

FUNNY JUMBLE OF PHENOMENA IS REPORTED

By ISRAEL KLEIN
(NEA Service Radio Editor)

THE shadow that rushed over the earth during the recent eclipse played a game of hide and seek with radio experimenters.

Preliminary reports point to a confusion of observations in different parts of the country.

Signals increased and decreased in intensity. Waves changed their direction. Broadcasts faded in and out. Static increased and decreased. Some stations got longer distances. Others could hardly be heard.

It was all a jumble, out of which scientists are trying to discover some relationship between the sun and radio, or between the effect of light and that of dark on radio.

In collaboration with the American Astronomical society, the Scientific American is collecting information from radio fans that may help eventually in deciding some salient fact relative to the eclipse and radio. More reports are wanted from every fan who happened to be listening in on the morning of January 24.

Analysis Is Given

Dr. E. E. Free, noted scientist and editor of the Scientific American, however, makes the following curious analysis:

"1. Some stations report increases of signal strength during the eclipse, while others report decreases.

"2. Direction finders record changes in direction of waves from known stations.

"3. Stations with special apparatus report swings of wave direction, indicating their arrival first from one side of the eclipse shadow, then from the other.

"4. Most pronounced effects on wavelengths appear to be on those in the intermediate band for broadcasting.

"5. Long waves apparently were unaffected by the eclipse, while short waves were apparently so much affected that transmission seemed to cease altogether."

Radio Programs

Government Report Made

In contrast to this, however, Dr. J. H. Dellinger, chief of U. S. bureau of standards radio laboratory, who conducted special eclipse observations, reports the phenomenon seemed to increase greatly the intensities of long and short wavelengths, while the medium frequencies seemed to show no apparent effect.

Dr. Dellinger agrees with Dr. Free's report that signals shifted during the time of totality.

Contrary to expectation, static increased. That's what the American Radio Relay league reports.

Much Fading Reported

Signals faded in and out during totality for two or three minutes after the report continues.

Most of the A. R. R. L. stations, working on high frequencies, reported a drop in the signal strength, despite a contrary finding of the bureau of standards. Others, however, noticed no change.

Out of all this material, the most interesting to scientists is the variation in direction of signals, and the confusion of observations as to signal strength.

Both these phenomena are believed to result from what scientists call the "interference of ether waves."

Radio Gossip

Fred Burton, 903 Twentieth avenue east: "I heard a lecture in Spanish from NICE at Mexico City that sounded more like Greek than anything else, to me. I have also heard Mazatlan, Mexico, Edmonton, Canada, Manitoba, Springfield, Mass., where they were playing a dance music from a program from the Brunswick in Boston. I use a three-tube reflex with one-step audio frequency; amplification added."

Myers Radio Store, 691 Willamette, has installed a radio map of the United States, on which broadcasting stations heard by Eugene fans are indicated by means of colored pins. On each pin a tag is placed with a number, corresponding to the fan's name on a chart by the map. The type of receiving set used, station, name, address and whether it was a loudspeaker or headphones are listed.

J. H. Zehring, 1801 Orchard: "Reached Ft. Worth, Texas, Kansas City, four stations in Chicago, Zion City, Northfield Minn., Salt Lake and Calgary stations jump clearly in the last week. Coast stations are giving us splendid programs."

"The Radioscope" is the name of an interesting radio magazine being distributed monthly by Laraway's Music store to customers and radio fans. The current number contains an interesting account of the Keep Growing Wiser order of Hoot Owls.

Leonard Gross, 630 Charnelton: "We were listening in on several stations, and caught Walla Walla, Wash., when the big American Theater organ was being put on the air. Reception of this music was splendid. Several vocal solos came in from Detroit, Mich., very loud and clear. This station has a dandy jazz orchestra."

Neil Grimes, Harrisburg: "Our set is new, but we have already heard WEAO at Ohio State university, where an educational lecture was being broadcast. We didn't hear the entire lecture, but just the last few sentences and the station call."

