S.E.9.

'PHONE: FF8FP, HP1EJ,
PK4DA, 4KS, VS1JC, 2GG,
VQ5PBD, 8AE, VS1AY, 1CO,
1DZ, 6AE, 7RF, 9AH, 9AJ,
VU2JP, XZ2SY, 2TH, ZAIAR.
(Rx: 12 valve S.H. 6AK5 Pre-
selector.)

14 mc

J. C. Beal, 124 Woodfield Avenue,
N. Wembley.

'PHONE: AR8BC, CX1VD,
DU1AI, EA8CO, HI6EC, HP1LL,
JA7AF, KG6FH, KP4JF, OA5OC,
TG9AN, TI2RU, VP1GF,
VQ2HW, VS1AX, XZ2EM,
YS1GM.

CW: AC4RF, EA9AI, HC1FG,
KS4AJ, PK6XG, UA9CF, UJ8AF,
VP5AR, VQ4AJ, VS2CH, VU2LJ,
ZD4AD.

F.K. Earp, London S.W.11.

CR6AI, FI2ZA, HH2X, HI6EC,
JA2BL, 2AZ, KL7WQ, MP4BAC,
TI2BS, 2RV, VK9GW, VP2KM,
5AR, 6CDI, 9WV, VQ2JC,
4IMS, 4NSH, VS1CH, WIMAT/
Airborne, XZ2EM, ZL2GX, 2SW,
3LR, 4AO. (Rx: Modified RF24
into 5 valve superhet.)

G. Braithwalte, Belfast, N.I.

CW: CR6AW, CT3AV, EA9AI,
M13UU, OX3WC, UA9CC, ØPA,
ØFKD, UF6KAF, UG6KAA,
UO5KAA, UQ2AB, VØ8NU,
VQ2HC, VS2CH, 2AO, Y11FC,
ZS6KO, 6OW. (Rx: V55R.)

C. S. Pollington, 8 Cleveland Road,
Chichester, Sussex.

'PHONE: CX1VD, HI6ET,
HK1FQ, HP1BR, KP4JF, MD2AC,

TA3FAS, VP5AZ, VQ2JC, W1MAT/Airborne (16,000 ft. mid-Atlantic), ZL4HP. (Rx: 1155A modified.)

R. A. Hawley, Torvise, Brookfield Crescent, Goostrey, Cheshire.

'PHONE: AR8BC, CX2CO, DL2OU/Air Mobile, DL4GJ/Portable Mobile, EA8CO, EK1MD, FT4AP, HC1FG, OX3GE, 4NSH, PY2CK, 3QG, 3GQ, 4OE, 4RJ, 6CO, VK2AGW, 3NW, VP9FF, XE1A, ZL4AO.

CW: VP2KM. (Rx: S504 and S640.)

T. E. Botham, 4 Victoria Terrace, Walsall, Staffs.

'PHONE: HC1FG, MD2AC, 2AF, TI2GC, VE8MI, VK7GQ, VP5AR, 5AX, VQ4CJG, 4NSH, ZBIAR, ZD4AD, 6EJ, ZE2KH, XE1A, 1AC, 1BB, 1BC, 1CQ, 1KW.

D. L. McLean, 9 Cedar Grove, Yeovil, Somerset.

'PHONE: EA8CO, FF8CN, HC1FG, HI6EC, OX3BD, TA3ALK, 3GVU, VE7EF, 7ZZ, 8PN, VK2ABU, 2AGW, 2GU, 2DR, 3ADR, 3AWN, 3HO, 3MX, 4KS, 5NP, VP3HAG, VQ4AC, 4IMS, W71QO, 7JNC, 7MBX, 7MLJ. (Rx: AR88LF.)

H. M. Graham, 28 Park Lane, Harefield, Middlesex.

CE1AM, 1BE, HK1AY, 1GH, KR6AG, OQ5RU, TI2GC, 2OEC, 2SA, VP2HAG, 4TAE, 6CD, 9WW, XE1BC, YS1NM, YV8AG, 4X4AA.

O. A. Good, 1 Western Drive, Oswestry, Shropshire.

'PHONE: HC1FG, 1KW, 2KM, HI6EC, KG6FH, TG9AL, VE6RB, 8AW, 8PO, 8PS, VK7JB, 7KB, 7YL, VP5AX, VQ2HW, 2JC, 2JD, XZ2EM, YS1MS, ZE1JX, ZL2GX, 3LO.

CW: CR7AD, 7BZ, KS4AF, UA0KFD, UJ8KAA, UL7BS, UM8KAA, VQ8AY, ZD9AA. (Rx: S640.)

B. Davies, 73 Edon Road, Beckenham, Kent.

'PHONE: CE2CC, JA7AF, KA1A1, KG6FH, MP4BAC, OA4A1, 4C, TI2JC, 2MS, 2RC, VE8PS, VP2KS, 5AR, VS1AX, XE21Y, XZ2EM. (Rx: Hambander and 0-V-1.)

R. W. Finch, 36 Bathurst Road, Ilford.

'PHONE: CE3GB, CO7MP, 7VP, EL2A, HC1FG, HK1FE, KP4AZ, MI3SC, VP5AR, YS1GM.

CW: C8FP, CO2MO, 6AJ, HI6EC, HP1PL, HZ1HZ, JA3AA, NY4DD, OQ5RA, TI2FG, VP8AK, VQ3KIF, ZD4AD, ZE2KL. (Rx: 1-V-2 Mains.)

G. Musk, 449 Central Drive, Blackpool.

'PHONE: AR8BC, CN8BY, CX2CO, FA9UP, HI6EC, HK1FE, KP4CO, LU6AJ, OX3BD, PY6CO, VE8AW, 8MB, VK3HG, VP9FF, VQ4IMS, W6DA, 6EZ, KOY, 7CHZ, 7HUX, 7MBX, YV5AY, ZB2H, ZC6UM, 4X4DH. (Rx: Sky Champton.)

K. Parvin, 98 Winterhourne Road, Thornton Heath, Surrey.

'PHONE: EQ1RX, HC1FG, HI6EC, HZ1AB, JA7AF, KH6GS, KP4JF, VP2KM, VQ2HW, 2JC, 4CJG, 4NSH, W2EJV/PK3, 7LZJ/C, 6E, XE1A, 1AC, 1CQ, 1WW, 2IY, YK1AA, 1AC, YS1MS, ZD4AD, ZL4HP, ZS5MX. (Rx: S640.)

E. H. Williams, Tara, Rowland Ave., Poole, Dorset.

'PHONE: CE1AM, CN8BV, CX2CL, EA8CO, HI6EC, LU2DH, 9CR, MD2AC, MI3LZ, MP4BAD, PK1WX, PY7QG, TI2JC, 2SA, VE7VO, 7ZZ, 8AW, VK7LZ, W71QO, 7JMC, 7MLJ, 7MLP, ZC6UN, ZL4GA, ZS5GH. (Rx: AR88.)

D. K. Cocking, Old Meadow, Farnborough Park, Kent.

'PHONE: MD1A, 2AF, 2T, PY4BU, TA2ALK, VK3BH, VP2KM, 6CDI, VQ4IMS, 4NSH, W6MYC, 7MLJ, ZBIAR, 2H. (Rx: Pilot BC SH5.)

A. M. Norden, 9 Leaside Crescent, London, N.W.11.

'PHONE: CO7AA, CX2CO, 2CP, KZ5RM, MD2AF, MT2E, OQ5RU, VE8PA, VK2AGU, VQ2GT, 2HW, 2JD, 4ASC, 4IMF, 4NSH, 4RAW, 4SG, 4SJJ, W6E2B, 7GC, XZ2EM, YV5AB, ZD4AD, ZS1CN. (Rx: Philips (1937) B.C. 7 valve Super.)

T. A. Newton, 15 Hillside Street, Totterdown, Bristol 4.

'PHONE: CX2CL, 2CO, EK1AD, HZ1AB, LU7DV, VK3EE, 3LA, W6FTU, 6QS, 6RO, 6VM, W7CTK, 7EEF, 7GC, 7MLJ. (Rx: BC348R.)

K. Smeeton, 36 Runcorn Road, Barton, Nr. Northwich, Cheshire.

'PHONE: AR8BC, CE1AM, CT2AB, DU1AF, EA8CO, EL5B, HH2X, HI6EC, HP1AL, KG4AA (Guantanamo), MD2AC, MI3Z, OA4A1, SHG1, TI2FG, UB5BG, VE6XS, 7EF, VK5MS, VP7NK, XE1WW, ZB2G, 2H, ZL4HP, 4X4CV (Aircraft, Mobile). (Rx: Hambander and 1155A.)

J. P. Warren, 14 Francis Road, West Croydon, Surrey.

'PHONE: AR8AB, 8BC, CE3FG, CO2SG, 2VW, CX1VD, 2CO, DU1AK, HC1FG, HI6EC, JA5GC, KH6VM, KR6AG, MP4BAD, OQ5CF, 5RU, VP3HAG, 6CDI,

9L, VQ2JC, XE1BC, 1CQ, YV5BJ, ZC1AR, ZS1CN. (Rx: Bendix RA-10-DA, 5 valve, home built.)

P. Bysh, 118 Campsbourne Road, Hornsey, London, N.8.

'PHONE: CX2CN, 2CO, EK1AR, 1MD, HH3L, HI6CC, PY4RJ, 7AD, VE7FC, 7TN, VE4XW/VE8, VK3BH, 3BZ, W61KQ, 6TZZ, 7ERO, 7FIJ, 71YA, 7JCT, 7JNC, 7LAH, XE1A, 1CQ, 1WW, ZD4AD. (Rx: SX24)

A. Baldwin, 28 Wallwood Road, Leytonstone, London, E.11.

CW: HC1FG, HL2BA, KG6GA, KS4AI, KZ5CN, 5IP, MD7WE, OQ5BO, U8KAA, VK7KB, VP3AA, 8AX, 9CC, V56AC, ZE2JV, 2KL, ZD9AA.

'PHONE: EQ1RX, HP1FS, OQ5CF, TG9MG, VP6MO, XE1AC, YK1AC, YN1AK. Rx: Hambander with Preselector and BC453.)

K. M. Parry, 6 St. Bart's Road, Sandwich, Kent.

'PHONE: AR8AC, CO7AA, EL7A, HZ1AB, MF2AC, MT2E, OX3BD, TA3GVU, VQ2JC, 4CJG, VK2ALO, 3BZ, 3HG, 3VO, 4XR, XE1CQ, ZD4AD, ZL4BP. (Rx: R208.)

D. W. Bruce, 39 Dunkery Road, Eltham, London, S.E.9.

'PHONE: VE8MA, VU2ET, XZ2EM, YS1MS, ZD4AD, CW: FF8GC, KH6OA, KL7L, UA0AA, O5J, OKFD, VE8AW, 8PN. (Rx: 12 valve S.H.)

D. V. Preston, 93 Ulverley Green Road, Olton, Birmingham 27.

'PHONE: AE5YL, LU6AJ, MB9BJ, MF2AA, PY7AT, VQ4NSH, VK2AG, 2HG, 4VP, ZW1BQ. Rx: S640.)

7 mc

N. S. Beckett, 48 Beaconsfield Road, Lowestoft.

CW: CO2RC, 8FH, K9NRE, KP4FU, PY7BN, 7DN, 7WS, VE1BK, 1PB, 1PR, 1TE, 1UZ, 3AGX, VO2CO, W9DYZ, 9IBX, ZBIAR. (Rx: 0-V-0.)

3-5 mc

C. S. S. Lyon, 15 Ullet Road, Liverpool 17.

'PHONE: PY2EA, CW: K4WAE, LB3YB (off the coast of Canada), OX3WE, PY5EO, VE2AIE, 2FZ, 3WY, WIADL (18 watts), 4MKO, 4ONV, 4USA, 8DCM. (Rx: 1-V-1.)

