

Transmissions on 7 Centimetres.

EXPERIMENTS in transmission on wave-lengths as short as 7.12 and 19 centimetres have recently been conducted by Professor Protoff, of the Soviet State Laboratory at Nijni-Novgorod.

According to the Russian "Radio Journal" Professor Protoff's signals have been heard clearly at distances of several thousand miles, with a transmission power of only 20 watts.

Trans-Atlantic Short Waves.

EXPERIMENTS have for some time been going on between KDKA (Pittsburg) and Nauen, Germany, in order to find out whether two-way conversations between these two countries are practicable under varying weather and electrical conditions. The tests usually take place between 7 and 8 a.m., New Zealand summer time.

Short-Wave Picture Transmission.

EXPERIMENTS in "Fultography" picture transmission on short waves are being conducted at Vienna. These tests, which enable definite comparison to be made regarding the relative ranges of telegraphy, telephony, and picture telegraphy, take place daily on a wavelength of 41-42 metres. The call sign is VOM, and the following schedule is observed (N.Z. time in parentheses):—Telegraphy: 10.10 a.m. to 10.20 a.m. (10.10 p.m. to 10.20 p.m.); telephony: 10.20 a.m. to 10.30 a.m. (10.20 p.m. to 10.30 p.m.); picture telegraphy: 10.35 a.m. to 10.45 a.m. (10.35 p.m. to 10.45 p.m.). In the afternoon a similar transmission takes place at 3.10 p.m., continuing until 3.45 p.m. (3.10 a.m. till 3.45 a.m.). Reports on reception will be welcomed by Fultograph Gesellschaft, M.B.H., Austria, IV Prinz Eugenstrasse 10, Vienna.

Short-Wave Station, Essen, Germany.

FURTHER particulars are to hand about this new high-power station from an English radio magazine as follows: "The short-wave station at Zeesen, using the wavelength of 31.38 metres on a power of about 8 k.w., has relayed the Berlin and Königswusterhauser evening programmes regularly since August 26. The relays have hitherto been confined to musical items. An exception was made on the morning of September 4, when the arrival of the Graf Zeppelin at Friedrichshafen was broadcast for the benefit of American stations, which relayed the item. Good reception is reported from America, as also from Russia, where the Zeesen station has been heard on quite small sets. The transmissions are still experimental, and for this reason no call sign has been given."

Are You Satisfied with Your Reception?

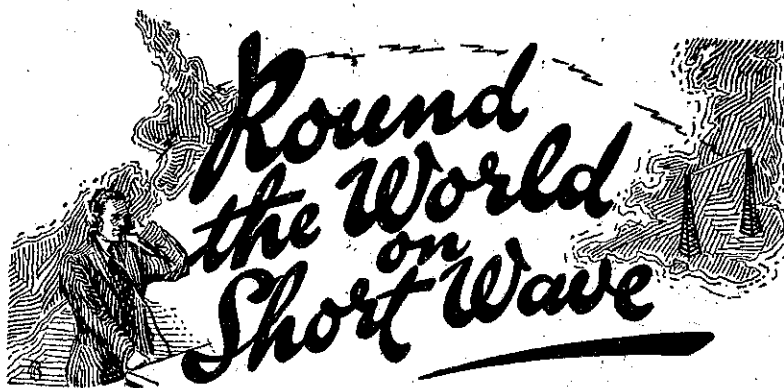
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Reception During the Week.

CONDITIONS are still bad for reception of American stations during the afternoon. This appears to be general, according to reports received by correspondents. A friend suggested that the wavelength of each station reported be included as a guide to new listeners.

RA97, Siberia (70 metres), has been spoilt by severe static on several evenings. Strength has been good, average R8-9.

W9XF, Chicago, 49.83 metres, is not audible much before 5 p.m., after which volume increases rapidly. Each evening, except Monday, they transmitted till 8 p.m.; on Monday they closed at 7 p.m. Static was bad on this station early in the week.

W2XAF, Schenectady, 1.4 metres. On Saturday and Sunday afternoons this station could not be heard, but on several mornings they have come in at good strength, but with a noisy background. On Saturday, from 11 p.m., they were R8, but very rough.

PCJ, Eindhoven, 31.4 metres, came at good strength both on Friday and Saturday, when they commenced at 6 a.m., but went off very rapidly. On Saturday afternoon they were not audible till nearly 5 p.m., and only reaching about R4-5 by closing time, 6 p.m.