Fred S. Williams, Jr., Motor Route C: "Got a dandy musical program from Buffalo, N. Y., and Houston, Tex., on the loudspeaker. I do not get these stations regularly, however."

Wilbur Adams, 1836 Alder: "Here are a few stations I've listened to in the last few days: Washington, D. C.; Pittsburgh, Schenectady, New Mexico State college, Ft. Worth, Tex.; Troy N. Y.; Zion, Ill., and Charleston, S. C. Reception in most cases was clear, with very little interference. I have a three-tube regenerative outfit."

Henry Mitchell, Willard street: "Well, I've got about as far east on my set as I can—Providence, R. I. Now my ambition is to get Mexico City and the islands."

Practical Broadcasting Hints



Radio Programs

Do you read "Gasoline Alley," the popular comic strip? "Luna Wagon," the 5:30 o'clock story teller at WGN, Chicago, has become so engrossed in requests from young listeners for "shooting stars" that he has set aside certain days for children with certain names. Each evening at 5:30, which is 3:30 in Eugene, Uncle Walt conducts Skeezix time at WGN.

Several good Valentine day programs are announced. Tonight at 10 o'clock Colburn's Melody Men of the Hotel Portland will present dance music from KGW, and intermission music will be by Fay Wentz Welch, soprano.

Another Eugene boy has joined the musical broadcasters. He is Wynn Feeley, formerly of the Plaid Pipers of this city, where he played for the last two years. He is now with Colburn's orchestra in Portland, playing trumpet.

The Guard is adding Sunday programs in this issue, at the request of a number of radio fans.

TONIGHT'S PROGRAMS

KGW—Portland—485.1 meters: 11:30 a. m., weather report; 10 p. m., Colburn's Melody Men of the Hotel Portland; intermission solos by Fay Wentz Welch, soprano; accompaniment by Kellie Horgler.

KFAX—Seattle—455 meters: 6:45-8:15 p. m., Rhoda department store program, dance music; Betty Winingham, juvenile prodigy; 8:30-10, Times program, Meyer's Melody Night Hawks, Honeymoon seconds; Pack Mooney, tenor; 10-11, Eddie Harkness and his orchestra.

KFSG—Los Angeles—278 meters: 7:30-9:30 p. m., auditorium service, testimonials and sermon on Divine healing, Aimee Semple McPherson, pastor.

RGO—Oakland—300 meters: 8 p. m., California string quartet; Harvey Schubert, tenor; trumpet, solos, S. Duke Smith; Mrs. S. G. Walsh, contralto; "Contentment," Mr. Frederick W. Clappett; Walter Kilegall, baritone; Winston Petty, cellist; "Stamp collecting," George W. Ludlow; 10-11, Henry Halstead's orchestra.

KHJ—Los Angeles—404 meters: 6:30 p. m., Art Hickman's Biltmore hotel concert orchestra; Edward Fitzpatrick, director; 6:30-7, little stories, American history, Prof. Walter Sylvester Hertzog; Henrietta Poland, Helen Pirie, screen juveniles, with Uncle John; 7:45, "Income Tax" Captain John T. Riley; 8-10, El Encanto apartment's valentine party; 10-11, Earl Barnett's Biltmore hotel dance orchestra; 12-2 a. m., The Lost Angels of Kili.

KXN—Hollywood—337 meters, 6:15-7:30 p. m., Green Mill dance orchestra; 7:30-8, Wurliizer pipe organ studio; 8-10, continuity, Voyage to the South seas by Salisbury and Alexander; 10-11, Abe Lyman and his Coconut Grove dance orchestra from Ambassador hotel; 11-12, popular songs, June Pursell, the KXN girl.

KOA—Denver—322.4 meters: 9-12 midnight, dance music, Joe Mann and his Rainbow Lane orchestra; 12-1, KPO—San Francisco—429.5 meters: 5:30 p. m., "What Is Playing at the Various Theaters"; 8-12, Art Weider's orchestra.

