m had a mark and a manage.				
2XAL	30.91	**	New York (short wave, WRNY).	
,				
EAT	30.7	••	Madrid.	
LG	30	• •	Bergen (Norway).	
2FC	28.5	18	Sydney.	
$rac{8XK}{2XAG}$	$\begin{array}{ccc} & 27 \\ & 26.92 \end{array}$	40	Pittsburgh. New York.	
2XAB	26.92	• •	New York.	
58W	24	15	Chelmsford, England.	
· •				
2XAA	22.99	9.8	Houlton (Maine).	
WQWO	22.8	1	Fort Wayne (Indiana).	
•	22.2	0.24	Vienna.	
2XE	22.1	& S	Richmond Hill (N.Y., S.W. of WABC).	
2XAD	21.96	4 8	Schenectady (New York).	
PCLL	18	9 0	Kootwijk (Holland).	
\mathbf{AGC}	17.2	១ 	Nauen.	
ANH	17	30	Bandoeng, Java (Radio, Malabar).	
2XG	16.02	6 D	Rocky Point (Long Island).	
ANE	15.93	15	Bandoeng, Java (Radio, Malabar).	
	nd him this		3T	

Daily, 3.30 a.m.-5.30 a.m. and 11.30 p.m.-1.30 a.m.; M., 6 a.m.-11 a.m.; T., 6.30 a.m.-11.30 a.m.; W., 11.30 a.m.-4.30 p.m.; Th., 6.30 a.m.-1.30 pm.; S., 6.30 a.m.-3.30 p.m.; Sun., 1130 a.m.-2.30 p.m.

T. and F., 5.30 a.m.-7.30 a.m.

Daily, except Sun. and M., 12 p.m. to 1 a.m., and from 6.30 a.m. to 10.30 a.m. M., 12 p.m. to 1 a.m.; and S. 6.30 a.m. to 10.30 a.m. After 9.30 a.m.

After 9.30 a.m.

After 9.30 a.m.

M., 9 a.m., 2 p.m.; T., 5.30 a.m.-7.30 a.m.; 9.30 a.m.-3.30 p.m.; Th., 9.30 a.m.-3.30 p.m.; F., 5.30 a.m.-9.30 a.m.; S., 9.30 a.m.-3.30 p.m.

Th., 1.30 a.m.-3.30 a.m. and occasionally T. and S.; relays proceedings of League of Nations.

Sun., 12.10 a.m. till 2.10 a.m. T. and S., 3.30 a.m.

W., Th., and F., 5.10 a.m.-7.10 a.m.

2AJ, Wellington, was heard testing His audience appeared to agree with time, at R5. Some of his talk soundon the 30-metre band.

.. 15.5

Sunday, September 16.

Conditions must have been bad for DX. 2XAF at its best was not more than about R4. This was the only distant station heard till RFM was on the air during the evening. Static on this ad was very bad.

Monday, September 17.

3LO was tuned in at 6.15 a.m., when all that could be heard was "Hullo" at times, and some morse V's. The session commenced with the time from Melbourne Observatory at 6.30 a.m., followed by the announcement that the programme was for one hour only. Volume R9 with bad fading. After 7 a.m., fading was not so bad, reception being much better.

Tuesday, September 18.

58W was very good. Just before 6 At 6.15 a.m. a flute recital was heard. very stea? : RFM was R5 during the evening. Static very bad.

not audible.

Wednesday, September 19.

From 5.15 a.m. till 7 a.m. PCJJ came in at even volume of about R8. Several

Big Ben was heard from 5SW at towards 7.30 a.m. 5.30 a.m., followed by a lady talking about British Red Cross work. Seventy- lowed by a talk on novels by a lady.

the next day's programmes were read. at Manchester, I think. The talk that

A political talk by Governor Al. about golf. Strength R8. Smith was heard from the City Auditorium, —, Nebraska, through 2XAF. The Jap. was on about 35.5 metres this

all he said by the way he was cheered. ed like a Maori haka. His concluding sentence was: "There 6, that is an overwhelming Democratic were spoilt, probably on account of finished at midnight, Eastern daylight of wind was blowing. saving time (3.30 p.m. here).

