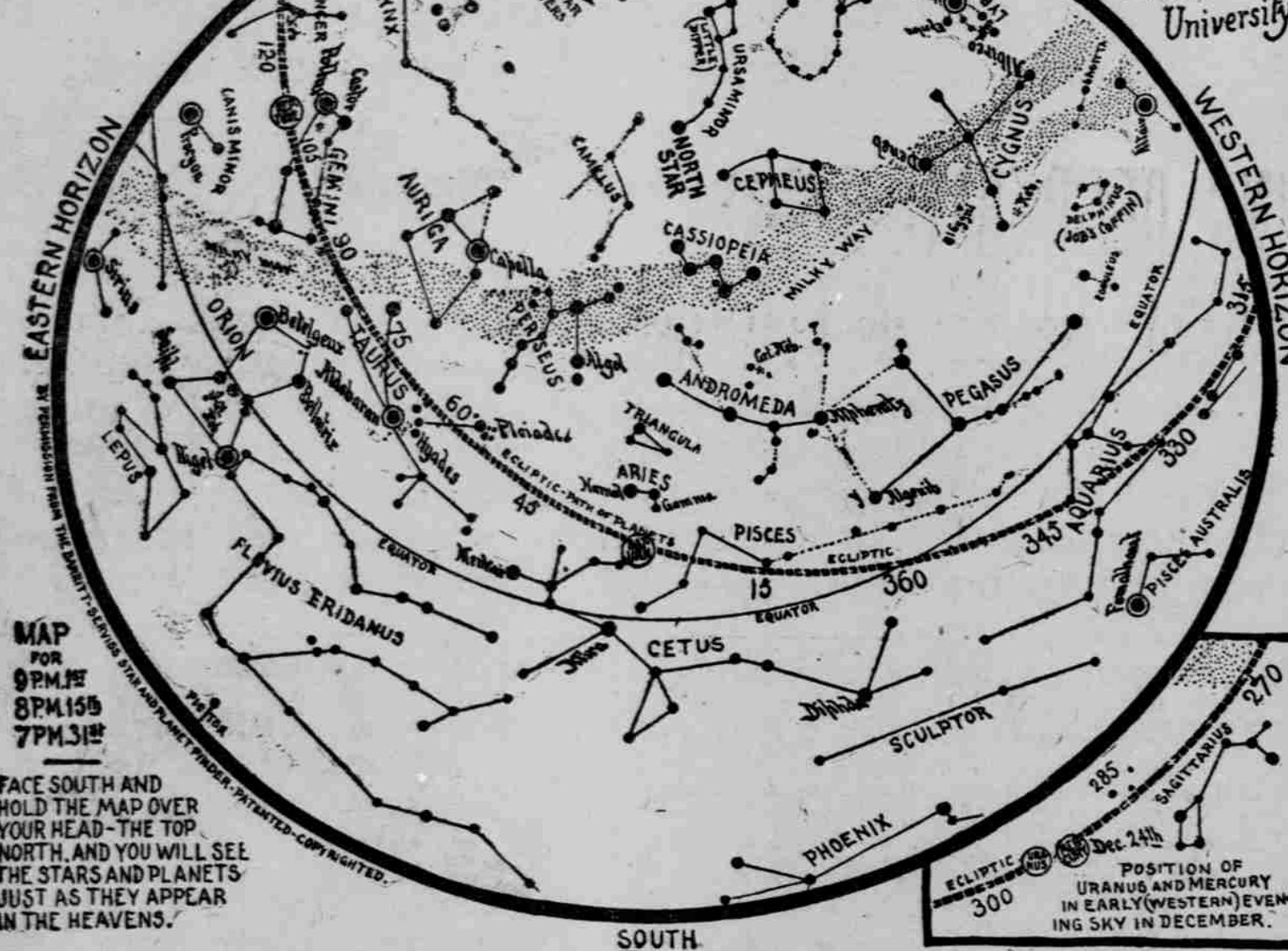


EVENING SKY MAP FOR DECEMBER

DEC. MOON PHASES. NEW MOON Dec. 1. FIRST QTR. Dec. 9. FULL MOON Dec. 16. LAST QTR. Dec. 23. NEWMOON, Dec. 31.

By Prof. S. Alfred Mitchell, Columbia University.



FACE SOUTH AND HOLD THE MAP OVER YOUR HEAD—THE TOP NORTH, AND YOU WILL SEE THE STARS AND PLANETS JUST AS THEY APPEAR IN THE HEAVENS.

ON one of the cool crisp evenings that come at this season of the year, we see the heavens sparkling with countless gems of light, apparently millions in number.

With a Small Telescope. Even with a small telescope, the light gathered to fall on the retina of the eye is many times that which falls on the unaided eye, and as a consequence many more stars are revealed.

The Darwinian theory of evolution explains the gradual development of life on this mundane sphere of ours. In the heavens we see abundant evidences of evolution, changes going on with majestic slowness, through eons of time.

The brightest of them are of the first magnitude, those just visible to the naked eye, of the sixth magnitude. The twenty most brilliant stars known to the ancients were regarded as of the first magnitude stars.

