



Booms and Slumps Laid to Sunspots

Various Crises Are Linked to Solar Activity.

Cambridge, Mass .- In line with the "sunspot theory" of economic and industrial activity, there has come from Harvard's astronomical observatory a declaration by Dr. Loring B. Andrews, astronomer, that sunspot activity can be cor-related with such varied phenomena as weather conditions, economic tranquility and distress, wars, floods and international crises.

While admitting the correlation between earthly phenomena and unusually active spots on the surface of the sun, Doctor Andrews, in discussing the subject, states that the actual source of the correlation must be sought in other solar peculiarities which are correlated in turn with sunspot activity.

Especially "amazing," according to Doctor Andrews, is the correlation of economic prosperity and depression with periods of sunspot maxima which has held true over a period of the past two centuries. Using this correlation, the astronomer states that "it would seem that all the king's horses and all the king's men cannot bring pros-perity back again; but the sun can." With a sunspot maxima expected

HITS FOUR HOMERS



Chuck Klein, slugging outfielder of the Phillies, became the fourth baseball player to clout four home runs in a single game, when he achieved that distinction in a recent game against Pittsburgh.

in 1939, the Harvard scientist tentatively predicts an increase in stock market activity at that time, for 'as the number of sunspots mounts, prosperity turns the corner; as the number of sunspots diminishes, prosperity hides itself in a depres-

"It may be pointed out," he con-tinues, "that the last sunspot maxi-mum was in 1928, an epoch in the economic history of the United States to which one commonly refers as the good old days." The last sunspot minimum occurred in 1933. Some one has mentioned an economic depression similarly dated."

The blemishes on the face of the sun, with which Doctor Andrews finds so many correlations, have been demonstrated, according to the scientist, to be huge solar cyclones, whirlwinds in the solar atmosphere, accompanied by pronounced mag-netic conditions. Each sunspot, he says, is a huge magnet as a result of the whirling of electrically charged particles within it.

Sunspots have cycles of eleven years. Maximum spottedness has come in 1906, 1917 and 1928 since the turn of the century and mini-mum spottedness in 1901, 1913, 1923 and 1933.

Since the sun rotates on its axis in a period of 25 days, Doctor An-drews states that it is impossible for the earth to be permanently in the range of a sunspot or a sunspot group, but when the spots are near the earth, such terrestrial phenom ena as auroral displays, electric storms and effects on long-distance radio reception are noted.

"All of these phenomena," Doctor Andrews declares, "show a close correlation with sunspot activity and particularly with the passage of an active sunspot group across the central area of the sun's disk; the aurorae, borealis and australis, perform beautifully, magnetic compasses oscillate to and fro over a small amplitude centered in their normal position, and long-distance radio reception is either improved or hampered. In connection with the last of these it should be said that whether reception is improved or hampered depends upon the wave-length of the signals and oth-er factors related to radio transmission." The explanation of the correlation

between sunspot activity and economic prosperity and other items on earth is explained as being indirectat it is explained as being indirect-ly caused by the solar phenomena. When sun spots are at a maxi-mum, he finds, the earth's receipt of heat from the sun is above normal. Strangely enough, this does not make for warmer weather be cause it increases the evaporation of water from the earth's surface and therefore the weather is cooler than usual and there is increased rainfall.

By LEONARD A. BARRETT

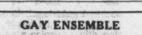
UNIFORMITY

IN VARIETY

No two leaves of the forest are exactly alike. Of the many differ-

kinds of trees, no two have exactly the same dimen-sions. The beauty of a tree is symbolized in its symmetry; but here again nature publishes itself in many forms, reaching from particles and spicula, through transformations innumerable to the highest symmetries which are sub-

ject to the dictum of variety. Flowers show marked variety. A rose will vary in every one of the same tanical names and give them spe-cific descriptions, both of form and self with one thing-old yet ever new-the one thing needful: life. It is from life that nature com-



Sunspot Activity

ik.



The Household

be avoided by doing just this very thing. Mechanical devices for labor saving are apt to have a screw

or two somewhere in their mechanism, and unless these screws are kept tightened, trouble is brewing. Accidents also can be avoided by going the round of the house with the screw driver, and using it as needed.