Nancy, France.

times. The programme of this station the way round. is often relayed by JHBB on various short-waves.

2HC New South Wales, and 3(JR)? Victoria, were also heard testing.

Thursday, September 20.

5SW at 6 a.m. was R7, but rapid fading spoilt reception. The Wireless Band gave some items from 6.15 a.m.

A voice was heard on about 44 metres, but static was too bad to understand anything, even if it was English spoken.

At 8 p.m. a call was heard "Victora.m. some songs by a choir were en- ian Experimental Station 3(GP)? testjoyed. This was followed by a talk ing." The letters sounded different by the headmaster of Christ's College each time they were given. R5, static on "Education and Unemployment." bad. 7CW Hobart came in well on This was 95 per cent, readable at R8, about 33 metres. Strength R5, and

RFM was R5 with a strong ripple.

The Jap. was heard on about 60 At 11 p.m. the carrier of 5SW was metres this time. I don't know if it is always the same station, but he transmits on several wavelengths.

Friday, September 21.

PCJJ from 5 a.m. till 7.30 a.m. was items by Mr. —. Dutch pianist, were very good. Strength fairly even all through at R7-8, decreasing slightly

58W commenced with Big Ben, fol-

five of cent. readable at RS. Volume 5.45 a.m.-6 a.m.: Concerted items remained at this till about 7 a.m. were heard. 6 a.m.: "London and EDK, was tuned in at 2.30 p.m. Daventry calling" was called. Some-Baseball results, weather forecast, and thing was said about a golf conference followed 75 per cent. readable, was all

RFM was about R5 and very rough.

5SW from 11 p.m. was R4—quite can be only one decision on November strong for this transmission. Signals majority." (Loud cheers.) The talk swinging aerial at this end, as a gale

These late evening transmissions A Jap., probably JHBB, on about 31 from 5SW are gradually improving in metres, was heard at R8 during the strength. It is of course midday at the evening. He shouted JOAK several other side, and daylight at least half

Correct Neutralising.

Causes of Failure.

builders that preliminary experiments with various forms of neutrodyne circuits, or other receivers, such valves of one type or make are replaced as the Browning Drake, embodying the with a different type.

disappointing. Neutralised radio frequency receivers as a type are probably more widely used than any other type of receiver, except, perhaps, the crystal receiver, and their efficiency when properly constructed and adjusted is never doubted. Quite the most common cause of failure in home-made neutrodyne sets is incorrect adjustment of the neutralising condenser. The purpose of this condenser is to compensate for the unavoidable capacity which occurs in the receiving valves, and to a lesser extent in other parts of the circuit, but to be effective its adjustment must be made with great exactness. The effect of the accidental and unavoidable capacity in the radio frequency amplifying valves and associated components is virtually to form a partial short circuit across the radio frequency amplifier, with the result that energy picked up by the aerial is passed more or less completely to the detector valve without being properly amplified by the Great loss of sensitivity amplifier. results. The method of adjusting the neutralising condensers to avoid this effect is simple. The receiver is tuned in to a fairly strong local station, and the filaments of the radio frequency amplifying valves are then turned off. It will be found that signals from the local station will still be heard, though. generally at considerably reduced vol-The neutralising condenser is then adjusted until the signals disappear or become so faint that they are practically inaudible. If more than one valve is used in the radio frequency amplifier, first one valve should be adjusted. When signals are cut off by the adjustment of the neutralising condenser on the first valve, that valve should then be lighted, the second still being turned off. It will be found that signals will again become audible, and the second valve should then be adjusted until they disappear again. The receiver will then be completely neutralised. It should be borne in mind that it is generally necessary to make a slight readjustment of the IT is common experience among home neutralising condenser if the radio frequency amplifying valves are changed. This will certainly be necessary if

capacity neutralising principle, are

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