SWL STATIONS



No. 22

IT is not often that we are able to show the equipment of an SWL whose Amateur Radio interest dates back to the old 440-metre days.

But it was as early as 1924 that E. S. Overton, of 85 Windsor Street, Wilton Road, Salisbury, Wilts., first started listening, and he therefore ranks as an SWL OT, of whom there are not many left—in the sense that most of them eventually come on the air as transmitters themselves.

Though not himself active as such, E. S. O. takes a close interest in G3FKF, the station of the Salisbury and District

Short Wave Club, of which he is a member, while a near neighbour is G2FIX.

The SWL station at 85 Windsor Road centres round an Eddystone 640, complete with S-meter and matching speaker, with which there is a variety of other equipment and a good collection of QSL cards. The latter show a keen interest in amateur station reception and a wide coverage.

E. S. O. does not say whether he expects eventually to take out a licence, but it seems that he keeps in close touch with the practical side of Amateur Radio operation through membership of the local Club—which he mentions is composed of a "happy band of keen members."

PSE QSL

The operators listed below have informed us that they would like SWL reports on their transmissions, in accordance with the details given. All correct reports will be confirmed by QSL card. To maintain the usefulness of this section please make your report as comprehensive as possible.

- CO2MG Avenida 3a entre Calles 11 y 12, Amp. de Almendares Marianao, Cuba. VFO-controlled 14 and 28 mc 'phone.
- DL1CU Koerner, Box 585, Stuttgart, Germany. QSL's all reports on 'phone and CW operation, 2200-0700 GMT. Details of station and QSB.
- DL1DA Schips, Sonnenberg, Degerlocherstrasse, Stuttgart, Germany. Modulation of 14 mc 'phone, 1600-2100 GMT.
- DL1QP Hamelin, Bahnhofstr. 14, Germany. 14, 28 and 144 mc 'phone and CW. Report stations heard calling DL1QP.
- DL2NQ Lt. D. C. Ward, 2nd Parachute Bn., B.A.O.R. 5. Quality of VFO-controlled 3-5 and 7 mc 'phone, 0700-0900 and 1800-2200 GMT.
- DL2OM W/Os' and Stigs' Mess, No 1 Wireless Regt., R. Sigs., B.A.O.R. 3. 3-5, 7 and 14 mc 'phone and CW. Critical reports on tone : any chirp.
- FT4AS 45 Rue de Barcelone, Bizerte, Tunisia. Modulation and readability of 3-5, 7 and 14 mc 'phone, operating 1700-2030 GMT.
- G2AWF 24 Elgin Drive, Wallasey, Cheshire. 7 and 14 mc CW, 0815 and 2130 GMT, Fri. and Sat.
- G2BDP 8 Denzil Road, Guildford, Surrey. 7008, 7031 and 14062 kc CW, operating week-ends at 0900, 1300 and 2100 GMT.
- G2GZ 155 Grand Drive, Raynes Park, London, S.W.20. QSL's all reports from over 1,000 miles on 3530 and 7048 kc CW, at 0500-0545 GMT.
- G2LT 11a Welwyn Close, Intake, Sheffield, Yorks. Reports from British Empire on 14 mc 'phone.
- G3AQZ Harrisfield, Blackmoor, Mawdesley, Lancs. 14080 and 14106 kc CW, 1000-1800 GMT.
- G3DGV 58 Wyngate Drive, Leicester. 14100 kc CW, also 1900kc, VFO, 1800-2000 GMT and week-ends.
- G3EFY 98 Ladysmith Road, Exeter, Devon. 7 and 14 mc CW, VFO, 0800-1300 and 1800-2300 GMT.
- GW3EPM Crud Yr Awel, Seven Sisters, Neath, Glam. 3-5 mc CW, 2100-2200 GMT : 7 mc CW, 0600-0700.
- GM3EZO 15 High Street, Buckle, Banffshire. 3504, 3522, 14044, 14074 kc CW, 2230-0030 GMT : 7008, 7022, 7037, 7044 kc CW, 1230-1330 GMT.
- HL1BB 12405 Stringham Court, Detroit 13, Mich., U.S.A. 14 and 28 mc 'phone and CW.
- II1AFI Via A. Volta 26, La Spezia, Italy. 14 mc 'phone and CW, 0700-0900, 1300 and 2000 GMT.
- II1AXD Via Alcuino 1, Milan, Italy. Modulation of 14 mc 'phone, operating 2100-0100 GMT.
- I1SH Via M. Giota 31, Milan, Italy. Quality of 14160 kc 'phone, 1300-1600 and 1900-2200 GMT.
- KP4HZ 713 Union Street, Santurce, Puerto Rico. 29 mc 'phone modulation : any hum on carrier.
- LA8FA (portable LB8FA) Bergslensgt 12 II, Oslo, Norway. 3-5, 7, 14 and 28 mc 'phone and CW.
- LU4BW Coronel Diaz 1649, Buenos Aires, Argentina. Operating 14 mc 'phone.
- LU4DQ P.O. Box 190, Bahla Blanca, Buenos Aires, Argentina. 14 mc CW, VFO, 2000-0200 GMT.
- ON4HL Stw. op. Brussel 182, Melle, OV, Belgium. 7 mc CW, 2100-2359 GMT. Stability and RST.
- OZ1SP Harbogade 9, Ulfborg, Denmark. Details of modulation of 3-5 and 14 mc 'phone.
- OZ6TJ Herredsgade 8, Ulfborg, Denmark. 3-5, 7 and 14 mc 'phone and CW, operating 1500-1800 and 2000-0600 GMT. Details of modulation.
- PA0QH Wambulsstraat 25, Zutphen, Netherlands. Quality of 14 mc 'phone, 1800-2300 GMT.
- PY1CI Caruso 51, Tijuca, Rio de Janeiro, Brazil. Operating 7, 14 and 28 mc 'phone and CW.
- SM6ALC Rosenskoldsgatan 7, Goteborg, Sweden. 3-5, 7 and 14 mc CW, VFO, 1700-2300 GMT.
- VE7SR 1809 E. Georgia Street, Vancouver, B.C. Canada. QSL's all reports on 28160 kc CW and on 28360-28400 kc 'phone, 1600-2000 GMT.
- VK3BG 25 Panoramic Road, North Balwyn, E.9, Victoria, Australia. Comparative reports on 14 mc CW, operating 2000-2200 GMT.
- VO1AG 17 Suvia Street, St. Johns, Newfoundland. 3-5, 7, 14 and 28 mc 'phone and CW, 2100-2359 GMT and week-ends. Report any VFO drift.
- W1LRG 63 Vine Street, Bangor, Maine, U.S.A. Quality of VFO-controlled CW, operating 1200-0300 GMT. Details of any chirp.
- W1OAC 18 Third Street, Ellsworth, Maine, U.S.A. Keying efficiency of 3515 and 14150 kc CW.
- W1PAZ 1934 Smith Street, N. Providence, R.I., U.S.A. 28900 kc AM and NBFM, 1300-1900 GMT.
- W2CTN 159 Ketcham Avenue, Amityville, L.I., N.Y., U.S.A. 7 and 14 mc CW. QSL's 100 per cent.
- W2WZ 76 Highland Road, Glen Cove, N.Y., U.S.A. Comparative reports on 3-5, 7, 14 and 28 mc CW, also 14 and 28 mc 'phone, 0400-0700 GMT.
- W2YCU 148 Leslie Street, Newark, N.J., U.S.A. 14 mc CW, 0400-0500 and 2200-2330 GMT.
- W2ZY 64-B Meadowbrook Place, Maplewood, N.J., U.S.A. 14 and 28 mc CW operation.
- WSNNF 1907 Oak Avenue, Port Arthur, Tex., U.S.A. Comparative reports on 27296, 28560, 28700, 28984 kc 'phone, 2200-2359 GMT and week-ends.
- W6CGQ 701 11th Street, Manhattan Beach, Calif., U.S.A. Comparative reports on 28 mc 'phone.
- W6MZ 2 El Sereno Court, San Francisco 16, Calif., U.S.A. 14 mc CW, operating 0500-0900 GMT.
- W6UVD 1910 Bayview Drive, Hermosa Beach, Calif., U.S.A. Comparative reports on 28 mc 'phone.
- W7GGO 3222 W.4th Avenue, Spokane, Wash., U.S.A. 'Phone and CW operation on 14 and 28 mc.
- W8INS 2116 Wilmer Street, Zanesville, Ohio, U.S.A. 'Phone operation on 27, 28 and 29mc.
- W8OZP 721 E. Oliver Street, Owosso, Mich., U.S.A. 3875 and 29150 kc 'phone operation, mainly at week-ends, 0330-0700 and 1430-1730 GMT.
- W9RH 1625a N. 18th Street, Milwaukee, Wis., U.S.A. Comparative reports on 28600 and 29160 kc NBFM, operating Sundays 1600-2000 GMT.
- W0FCA 206 3rd Avenue, West Fargo, N. Dak., U.S.A. 14, 27 and 28 mc 'phone and CW operation.
- W0WVS Rottering, Maur Hill School, Atchison, Kansas, U.S.A. 28 mc 'phone, 1620-1740 GMT.
- W0ZHI 3119 Que Street, Lincoln, Nebr., U.S.A. Comparative reports on 14238 and 14258 kc 'phone, 0700-0800 and 1900-2100 GMT.
- XE2GZ P.O. Box 6, Culiacan, Sinaloa, Mexico. Modulation of 14 mc 'phone, 0700-1200 GMT.
- ZE2KH Box 390, Salisbury, S Rhodesia. VFO-controlled 14 and 28 mc 'phone, 1600-2000 GMT.
- ZL3JM 118 St. Martins Road, Christchurch, New Zealand. 28 mc 'phone, 0730-110 GMT. Details QSB, WX and type Rx and antenna used.
- ZS5GK P.O. Box 1902, Durban, South Africa. Operating 14 mc 'phone, 1700 GMT, onwards.
- Z56DJ 24 Mons Road, Bellevue, Johannesburg, S. Africa. VFO-controlled 14300 kc 'phone and 14050 kc CW, operating 1800-2100 GMT.
- ZS6RY Jones, P.O. Tzaneen, Transvaal, S. Africa. VFO-controlled 7, 14 and 28 mc CW, operating 0730-0830 and 1800-2200 GMT.
- ZS6UH P.O. Box 3037, Cape Town, South Africa, 14046 kc CW, operating 1700-2000 GMT. Reports especially from Anerley and Beckenham.

The VHF End

GI-SWL Receives First
Two-Metre Signals from G—
A Quad for Two—Receiver
Notes—Reader Reports

by A. A. MAWSE

WE are glad to be able to start the story this time on a note of congratulation. W. A. Kane, of Ballywater, Co. Down, N. Ireland (a member of the VHF Listeners' Club) has received 2-metre signals from G3DA (Liverpool). We believe that this is the very first time anything from G has been heard in Northern Ireland on Two—and W.A.K.'s is indeed a very creditable performance, which will rouse a new interest.

Listening on the VHF bands in remote locations requires much patience and enthusiasm, and it is obvious that W. A. K. must have both these qualities. His reception took place on May 29, at 1915, when G3DA's signals were S6 with some QSB. W. A. K. put through a landline call to Liverpool and G3DA was able to hear his carrier over the telephone! The Rx at the GI end consists of a converter with a CV66 GGT RF stage, EA50 mixer, and EF50 triode connected oscillator, with one stage of IF on 10 mc feeding into an R1155 on that frequency. The aerial is a three-element beam which is quite critical on directivity. Both G3DA and G5CP (Manchester) are beaming on Ballywater nightly at 1915.

