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SUN SPOTS WILL APPEAR IN MONTH

Brilliant Auroral Displays and Magnetic Disturbances Predicted

By Robert H. Baker (Professor of Astronomy, University of Illinois)

URBANA, Ill., Dec. 1 (AP)—Sunspots are unusually numerous at this time, since they are associated with violent magnetic disturbances on the earth and with brilliant auroral displays, we may look for these interesting phenomena also.

Occasionally a sunspot is large enough to be seen with the naked eye, when a smoked glass is used or when the haze above the horizon makes the rising or setting sun safe to look at attentively. In order to be easily visible without a telescope the spot must be considerably larger than the earth.

Only a small telescope is needed to show the spots. Of course one must never look directly through the telescope at the sun without a shade glass, because the eye would be injured by the intense heat and light. A convenient procedure is to hold behind the telescope a sheet of white paper or cardboard, on which the sun's image is projected as from a stereopticon.

Sunspots are believed to resemble cyclones or tornadoes on a vast scale. The disturbance appears to originate below the sun's visible surface. As the whirling superheated gases ascend to the surface where the pressure is reduced they suddenly spread out, forming the wide top of the funnel which we see.

The expansion of the gases causes them, according to a well-known principle. Thus great areas of the sun's surface are maintained for days or even weeks and months at temperatures only half that of the undisturbed surface. Hence cooler, these regions appear darker than the rest of the sun's surface.

It has been said lately that the sunspot is the greatest known refrigeration plant. While individual spots and groups of spots come and disappear in unpredictable fashion, a degree of regularity in their general behavior is established. On the average their numbers increase for four years and then decrease for seven years, so that the greatest number of sunspots is to be seen every eleven years. We are now close to one of these maxima.

There is no evidence that the sunspot cycle is in any way connected with such events as earth-quake and wars, as some have asserted. But it is certain that great magnetic disturbances and brilliant auroras occur whenever sunspots are abundant.

Magnetic "storms" are detected by unusual gyrations of the compass needle. They produce also earth-currents of electricity, which may seriously hamper telegraphic and radio communication. They have no connection with thunder storms.

Weather conditions, too, are affected by the sunspot variation. When spots are numerous the temperature averages two degrees Fahrenheit higher than when they are scarce. Moreover, an eleven year repetition in the spacing of old tree rings suggests that the amount of rainfall has varied with the sunspot periodicity.

DEATH ENDS ROMANCE

BRIDGEPORT, Conn.—Death ended one romance of Carroll McComas, of Los Angeles, whistling beauty of the stage, and divorcee is the termination of another. She is suing Walter J. Knight, cartoonist, whom she married in 1922 after receiving a bonnet from the estate of Howard J. Flannery, of Pittsburg, to whom she was engaged at the time of his death.

100,000 FLOWERS

SANTIAGO, Chile—More than 100,000 flowers adorned the altar in the church of St. Augustine today for the marriage of President Latorre to senorita Gracinda Letelier Velasco, and 67 musicians were engaged.

The lowest temperature ever officially observed in continental United States occurred a few winters ago at Fort Keov, near Miles City in northeastern Montana, when the thermometer dropped to 65 degrees below zero.

Star With Cue

Here's Allen Hall, St. Louis billiard star who wants a crack at Otto Reisselt's three-cushion crown. Hall finished fourth in the last tournament and thinks he has improved to such an extent since then that he can lift Reisselt's title.



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Clever End



Speed that made him one of the most valuable track men in college circles last spring also has made Frank J. Cuhel, of Iowa, shown here, one of the best ends in the middle west. Cuhel has played sensationally for the Iowans this fall.

FINDS MANY PEARLS

MERIDEN, Conn.—Never did Charles M. Allen, contractor, enjoy cysters so much as those he opened himself when diving with a friend. He found 126 pearls in one of them. The size ranged from a pin head to a pea.

SPRING ARBUCKLE

LOS ANGELES—Uncle Sam thinks \$1,877 is due on Patty Arbuckle's income tax for 1926 and so he is suing.

In a town near Paris, France, a resident recently found a bill for fifty francs, and being honest took it to the mayor. When the chief of police heard about it he had the man arrested under a town regulation requiring that all lost articles be handed in to the chief of police. Brought into court, the honest man was fined two francs.

The 186th one bid in as many days by Lady Norfolk, giraffe Leghorn hen, was sent by Giroult to President Coolidge from Okama, packed in a jewel case.

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BEFORE THE MIKE

SUNDAY PROGRAMS

REX—Portland (239-508-1250) 6:20, concert (10); 7:30, Pres. (10); 8:30, church service; 8:45, studio program; 9 to 10, HBSA program and concert.

RJH—Seattle (248-50-8600) 5:15, HBSA program; 7:15, concert; 8:30, church service; 9 to 10, concert orchestra with mezzo soprano.

Editor's Note—Because of failure of the remainder of the advance radio programs to arrive in time, The Observer's unable to give other similar programs.