One of the kitchen that must have the screws in firmly is the coffee handle. loses its grip, the person using

species. Yet we may recognize the different roses by their correct boof beauty. Nature is always con-sistent though she would try to contravene her laws. She equips her-





Gay flowers in red and orange ones with green leaves almost appear to be painted on the white background of this unusual silk print ensemble. The short box-like I T IS a good idea to go around with a screw driver and tight-en screws frequently. It is amaz-ing how many minor repairs can screw around on the top of the cake, pressing the thread down enough to get it soaped. Now use the screw wherever it is wanted, and you will find that it is much easier to turn, and also it fits more easily to turn, and also it its more securely. This is good, especially, when the screw has been used in the hole before, and is a bit loose. Screws should be very firm

By Charles Sughroe

and tightly fitted." There is no illumination for a dining table that is comparable to candle light. The tapers should be high enough not to intercept the vision of those looking across the table or else the candles should have shades. It is assumed in these instances, that the candles are near the center of the table. Candles that are not high, and are minus shades, can be placed nearer the edge of the table, and be satisfactory.

Number of Candles

It should be remembered that four candles are the correct number. Never use three, for three candles are too closely associated with church significances with a sad trend, to make the number suggest gaiety, and merry meals are good for the digestion. When When the table is small, or where the candles are for decoration merely. and not for the sole illumination,

two candles are satisfactory. During the summer when draughts of air are wanted, can-dles, even the best of them, will drip when at other times they will not and the wax gets on the table. It is not the easiest thing in the world to get the wax out. If the candles are colored, the dye has been known to stain the tablecloth or centerpiece.

Candlestick Doilies

To avoid this little annoyance, let me suggest using candlestick doilies. These can be as simple as circles or squares of dull finish damask table oilcloth to match the tablecloth in color. They will be inconspicuous, and are recommended for summertime cottage use, or for dining nooks in city homes, or for eating porch meals. Those who prefer better candlestick doilies, can make them of linen embroidered in self tones, white, or contrasting colors, with scal-loped edges. Or the doilies can be plain linen, lace edged. Unless the candles are of deep or brilliant dyes, these doilies are entirely sufficient. For more precaution circle or square of imitation damask oilcloth can be put be-neath the candlestick doilies. @ Bell Syndicate .- WNU Service

The Colon Archipelago

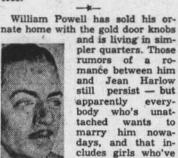
Colon is the official Spanish name for the archipelago popularly known as the Galapagos Islands. Colon is Spanish for Columbus and this is the name used by the Re-public of Ecuador, to which the islands belong.

Even a Genius Must Eat

****** STAR DUST Movie · Radio *** By VIRGINIA VALE ***

OE E. BROWN has been hav-J ing a grand time for himself lately. With his latest picture, "Earthworm Tractor," welcomed by the public as one of the funniest he's ever made, he started off on a vacation.

Being a rabid baseball fan, he took in a few games when he reached the East enroute to Europe. In New York he went to a double-header between the Yankees and the St. Louis Browns, and pre-sented to that sensational new Yankee outfielder, Joe DiMaggio, the award for being the most valu-able player in the Coast league in 1935.



never even seen William him, except on the screen. Incidental-Powell

ly, Powell is regarded by actors everywhere as one of the most skillful and talented members of the profession-a tribute which is justly deserved.

Apparently nobody's happy any more until they've seen Hollywood. Young John Jacob Astor and his wife are the latest recruits of note; they are on their way to the film metropolis in a private car.

Bob Burns (don't tell me you haven't heard him and his bazooka on the Bing Crosby broadcasts!) on the bing crossy broadcasts:) is having honors heated upon him. He worked in "Rhythm on the Range" with Bing, so the picture's premiere was staged in Little Rock, Ark., because Bob hails from the Ozarks.

Once upon a time The Revelers

were the most popular quartette on the air. From time to time one of the sweet singers would drop out and make a name for himself all alone-Jimmy Melton was one who did it, Frank Luther was anotherbut somebody else would step in and the result would still be swell. You don't hear so much about them as you used to, but they're still on the air, at 6:35 afternoonsand they're still one of the best.

Cowboys have for years been known as devoted fans when Western pictures are shown, a fact which puzzled one motion picture executive so much that he questioned some of them about it. He wanted to know whether they went because the pictures were so much like their own life. "Oh, no, they ain't like our life at all," one of them explained. "We

go because maybe we think that's the way other cowboys go on."

There'll be excitement on the air waves in September, when Major Bowes and his amateurs go into action at the same time as the "Showboat" broadcasts. Nobody's sure which program the great public will prefer—some say the listen-ers-in are getting tired of ama-teurs, and others claim that "Showboat" has been sailing too

Foreign Words and Phrases

Abusus non tollit usum. (L.) Abuse is no argument against the proper use of anything. Auri sacra fames. (L.) Accursed greed for gold.

