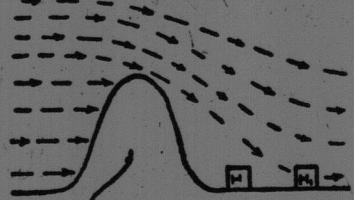


FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis
Formerly Technical Electrical Expert For U. S.
Government

Lesson No. 193.
THE LOCATION OF RECEIVING STATIONS.

One of the reasons why it is impossible to pre-determine with any degree of accuracy the effective range of a radio receiving station is the fact that geographical conditions in the immediate vicinity of the receiver materially affect the intensity of the intercepted waves. It has long been known that greater ranges are obtained when the waves pass over the ocean or flat country than when mountain ranges or high steel frame buildings or other structures are located between the transmitting and receiving stations. It is sometimes absolutely impossible to hear signals from certain directions at a receiving station situated in the mountains or at the base of a hill especially when the shorter wave lengths are employed.



Hill of High Conductivity

Hill of Low Conductivity

In the diagram a radio receiving station located at "H" at the base of the hill may not receive any detectable signal from a broadcasting station to the north, although good reception may be experienced from stations to the southward. A receiving station located at "H", however, may receive fairly good signals from a northerly direction, due to the fact that the waves bend down after passing the hill and the receiver is far enough away from the hill to take advantage of this phenomenon. The station at "H" is said to lie in the shadow created by the hill, that is, in an area where no signals may be intercepted from northerly direction. It is apparent that a receiving station located on the north side of the hill would have the same difficulty in picking up signals from a station to the southward.

The nature of the material forming the hill affects the propagation of the waves so that the waves are believed to pass through formations of low electrical conductivity while they bend over and around hills containing large metal deposits.

There are many so-called "dead spots" on the ocean and on land where signals from certain directions cannot be heard, and in fact no signals at all are intercepted. In some instances there are no apparent reasons for this

Special Sale Electric Portables

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See our window display.

O. H. WARWICK CO., Limited
78-82 KING ST

Cold?

Come on and have a cup of our delicious Chocolate
and a slice of Marshmallow cake—the kind that melts in
your mouth—and go out refreshed and warmed.

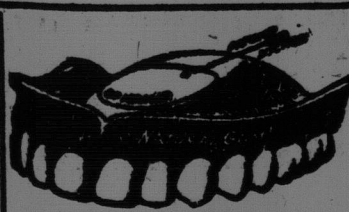
Paradise Ltd.

condition, especially on the ocean where there is no viable obstacle in the path of the waves. Mountain ranges along the shore sometimes keep the waves from reaching vessels close in shore, while vessels further out receive good signals from transmitting stations beyond the mountains.

In the vicinity of New York, the high steel bridges are found to cast shadows so that receiving stations have difficulty in getting signals from stations, beyond, especially when located near the structures. It is especially noticeable that receiving stations in the Bronx have difficulty in hearing stations located at the lower end of the Manhattan Island, there being several miles of high steel frame buildings intervening. Unfortunately, the amateur has little choice of locations for his receiving antenna as a rule, and he is therefore forced to resort to very sensitive amplifiers in an effort to pick up the weak signals which manage to get past local obstructions of the type described. As has been pointed out on various occasions radio-frequency amplification or the use of the super-regenerative circuit assist in producing audible sounds from the extremely weak signals which ordinarily would not be themselves rectified by the detector tube. Where a movable loop is employed on the receiving set, geographical conditions are sometimes responsible for errors of several degrees in determining the direction of the source of the signals.

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PROPOSED FOX TAX.
Winnipeg, Dec. 29.—In order to allow the assessment of taxes on fox ranches in Manitoba, the Provincial Government will be asked by the Winnipeg Sub-



PAINTLESS EXTRACTION
Only 25c
We make the BEST TEETH in
Canada at the Most Reasonable
Rates

Boston Dental Parlors
Head Office: 37 Hild St.
Branch Office: 35 Clarendon St.
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DR. J. D. MAHER, Prop.
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PHILLIP'S

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49 GERRAIN ST. ST. JOHN, N. B.

REINDEER SLEIGHS IN ALASKA MAIL SERVICE

New York, Dec. 28.—Old St. Nick, with his packed sled and harness reindeer, prancing over the country with jingling bells and digging his way through piled snowdrifts, is not so mythical after all, for he really does appear to many people just that way. It is in Alaska, where Uncle Sam's mails are delivered in winter by fur-clad carriers riding in reindeer-drawn sleds to the tune of merry chimes. Far away places in Alaska get few deliveries of mail, but the schedule is nearly always arranged so that each plunger camp in out-of-the-way places where the deep snow prevents much intercourse with the outer world sets its Christmas mail near the holidays.

The Post Office Department sends out 94,000 first assistants to old Santa Claus, and although they don't wear his livery of red and fur and natty black boots, their gray uniforms are just as welcome along toward the last days of December. Every day is Christmas for the postal workers the month before December 25. It is a hectic season with them to get the untold quantities of mail to those to whom it is intended.

But they do their work with a will and a smile, say department officials, who ask your help in their work by making it easy for them to deliver all the gifts by Christmas Day.

