

Mr. F. W. Sellens (Northland) writes:

A SHORT-WAVE broadcasting station has recently been erected in Copenhagen. This station belongs to one of the leading wireless papers in that city, and was built, and is operated entirely, by the technical staff of this periodical. Test transmissions are being carried out on a wave of 78.5 metres on Tuesdays, Thursdays, and Saturdays, between 11 a.m. and 1 p.m. New Zealand summer time. Reports are asked for to be sent to "Radio-posten," 10 Snaregade, Copenhagen K., or via RSGB—EDR.

It is also reported that the Norwegian Broadcasting Company "Kringhastingselskapet," will in a few weeks commence short-wave transmission on a wave-length of 30 metres from Bergen, Norway.

2ME, Sydney, during a talk to 2XAF, one evening recently, stated that AGB, Nauen, Germany, would be transmitting telephony on 26.3 metres about next February. 2ME were heard calling this German station last week and arranging a schedule for the following day.

I SPENT the last week-end in Christchurch, and was able for the first time to compare reception on short-waves in that city with Wellington. With the short-wave receiver owned by Mr. R. T. Stanton, Sydenham, it was possible to bring in stronger signals than is possible in Wellington, that is, using the same number of valves, detector, and two audio. In talking with an operator with knowledge of reception in both cities, he said that to listen in Christchurch was equal to another valve compared with Wellington. This, I should say, is about the difference, judging by results during my brief stay.

There has been plenty of static during the past week. 7LO, Nairobi, has been heard several times, but is seldom free from static and morse interference.

#### Saturday, October 20.

5SW was R7 at 7.30 a.m. Static very bad. 2XAD at 1.30 p.m., when first tuned in, was R2. This increased to R8 by 4 p.m., and remained at that till signing off at 5.3 p.m.

Mr. Al. Smith, the Democratic candidate, was speaking at Chicago till 3 p.m. This was heard from both 2XAD and KDKA. The band of the 131st Regiment were heard after the speech. The last hour was devoted to dance music from the Hotel St. Regis Roof Orchestra.

KDKA was not readable till about 2.30 p.m., when it was found they were broadcasting the same political talk as 2XAD. They afterwards relayed a programme from the Italian Room, William Penn Hotel. Strength R7 when signing off at 4.37 p.m.

PCJJ was held from 4 p.m. till 6

## Round the World on Short Wave

Notes of special value to short-wave enthusiasts are contributed weekly to the "Radio Record" by Mr. F. W. Sellens, Northland, Wellington. Observations from others are welcomed.

p.m., the maximum volume being R6. Static was very bad.

2AJ, Wellington, was the only amateur heard.

#### Sunday, October 21.

2BJ, Wellington, was heard in Christchurch at 2 p.m. at R6. 2XAF was quite good speaker strength from 4.30 p.m. till 5 p.m. with dance music. After this, a television test was carried out for the benefit of Canadian amateurs.

The announcer gave the names of the people to be "televised," some artists of WGY. He said the "lookers in" would see their faces "if they were lucky."

KDKA were heard, but were much weaker than usual.

6AG, Perth, came in well at good strength, as did RFM, but static was too bad for enjoyable reception.

#### Monday, October 22.

3LO, Melbourne, was good volume from 8-9 a.m., but was marred by static.

#### Tuesday, October 23.

At 9.50 p.m. 3ZK, Victoria, came in very good at R8, being 100 per cent. readable.

#### Wednesday, October 24.

PCJJ from 5 a.m. till 5.30 a.m. was at its best, being R8. After volume began to decrease, being R5-6 at 7.45 a.m. At 5.20 a.m. 7LO, Nairobi, at R4-5, was good. There was slight rapid fading. Static was not so bad as usual on this station, but morse interference was as bad as ever.

5SW started at 7 a.m. with Big Ben. A talk by a lady followed. The title of her address was not heard, but it was about women and work. At 8 p.m. 2XAF and 2ME were picked up, testing duplex telephony. The Australian station was the strongest at R9, 2XAF being about R8. The power of each station was stated to be about 18 kilowatts. 2ME told the Yank that they were going to broadcast "Australia's greatest horse race, the Melbourne Cup" on November 6, at 3 p.m., Sydney time, on this wave-length (28.5 metres). At 10.30 p.m. ANE, Java, 15.93 metres, joined in with talks to 2ME and some music. Strength R8. 7CW, Hobart, Tasmania, was testing.

#### Thursday, October 25.

5.30 a.m., 7LO, talk was heard at R4. Static was as loud.

PCLL was R7, transmitting gramophone records. Static very bad.

At 7 a.m. the Chelmsford station

opened up with "5SW, Chelmsford, now going over to London for the chimes of Big Ben and the programme of that station." The striking of the clock was followed with a talk by Sir Edward Crow.

3ZC, Christchurch, was testing on 50 metres during the evening.

6AG, Perth, on 32.5 metres, was good strength, but spoilt by morse.