Bon chien chasse de race. (F.) A good dog hunts from instincts; blood will tell.

Coute que coute. (F.) At any cost. Esprit des lois. (F.) The spirit

of the law. Favete linguis. (L.) Avoid ut-

tering ill-omened words; maintain silence.

In nubibus. (L.) In the clouds; not clear.

Doux yeux. (F.) Soft glances. Modus operandi. (L.) A mode of operating. Pot-pourri. (F.) A hotch-potch;

a medley. Tempus edax rerum. (L.) Time,

the devourer of all things. Lite pendente. (L.) During the trial.

Week's Supply of Postum Free Read the offer made by the Postum Company in another part of this paper. They will send a full week's supply of health giving Postum free to anyone who writes for it.-Adv.

Grass Overhead

One contented with what he has done stands but small chance of becoming famous for what he will do. He has lain down to die. The grass is already growing over him.-Bovee.





HEARTBURN FROM OVEREATING? Hurried or overeating usually causes heart-burn. Overcome heartburn and digestive distresses with Milnesia, the original milk of magnesia in wafer form. Thin, crunchy, deliciously flavored, pleasant to take, Each wafer equals 4 teaspoonfuls of milk of magnesia. 20c, 35c & 60c sizes at druggists.





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Soap Screws When a screw has to be renewed, or when the old one comes out and

utensils

percolator

If one

must be put back again, there is a little trick that will make the job easier. Soap the screw! Press

oak can be produced in no other

Would it not also be a very monotonous world if every person looked exactly alike? Would we not all be victims of ennui if every person behaved in exactly the same manner? In spite of variety in the moral world, the aspect of uniformity saves us from our worst enemy, ourself. In the realm of moral values, the creative moral impulses are born from within by a power higher than ourselves-a power "which makes for righteous-ness." If we add to our faith, vir-tue, to virtue, knowledge, and on which makes for righteousto the end of the octave of the high-est spiritual realities, moral and spiritual norms will manifest themselves in different ways, yet will they be true to their law of uniformity: individual reproduction in the individual mind and heart. The stable norms which know no vari-ety in essence are the realities upwhich character is developed. They govern conduct, enlarge per-

sonality, and are the principles which emphasize right living which which emphasize right hving which in substance is: "to do justly, to love mercy, and to walk humbly with thy God." @Western Newspaper Union,

know I know of one woman who had a rather, serious accident when the screws came out of the cord she

the percolator, may get badly scalded. Be sure

the screws in

get to make good use of the screw driver on such screws.



shoulders and accordion pleated sleeves.

pounds her creations and from it that she finds the power of uniformity in variety.

Growth and reproduction are essential characteristics of life, because all living forms are constantly reaching a limit of growth, and dying. Living things reproduce themselves, but one of the facts of reproduction is that the species alike in form, but always slightly different. We speak of this slight difference as individuality. Every species changes all its individualities in each generation. Thus does "one touch of nature make the whole world kin," and yet is each touch an individual touch revealing variety in uniformity. We may classify dogs according to their breeds and distinguish a German police dog from all other species, and one German police dog from another.

If the law of variety did not function, this would be a very monoto-nous world. The differences existing in the species itself are a challenge to the spirit of investigation as well as an element of appreciative value. The law of variety is not difficult to understand, since variations are caused by both heredity and environment. The uniformity in nature is also evident when we remember that "ontogeny recapitulates phylogeny"--or the history of the individual repeats it-self in the history of the race and

vice versa. Every acorn is sub-ject to the laws of growth, develop-ment, and disintegration. A forest



Donald McMurray, the thinking machine who completed a four-year course in ten months, and who now races for a master's degree, a year's work, in seven weeks, takes his food and drink from the hands of his bride, the former Evelyn Ehrlich, as he studies.

long. "San Francisco" is a grand picture, and is making money every-

where it's shown, especially in San Francisco. Yet the Chamber of Com-merce of that city is still trying to get Metro to take out

the earth quake scenes! Very wisely, Metro is refus-ing - lots of people go to see the pic-ture especially to see them. The pic-Clark Gable

ture has added to the popular Clark Gable's following and has demonstrated again that he has a great deal of versatility as an actor.

of the start of the story of th & Western Newspaper Union.





DO you suffer burning, D too frequent unination, backache, headache, dizziness, loss of energy, leg pains, swellings and pufiness under the syes? Are you tired, nerv-ous-feel all unstrung and don't know what is wrong?

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