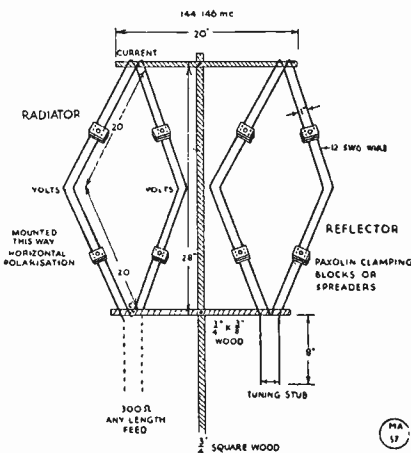
Beams

The diagram we give this month of a 2-metre Quad is really self-explanatory. It is claimed to have a gain comparable with a 4-element Yagi of the type discussed last month and, being less frequency conscious, is somewhat easier to adjust. The original details were supplied by G6VX, and appeared first in the *Short Wave Magazine* for November, 1948. Both the radiator and reflector are in the form of a square with quarter-wave sides and two complete loops are used in each case. This increases the impedance at the point of feed to the radiator, so if for any reason it is desired to use only one loop a lower impedance feeder will be required. Notice the squares are stood on one corner, i.e.

diagonals vertical and horizontal and are mounted one behind the other. The exact horizontal spacing radiator-reflector for best results is a field for experiment. The reflector is made 10 per cent. longer than the radiator, the extra length hanging down like a stub and being tuned either by an adjustable shorting strip, as shown, or by a variable condenser. This beam has an excellent front-to-back ratio, and is relatively easy to construct and mount.

Receivers

Design of equipment for two metres still occupies a prominent place in readers' letters. Converted RF27's continue to be the most popular line, but to judge from some reports there is little left of the original circuits and we think it might have been easier, in some cases, to have started from scratch and built an entirely new converter! R. Rew (Birmingham) remarks that after perusing the Calls Heard lists in G2XC's column in the *Short Wave Magazine* and those published in these pages, he is impressed by the great lack of DX calls appearing here. He asks if it could possibly be due to the RF27 converters not being as good as their owners imagine? It is certainly true that most of the Tx men use 6AK5's or 6J6's in the RF stages of their receivers,



Design details for a Two-Metre Quad. The sides are each 20 ins., with 20-in. spacing between reflector and radiator; the vertical diagonal is 28 ins. and as the reflector is 10 per cent. longer than the radiator, 8 ins. of the reflector hangs clear. The spacing between the 12 SWG wires composing the reflector and radiator elements is 1-in. Directivity of the system is of course from right to left in this drawing.

whereas the EF54 seems to be the favoured valve among SWL's. It is equally certain that the RF stage is one of the most important factors in deciding the efficiency of a VHF Rx in dealing with weak signals. May we draw your attention to G2IQ's article "Comparing Receiver Performance" in the June issue of the *Short Wave Magazine*? His measurements on the noise factor of different 144 mc convertor line-ups should be of great interest.

One of the "unrecognisable" Type 27's is that now operated by D. T. Bradford (Denham), who has replaced the EC52 oscillator with a triode connected 954, to overcome thermal drift and other troubles he was experiencing with the former. He finds the acorn very stable in performance, but he is now contemplating using it on a lower frequency and injecting the harmonic. He has added a CV66 RF stage and finds a noticeable improvement in signal-to-noise ratio. Some experimenting with the value of the 1F (after reading our remarks of last month) has resulted in the conclusion that 10 or 12 mc is about optimum when using an S640 as main receiver. At that frequency the Rx is reasonably sensitive and there is complete freedom of pulling between mixer and oscillator in the convertor, and that makes initial tuning up all the easier.

Another who has changed the oscillator valve in his RF27 is A. W. Blandford (Mitcham), who has substituted a 9002. P. Finn (Iver) adds his support to last month's comment by P. J. Towgood on the advisability of removing the resistor from across the 1F output coil of the RF27. B. Priestley (Northwich) would like some conversion details for the RF25. If anyone is interested or can help we should be glad to put them in touch with B. P.

Seventy Centimetres

L. W. Ross (Almondsbury, Glos.) has

managed to get his ASB8 working on 420 mc. He has made a modification to the first oscillator, removing the tuning circuit completely and substituting grid and anode lines $1\frac{1}{2}$ in. long, which he tunes at the end remote from the valve with a 100 $\mu\mu$ F condenser. Tuning range, he says, is from 70 to 80 cm. So far, two weak and unidentified signals have been heard.

R. Rew reports that there is still 70 cm. activity in the Birmingham area—G3EMY, 3LN and 8JI being regularly active. G3LN is using a 24-element array and as it is end on to R. R.'s QTH his signal is not too easy to receive. G8JI, however, is heard very well. So far R. R. has supplied modification details to five of our readers, so some more 70 cm. reports are anticipated before long.

Other News

M. Taylor (Tooting) is still busy with RF27 conversions for other people, and several readers have asked us to express their gratitude to him. R. M. James (Chatham) heard PAØPN on May 12, during foggy weather, and asks for the QTH of G2YH heard testing on 2 and 80 metres several times. (We know G3YH in Bristol is active on Two, but so far he has not been heard in the London area. According to the Call Book, G2YH is in Grays, Essex, but we have no other report of him on two metres.)

R. M. J. suggests a Contest. Please let us know if you would support such an event, as we are anxious to meet readers' wishes in this respect if reasonable support can be expected.

L. W. Ross is keeping a check on 50 mc with an RF26, and on 70 mc with an unmodified RF27. He is also prepared for 2300 mc, having obtained a klystron (10 cm) which with a little capacity loading gets near enough to 13 mc for use as a local oscillator in a convertor. Valves

TWO-METRE CALLS HEARD

E. Wicks, The Nook, Riversdale Road, Bournemouth.

*PHONE: G2BMZ, 2XC, 3DEP, 3EJL, 3LV, 3RI, 5BY, 5PB, 6DT, 8AJ, 8JB. (Rx: RF26 into Ham-bander, horizontal dipole, May 10-24.)

P. Finn, Pinelands, Old Slade Lane, Iver, Bucks.

G2AJ, 2CIW, 2DGO, 2FME, 2MV, 2NH, 2PS, 2ZB, 3BLP, 3QK, 4DC, 5AA, 5BC, 5KH, 5MA, 5MI, 5OO, 5TP, 5YM, 6HK, 6NB, 6NF, 6OH,

6UH, 6VX, 6YP, 8KZ. (Rx: Mod. RF27 into S640, dipole 12 ft. high.)

R. M. James, 1 West Drive, Maidstone Road, Chatham, Kent.

*PHONE: G2AJ, 2CPL, 2FLC, 2KG, 2WJ, 2XV, 2YH, 3BLP, 3BWS, 3DAH, 3GW, 4AU, 4IG, 5DF, 5DT, 5IG, 5TP, 6DH, 6SB, 6YP, 8KZ, PAØPN. (RF27 into BC 455. 2-ele. beam.)

A. W. Blandford, 1 Biggin Avenue, Mitcham, Surrey.

G2AJ, 2CIW, 2FPP, 2MV, 2NH, 2ZV, 3ADT, 3AEX, 3AUA, 3BPL,

3BXN, 3DGO, 3FD, 3FP, 4CG, 4CI, 4DC, 4IG, 5AA, 5AS, 5DT, 5KH, 5MA, 5MI, 5OO, 5TP, 5YM, 6LR, 6NB, 6NF, 6OH, 6UH, 6VX, 6YP, 8SM, 8KZ. (Rx: Mod. RF27 into 1155.)

G. E. Magrow, Sherwood, Exeter Road, Dawlish, S. Devon.

*PHONE and CW: G2AJ, 2BMZ, 2NH, 3AUS, 3AVF, 3DEP, 3EJL, 3RI, 4CI, 5BY, 5MA, 5QA, 6DT, 6VX, 6WT. (Rx: 6AK5 preselector to Eddystone converter to BC342N. May 23-31.)

for the mixer and RF are something of a problem, and when that is solved an even bigger problem presents itself—namely, getting some local Tx activity. But L. W. R.'s enterprise will probably encourage it.

P. Finn enquires when we are going to start a Counties Heard list. Well, we did begin one some months ago. W. H. Pierce (Reigate) was recorded as having heard 22 counties on Two in the January, 1949, *Short Wave Listener*. Since then no further claims have come in, and we feel the starting figure should not be less than 10.

We are also prepared to start a Table showing results on a mileage basis, anything over 100 miles to count, but a QSL to be produced as evidence. Yes, we know it is hard if the station you hear does not QSL, but past experience has provided so much evidence of mis-reading of call-signs, especially by listeners who are just learning the code, that we feel that to insist on the QSL is in the interests of everyone. G2XC has recently reminded the VHF Tx men of the importance of QSL'ing all reports from listeners and SWL's can be sure that they will respond.

D. T. Bradford reports hearing some queer QRN on May 29, which he suspects might be "sunspot noise." This is quite possible as there was a large spot on the sun around that date. But we cannot count that for our 2m. DX table, even if the sun is 93,000,000 miles away! D. T. B. is also interested in amateur television transmissions, and asks that any others with a similar interest should contact either G3CVO or himself. (See p. 301, *Short Wave Magazine*, June, 1949.)

Milestone

This month's survey has set up a new record for "The VHF End" which gives us more than a little mild satisfaction—we have actually had SWL reports covering all VHF bands from 50 to 2300 mc, with positive results noted on 145 and 420 mc. This says much for the ability and enthusiasm of the listeners concerned, and will be great encouragement for those still working for their first results.

Development of VHF activity is of such importance for the future of Amateur Radio that the Editor is quite prepared, and even anxious, to make more space available in the *Short Wave Listener* for this feature. So we hope to see more and more news and information flowing in from SWL's, who can do so much to help open up the VHF's.

In Conclusion

It is hoped shortly to circulate to members of the VHF Listeners' Club a new and very comprehensive list of active two-metre call signs, giving location and measured frequency of more than 180 amateur stations. SWL's will find this list of the greatest value in searching for GDX and calibrating receivers.

Finally, latest date for next month's reports is July 8, and the address—A. A. Mawse, *Short Wave Listener*, 49 Victoria Street, London, S.W.1. With you again on July 21.

MORSE CODE Training



There are Candler Morse Code Courses for

BEGINNERS AND OPERATORS

Send for this Free
"BOOK OF FACTS"

It gives full details concerning all Courses.

THE CANDLER SYSTEM CO

(Dept. S.L.) 121 Kingsway, London, W.C.2.
Candler System Co., Denver, Colorado, U.S.A.

A New and Revised Edition
of
"WORLD RADIO
HANDBOOK"

will be published in
S E P T E M B E R
at 6s. 6d.

(Thereafter annually)

●
WM. DAWSON & SONS LTD.
CANNON HOUSE, MACKLIN ST..
LONDON, W.C.2

Monthly Comment by R. H. GREENLAND, B.Sc.

DX broadcast

This month's Comment may appear somewhat disjointed, the reason being that, owing to space considerations, part of last month's notes had to be left over until this month, and at the same time we have a pile of new and interesting information from our many correspondents both home and overseas.

In the May issue we referred to the broadcast heard by P. Finn (Iver, Bucks) on 3200 kc. J. S. Christmas (Tottenham, N.17) heard the transmission at 2115—but it may have been on 3160 kc; a commentator described the action on a stage, and at 2130, after prolonged applause, came the announcement: "You have just heard a performance of The Pirates of Penzance given by the H.M.S. Collingwood Operatic Society."

