

Study Shows Smog Interrupts Radio And TV Signals

Los Angeles—(Science Service)—When temperature inversion clamps an atmospheric lid over a city, high-frequency radio transmission from the ground to high-flying planes or missiles can be cut temporarily.

The inversion layer, already notorious as a major smog factor, can also interrupt radio contact between two land points in direct line of sight.

The findings were reported after three years of experiments by Prof. W. D. Hersberger, assistant professor Richard C. Mackey and Dr. Warren L. Flock, University of California at Los Angeles radio engineers.

In 1956, the three engineers set up a transmitter on the 24th floor of the Los Angeles City hall and a receiver on top of the UCLA physics building, establishing a microwave path 11.4 miles long.

Transmitting at 36,000 megacycles, they found that signals came in strong and clear on smogless days. But on days with temperature inversion, signals faded, at times completely, especially when the inversion layer was below 1,000 feet and while the sun was rising.

The importance of the study lies in setting an upper frequency limit of 36,000 megacycles for radio transmission during smoggy days. Only on frequencies below 36,000 megacycles will communication be completely reliable.

Radio engineers have a very practical interest in determining this upper limit. Although they can easily penetrate the inversion layer by transmitting on lower frequencies, higher frequency transmission has an advantage because it requires a smaller receiving dish and less bulky equipment.

The experiments also showed that microwaves are a faster although more expensive means of fixing the height of an inversion layer, especially between 500 and 1,000 feet, than the present method of sending up balloons.

4-H NEWS

Eagle Point Ranchers
The Eagle Point Ranchers 4-H club held their meeting Oct. 10 in the Eagle Point vocational agricultural building.

There were 24 members and 9 visitors present. It was decided that we make at least two reports a year on our projects.

Our next meeting will be held Oct. 24 at 7:30 p.m. in the Eagle Point vocational agriculture building.
Susan Harper, Reporter

Central Point Beef Club
The Central Point Beef 4-H club held a meeting Oct. 17 at the home of the leader, Floyd Charley. We elected officers. They are Nikki Hammond, president; Carolyn Sidener, vice president; John Swartsfager, secretary; Judy Frink, reporter; George Way, sergeant at arms; and Carol Norris, refreshment chairman.

Our next meeting will be at the home of Carolyn Sidener at 7:30 p.m. Nov. 21. Refreshments were served by Mrs. Charley.
Judy Frink, Reporter

Merry Makers
The Merry Makers 4-H club met Oct. 15 at the home of Mrs. Dwight J. Albright. Marilyn Peyton and Linda Lemley were co-hostesses for the meeting. Mrs. C. D. Lemley and Douglas Lemley were guests.

Demonstrations of how to cut designs in sandwiches were given. Plans were also formulated for taking pictures and putting them on a bulletin to be distributed to children at the hospital.
The next meeting is Oct. 22. Halloween snacks will be made at that time.

Meadows Busy Beavers
The September meeting of the Meadows Busy Beavers 4-H club was held at the home of Wes McDonough.

Nine members and two visitors were present. Visitors were Mr. and Mrs. Wes McDonough.

Discussion of possible community projects was held. Completion of members projects was also discussed.
Cynthia Pleasant, Reporter

Willing Workers Club
The Willing Workers 4-H club met at the home of Mrs. J. Anhorn Oct. 11.

Christmas projects were discussed. The club set Nov. 15 as the date for its achievement night.
The next meeting will be Nov. 21 at the home of Mrs. Anhorn.
Mary Kurz, Reporter

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