COUNTY AGENT SELECTED IN MALHEUR AREA

VALLE, Ore. (Special)—Raymond G. Larson, former county agent of Lake county, Oregon, has been appointed Malheur county agent to succeed the late W. L. Shovel. Mr. Larson was one of several candidates whose credentials were carefully examined by the county board recently. He was the choice of the court and the preference of the O. A. C. extension service because of his familiarity with Eastern Oregon conditions and his successful experience as a county agent in this state.

Mr. Larson was reared on his father's farm in Iowa where he acquired the feeling was one of the best of the west. He has lived in Oregon for more than 24 years. During this time he was employed on a large wheat farm in Eastern Oregon, and in 1920 he was foreman on a 2500-acre wheat ranch. He was graduated from the Oregon Agricultural college in 1920, and for a time engaged in teaching general agriculture at the college.

EX-NEWSBOY AT TOP

NEW YORK—The services of a former Chicago newsboy who has the reputation of belonging to more directors than anybody else in the financial district continue to be in great demand. Matthew C. Brady, president of the American International corporation, has been offered the chairmanship of the board of the Westinghouse Electric and Manufacturing company. After settling a traction strike through first attracted the attention of big business by becoming president of the Boston Elevated when 25 years of age.

When Hattie, the flying Florida dapper, gets back to her home state, what will they give her, we ask you? What will they present? Come now, come now! Why, of course—the keys!

Vote-Getter



As a vote-getter, George Cole, Arkansas quarterback, is there. The Razorback star who hopes to gain all-southwestern quarterback honors this year recently was elected president of the student body at his college by a two-to-one vote.

BUT IT DIDN'T

POMPTON LAKES, N. J.—Arthur W. Holmboe, five feet two, policeman, is under suspension because of some trouble with Police Marshal Hoeman, five feet eight. After a wrangle in his court the magistrate said to the policeman: "If you don't stop that I'll throw you out." "I'll take a bigger man than you," retorted the policeman. That it didn't.

The scowflaws of St. Paul who call up Andy Volstead in the early morning hours to bid him about his famous act may have discovered a method of attack, which, if effectively organized, might soon have all professional drys calling quits. At least it might force them to stop enough daytime sleeping to prevent them paying much attention to prohibition.

Farm Pointers

Various varieties of carrots are being raised now by several Oregon growers, including the Eugene Fruit association, and the Western Oregon Marketing corporation of Corvallis. These firms are cooperating with the experiment station on this project. Comparative values of the varieties raised will be demonstrated to the short course students in horticultural products next January.

Tree crickets often do serious damage to young fruits and fruit trees by puncturing the cones and limbs in looking for eggs. The entomologists at the experiment station suggest that the insects are easily brushed off by winter and spring winds. These insects can be controlled by cutting these unpruned cones and limbs out and burning them in the fall. The young crickets may be killed with a spray of lead arsenate in June or July which will prevent further injury next fall.

Fewer long tail and bucky heads are being on the market in Oregon now than a few years ago, the explanation is that the sheep raisers are particularly in the quality of food products, and successful sheep men have learned to market lands in the most attractive way possible.

Even the man who believes in making hay while the sun shines will wait till dark to sow his wild oats.

This Is Toyland

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COMPANIONATE DIVORCE

CLEVELAND—Now comes the companionate divorce. Judge Young granted a decree in the case of Mr. and Mrs. Florian L. Hammer, but they will have separate quarters in the same house with their three children. She will have a half interest in the house and will receive a salary of \$25 a week as housekeeper. He will pay all the household bills.

It may be true that the road lies young but the older we grow the less we believe it.

Lowell Patton Musicians

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At the Arctic

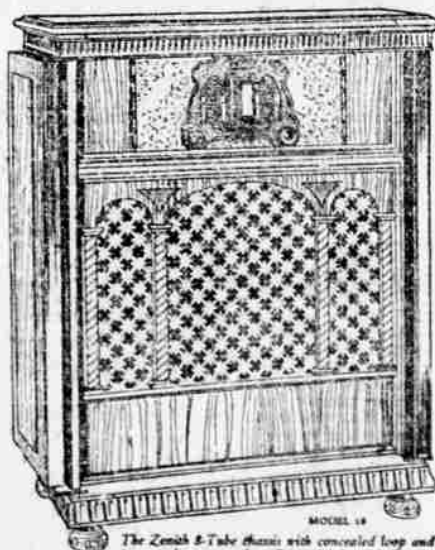
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Beautiful tonal reproduction, faithful to the tiniest overtone as well as to the massed volume of symphonic music. Selectivity and power that ranges the whole world for joys that are hidden to other sets. The utmost in scientific reception. These are the delights Zenith will bring you—for years.

Cabinet artistry, too, that graces the finest room. Hear and see Zenith. Ear and eye will agree—best.



The Zenith 8-Tube chassis with concealed loop and improved cone speaker. Beautiful Spanish Renaissance Cabinet—Fine lacquer finish. Battery operated, \$300. Completely Electrical, \$400 (with power speaker, \$450)

Model 15—8-Tube Loop Set. Loop Model into cabinet when not in use. Battery operated . . . \$185. Completely electrical . . . \$225

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