AUSTRALIA

G. T. Milton (Southampton) has kindly sent us Radio Australia's full transmission schedule received from 475 Collins Street, Melbourne, C1; Graham Hutchins, Radio Australia's DX Editor, also obliges us with the details up to the end of July. The complete schedule is of course too large to reproduce here, so we are giving the details as affecting the British Isles only. (1) 0700-0815: VLB3, 11760 kc (not Saturdays); VLA6, 15200

WORLD WIDE RECEPTION OF SHORT WAVE PROGRAMMES

kc; VLC10, 21680 kc (closes at 0745). (2) 1400-1500: VLA6, 15200 kc; VLG3, 11710 kc; VLB3, 11760 kc; VLC11, 15210 kc (latter two close at 1445). (3) 2000-2155: VLC11, 15220 kc; VLA8, 11760 kc; VLB2, 9650 kc (latter two close at 2130). (4) 2210-2315: VLG10, 11760 kc.

Perhaps the most interesting talk from Radio Australia recently (from an Englishman's point of view) was that given from Melbourne at 2015 on May 24 by Mr. John Elliott, head of the Southern Region of British Railways. He told us that the Australians are a amazingly British in appearance, thought and outlook; they are mad about two things, politics and sport—cricket and "Australian rules" football, a very fast open game in which kicking and marking are most important.

Melbourne is a beautiful city on the American plan, but Sydney, with its narrower streets, is more like our own large towns. Australia is indeed an extremely British country, and after all, we all belong to the same family!

J. H. W. Broomhead and J. C. Catch logged VLQ3, Brisbane, Queensland, 9660 kc at 0715 on April 23 with local football results, and R. Iball (Langold, Notts) heard VLH3, Melbourne, Victoria, 15230 kc at 0800 on May 6 with a

children's programme; the direction was: "VLH5, 15230 kc." The writer logged VLS3 Sydney, New South Wales, 9500 kc, with a comedy play at 0627 on May 8.

From New Zealand, Clive Costello (Wellington) sends us the schedule for the new Waneroo (Perth), Western Australia transmitter. It is: VLX2, 6130 kc; Sunday: 2200-0215, 1045-1532; Monday to Friday: 2200-0215, 1015-1600; Saturday: 2245-0215, 1015-1600; VLX3, 9610 kc; Sunday: 0230-1030; Monday to Saturday: 0230-1000.

Reports should be sent direct to the ABC, Box D190, Perth, Western Australia.

New Zealand continues to claim our attention. On May 6 at 0730, ZL4, 15280 kc was a good signal and, for once, clear of any interference, with the direction: "This is New Zealand calling! The time is 0730 hours GMT." J. C. Catch (South Shields) reports that he has received their verification card and a note to the effect that Radio New Zealand (short-wave) now carries programmes of the Wellington stations of the N.Z. Broadcasting Service from 1800 to 0630 and 0930 to 1120 daily. R. Iball hears ZL3, 11780 kc and ZL4, 15280 kc with station direction at 0800. On May 8 at 0700, the writer

All times given in this article are GMT except where stated

heard their address, which is : "Post Office Box 3045, Wellington, New Zealand." On the same day, half-an-hour later, we heard an entertaining geographical feature. This included some interesting facts about the province of North Otago and, in particular, the town of Oamaru, where, we were told, Lieutenant Pennell and Dr. Atkinson of the *Terra Nova* landed in February 1913 with the Press telegram containing the tragic news of the loss of Captain Scott and his brave comrades after their epic journey to the South Pole. At Oamaru these two envoys planted a small oak in remembrance of the gallant explorer; this living memorial is now a full-grown tree !

ASIA

There is news of Radio Ceylon, now no longer associated with South-East Asia Command. P. E. Woolmer (Grantham) heard it recently on 15120 kc at 1600 with a BBC transcribed programme. He mentions too, that Damascus can be heard on 12000 kc nightly at 1900 with an English broadcast. The writer logged this on May 17 with the direction : "This is the Syrian Broadcasting Station calling from Damascus" followed by a five-minutes World News broadcast and a short News Commentary about the present Syrian government. At 1910, the lady announcer mentioned that there is another daily English transmission at 1230 Syrian Time, i.e., 1030 GMT. P. E. Woolmer also heard Singapore on 15300 kc and 11880 kc at 1400. Our recently received schedule from the British Far Eastern Broadcasting Service gives the following times and frequencies : 0915-1630 : 6770 kc, 11880 kc, 15300 kc ; 1100-1630 : 9690 kc.

G. Mould (San Fernando, Trinidad, B. W. I.) hears Batavia on 17630 kc ; this is PLD6 with a power of 2.5 kW. In the mornings, 1100-1200,

he hears other Radio Indonesian transmissions ; the first on 9720 kc is Menado, Celebes, with a power of 400 watts ; the second on 9550 kc with 8 kW is YDQ2, located in Macassar, Celebes.

C. Costello sends a list containing just 36 Radio Indonesia transmitters, with the following changes in frequency : YDA2, 2415 kc, YDD3, 6170 kc, and PLB9, 11000 kc ; he understands that the 9028 kc and 11915 kc channels are occupied by Radio Repoebliek Indonesia stations.

In Indo-China, Radio Australia gives the following new ones. (1) Nambong Radiodiffusion, Hanoi on 8640 kc ; Weekdays : 1300-1330 (Vietnam language) ; Sundays : 1330-1330 (as weekdays), 1330-1345 (French). Identification is given at each quarter-hour. (2) Vietnam Radio, 12000 kc, 0015-0130, 1230-1300 daily. Programmes are in Vietnam and English, with the identification "This is Vietnam."

TAP, Ankara, Turkey, 9465 kc, has a daily News in English at 1845, and it is reported by Arne Skoog (Swedish DX) that TAQ, 15195 kc, now carries the Sunday Mail Bag at 2030.

Since the fall of Nanking, little is known of Chinese stations in that area ; previously, BCAF was the new callsign for the 11685 kc transmitter which was the Chinese Air Force station heard from 1230 to 1500 daily. The latest from Chungking is that BEF7 is on the air daily as follows : 15170 kc and 7153 kc : 0955-1335 : 11913 kc and 7153 kc : 1345 - 1650. French Indo-China was heard with : "Cruising Down The River" between 1415 and 1430 on April 3 over 11780 kc. The English transmission closed at 1430 with a direction from the woman announcer : "This is Radio Saigon." This station has since been reported also on 7210 kc.

According to Ray Amer (Fielding, New Zealand) the Japanese station on 7257 kc is JKH and *not* JKF as mentioned last month. C. Costello tells us that reports to JKK and JKL2 (AFRS broadcasts) cannot be verified as International Reply Coupons are useless there. However, reports from the U.S.A. are being acknowledged, which means that if U.S. stamps can be sent, you may get a verification.

D. G. Cull reports strong signals from EPB, Teheran, 15100 kc at 1845 on April 1 with this announcement : "This is Radio Teheran, Iran, broadcasting on a wave-length of 19.87 metres in the short wave band. Our English transmission begins at 1840 hours each day."

In the State of Israel a new transmitter has been testing on 6725 kc ; this is the Israeli Forces Broadcasting Station 4X4EA. It appears to be working in parallel with 4X4VA, 1336 kc, under the schedule : 0430-0630, 1030-1200, 1830-2030, and reports will be verified if sent to : Station 4X4EA, A.P.O. 160, Tel Aviv, Israel.

AFRICA

Radio Omdurman, Sudan, has apparently deserted its 13320 kc channel. However, it was logged on 9746 kc at 1748 on April 8 with the words "This is Omdurman calling ! For the remainder of this programme you will hear music by Troise and his Mandoliers."

D. G. Cull identified Dakar, French West Africa, 11898 kc at 2015 with the call : "Ici Radio Dakar, Poste Nationale Francaise." J. D. Oxenford has received Brazzaville's (FZ) latest programme schedule : the English broadcasts are : To Europe : 0530-0545, 1845-1900, 2045-2100 ; To America : 0530-0545, 2215-2230, 0000-0015 ; To Far East : 1215-1230. The frequencies are : 15595 kc,

11970 kc, 11685 kc, 9440 kc.

E. G. Collinson considers that FZI and OTC2, Leopoldville, 9767 kc, are the two most consistent short-wave broadcasting stations on the air.

We have received from Wally Coombes, Announcer at ZNB, Mafeking, the following station details: Frequency 5900 kc, corresponding to a wave-length of 50.85 metres: the opening and closing direction is: "ZNB at Mafeking Calling!" The times of transmission are: Weekdays, 1100-1200, 1700-1930; Sundays, 1800-1930.

A. L. Taylor supplies our last African item which concerns Tetuan in Spanish Morocco. EA9AH, 6067 kc, was logged between 2230 and 2300 (S9) and announcing as: "Radio International de Tetuan." The musical programme was recorded, each announcement being preceded by one stroke on a small desk-type bell, and at 2300 there was a full peal of chimes and eleven strokes of a clock.

LATIN AMERICA

Uruguay—D. G. Cull reports CXA19, 11833 kc, at 2331 with an interval signal of ascending vibraphone notes and identification: "Radio Montevideo, Republica Uruguay."

Chile—J. C. Catch has added the following to his bag: CE1174, Santiago, 11745 kc, heard from 2330 onwards. Two calls are used, namely: "Radio Nuevo Mundo, Santiago de Chile" and "Emisora Nuevo Mundo."

CE960, Santiago, 9585 kc, logged at 2300 when a lady announcer said: "Radio La Americana, Santiago de Chile."

CE615, Santiago, 6152 kc. Heard at 2300 with gongs and call: "Radio Co-operative Vitalicia, Santiago" and "La Voz de Chile."

CE1190, Valdivia, 11900 kc, uses the same slogans and makes a feature of recordings

of Frank Sinatra and Bing Crosby.

CE1180, Santiago, 11980 kc; identification—two soft chimes and: "Radio Societe Nacional Agricultura, Santiago de Chile."

CE1185, Santiago, 11850 kc, with direction by lady announcer at 2315: "Radio El Mercurio."

Argentina—LRS2 now appears to be on 11880 kc, according to J. C. Catch. A. L. Taylor heard this one at 2200 with Bing Crosby singing "Her Name Was Mary" (S9 plus), and D. G. Cull was lucky enough to log it with the direction: "SRI Broadcasting Corporation, Buenos Aires" and giving in English the following details of transmissions from 1930 to 2230, Argentine Time. LRS Radio Splendid, 11880 kc; LRU (Radio El Mundo), 15290 kc; and LRY (Radio Belgrano), 9540 kc.

LRX1, Buenos Aires, 6120 kc. J. C. Catch makes the call: "Ellay - Erray - Ekis - Oono, Radio El Mundo, Buenos Aires" given at 2345.

Peru—OAX4G, Lima, 6710 kc; non-stop fox-trots and rumbas from 0350 to 0430.

OAX4M, Radio Miraflores, 6220 kc, heard with Chopin's Marche Funebre at 0340 on April 7.

OAX4J, Radio Colonial, 9340 kc, logged at 0345 with mention of Lima.

Bolivia—CPI15, La Paz, 5855 kc. Vibraphone notes *soh-soh-me-doh*, male announcer and closing Air heard at 0300 on April 10.

Ecuador—Both E. G. Collinson and D. G. Cull have heard HCJB on 17890 kc, the former at 2030 on April 1 when the lady announcer explained how wet an afternoon it was in Quito!

HC2RL, Guayaquil, 6635 kc was logged by the writer at 0350 on April 6 (it only broadcasts on Wednesdays) with the playing of Chopin's Polonaise in A. Announcements in Spanish and English and the

Ecuadorian National Anthem closed the proceedings at 0424.

Brazil—Dr. T. B. Williamson (Harpender) reports on ZYF8, Manaus, 4955 kc, announcing as: "Radio-difusora Amazonas."

Radio Rilawar, Sao Luiz, 4786 kc, heard between 0130 and 0200.

PSL, Rio de Janeiro, 7933 kc, heard heterodyning HLKA at 2300 and working in parallel with PSF, 14687 kc.

PSH, 10220 kc, logged with Portuguese news at 2230 (J. C. Catch).