ANE, Java, at R7-8, was very clear and steady with some musical items.

#### Friday, October 26.

PCJJ was excellent from 5.30 a.m. till 7.30 a.m. Strength from R8 to start, and R6 at 7.30 a.m. 5SW and 2XAD were chatting at 5.30 a.m. Only the English station could be heard. This test finished before 6 a.m. At 7 a.m. Big Ben was heard, followed by a talk by Lady — about country life.

At 7.25 a.m. TXAD was heard at R4 transmitting orchestral music. A station, probably KDKA on 25.4 metres, was also heard about 7.30 a.m. at R3 with rapid fading. 2ME at R8 and 2XAF at R7-8 were tuned in at 6.45 p.m. There was some static, which was very bad in Sydney, as 2ME were heard to say that it was hard to read 2XAF as static was maximum.

Later, ANE came into the conversation, calling both 2ME and 2XAF. The Java station on 15.93 metres was the only one free of static.

3QT, Victoria, just above 33 metres, was good at R5. 12.30 a.m. Big Ben striking the half-hour, followed by organ music without any announcement. R5.

#### Another Report.

Mr. J. D. O'Loughlin (Masterton) writes:—On Sunday, October 21, 2XAD was the loudest I have heard him for a long time. He was very steady and the programme enjoyable. The "Lucky Strike" cigarette people put over an hour of variety entertainment. At 5 p.m. a 40-minute television broadcast for Canadian listeners was commenced. A strong ripple was superimposed on the carrier. Amateurs heard included 3CM, 2AH, 2GA, 2BI, 2AK (?) and 2AB. 3LO was R8 on Monday morning. 2XAF and 2ME were testing on Monday night. Static was very bad. ANE was also working 2XAF, atmospherics being entirely absent on his wave.

PCJJ was very enjoyable on Wednesday and Friday at R8. 2ME and 2XAF were again testing on Wednesday at 7.45 p.m. 1AJ at R8 and 3AR at R9 were also on the air. PCLL and 7LO, Nairobi, were heard, but were spoilt by Morse. Two Australian amateurs, 2HC and 2GQ, Canberra, also came over well.

This evening—Friday—at 5.45 2XAF at 9 is calling 2ME and playing records.

#### Shortwave Time Signals

THE Dominion Astronomer (Dr. C. E. Adams) advises: "The following information has been received with reference to short-wave time signals:—  
(1) From the Hydrographer of the

Navy, Admiralty, London, announcing the establishment of a time signal from the Chelmsford (5SW) station on a wave-length of 24 metres, power 20 k.w. The signal is sent twice daily except Saturdays and Sundays from the Greenwich Observatory at 13h. and 21h. G.M.T.—one hour earlier during the period of British Summer Time. The signal consist of 6 dots of one second interval, the commencement of the final dot being the exact hour.

(2) From the United States Naval Observatory, Washington, D.C., on 74.7 metres at 03h. and 17h. G.M.T. and on 37.4 metres at 03h., 08h. and 17h. G.M.T. Call sign NAA. The signal is the usual American one as described in (3) below.

(3) From the Elgin Observatory, Elgin National Watch Company, Elgin, Illinois, United States. Call sign WNBT on a wave-length of 33.5 metres. The signals are sent in accordance with the following programme:—

0 hrs. G.M.T. daily, except Saturday and Sunday.

6 hrs. G.M.T. daily.

14 hrs. G.M.T. daily, except Sunday.

16 hrs. G.M.T. daily, except Sunday.

18 hrs. G.M.T. daily, except Saturday and Sunday.

20 hrs. G.M.T. daily, except Saturday and Sunday.

22 hrs. G.M.T. daily, except Saturday and Sunday.

The signals at 06h. G.M.T. has been frequently heard at the Dominion Observatory and elsewhere in New Zealand. The signals begin in each case exactly 5 minutes before the hour stated in the table and consists of a regular series of dots every second with the twenty-ninth, fifty-fifth, fifty-sixth, fifty-seventh, fifty-eighth and fifty-ninth omitted.

I shall be obliged any of your readers who hear these signals would kindly report to the Observatory.

WIDESPREAD interest has been created by a system of vocal contact maintained by Vancouver with coastal vessels operating on that coast. From an experiment attempted in 1919 this means of communication has become an effective and reliable means of communication between owners and their ships or tugs as is usually the case. The sets are constructed in such a manner to make tuning unnecessary. The transmitting station calls up the tug in question by name and anyone near the speaker or 'phones is able to take the message and to reply. Certified government operators are unnecessary. Both land and sea-tugs have a daylight range of 60 miles and under favourable conditions 140 miles. It is considered that the system has great possibilities, and it should be possible to maintain telephone communication with ocean-going liners in the near future.

IN Des Moines, Iowa, music from a local broadcasting station was emitted by the signal box indicating the floor numbers in the car of an elevator.

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