Zeesen, Germany, 31.38 metres. I have been unfortunate with this station; they appear to have altered their hours of transmission. On Wednesday they closed at 6 a.m. after several orchestral items were received perfectly at R8. At 5.35 a.m. on Friday, after an announcement, a gong was heard, followed by "Hullo, hullo—Radio—" in another voice, and, I think, in another language. This was apparently the commencement of a relay of another station. An orchestral item followed, which was received at R8-9; this item, lasting 15 minutes, was loudly applauded at the conclusion. After a slight pause, the gong and another announcement was heard, followed by more orchestral music. They closed down about 6 a.m. On Friday, a talk concluded at 5.30 a.m., followed by orchestral music till 6 a.m., when they closed. Reception again was R8-9. This is the best station received just now, but is too early for the average listener.

7LO, Nairobi, 31 metres, has only been just audible each morning till 7 a.m.

VK2ME, Sydney, 28.5 metres, duplex with GBX, England, 27.5 metres (about) are heard almost every morning and evening.

KZRM, Radio Manila, 26 metres (approximately). On Sunday the Constabulary Band was heard from 6 p.m., after the studio chimed, at R8-9, static being very bad. Every evening, except Monday, they have been heard from 10 p.m.

GSSW, Chelmsford, 25.53 metres, is still too weak to bother with from 7 a.m. On Tuesday I tuned them in at 6 a.m. just as a record was concluding. After this they closed down, stating that they had been testing. Strength was R8 and reception very good. When opening again at 7 a.m. they were, as usual, very weak.

KDKA, Pittsburgh, 25.4 metres, was just audible on Sunday and Saturday by 4 p.m. and only about R3-4 by 5 p.m.

W6XN, California, 23.35 metres. This station has, like the other Americans, gone off recently. On Sunday they were readable for a short time during the afternoon. At 7.15 p.m. on Friday they were R5-6 with a programme by the "Musical Musketeers."

W2XAD, Schenectady, 19.56 metres, was heard on Friday morning at 6.30 a.m. with musical items at R4, very clear, with a slight gush. It was announced that stations W2XAD and W2XAF were transmitting this programme. At 7.30 a.m. the same morning a game was being described; readability was too poor (volume having decreased) to understand what it was.

PLE, Java, 15.74 metres, PLF, Java, 17 metres, and PCK, Holland, 16.3 metres, were heard nearly every evening on duplex telephony.

Unidentified Stations.

ABOUT 41.5 metres on Wednesday morning at 5.50 a.m. a lady was heard talking very fast at R6. A few bars of band music followed her talk. A man then spoke; this was also followed by the band for a moment or two. Later there was singing with a piano. The transmission finished at 6 a.m., but the carrier was audible for some time after.

38.8 metres (about). Music was just audible on Monday morning at 6 a.m.

31.4 metres. On Tuesday, Thursday and Friday about 6 a.m. a station on this wavelength has been heard at fair volume with foreign talk and music. Modulation has been poor.

Short Wave Reception

Some Well-known Americans

SHORT-WAVE station W2XE, short wave of WABC New York, was on a special test programme on Tuesday, November 26, between 7 p.m. and 8 p.m., and they asked for reports from New Zealand. Address reports to W2XE, Box 13, Ozone (or Odone) Park, Long Island, New York. An announcement was made that W2XE's present power was 500 watts, but very soon it would be increased to 20 kilowatts. The frequency was given as 6020 kilocycles. Strange to say, W3XAL, Baundbrook, New Jersey, was testing just above W2XE, and as they gave their frequency as 6020 kilocycles, one station was off their frequency.

Quite a number of stations are now working around 49 metres, namely W9XF, W8XAL, W2XE, W2XAL, W3XAL, and another station the call sign of which has not been heard yet. Two French stations have been heard, one on 60 metres, which I believe is F8PB. The other, on 22 metres, is often heard on a different frequency, and at one time was regarded as a mystery station.—A. P. Morrison (Wellington).

A Comprehensive Log

Reception for One Day

THE following is my log of stations received on a short-wave three-valve receiver for Wednesday, November 27:—Station 5SW at 7.15 p.m. was relaying 2LO's programme of records. Strength R7-8. The German station at Zeesen, on music, was R7. A heavy background was bad on both stations. At 9 a.m. an American station, on 23 metres, talking to London, came through at R7 very clearly.

At 3.55 p.m. W2XAF Schenectady was heard on R.K.6 programme, and later on organ music from a theatre in Albany, New York. Strength R7-8, atmospherics bad. They closed down at 12 p.m. E.S.T. (5 p.m. N.Z.T.). KDKA was very weak, so did not trouble about it. At 6 p.m. WBNR and W9XF, Chicago, came in at R4. By 7 p.m. was R7-8. At 7.50 p.m. came in much clearer till closing down at 8 p.m.

At 8.5 p.m. KZRM Radio, Manila, was R7, reception clear on records. Later was R8 till closing down at 9 p.m. Station VK2ME was testing with GBX. Later changed to Morse signals. KZRM rebroadcast Java at 8.40 p.m. Picked up PLE at 8.40 p.m. R8. Strength (Concluded on page 31.)

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