ZYK3, Pernambuco, 9565 kc: heard with a talk in English on "Sao Paulo" at 0130 on March 24 (D. G. Cull).

PR14, Radio Ministerio, 9770 kc, not audible until after OTC2 has left the air.

Mexico—XEQQ, 9680 kc, heard with late Spanish News at 0545. Call: "Ekis-Ee-Coo-Coo" at 0550 and close down to the strains of Ravel's Bolero.

XEBT, 9625 kc, logged at 0445 with "plucked strings" interval signal and slogan: "Las Emisoras Mexico" on the air until after 0600.

Costa Rica—TIPG, San Jose, 9618 kc, was S9 plus when closing down with its slogan: "La Voz de la Victor" at 0437 on April 7.

El Salvador—YSUA, 6250 kc, logged by J. C. Catch when giving call in English at 0300. YSR, 6272 kc, was heard with: "La Voz de El Savador" at 0500—then soft music and fade out.

Nicaragua—YNQ, 6950 kc, heard with slogan: "La Voz de Victoria" at 0330 on April 10.

Honduras—On April 6, HRA, Tegucigalpa, 5915 kc, was logged with gongs and closing announcements at 0355. HRN, 5875 kc, closed with the Goodnight Melody at 0400.

Panama—When HOLA, Colon, 9505 kc, was logged by

D. G. Cull, he heard musical recordings and an announcement in English at 0205.

J. C. Catch heard the direction: "Cadena Panamena Radiodifusora" from HP5A, Panama City, 11695 kc at 0015.

Haiti—HH2S, 5948 kc, logged by R. Patrick at 2330 on March 30 with guitar music and slogan: "Societe—Haitienne de Radiodiffusion."

Cuba—COCX, Radio La Havana, is now using 9430 kc.

Trinidad—D. G. Cull found VP4RD, 9630 kc, broadcasting an unusual type of show at 0010 on March 29; it consisted of a mart with the bartering of valuables and other goods, and during the programme, local listeners submitted their offers by telephone!

NORTH AMERICA

J. C. Catch has logged St. Johns, Newfoundland on 5970 kc with its new call at 2230 on May 5; the direction was: "This is Station CBN and CBNX, The Trans-Canada Network, Saint Johns." G. Mould reports CBFX, Montreal, 9610 kc, with a French programme, 0200-0300; P. E. Woolmer found CFRX, Toronto, 6070 kc with a play: "Treasure of Sierra Madre" at 0200 on April 19, and CHLS, Sackville, 9610 kc with the weekly English broadcast for the S.W. Pacific at 0850 on a Sunday.

Again, R. Iball spotted CKRA, 11760 kc at 0320 with a Lively Arts feature, and CHNX, 6130 kc, with News and a weather forecast at 0300.

The writer has lately received a letter verification from this one; the details are: CHNX is on the air Monday to Saturday, 1100-0415, and Sunday, 1300-0415, relaying the full schedule of the long-wave commercial station CHNS. It has a power of 500 watts, and is associated with the Halifax *Chronicle-Herald* and Halifax *Mail Star*.

Reports should be submitted to: M. Forrest, Secretary, The Maritime Broadcasting Company Ltd., Broadcasting House, Tobin Street, Halifax, N.S.

J. Brooker (Crawley, Sussex) has logged KNBX, 15250 kc, with a News bulletin at 0800 and closing down at 0830 on April 7. During the "Conference period" at 0815, the following schedules were given: KCBA, 15150 kc, 0115-0830; KCBF, 17850 kc, 0115-0830; KCBF, 9700 kc, 0930-1430; KGEI, 15210 kc, 0530-0845; KGEI, 9670 kc, 0900-1030, 1045-1430; KGEX, 17780 kc, 0530-0845; KNBX, 15250 kc, 0530-0830; KWID, 11900 kc, 0530-0830; KWIX, 9570 kc, 0315-0815; KWIX, 11860 kc, 0830-1430. R. Iball has logged many of these between 0800 and 1100, but KWIX, notably, was heard with its call at 0400. Finally, G. Mould heard KRHO, Hawaii, 15250 kc, a good S7-8 at 1300.

AFRICA

A. B. Graves (Leeds, 7) has heard VQ7LO, Nairobi, 4855 kc, with News in English at 1800, sometimes peaking to S9! J. H. W. Broomhead and J. C. Catch listened to a fine recording of the "Rossini Overture" at 2030 on April 13 over SUX, Cairo, Egypt, on 7867 kc. G. Mould only hears from Africa the usual excellent signals emanating from Brazzaville, Leopoldville and Dakar. The latter on 11895 kc was S9 when closing at 2157 on April 11. P. E. Woolmer hears CSX2, Ponta Delgada, Azores, 4845 kc, between 2100 and 2300; 20 chimes and the Portuguese National Anthem end the broadcast at that hour.

CENTRAL AMERICA

R. A. Savill (Sevenoaks, Kent) says that HOB, Panama, appears to be hovering between 6195 kc and 6200 kc, but he has logged it on 6176

kc. He mentions an elusive French-speaking station, with male and female announcers, on 6005 kc from 2300 to 0300; could this be CFCX, Montreal? Another Panamanian is HOLA, 9505 kc, logged by R. Iball with the direction "Radio Atlantico" at 0330. The San Salvador station YSUA has at last deigned to verify. J. C. Catch's air-mail letter dated April 18 can be translated as: "Esteemed Friend, Infinite thanks for the report which you sent us. The details are correct and we are pleased to hear that you listen to our station. Our broadcasts are transmitted with a power of 1000 watts on 6250 kc, and it is this which you heard. The antenna is a Hertz half-wave, with a radiating angle of 15 deg." The letter is signed by Paul Trabaino, and the address is: Radio Mil Cincuenta, 1a Avenida Sur No. 50, San Salvador, Republica De El Salvador, C.A.

The writer logged YNDG, Leon, Nicaragua, 7651 kc, with Latin-American music at 0313 on May 6, and closing at 0400 with the English announcement: "We shall be on the air tomorrow at 5 p.m. Central American Time. Goodnight, Everybody." TGWA, 9760 kc was S9 plus at 0415 on the same morning with marimba music and the direction: "Estacion Comercial de Guatemala en Centro America." R. Patrick (Accrington) says TGQA has changed its frequency to 6405 kc; he heard it signing off at 0430 with the direction: "La Voz de Quezaltenango."

Both J. H. W. Broomhead and J. C. Catch logged XEWW, 9500 kc, at 0130, and XEBT, 9625 kc, at 0600 recently, and R. Iball heard the former at 0530 with the direction: "La Voz de Mexico." XEBT, Mexico City, has already verified by air-mail for the above-mentioned item!

G. Mould, in Trinidad, says XEQQ, 9680 kc; XEHH,

11880 kc, and XEWW are all regulars for him around 0001. G. M. mentions that FNRI, Radio Martinique, 9700 kc is a fair daylight signal at 1630, and J. C. Catch has just received their verification card from Fort-de-France. J. C. C. logged PJC2, Willemstad, Curacao, on the new frequency of 5010 kc at 2330 on April 30; the call in Dutch and Spanish was given at 2350. We logged ZQ1, 3480 kc, with dance music at 0253 on May 15; this station closed down with God Save The King at 0300, preceded by the words: "You have been tuned to ZQ1, Jamaica, British West Indies. We will be back at 4 o'clock tomorrow. Goodnight, Everybody."

HH3W, 10135 kc, was heard with French announcements and a Strauss waltz at 0328 on May 15, and R. A. Savill reports HHCM, Port-au-Prince, with a good signal on 6165 kc. In Cuba, COCH, Union Radio, 9430 kc, and COBL, Cadena Suaritos, 9830 kc, are good ones according to G. Mould; and COBQ, 9236 kc, is one of J. C. Catch's best with the call: "Say-Oh-Bay-Coo, La Voz de Cuba" at 0130.

SOUTH AMERICA

J. C. Catch has been specialising in Latin-American verifications—here they are: CXA19, Montevideo, 11835 kc, has sent a fine card and illustrated colour folder in Spanish and English with

views of the Legislative Palace, Pacifos Beach and Constituenta Monument: R. Iball says their direction is given in English each night at 2200: "This is CXA19, Montevideo, Uruguay, on 11835 kc in the 25-metre band." CXA10 sent a card and HCJB a calendar, schedules, and a miniature sandal! J. C. C. has further interesting stations in his log. ZPA3, 11850 kc, was heard at 2335 on May 14 with the call: "Thaytay-Pay-Ah-Trey, Radio Teleco, Asuncion, Paraguay," and CP38, La Paz, 9485 kc, was heard with a lady announcer giving the direction: "Radio Nacional de Bolivia" at 0030 and 0045 on May 15. On the same night, the writer logged CP15, La Paz, 5855 kc with a male announcer, signing off at 0259. J. H. W. Broomhead gives the following details of Brazilian stations: PRA8, Recife, 6016 kc, logged with direction: "Radio Clube de Pernambuco" at 2315; PRI4, Paranaiba, 4825 kc; ZYB9, 15155 kc, with call: "Radiodifusora Sao Paulo" at 2145; and ZYC9, 15370 kc, heard from 1830 onwards with new call: "Radio Sport, Tope" and address: Avenida Venezuela 43, Rio de Janeiro. J. L. Simpson (Hayes, Middlesex) has heard Radio Tope at 1800 with a commercial programme in which Vitamin products were extolled mercifully.

R. Iball says that ZYB7, 6095 kc, and ZYC9 were in

parallel at 2230 on May 5 with a speech by the President of the Republic. J. Brooker hears ZYN7, Ceara Radio Club in Fortaleza on 15165 kc fairly frequently, and it has been reported that PRL8, 11720 kc, in Rio, has instituted a series of English language broadcasts, Tuesday to Saturday, from 0230 to 0245 and that reports are requested.

HC2AK, Radiodifusora Ecuador, Quito, 4656 kc, was giving a Spanish news at 0404 on May 15 and was easily the loudest station on the 60-metre band at 0450; the slogan "General Electric" is given frequently. C. Costello has sent a full list of the new Venezuelan call signs, but more of these next month. G. Mould has a verification card from YVRA (ex-YV8RB) however; this station operates on 3490 kc with the slogan "Radio Monagas" and is located at Maturin. R. A. Savill says Radio Coro, 4970 kc often puts out the strongest signal in the band, even before 2200; its new call sign is YVMM. R. A. S. also gives S8-9 to ZFY, Georgetown, on 6000 kc, but only after midnight when Radio Andorra has left the air. In Peru, OAX4G, 6710 kc closes with "Muy buenas noches" at 0430; OAX4J, 9340 kc, has been heard relaying a pelota game before closing down at the same time; OAX4V, 5907 kc, however, has been logged at 0530 and later—the short-

Radio G200 Announces

INERT CELLS. 1.5v, 4d. each, 12/- box of 40. The ideal H.T. supply for both Tx or Rx.
METAL GS7. R.F. Pentode, 4/6 each, 5 for £1. Quick! whilst supplies last.

CONDENSERS. .1MFD 250v, 6/- gross. .25MF 1,000v, wkn., 6d. .001 or .0005MFD, mica, 4d. Ceramic 1, 2, 4.7 or 47pf, 2/6 doz. .002MF 1,000v, wkn., T.C.C., 6d. each. Hunts 25MF 25v, wkn., 2/- each.

RESISTANCES. Vitreous wire wound. 4 Watt, 5,000, 15,000, 20,000 ohms. 7d. each. 1 Watt, 2,000 ohms. 7d. 1 Watt carbon, 47,000, 50,000 and 390,000 ohms, 6d. each. 5/- doz. 1/2 Watt, carbon, 100,000, 330,000 and 1 Meg. 3d. each, 2/6 doz.