DYKEMAN'S

34 Simonds St. - Phone 1109
181 City Road. - Phone 4261
276 Pr. Edward St. Phone 2914

Our goods are the finest in the land.
And order will convince you.
1/2 bbl. Bag Potatoes, \$1.00
Best White Potatoes, a Peck, 15c
Best Turnips, a Peck, 10c
Best Carrots, a Peck, 35c

CANDY AND NUTS

Hand-made Barley Toys, lb., 20c
Ribbon Candy, lb., 19c
Fancy Creams, lb., 22c
5 lb. Box Best Assorted Choco-
lates, \$1.35
1 lb. Box Best Assorted Choco-
lates, 25c

TABLE RAISINS, ETC.

1 lb. Cluster Raisins (Sun-Maid), 25c
Best Seedless Raisins, pkg., 12c
2 pkg. Sun-Maid Seedless Raisins, 25c
2 lb. Best Bulk Dates, 25c
Best Layer Figs, lb., 25c
1 lb. Bulk Raisins, 22c

CANNED GOODS.

2 tins Corn, 22c
2 tins Tomatoes, 22c
2 tins Pumpkin, 25c
2 tins Peas, 25c
2 tins Peas, 25c
2 tins Peas, 25c
2 tins Peas, 25c
2 tins Peas, 25c
2 tins Peas, 25c

SUGAR.

100 lb. Bag Finest Granulated
Sugar, \$7.85
13 lbs. Finest Granulated Sugar, \$1.00
2 lb. Long Sugar, 20c
1 lb. Light Brown Sugar, 15c

LARD AND SHORTENING.

1 lb. Block Pure Lard, 15c
5 lb. Pail Pure Lard, 85c
10 lb. Pail Pure Lard, \$1.75
20 lb. Pail Pure Lard, \$3.55
1 lb. Block Shortening, 17c
5 lb. Pail Shortening, 85c
10 lb. Pail Shortening, \$1.75
20 lb. Pail Shortening, \$3.55
H. A. Oleomargarine, lb., 25c

MISCELLANEOUS.

2 1/2 qt. Bottle Pure Lemon, 23c
2 1/2 qt. Bottle Pure Vanilla, 23c
5 lb. Box Oatmeal, 25c
4 lbs. Rice, 25c
3 lbs. Split Peas, 25c
6 lb. Bag Graham Flour, 30c
10 lb. Bag Granulated Cornmeal, 40c
1 lb. Pure Cream of Tartar, 30c
1 lb. Pure Black Pepper, 23c
1 lb. Allspice, 23c

FRUITS.

2 lbs. Malaga Grapes, 45c
Finest Sun-Kissed Oranges, doz., 59c
Med. Size Sun-Kissed Oranges, doz., 45c
Lemons, per doz., 35c
Best Large Eating Apples, Peck, 40c
No. 1 Northern Spy Apples, peck, 60c
2 Large Grapefruit, 25c

EXTRA SPECIAL.

7 Rolls Toilet Paper, 25c
Finest Creamery Butter, 2 lb. Pails, 43c
1 lb. 23c
2 lb. Tin Pinet Boneless Cod, 38c
Goods delivered the same day as ordered to all parts of the City, East St. John, Carleton Place, and Millbrook.

For A New Year's Gift

SILK SHIRTS ARE SURE
TO MEET WITH HIS
APPROVAL

Lustrous Striped Silks in different
patterns and colorings, and
soft plain shades, including Eng-
lish Broadcloth, ranging in price
from
\$4.75 to \$10.

GILMOUR'S

68 King Street
Clothing, Tailoring, Furnishings

ADMIRAL HAMMICK SAW LONG SERVICE

Was Born in 1848 and En-
tered Royal Navy at Age
of Thirteen.

London, Dec. 6.—(By mail).—The death of Vice-Admiral Robert Francis Hammick, retired, which occurred at Devonport on Sunday at the age of seventy-nine, has followed quickly on that of Vice-Admiral Sir Bouvierie last. Both were promoted to captain in 1884, and retired as rear-admirals in 1894. The second son of the Rev. Sir Vincent Love Hammick, Bt., brother of Sir Murray Hammick, K. C. S. I., and grandson of Sir Stephen Love Hammick, first surgeon of the Royal Naval Hospital at Plymouth, the late vice-admiral was advanced to vice-admiral in 1904. He was promoted to captain in 1884, and entered the Royal Navy in March, 1865. As acting lieutenant in command of the Antheus, he was sent to the Naval Brigade which acted in support of the assaulting party on the Maori position at Pukehinahina, in the following April, when he was wounded. For his service he received the New Zealand medal, was specially mentioned in dispatches, and noted favorably for his services. Advanced to commander in 1877, after commanding the gunboat Cygnet at the Cape, he returned to the fleet in 1881 in command of the gun-vessel Flirt, and as a captain he commanded the troopship Himalaya and the cruiser Washiphi in the Malay Archipelago. He was promoted to commander in 1884, and in 1884, after commanding the gunboat Cygnet at the Cape, he returned to the fleet in 1881 in command of the gun-vessel Flirt, and as a captain he commanded the troopship Himalaya and the cruiser Washiphi in the Malay Archipelago. He was promoted to commander in 1884, and in 1884, after commanding the gunboat Cygnet at the Cape, he returned to the fleet in 1881 in command of the gun-vessel Flirt, and as a captain he commanded the troopship Himalaya and the cruiser Washiphi in the Malay Archipelago. 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