Magnitude of Stars. The magnitude of the stars, as a result of these measures, can be more accurately stated. The brighter a star is, the smaller the number representing its magnitude, and consequently a star of first magnitude is one magnitude brighter than one of the second.

Our sun is a star of the —26.5 magnitude, and it gives us 10,000,000,000 times as much light as Sirius. If the sun were twice as far away from us as it is, it would give only one-quarter as much light.

New Stars. Another new star has been found at the Harvard college observatory, the third of these bodies in a period of six weeks. When a star suddenly blazes out and increases its brightness in a remarkable manner in a short period of time, it is called a "new" star or "nova."

Some years ago Prof. Charles Lane Peirce of Columbia University showed that this comet in March, 1882, came very close to the great planet Jupiter. Before this date the comet had a period about the sun of more than a hundred years, but the attraction exerted by Jupiter was so strong that the comet was pulled out of its former orbit, was "captured," and made a permanent member of "Jupiter's family."

Mercury will be seen in the southwest about Christmas day setting an hour after sunset. Venus is still too near the sun to be visible. Mars is a moving star rising an hour and a half before the sun, but it is faint and uninteresting.

Legume Inoculation Of Soil

By W. L. Rockwell, U. S. Irrigation Expert.

FREQUENT inquiries are made regarding the benefit, if any, to be derived by inoculating the soil for leguminous crops, among which are alfalfa, cow peas, beans, clover, vetch and peanuts, hence a few words as to what inoculation means, and the methods employed in accomplishing same may be of interest.

There are certain bacteria which when present in the soil upon which legumes are being grown, cause the plants to take a certain amount of the free nitrogen of the air, which nitrogen is deposited in nodules on the roots of the plants, thus adding valuable plant food to the soil.

Two Ways to Do It. Inoculation is accomplished in two ways, by transfer of soil from a field in which the bacteria are present, and by the use of pure cultures of the proper bacteria. If the former method is employed, care should be exercised that soil is obtained from a field in which there is no foul seed, or disease.

lar system, and the interest attaching to it is great on that account. The Planets. Mercury will be seen in the southwest about Christmas day setting an hour after sunset.

Jupiter rises two or three hours before sunrise and during the winter will be seen more and more prominent. Saturn is still a magnificent object for a small telescope. It rises about sunset and can be readily found by any one, the brightest body last of the year.

Wrecking A Ship To Test A New Explosive

The first test consisted of placing 200 pounds of the new explosive, which consists of nitroglycerine, gun-cotton and marble dust in gelatine, against the starboard side of the after turret. It was fired by means of an electrical apparatus from the berth deck forward, on the Puritan. The second test discharged 200 pounds of the explosive at the belt line of the armor plate. This discharge caused the armor plate to give way and the monitor began to fill. The sinking ship was manned by a crew and rushed to the Norfolk navy yard for repairs.

Market Baskets of Regular Size Will Answer the Purpose.

Rib Roast and Corn Have Drop in Price This Week. Milady's market basket this week-end will be about the same as last week, if prices have anything to do about it.

With the exception of prime rib roast, which has taken 1 1/2 cents as a bottom, no meats have dropped. Pork, which last week took a tumble, stands pat, while lamb chops are very stiff at 10 cents.

A holiday novelty already on the scene is the "Christmas cantaloupe," a peculiarly shaped melon, which hails from California truck farms. Other melons, no green stuff has come in, while a few standbys have dropped out of the list.

A large drop is beginning to show in prices of feed. At retail, corn is selling at \$1.50, instead of \$1.55, and chops well have dropped 5 cents.

- Meats: Prime rib roast, 10c per lb; Neck pieces, 8c per lb; Breast pieces, 10c per lb; Crown roasts, 35c per lb. Pork: Leg, 20c per lb; Chops, 20c per lb; Steaks, 20c per lb; Sausage, 15c per lb.

- Fruits: Fresh cocoanuts, 10c each; Navel oranges, 25c to 50c per doz; Beets, 40c to 50c per doz; Christmas cantaloupes, 25c each; Empress grapes, 50c per basket.

- Vegetables: Brussels sprouts, 20c per lb; Artichokes, 10c each; California green peas, 15c per lb; Hubbard squash, 4c per lb; Calif. pumpkins, 4c per lb.

- Fresh Nuts: Almonds, 25c per lb; Brazil nuts, 25c per lb; Pecans, 25c per lb; English Walnuts, 25c per lb; Roasted peanuts, 20c per lb.

- Butter and Eggs: Butter, fancy grade, 40c per lb; Eggs, Sunflower, 40c per doz; Fresh candied eggs, 35c per doz; Eggs, ranch, 60c per doz.

- Cheese: Pimento cheese, 15c glass; German breakfast cheese, 5c a slice; Imperial cheese, 15 to 35c each; Holland cream cheese, 40c per 1/2 lb.

- Fresh Fish: Speckled trout, 17 1/2c per lb; Various Cal. fish, 15c per lb; Salmon, 20c per lb.