VOLUME CONTROLS. 10,000, 20,000, 50,000 and 100,000 ohms, 2/- each. 1/2 or 1 Meg. with switch, long spindles, 3/-.

TANNOY AMPLIFIERS. 60 Watts of Audio, 200-250v A.C. mains. Price less valves in perfect working order, 28.

ALARM BELLS. 2 Gong for direct A.C. mains. Working only, 5/- each.
Don't miss these unrepeatable bargains, obtainable only from—
ARTHUR HOLE,
55 Union Street, Maidstone, Kent.

NO SHOP KEEPS ALL YOU WANT—WE KEEP MORE THAN MOST. THAT'S WHY PEOPLE SAY—

"You'll probably get it at SMITH'S, Edgware Road"

Pay us a visit and see for yourself.

H. L. SMITH & CO. LTD.
287-9 Edgware Road, London, W.2

Near Edgware Road Met. and Bakerloo

Phone: PAD 5891. Hours: 9-6 (Thurs., 1 o'clock

wave call is: "Oh-Ah-Ekis-Cuatro-Vay."

In Argentina, Radio El Mundo, Radio Splendid and Radio Belgrano have combined to give English broadcasts between 0315 and 0600.

LRV, 9450 kc, gave its call at 0500 (R. Iball and A. B. Greaves); LRS, Radio Splendid, is on 11880 kc (C. Costello); and LRU, 15290 kc, was heard here with a samba composed by Barossa at 0520. Finally, R. Patrick reports that LRXI on 6120 kc was S8-9 at 2300 with the direction: "Radio El Mundo de Buenos Aires."

EUROPE

A. B. Greaves has received the following cards: Poland, (6215 kc), Athens (15345 kc), Yugoslavia and France: he notes that Radio Sofia gives News in English at 2020 and 2145 on 7670 kc, and OIX4, Finland, 15190 kc, at 1215 daily. F. W. Harstone (Streatham, S.W.16) says he

has received a card depicting the Finnish 100 kW transmitter; the schedule is: 0300-0500, 1200-1300, 1645-1745, 2100-2200, and they are pleased to receive reports; the address is: Oy Yleisradio AB, Porin Yleisradioasema, Pori, Suomi (Finland). J. M. Simpson has logged the new Hungarian transmitter on 6205 kc, 1700-2330, with slogan: "Kossuth Radio Budapest." P. E. Woolmer hears Warsaw III, 6215 kc, with English programme at 1930 and ZAA, Tirana, Albania, 7850 kc, with English at 2015. G. Mould and R. Patrick's contributions are Radio Stuttgart, 6030 kc, and the Swiss Broadcasting Corporation's summer schedule respectively. Russell Henderson of the Swiss Broadcasting Corporation tells us that the United Kingdom broadcast is given daily, 1845-2030, and the stations are HEU3, 9665 kc, and HER5, 11865 kc; the "Swiss Curiosity Shop" is a nightly feature at 1920 and with 100

kW transmitters at your service, you should enjoy every minute of it!

R. A. Savill is another who has received Moscow's verification—a view card with written comments on the reverse.

He and J. C. Catch have logged various Radio Nacional de Espana stations, one on 4000 kc at 2300, others on 10450 kc, 11600 kc and 15820 kc around 2000. J. C. C. suggested that these transmitters are located in Fernando Po, the Spanish West African island, but our personal view is that they are not operated by the Nationalists for they use the direction: "Radio Espana Independiente." However, it is learned that the Fernando Po stations are now almost complete.

Your next month's comments are invited and will be most welcome; please send to R. H. Greenland, *The Short Wave Listener*, 49 Victoria Street, London, S.W.1, to reach us not later than July 15.

AMATEUR RADIO

For all who are in any way interested in the transmitting side, our *Short Wave Magazine* will be found of the greatest value and interest. Of 80 pp., each month's issue carries many articles and features, technical and otherwise, on all aspects of Amateur Radio. There are large sections on DX and VHF, of their kind the most up-to-date and authoritative appearing in print to-day. The *Short Wave Magazine* is one of the world's leading Amateur Radio publications, and a subscription for a year of twelve issues costs but 20s., post free. Order, with remittance, to the Circulation Manager, *Short Wave Magazine*, Ltd., 49 Victoria Street, London, S.W.1.

BINDING NOTE

No "bind," this, in the R.A.F. meaning of the term, but just a note to say that L. Swiston, 49 Belgrave Road, London, S.W.1, can undertake the binding of your sets of the *Short Wave Listener* for 5s., cash with order, plus postage. Vol. I commenced with the issue dated November, 1946, and Vol. II with that for December, 1947. Readers interested should write direct to the address given.

NO MORE BUSINESS

We are asked to announce that the firm of Grand Arcade Radio, Leeds, is now closed down, though G80G remains fully active from his home address.

HEAVY DUTY TRANSFORMERS, 230v 50 c/s, 1,000v at 170 mA. C.T. 4v at 4mA C.T. A really FIRST CLASS job by leading makers for Admiralty. Weight 17 lbs. 25/- Carriage 4/- extra

AUTO TRANSFORMERS. Shrouded. 230v input, 115v output at 80w. 6/- Postage 6d. extra

CONDENSERS 4mf. TCC or DUBILIER, 1,000v D.C. wkg. Paper, 1½" x 4" x 5". 2/6 Postage 6d. extra

ADMIRALTY SWINGING CHOKE, 5 hy., 200 mills. 4/- Postage 6d. extra

1154 TRANSMITTER, new and complete. £7 Carriage extra

FIELD'S

435-437 STRATFORD RD., BIRMINGHAM, 11
PER RETURN SERVICE

BARNES RAD-ELEC. CO.

12 PIER ROW, WOLVERHAMPTON, CENTRAL

We offer the following stocktaking bargain clearance lines, "first come get the snips"—Admiralty new intercomms units made by Parmeko with dialling as P.O. 'phones; double button mike, fine action, Morse key, jacks, transformers, etc., 12/6; 500 microamp boxed M.C. 2" meters, 10/6; 25 amp. M.I. DC 2½" boxed, 10/-; S130 voltage stabilisers, 5/6; 60ma 20Hy chokes, 5/6; type "D" Morse keys, the best (next to a "bug"), size 4" x 7", 21/-; Yaxley wafers, 2-pole 4-way, 1/- pair; 12v amplifiers, 2 valve, new, 6K6 output, 30/-; switch sockets, shutter type, 3-pin 15 amp, at 10/-; filament transformers (not surplus), 230v input, 6.3v 14amps, 25/-; mains interference suppressors, 3/6, bargain; special tested R.1116 8-valve battery suppressors, all-wave, £11, leaflet 3d.; are you on mailing list?

SHORT WAVE BROADCAST STATIONS

Revision 48-66-50-26 Metres

Giving Frequency, Wavelength, Callsign and Location

These lists appear each month, covering the 11-128 metres section of the wave band within which all the short wave broadcasting services of the world operate. For economy of space this band is dealt with in five sections, a list of active stations in one of these sections being given in full every month. Such revision is necessary due to constant changes of frequency, callsign and operating schedules. All stations appearing in our lists are normally receivable in this country and are under regular observation.

| Frequency | Wave-length | Callsign | Location | Frequency | Wave-length | Callsign | Location |
|-----------|-------------|---|---|-----------|-------------|---|--|
| 6165 | 48-66 | HER3 GWK | Berne. Daventry. Saigon. | 6070 | 49-42 | GRR HJEX CFRX XGHT | Daventry. Cali. Toronto. Hantan, China. |
| 6160 | 48-70 | CKOB CBRX | Sackville. Vancouver. Munich. Moscow. | 6067 | 49-44 | EA9AH | Tetuan, S. Morocco. |
| 6155 | 48-74 | EQB CS2WD | Teheran, Iran. Lisbon. Vienna. | 6065 | 49-46 | SBO BEF9 LRS1 | Motala, Sweden. Kwichow. Buenos Aires. |
| 6153 | 48-75 | TIRH | San Jose, C.R. | 6062 | 49-49 | GSX | Karachi, Pakistan. |
| 6152 | 48-76 | CE615 | Santiago, Chile. | 6060 | 49-50 | KNBA FIQA HORT | Daventry. San Francisco. Tananarivo. |
| 6150 | 48-78 | GRW VLR2 YSPD CKRO | Daventry. Lyndhurst. San Salvador. Winnipeg. | 6055 | 49-55 | CXA14 | Balboa, Panama. |
| 6145 | 48-82 | HJDE | Medellin. | 6050 | 49-59 | GSA | Colonla, Uruguay. |
| 6140 | 48-86 | DYH2 HOQQ XEDP BEF10 RW97 | Cebu, P.I. Panama City. Mexico City. Chungking. Moscow. | 6045 | 49-63 | XETW | Tampico, Mexico. |
| 6135 | 48-90 | CE613 HC2SB | Punta Arenas. Guayaquil. Limassol, Cyprus. | 6040 | 49-67 | WRUS CE604 COBF HT1N GSY | Boston, Mass. Santiago, Chile. Havana, Cuba. Trujillo, D.R. Daventry. |
| 6130 | 48-94 | LKJ CHNX COCD RW96 GWA HRQ | Tromso, Norway. Halifax, N.S. Havana. Moscow. Daventry. San Pedro Sula. Tangier. | 6038 | 49-69 | OAX6B | Arequipa, Peru. |
| 6125 | 48-98 | DYH3 TGQA | Cebu, Philippines. Guatemala City. Belgrade. | 6035 | 49-71 | GWS CXA30 | Daventry. Montevideo. Monte Carlo, Monaco. Rangoon, Burma. |
| 6122 | 49-00 | HP5H | Panama City. | 6030 | 49-75 | XEKW HP5B CFVP | Morelia, Mexico. Panama City. Calgary, Alberta. Stuttgart. Moscow. |
| 6120 | 49-02 | OIX1 LRX1 HIIZ XEUZ | Helsingfors. Buenos Aires. San Domingo. Mexico City. Salisbury, S.R. San Domingo. Moscow. | 6026 | 49-78 | CP37 | Oruro, Bolivia. |
| 6115 | 49-06 | HIG | Moscow. | 6025 | 49-79 | PGD HC1CR | Hilversum. Ibarra, Ecuador. |
| 6110 | 49-10 | GSL VUD3 ZYN6 WLKS HJFB | Daventry. Delhi. Fortaleza. Kure, Japan. Manizales. Tabriz, Iran. | 6024 | 49-80 | XEUW | Kuala Lumpur, Malaya. Brazzaville. |
| 6100 | 49-18 | DYH3 TGQA | Cebu, Philippines. Guatemala City. Belgrade. | 6020 | 49-83 | XEUW | Vera Cruz, Mexico. Kiev, U.S.S.R. Bogota. |
| 6095 | 49-22 | ZRJ ZYB7 TGLB | Johannesburg. Sao Paulo. Mazatenango. | 6018 | 49-84 | HJCX | Pernambuco. |
| 6090 | 49-26 | GWM VLI CKOB CBFW | Daventry. Sydney, N.S.W. Sackville. Montreal. Luxembourg. Moscow. | 6016 | 49-87 | PRA8 | Rabat, Morocco. |
| 6087 | 49-28 | LRV1 | Buenos Aires. | 6015 | 49-88 | JKD | Nazaki, Japan. |
| 6085 | 49-30 | ZYK2 VP4RD | Pernambuco. Port of Spain, B.W.I. Rome. | 6012 | 49-90 | XEOI | Mexico City. |
| 6082 | 49-32 | Umtali, S. Rhodesia. | | 6010 | 49-92 | OLR2A GRB VUC2 CJCX CE601 OAX40 OQ2RC | Prague. Daventry. Calcutta. Sydney, Nova Scotia. Antofagasta, Chile. Lima, Peru. Leopoldville. |
| 6080 | 49-34 | WLWO CKFX HIIX RW98 | Cincinnati. Vancouver. Trujillo, D.R. Moscow. Munich. | 6007 | 49-94 | ZRH | Johannesburg. |
| 6077 | 49-36 | HIIG | Trujillo, D.R. | 6006 | 49-95 | | Rabat, Morocco. |
| 6075 | 49-38 | CXA3 | Montevideo. Colombo, Ceylon. | 6005 | 49-96 | CFCX HP5K JO8C | Montreal. Colon, Panama. Sapporo, Japan. Dornbirn, Austria. Noumea, N. Caledonia. |
| | | | | 6001 | 49-99 | OAX2A | Trujillo, Peru. |
| | | | | 6000 | 50-00 | HJKB HI9B | Bogota. Santiago, D.R. |
| | | | | 5995 | 50-04 | PRI3 | Damascus. |
| | | | | 5990 | 50-08 | HJCB | Manilla, P.I. |
| | | | | 5985 | 50-12 | BEA9 | Satisfury, S.R. |
| | | | | 5984 | 50-14 | OAX4P | Moscow. |
| | | | | 5980 | 50-17 | ZFY | Belo Horizonte. |
| | | | | 5970 | 50-26 | HI4T CBNX | Quito. Nanking. Huancaayo, Peru. Georgetown, B.G. Andorra la Vieja. San Domingo, D.R. St. Johns, Newfoundland. |

SMALL ADVERTISEMENTS

CHARGES: Readers', 2d. per word, minimum charge 3s. Box Nos. 1s. 6d. extra. Trade, 6d. per word, minimum charge 7s. All advertisements must be of radio interest only. Add 25% extra for Bold Face (heavy type) announcements. Copy date for next issue, July 8, addressed Advertisement Manager, *Short Wave Listener*, 49 Victoria Street, London, S.W.1.

