

## 'IONOSPHERE' IS NEXT, BELIEVES U. S. SCIENTIST

Weather Bureau Official Speculates on Void of Outer Space.

BY HILLIER KRIEGBAUM  
United Press Staff Correspondent

WASHINGTON, Nov. 14.—What phenomena will man discover if he penetrates the stratosphere and voyages on into the unknown void of outer space?

Dr. William J. Humphreys, in charge of the weather bureau's research work, today speculated on what lies beyond the 14-mile mark set by the balloon Explorer II.

Nobody knows for sure because none has been there, just as sailors did not know—before the discovery of America—what lay beyond the Atlantic Ocean. But Dr. Humphreys said that he was almost positive that the temperature in the "ionosphere," a region approximately 50 to 75 miles above sea level, was as warm as the temperatures of a summer day in the United States. That is, close to 100 degrees above zero. The pioneer into the "ionosphere" could take along a Panama hat to replace the woolen mittens needed in the stratosphere.

### Scientists Generally Agree

Dr. Humphreys explained that scientists generally agreed to this theory because it was the region where meteors and shooting stars catch fire on their rush toward the earth, where sound waves bounce back to earth again and where the auroras are seen.

But the "ionosphere" explorer would find no air to breathe and he probably would burst.

The content of any given space of air would be much rarer than at the earth's surface. Dr. Humphreys said the lack of air would be more marked than the difference between standing room on Broadway on New Year's Eve when thousands are crowded together and a southwestern desert where there is not even one settler to 40 square miles.

### Radio Waves Stopped

Radio engineers have known for years that there was a "radio roof" which stopped the radio waves and sent them back to earth or bent them so they shuttled along the "roof." Scientists are not agreed on whether the "ionosphere" which Dr. Humphreys described is the same as the "radio roof."

L. T. Samuels, assistant chief of the aerology division of the bureau, who supervises the sending of sounding balloons into the sky, said that free balloons carrying instruments had reached a height of 23 miles.

The difference is that the men have to get back to earth safely while the instruments can parachute down from heights which would kill men.

ELECTED 'MISS AUTO SHOW HOSTESS'



Miss Martha Moore

## SOUTHPORT LODGE TO MARK FOUNDING

Masons Will Hold Dinner Saturday.

Southport Lodge 270, Free and Accepted Masons, is to observe the seventy-fifth anniversary of its founding with dinner, entertainment and initiation Saturday at the hall.

Bert Essex, world traveler, is to speak. Arrangements are in charge of a committee consisting of William G. Hartman, worshipful master; John A. Whalen, senior warden, and Ralph E. Smith, junior warden.

Other officers are Leonard McAlpin, treasurer; Otis O. Burnett,

secretary; Charles W. Miller, senior deacon; Howard C. Smith, junior deacon; Omer W. Brewer, chaplain; Francis H. Bennett, senior steward; William Bohne, junior steward, and John E. Zintel, tyler. Trustees are Mr. Zintel, Charles Bohne and Harry O. Strong.

Rites Set for Negro Evangelist Services for the Rev. Charles F. Anderson, Negro Baptist evangelist, who died yesterday in his home, 1361 Hiatt-st., are to be held at 1 Saturday afternoon in the First Baptist Church of West Indianapolis. Burial is to be in Mount Jackson Cemetery.

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## FRANK WALLACE TO PARTICIPATE IN PEST PARLEY

Entomologist Will Go to Capital to Discuss Beetle Problem.

Frank Wallace, state entomologist, is to go to Washington Saturday for a conference on the Japanese beetle situation. The parley is to be held under auspices of the Bureau of Plant Quarantine, Department of Agriculture. W. C. Reed, Vincennes, representing Indiana nurserymen, is to accompany him.

Anticipating agitation to extend the Japanese beetle quarantine area, Mr. Wallace said he is prepared to defend the plan under which Indiana, with Federal co-operation, is waging its fight against the pest.

Embracing Indiana within the quarantine belt would mean great inconvenience to auto drivers who would be required to submit to inspection at the state line, he said. This was done some years ago during the corn borer quarantine.

Extending the quarantine would hasten the time when the beetle might constitute a serious menace. Mr. Wallace said, adding that he sees methods being employed here are effective.

He revealed that 59 Japanese beetles were found in the 2500 traps placed on Indianapolis lawns last summer. Early in the year 40,000 pounds of lead were sprinkled on lawns to poison the ground in an effort to destroy the larvae.

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