Short Cuts

FOUR pieces cut from two rubber sponges will eliminate microphone noises in sets if the pieces are put under the corners of the radio cabinet. Use of rubber under the loudspeaker will make for quieter reception also.

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We are now handling the complete line of Kilbourne & Clark's Radio equipment. Including the Air Ruler, the Air Roamer, and the Somerset

The New McCall Circuit
A Radio to Fit Every Pocket

We will be glad to call at your home and give you a free demonstration that can do nothing but convince you.

BERRY PIANO & FURNITURE CO.
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AIR CHIEF MAY BE INVITED TO CITY

Why is it that violet ray machines play havoc with receiving sets in some parts of Eugene, and don't trouble others?

Will it ever be possible to get good reception in Springfield, on account of the huge electric generators in the city?

Can X-ray machines be insulated so as not to create troublesome interference, and can physicians be compelled to insulate them?

How can we silence the youth who goes on the air every evening with meaningless code messages, blanketing reception from most good stations?

These, and many other problems of Eugene radio owners, can be answered by A. E. Redfern, United States air chief for the northwest district, in which Eugene is located. Mr. Redfern, it is believed, would pay a visit to Eugene if invited, and help radio fans work out solutions to perplexing problems of interference.

Arrangements for the formation of a radio club are going ahead full speed. It is learned, and in all probability, the club will invite Mr. Redfern as an organization to come to Eugene and discuss the questions.

ASSIGN NEW WAVES TO MANY STATIONS

So that Eugene and Lane county listeners may have a record of new wave lengths authorized by the government to make room for more class B stations, and to cause less interference, The Guard is today publishing the entire list of changes made in 35 stations:

Old New	Old New
KDKA, East Pittsburgh	326 300.1
KFDM, Beaumont, Texas	306 315.6
KFKX, Hastings, Neb.	291 288.3
KFOA, Seattle, Wash.	405 455
KFCU, St. Louis, Mo.	546 549.1
KGW, Portland, Ore.	492 485.1
KOB, State College, N. M.	360 345.6
KSD, St. Louis, Mo.	544 549.1
KYW, Chicago	536 535.4
WBAP, Fort Worth, Texas	476 472.9
WRAY, Columbus	423 263.9
WCN, Detroit, Mich.	517 516
WEAR, Cleveland, Ohio	390 364.3
WFAA, Dallas, Texas	476 472.9
WHA, Madison, Wis.	536 535.4
WHAA, Iowa City, Iowa	484 498
WHK, Cincinnati, Ohio	283 273
WHN, New York, N. Y.	360 360
WHIO, Des Moines, Iowa	426 522.3
WIP, Philadelphia	509 509.9
WJJD, Mooseheart, Ill.	278 302.8
WMC, Memphis, Tenn.	500 503.9
WMH, Cincinnati, Ohio	309 325.9
WNAO, Boston	278 280.2
WNYC, New York	526 528.8
WQAI, San Antonio, Texas	385 394.5
WQAW, Omaha, Neb.	526 522.3
WOC, Davenport, Iowa	454 408
WOL, Ames, Iowa	380 270
WOO, Philadelphia	509 509.9
WREO, Lansing, Mich.	288 288.5
WSAI, Cincinnati, Ohio	309 325.9
WTAM, Cleveland, Ohio	390 364
WTAS, Elgin	286 302.8
WWJ, Detroit, Mich.	517 516

WILLARD RADIO BATTERIES

Never strike the cabinet to test for poor connections. A sharp blow is liable to destroy the filament of one of the tubes in the set, or it may even knock a wire carrying high potential current loose and touch a filament lead, thereby burning out the tubes and running down the batteries.

EUGENE STORAGE BATTERY CO.
New Location
940 Pearl St.