BRITISH SHORT WAVE LEAGUE (founded 1935)—over 20 departments (QSL Bureau, DX Certificates, Technical Translations, etc.) and monthly *Short Wave Review*. For membership details, send S.A.E.—HQ, 145 Uxendon Hill, Wembley Park, Middlesex.

SALE.—R107. Perfect. Instruction book, £11/10/-, R1116, circuits £6/10/-. Avomitor £3. All carriage paid. BRS1330, Providence Cottage, Misterton, Somerset.

BOUND Volume of *Short Wave Listener*, Volume I containing copies of November 1946 to October 1947 inclusive. Lettered on spine in gold. 25/-.—Box No. 012, *Short Wave Listener*.

QSL CARDS AND LOG BOOKS, APPROVED G.P.O. SAMPLES FREE. ATKINSON BROS., PRINTERS, ELLAND, YORKS.

SWL'S—Here's your chance.—Equipment at **YOUR** price. **CONVERTER**, 5/10/20 metres, EF50-EF54-EC52: 2-stage PRESELECTOR, 11-200 metres, self-contained power pack: Cosmocord **CRYSTAL PICK-UP** (as new): DC **AVOMINOR** (new), 14 Voltage/current/resistance ranges: Philips 5-valve Modern BC Rx, excellent SW band. **YOUR** highest offer secures. Owner must sell, space needed for TV equipment.—62 Belmore Road, Thorpe, Norwich, Norfolk.

Best British Bargains

MICROPHONES. The Tannoy hand mike multi carbon inset in metal case with battery switch in handle, 5/-, post 9d. Moving coil hand mike, 5/6, postage 9d. G.P.O. mike insets, 2/6, G.P.O. mike button, 3/6. Siemens hand mike in bakelite case, 5/-.

BUZZERS. The Tiny Townsend high note wave-meter buzzer, platinum contacts, 5/-. G.P.O. double contact buzzer for long distance signals, 2/6, post 6d. Practical buzzer in metal case, adjustable note, 2/-.

CONDENSERS, ultra short wave variable air condenser, 16 m/mfd Trolitul insulation, ball bearings, as new, 3/6. 3-gang short wave condensers, 4/6, post 9d. .0005 air-spaced condensers, new, 3/-, post 6d.

RELAYS, ex-G.P.O., 30-1,000-2,000 ohms, 2/6 each, bank of 20 G.P.O. relays, 100 ohm coil, operate on 2½v 15 m.a., 2/0/-.

CRYSTAL SETS. The Lesdix Boudoir Crystal Set. Coil wound on bakelite former, variable condenser, semi-perm. detector, bakelite case and terminals, 17/6. Headphones, double with headband and cord, suitable for crystal reception, 5/- pair. Single low resistance headphones, bakelite case, headband and cord, 2/-, post 6d.

WIRELESS CONTROL UNITS, ex-R.A.F., contain Yaxley switch and knob, connection strips, fuse and holder, coil socket and connection, 2/6, postage 9d. Larger model with 2 Yaxley switches and pilot lamp, 4/-, plus 1/- postage.

Please include postage for mail orders.

ELECTRADIX RADIOS

214 Queenstown Road, London, S.W.8

Telephone: MACaulay 2159

WANTED: Copies early issues *Wireless World* (not later 1920), *Radio Review* (any issue), *Amateur Wireless* (not later 1925), *Modern Wireless* (not later 1928), *QST* (not later 1923), *Radio Amateur Call Book* (all issues Vol.1), *Proceedings I.R.E.* (not later 1926). Good price paid for issues in clean condition, unmarked. Offers, with dates and price asked, to:—Collector, Box 013, *Short Wave Listener*.

WANTED: Good battery-operated short-wave superhet, with RF stage, band-spread, BFO and coverage up to 28 mc band. Modified ex-Govt. surplus or junk-built job not required. Receiver must be in good condition and working order; trial or demonstration. Full details and price asked to:—Box 014, *Short Wave Listener*.

ADVERTISER requires rack-mounting (19-in.) Rx for amateur band operation; any leading make, with or without external power. Also rk. mtng. speaker. Panel depth, weight, condition, price and data to Box 015, *Short Wave Listener*.

SALE or Exchange. Trophy 6 Eddystone 358X. BC433, R1196, R1481, 10 watt A.C. amplifier. 3v TRF (Mains). Valves, etc. Offers to Houseman, Snowdon Street, Barnton, Northwich.

WANTED, buy or loan, 1948 copy *C.Q.* describing 4 tube TRF Receiver. Smith, 14 Northend, Southminster, Essex.

OPPORTUNITIES IN RADIO



Get this FREE Book!

"ENGINEERING OPPORTUNITIES" reveals how you can become technically qualified at home for a highly paid key appointment in the vast Radio and Television industry. In 176 pages of intensely interesting matter it includes full details of our up-to-the-minute home-study courses in all branches of **RADIO AND TELEVISION, A.M. Brit. I.R.E., A.M.I.E.E., City and Guilds, Special Television, Servicing, Sound-film Projection, Short Wave, High Frequency and General Wireless** courses.

We definitely guarantee
"NO PASS—NO FEE"

If you're earning less than £10 a week this enlightening book is for you. Write for your copy to-day. It will be sent **FREE** and without obligation.

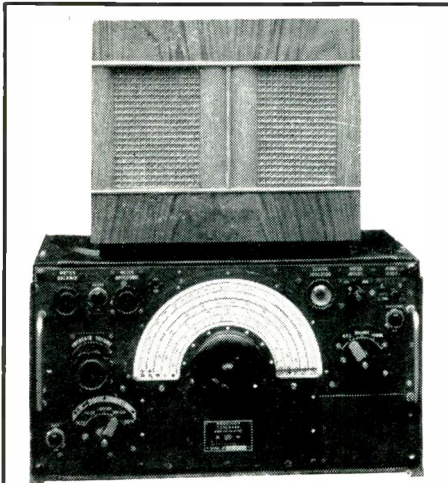
**BRITISH INSTITUTE OF
ENGINEERING TECHNOLOGY**
926 Shakespeare House,
17-19 Stratford Place, London, W.1

BIET

TUSB TUNING UNIT

American Made precision temperature compensated coils and condensers. This can be turned into a v.f.o. which is really stable. The A.R.R.L. gives details of the alterations and we will supply a copy of the details with every unit. Alternatively the TUSB can easily become a transmitter and this Magazine has given details of at least three other units.

Price for this month only is 19/6 plus 3/6 carriage.



STATION R155

A DUAL PURPOSE RECEIVER

This is the way we might well describe the R155 Communication receiver, for with this you can relax and listen to the B.C. or you can search out the weakest station on your favourite band. Frequency range 75 kc/s to 18 mc/s, 10 valves. Black crackle case. Ex-R.A.F. Not new so we have graded them into three classes according to external condition. Class A at £12/10/- being as new, class B at £10/10/- slightly soiled, and class C at £8/10/- being rather well used. Even the class C ones, however, are in thoroughly good working order for all classes have been checked, adjusted and serviced in our workshops. You can't go wrong by buying one of these for it will give you years of useful service. We shall be glad to dispatch a receiver to you if you can't collect, but please add 15/- extra to cover carriage charges, and wooden transit case. If you wish you may return the case, when 7/6 will be refunded.

To save you having to make any fiddling alteration to your R155 we have developed a unit which is a combined mains power pack, loudspeaker GV6 output stage and set switching unit. This is enclosed in a very fine cabinet and stands on top of the set as illustrated. It is fitted with two leads, one plugs into the mains, the other plugs into the receiver. Your R155 is then mains operated, and will work right away without modification. The price of this unit is 27 carriage paid.

If you would like to buy your receiver or station on easy terms, then send only 25% of the price, and carriage, the balance can be spread over 12 months.

VALVES AT BARGAIN PRICES

All are sold on the understanding that any not perfect will be replaced if returned within 7 days.

MISCELLANEOUS TYPES

| | | | | | |
|-------------|-----|-----------------|-----|------------------|-----|
| VR91 (EF50) | 5/- | VR78 (D1) | 2/3 | VR65 (SP61) | 4/8 |
| VU39 (MU12) | 7/8 | VR65 (EBC33) | 5/- | VR65A (SP41) | 3/8 |
| VU11 | 7/8 | VR136 (EF54) | 7/8 | EK32 | 7/8 |
| VR56 (EF36) | 5/- | 9D2 | 5/9 | EL32 | 7/8 |
| VR53 (EF39) | 5/- | 8D2 | 5/9 | SP4 | 7/8 |
| VR54 (EB34) | 3/3 | VR92 | 4/9 | Mazie eye | 6/6 |
| PEN 25 | 7/8 | HL23DD | 6/8 | 2v H.F. pentodes | 7/6 |
| TP25 | 8/8 | 2v triodes | 3/9 | Hivac XH | 6/6 |
| TP23 | 7/8 | 2v screen grids | 4/9 | XP | 6/6 |

CONSTRUCTORS' COLUMN

Here is a list of high-grade goods which are available at very keen prices.

PLEASE NOTE.—That unless otherwise stated all goods are new and unused, and of recent manufacture and not Government Surplus.

ELECTROLYTIC CONDENSERS. (Only new stock from best manufacturers.) T.C.O. HUNTS, DUBILIER, B.I., B.E.C., etc.
 2 mfd. 450v ... 1/2 8 mfd. 350v ... 1/8
 4 mfd. 450v ... 1/3 16 mfd. 350v ... 1/11
 8 mfd. 450v ... 1/11 32 mfd. 350v ... 1/11
 16 mfd. 450v ... 2/8 25 x 25 mfd. 200v ... 3/11
 8 x 8 mfd. 450v ... 3/4 8 mfd. 150v ... 1/3
 8 x 16 mfd. 450v ... 3/4 25 mfd. 25v ... 1/-
 16 x 16 mfd. 450v ... 3/9 25 mfd. 50v ... 1/6
 16 x 8 x 24 mfd. 450v ... 4/9 50 mfd. 12v ... 10d.
 10 mfd. 25v ... 10d.

