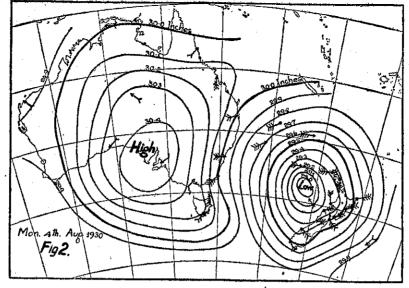
Weather Reports

(Continued from page 2.) south-west and stormy, dull and wet weather is more persistent than with a depression of the westerly type. In conclusion I may add that the

Meteorological Office has printed forms on which the reports may be written as they are received. These forms include a map of the New Zealand and Tasman Sea area and by means of them those interested can draw their own weather charts. The forms are printed in books of 100 and may be obtained from the Meteorological Office, Wellington, at cost price, which amounts, with postage, to 4/-.

Appendix.

N order to render the above remarks more intelligible and to give a more permanent record, two specimen weather charts have been added in figures 1 and 2. Figure 1 actually shows the chart for 9 a.m. on Saturday, the day on which the address was given. In a figure on so small a scale it is not possible to include all de-tails, so that the isobars and a few indicate the strength of the wind on a more pronounced westerly type is the "Beaufort Scale." An arrow with located south of Victoria. eight feathers represents a gale, one with four feathers a moderate breeze,



of an arrow means that rain was falling at the time of observation. The chart shows anti-cyclones just coming on to Western Australia and over the North Tasman Sea respectively. A of the wind arrows only are shown rather sharp V-depression has just The number of feathers on the arrows crossed New Zealand, while one of

The first - mentioned depression brought only light and scattered showand so on. A black dot at the point ers which fell for the most part in

districts with a westerly aspect.

Figure 2 shows the chart for August 4 of this year. A very good example of a cyclone is located west of the North Island. The isobars curve round a centre of low pressure, around which the winds blows in a clockwise direction The isobars are close together, or, in other words, pressure gradients which is an intense one, the pressure being over 30.40 inches at its centre. This illustrates the fact that an intense anti-cyclone frequently has cyclone to one side of it. The weather in Australia, except along the coast, is fine with light winds.

RADIO DIRECTORY

What to Buy and Where

CITIES

ACE and HAMMARLUND SETS, Johns, Ltd. WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BROWNING DRAKE SPECIAL. F. J. W. Fear & Co. ISTS 63 Willis Street, Wellington.

BURGESS RADIO BATTERIES, All Radio Dealers. KING RADIO RECEIVERS ... F. J. W. Fear & Co.,

63 Willis Street, Wellington

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,

Courrenay Place, Wellington,

MAJESTIC RADIO RECEIVERS Kirkcaldie & Stains,

Wellington Agents, Lambton Quay.

MULLARD VALVES All Radio Dealers,

PILOT 1930 PARTS-PILOT Harrington's, N.Z., Ltd., SUPER WASP KITS, GILFIL- 138-140 Queen St., Auckland. 40-42 Willis St., Wellington. LAN, KELLOGG and AT-WATER KENT SETS

RADIOLA RECEIVERS

Expert Radiola Service.

and Farmers' Trading Co., Lto., Hobson Street. Auckland.

STEINITE RADIO G. G. Macquarrie, Ltd., 120 Willis St., Wellington.

COUNTRY TOWNS

MAJESTIC Radio House, Hamilton. G. S. Anchor Manager,

PHILIPS VALVES AND APPARATUS All Good Radio Dealers.

Questions and Answers

(Continued from page 13.)

your resistances, and if necessary have

plies to the case in question.

2. How far apart should be the windings on the coils?—1-8 inch.

3. What is the coreret way of tuning?

A.: The dial is turned round with the set oscillating, and when the whistle is brought in reaction is slackened until the whistle disappears. Then reaction and tuning are adjusted until the signals are heard. To receive Morse, the set must be oscillating. To receive broadcast it must be on the verge of oscillation.

M. L.K. (Wellington). Can the super heterodyne super short-wave receiver described by "Cathode" be employ-Can the super

ed before a super heterodyne receiver?

A.: No, it is entirely unsuitable for such a receiver.

BRASSPOUNDER (Ngukuhau). Could you give details for a c.w. transmitter, and how to get started in the

A.: We are at present arranging for a series of articles in this direction.

QUALITY (Auckland). Is it worth while changing a A425 to a screen grid?—Yes.

2. Will the 3002 eliminator supply suffi-

extra drain on the eliminator, which is altogether unwarranted, as the g.p. valve can accommodate the grid swing required

an accommodate the grid swing required in the first audio.

3. Which would be the correct output transformer to use with a dynamic speaker, OP3C or 4C?

A.: Use 3C, and take out the transformer already in the speaker.

MOIWHARE (Fellding). Would the Daniel cell charger keep my 120 amp. low accumulator up to scratch?

A.: You appear to be using low con-sumption valves, and if you do this it should keep it well charged. Leave the charger on continuously.

RAY DIO (Shannon). Can the super het, receiver described by "Cathode" be used as a d.c. receiver?

A.: Yes; the only changes necessary

1. The filament circuit of the two valves is completed in the ordinary way, and brought out to two terminals for connec-

tion to the batteries.

2. The grid return of the first detector is made to A plus.

3. The grid return of the oscillator is taken to A minus. Otherwise the receiver can be set up exactly as it is.

Modernised Cleaning

SINCE the beginning of broadcasting one of the problems of a transmitare steep, and the winds are therefore ter has been that of freeing the insustrong. The easterly tendency of the lators from soot or dust. As many winds in New Zealand and the wet listeners know this materially affects weather will be noticed. Over South the aerial. In some of the biggest Australia is centred an anti-cyclone stations the only methods have hitherstations the only methods have hitherto been to lower the aerial wires, and, this was frequently most inconvenient. An American station, WOR, has developed an idea by which a balloon to which are attached special brushes is hoated against the insulators. By allowing the balloon to rise and moving it about the insulators they are most effectively cleaned.

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopenes for every other word thereafter.

A. P. (Otahu). If you are in doubt 22 EAGLE Midget Electric Radio, about the wiring of any circuit, follow the theoretical diagram. This applies to the case in question.

This applies to the case in question.

H. Co., 553 Colombo St., Christchurch.

OBESITY! One lady reduced from 13st. 8lb. to 10st. 8lb. with Youth-orm. 6/6 posted. A. C. Timms, O-Form. Chemist, Pahiatua.

£30 up rich-toned Metrodyne "Sterling" Screen-Grid 8, 10in. Dynamic—Distance and volume second only to "Commander." R. H. Co., Christchurch.

FIGURE reduced 20lb. 6 weeks with Youth-O-Form Capsules without dieting or exercise. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

STALLOY-TRANSFORMER. — Strips 36 x 1 inches, 2/- doz. Other widths proportional. Also supplied cut, punched. Special quantity quotations. Johns, Ltd., Chancery Street, Auckland.

GIRLISH figure can be retained by you if you take Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist,

Pahiatua.

64 Stations on Metrodyne Screen Game (Commander" — Americans, Japs, China, Hawaii. List available. From £35. R. H. Co., 553 Colombo St., Christchurch.

cient current for a four-valve set using two 405's in the last stages in pushpull? I am using 406 as second audio.

A.: Yes, but use a 409 instead of B406 in the first audio. You are placing an Box 893, Auckland.

**TOFTIN-WHITE Amplifier, new, with valves, Ferranti Output Transforment, genuine Electrad resistors. Demonstration given. Bargain at £10. Dent.