- Beef: Sirloin steak, 20c per lb; T-bone steak, 20c per lb; Round steak, 15c per lb; Chuck roast, 10c per lb.

- Lamb: Leg, 20c per lb; Shoulders, 12 1/2c per lb; Chops, 30c per lb; Breast pieces, 10c to 15c per lb.

- Mutton: Leg, 20c per lb; Chops, 25c per lb.

AUTO FALLS UPON GLOBE MAN'S NECK

Machine Smashed, But Carr Escapes With Only Bruises. Globe, Ariz., Dec. 3.—Thrown from his automobile while going 30 miles an hour, due to a broken axle, F. A. Carr's fell upon him and bruised his neck.

The accident occurred on the new territorial highway between the Roosevelt dam and Globe. Carr's escape was a narrow one. Had the machine gone three inches further, his head probably would have been crushed. The machine was wrecked.

MINISTER IS ACCUSED OF USING MAIL TO DEFRAUD

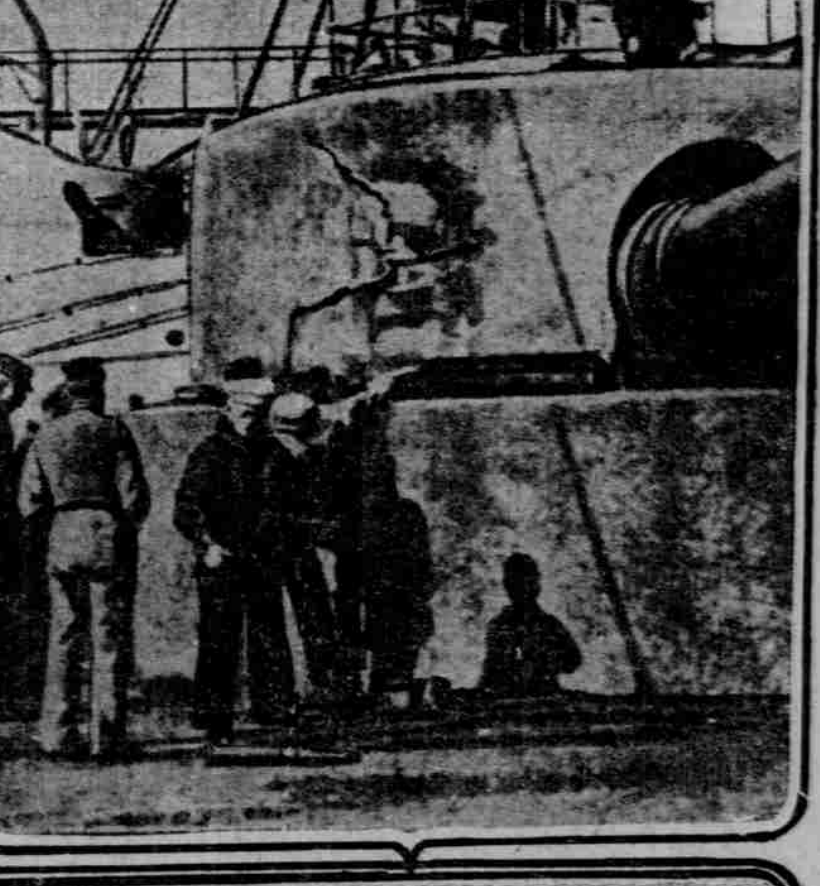
Chicago, Ill., Dec. 3.—Rev. H. C. Scott Ford, pastor of the Hamilton Park Congregational church, was arrested yesterday by agents of the department of justice, charged with using the mails to conduct a fraud. He was released on bonds of \$1000. The minister conducted a firm known as the National Patent Investment company. The government claims that the scheme used by the minister was to obtain from the patent office at Washington a list of persons who had received patents, and then mail a card to each, promising to exploit the invention.

HODGES MORE SERIOUSLY INJURED THAN WAS THOUGHT

Tucuman, N. M., Dec. 3.—Robert Hodges, the workman who was injured by the caving in of the foundation of the new Varenberg hotel, it was discovered on closer examination had his right hip bone fractured and suffered internal injuries. He was removed from the temporary quarters near the Adair garage, where he had been taken, to the Tompson hospital.

SELL BROOM CORN CROPS

Tucuman, N. M., Dec. 3.—Considerable quantities of broom corn are coming into this market. A. M. Wink, Charles Welch and Morgan Smith have brought their crops to town and disposed of them.



Scenes at the recent test of the new Isham explosive by the navy department. The above photograph shows a crack in the turret of the United States monitor Puritan, made by the new explosive. Below is a photograph taken as the explosion on board the monitor took place.

Advertisement for Baker's Breakfast Cocoa. Text: 'This Trade-mark is on Every Genuine Package of Baker's Breakfast Cocoa... which has a world-wide reputation for high quality... A beautifully illustrated booklet of Choice Recipes, sent free, will tell you how to use it in the best way. 52 Highest Awards in Europe and America. WALTER BAKER & CO. Ltd. Dorchester, Mass. Established 1780.'