PHILLIPS wet electrolytics, standard type, can size 3in. high, 1 1/4 in. dia., complete with locking screw for single hole fixing with bottom plate, 32 mfd. 320v, 3/6; 14 mfd. 450v, 2/9.
MIDGET TUNING CONDENSERS. 2 gang -00055, fitted with trimmers, and complete with perspex dust cover. These condensers made by "PLENSEY," are of the type used for tuning personal receivers. Price is 6/6, plus 8d. postage.

4-GANG TUNING CONDENSERS. -0005 each section—fitted trimmers—ceramic insulation. These are complete in a very useful chassis, and are fitted with a drive. Government Surplus equipment but new and perfect. Price 2/9, plus 1/3 postage. Case of six units, 17/8, carriage paid.

2-GANG .0005 CONDENSER. Standard size—ceramic insulation. Price 4/8, plus 9d. post.

CHOKES, IRON CORES L.F. (Surplus). 250 m.a. 10 henry, 9/6; 200 m.a., 6/-; 70 m.a., 4/6; 50 m.a., 3/9.
E.H.T. CONDENSERS (surplus). 1 mfd. 5,000v, 3/9; .02 mfd. 8,000v, 3/9; .02 mfd. 5,000v, 1/6.

PAPER CAPACITORS. We have all types in stock up to .1 mfd., 8d. each; .25 mfd., 8d.; .5 mfd., 11d. Parcel of 36 assorted, no more than two of any value, 12/6.

RESISTORS. Full range in stock, 1 and 1 watt, 4d. each, 1 watt, 8d. each. Parcel of 100 assorted, all useful sizes, no more than two of any one type, 12/6.

"ROLA" 6in. P.M. Speaker, fitted standard O.P. trans., 11/3.
"R. & A." 5in. P.M. Speaker, fitted standard O.P. trans., 15/3.

"ROLA" 3 1/2in. P.M. Speaker, less output transformer, 8/9.

FLEESBY 10in. P.M., fitted standard output transformer, 29/6.

VOLUME CONTROLS—most values in stock—good makes—with S.P. switch, 4/8; less switch, 3/6.

TELEVISION TEST SET. Can you be sure that your E.H.T. voltage is up to scratch, that you are not over-running your condensers or ruining your cathode ray tube? You can if you own television test set. Absolutely essential for obtaining accurate information on E.H.T. supplies. Two ranges, 0-3,000v., 0-10,000v., at 10,000 ohms per v. A reliable instrument of modern design in a neat black crackle case, fitted with special high voltage terminals, connecting leads, and polarity reversing switch, easily portable for service jobs. Sooner or later you will want one of these instruments—why not buy now at the special price of 85/- post paid?

TELESCOPIC DURAL RODS—when extended these measure 9ft., but they can be cut quite easily, and as they are 1 1/4 in. dia. (at the thick end) they make ideal television aerials. Price 7/6 each.

TELEVISION AERIAL. Indoor type—designed for erecting in loft or could be fixed behind the door in a bedroom, attic, etc. Price complete with fixings and instructions, 15/-.

WHITE PLASTIC MASK. Of correct design for 6in. tube. Will make your finished television look much more professional. Price 7/6 each.

MAGNIFIER. Best quality, guaranteed not to discolour. Price 38/6.

MAINS TRANSFORMERS. Usual 6-3 and 5v heaters 300-0-300 h.t. 60 m.a., 13/9; 80 m.a., 16/6; 150 m.a., 27/8; 200 m.a., 32/6.

AMERICAN TYPES

| | | | | | | | |
|------|------|---------|------|-------|------|--------|------|
| 0Z4 | 13/3 | 654 | 9/6 | 6L7 | 9/6 | 12SK7 | 8/- |
| 1R5 | 7/8 | 6B7 | 10/2 | 6X7 | 10/- | 12SQ7 | 8/8 |
| 184 | 7/8 | 6B8 | 6/- | 6A7 | 6/6 | 12SR7 | 8/6 |
| 185 | 5/- | 6C6 | 6/8 | 6SH7 | 6/- | 14F6 | 9/8 |
| 1T4 | 10/2 | 6D6 | 6/8 | 6SK7 | 6/6 | 21L6GT | 7/8 |
| 2A7 | 10/2 | 6F6 | 6/8 | 6SL7 | 13/3 | 23Y5 | 10/- |
| 5T4 | 6/- | 6GG6 | 6/8 | 6SN7 | 6/- | 23Z6T | 7/8 |
| 5U4 | 7/8 | 6H6 | 3/8 | 6SG7 | 6/8 | 80 | 10/- |
| 5V4 | 13/8 | 6J6 | 12/8 | 6V6 | 7/8 | 83 | 8/- |
| 5Z3 | 13/8 | 6J7 | 7/8 | 6X5 | 6/8 | 89 | 8/- |
| 5Z4 | 7/8 | 6K7G | 7/8 | 6X7 | 7/8 | 897 | 7/8 |
| 6A3 | 10/6 | 6K7GT | 9/8 | 12A6 | 6/- | 84/6Z4 | 8/- |
| 6AC7 | 6/- | 6K7 MET | 7/8 | 12K7 | 8/6 | 1299A | 9/4 |
| 6AG5 | 6/- | 6K2 MET | 7/8 | 12K8 | 8/6 | 9001 | 8/- |
| 6AG7 | 6/8 | 6L6G | 10/- | 12SH7 | 7/- | 9002 | 8/- |

Add 9d. for Post and Packing if under £3/-/-.

W. D. SALES

3 Electron House, Windmill Hill, Ruislip Manor, Mdx.

Largest stocks,
Best Selections
and Bargains in Hi-Service Radio and Electronic Equipment

CLYDESDALE

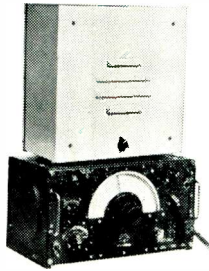
Ex-R.A.F. RI155

As a 9-valve communications receiver for 200/250v A.C. Mains.

Receiver Unit with 7 valves, VR99 (X65), 3/VR100 (KTW61), 2/VR101 (DH63), VR103 (Y63ME), 5 switched bands:—18-7.5 mcs. (17-40 metres), 7.5-3 mcs. (40-100 metres), 1,500-600 kcs. (200-500 metres), 500-200 kcs. (600-1,500 metres), 200-75 kcs. (1,500-4,000 metres). S.M. drive, BFO, AVC, MVC, etc., metal case, $6\frac{1}{2}'' \times 9'' \times 9''$.

Power/Output Pack with 2 valves EL35, U50 8" mains energized speaker, mains trans., output trans. Tone control and ON/OFF switch, metal case, $14'' \times 14'' \times 7''$. Complete with circuits and linking cables, plugs, etc.

Clydesdale's **£18/10/-** Carriage paid
Price Only both units



Brand New

Mains Transformer, 0-250v

ES42. Ideal for RI355 Rcvr. Pri. 0-250v. Tapped 200, 220, 240v. Sec. 350-0-350v 100 m.a. Capable of delivering up to 150ma. with slight temperature rise. 6.3v 6A., 5v 2.5A. Size: $4\frac{1}{2}'' \times 4\frac{1}{2}'' \times 4''$. Weight 12 lbs. Clydesdale's **30/-** Carriage paid
price only

EHT Transformer

ES31. Ideal for VCR-97. Pri. 0-250v. Tapped 200, 220, 240v. Sec. 2,000v, 5 ma., 4v 1.1 amps., 2.0-2v 1 amp. Upright mtg. Dim. $3\frac{1}{2}'' \times 3\frac{1}{2}'' \times 3''$. Clydesdale's **29/6** Post paid
price only

ES39

Pri. 110, 125, 145, 200, 220, 240v. Sec. 255-0-255v at 65 ma., 6.3v at 3.5 amps, 4v at 2 amps. As used in Philips 120A and 186A. Upright mtg., size $4'' \times 3\frac{1}{2}'' \times 3''$. List price £1/16. Clydesdale's **16/6** each
price only

Output Transformer Choke

ES40. Speaker transformer with feed back winding. Pentode output with smoothing choke on same core 35 ma. As used in Philips 170A and 186A. Upright mtg., size $1\frac{1}{2}'' \times 2\frac{1}{2}'' \times 1\frac{1}{2}''$. List price 18/11. Clydesdale's **5/6** each
price only

Ex-British Army

Teleonic Xmtr Rcvr. YA4911-YA4915

Designed for the transmission and reception of audio frequencies. No R.F. is employed. The Transmitter unit YA4911 with valves 2 ARP12's (VP23), 2 ATP4's (V248A) (loop aerial not supplied), H.T. VI. 60v. VC. 120v, V3 and 4 180v, L.T. 2v. Space for batteries is provided inside. Size $14\frac{1}{2}'' \times 11'' \times 8''$, fitted with handles, khaki finish. The receiver unit YA4915 with valves 3 XH1.5v (HIVAC), 1 XP1 5v (HIVAC) which are in series parallel for 3v fil. supply, H.T. 67.5v, space for batteries is provided inside the unit. Dimensions $7'' \times 6'' \times 2''$, finish khaki, with pick-up coil.

Clydesdale's **£3** price only for both units with Rcvr (PU) coil only. Receiver and PU coil, 34/6.

Co axial Cables

any length supplied

12mm. 52 ohms, solid core at 6d. per yd., minimum 20 yds., 10/-, post paid.
12 mm. 80 ohms. Airspaced core at 9d. per yd., minimum 20 yds, 15/-, post paid.
12 mm. 90 ohms. Airspaced core at 7d. per yd., minimum 20 yds., 11 8, post paid.
10 mm. 110 ohms. Airspaced core at 7d. per yd., minimum 20 yds., 11 8, post paid.

New, Ex-R.A.F.

Battery Amplifier, A1368

A 2-valve, 2-stage amplifier, for inter-com. and Xmtr mod. pre-amp. Complete (less batteries) in black metal case, $7'' \times 4\frac{1}{2}'' \times 4\frac{1}{2}''$. Improved version of A1134, H.T. 120v. G.B. 6v. L.T. 2v

11/6 each

Brand New

R.C.A. Vibrapack

E.952. Input 6v. Variable output, 200-240v 40-50 ma. Controlled by 4-position output switch, complete with 6p UX synchronous vibrator OZ4 rectifier, in metal case, $4\frac{1}{2}'' \times 4'' \times 6''$. Clydesdale's **29/6** each
price only

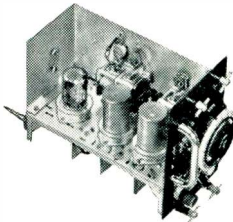
Brand New. In maker's cartons Ex-U.S.A.A.F.

Mallory Synchronous Vibrapack

E.953. Input 12v, output 250v 70 ma. (unsmoothed). Complete with 6-pin synchron. vibrator, etc., in metal case. Dim. $5\frac{1}{2}'' \times 2\frac{1}{2}'' \times 5''$.

19/6 each

ALL GOODS CARRIAGE OR POST AND PACKING PAID



Ideal as

Short Wave Converters

Brand New in maker's carton

R.F. Unit, type 26, for 65-50 mcs. 5-6 metres. R.F. Unit type 27, for 80-65 mcs. 3.8-5 metres.

Clydesdale's **35/-** each
price

Variable tuning 2/VR136 (EF54). VR137 (EC52). Output approx. 7-8 mcs. in metal case $9\frac{1}{2}'' \times 7\frac{1}{2}'' \times 4\frac{1}{2}''$.

Also a few used R.F. 27's at 19/6 each.

All goods advertised or in our list can be ordered from any of our branches in England and Northern Ireland or direct from:—

CLYDESDALE SUPPLY CO. LTD.

Send now for new illustrated lists. Please print Name and Address.

2 BRIDGE STREET
GLASGOW - C.5.

Phone : South 2706/9