Coast to Coast Rebroadcast

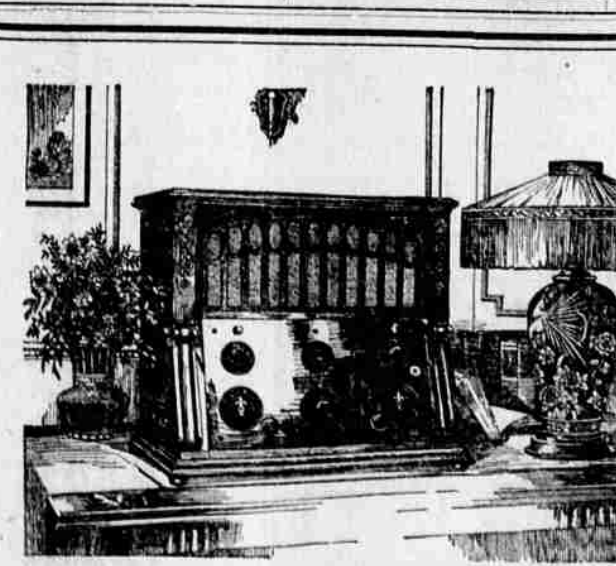
(By NEA Service)

RICHMOND HILL, N. Y., Feb. 14.—Radio fans who were still up with the milkman got a thrill here when they tuned in on KGO at Oakland, Cal., even with crystal sets.

The secret was station WAHG, here, was rebroadcasting KGO's program.

This is said to be the first time in the history of radio that a Pacific coast program was rebroadcast by an east coast station.

The stunt is to be repeated from time to time. WAHG broadcasts on its experimental call of 2XE, at 516 meters. The time is from 2 to 4 in the morning.



Music in the Air

Brunswick-Radiolas
Super-Heterodyne
Regenoflex Radiolas
Atwater Kent
Tubes—Batteries—Supplies

Pianos
Player-Pianos
Reproducing Pianos

LARAWAY'S

Brunswick and Victrola Phonographs and Records
Sheet Music and Books

things, but the fact itself. For two rivals have sprung up since last year. One group maintains it's running the only official, high class radio show in New York. The other group contends its own show is just that. And so they're at it. One group apparently consists of some of the biggest radio manufacturers in the country. The other is a group of independents in the field.

Last year, the Radio World's Fair was lacking in exhibits by the Radio Corporation of America and other such big organizations. But these firms exhibited at the Third Annual National Radio exposition which opened up a little later.

This year the competition between the two shows promises to be much keener. They've started already, planning for the coming shows early in September.

Each insists it's first for 1925. "Leading exhibitors" will show their goods at each. "Remarkable new inventions" will be present at each show. "New ideas, new lines" are to be brought out by both.

Both are at it, equally, for prime consideration by the public, for news publicity.

Here they have it—fifty-fifty.

Short Cuts

KEEP the "low loss" in low-loss coils by making them self-supporting. If four leads are taken from

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You can if you have one of our Glob 4 Tube \$65.00 sets with loud speaker installed in your home or room. The dance music will come in loud and clear, and maybe there'll be encores! Bring her here to hear it.

Radio Supply Co.
684 Olive St. Eugene, Oregon
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Think This Over!

Can the man dealing in several lines of goods give the service that a man handling only one line can?

We handle radio exclusively.
Radio is our business.
We are prepared to take care of your needs.
Demonstration at your convenience.
Service our motto.

Radios at All Prices.

We back our judgment on the kind of Radios we handle

Get your name on our Radio map—a great game. All questions regarding Radio scientifically answered

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What you want primarily when purchasing Radio Equipment is **PERFORMANCE**—and performance to pass muster should meet these demands:

Perfect Quality of Reproduction.
Selectivity—Developed to a degree obtainable only by Instruments of correct design.
Utmost Simplicity of Operation.
Extreme Range.

Maximum performance in these essential and desirable characteristics of good reception—consistent with type and price—may be confidently expected of merchandise purchased from us because we test for these essentials.

LARAWAY'S

Brunswick and Victrola Phonographs and Records
Sheet Music and Books