

SUN RAYS FOUND WEATHER GUIDE

Long - Range Predictions
Based on Energy Received

By Earth.

By Science Service

WASHINGTON, March 1.—Long-range weather forecasting, based on accurately made measurements of variations in the radiant energy received by the earth from the sun, are now practicable, Dr. Charles G. Abbot, secretary of the Smithsonian Institution, declared here yesterday in the Twelfth Hour lecture.

Dr. Abbot told of successful trial forecasts made by himself during recent years. He predicted rainfall in the Tennessee valley during a given three-month period would be between 84 per cent and 87 per cent normal. As subsequently measured during the period covered, it was actually 87 per cent normal. On the basis of what appears to be a general tendency for the weather in a given locality to repeat itself about every 22 years, Dr. Abbot made what might be termed forecasts after the event for a number of American cities, and compared them with the records of actual weather.

Great Droughts Predicted

Finally, for the farther future, Dr. Abbot predicted that great droughts in the Northwest in the years 1975 and 2020 will result in serious lowering of the water level in the Great Lakes.

As background for so bold an undertaking as the forecasting of weather on the earth by a study of conditions on the sun, Dr. Abbot reminded his listeners of the sun's enormous power as a radiator of free energy.

But this radiation is not steady and unvarying. Dr. Abbot has identified not less than 14 cycles, or rhythmic curves of ups and downs, which the instruments maintained in three different parts of the earth by the Smithsonian institution have measured in solar radiation.

Action of Sunspots

As one fairly direct cause of departure from the average, Dr. Abbot called attention to the way sunspots operate. Each sunspot pours out a great conical spray or jet of electrically charged particles, like a stream of minute bullets from a gigantic machine gun. These sweep in vast circles as the sun makes its 27-day revolutions on its axis. These streams of particles have a scattering effect on the light that strikes them, so that when one sweeps across the earth there may be a drop of from one per cent to as much as five per cent below normal in the day-to-day radiation received on the earth.

In conclusion, the speaker suggested the desirability of adding half-a-dozen more solar observatories to the three now maintained by the Smithsonian institution.

TWO ARE VICTIMS IN HOLDUPS HERE

As he stopped for a traffic signal at Rural st. and Southeastern ave. last night, Donald Rutherford, operator of a filling station at 4014 Southeastern ave., agreed to give two men a lift for a dollar.

He drove them to 10th st. and College ave., where they forced him out of the driver's seat and drove out near Ft. Harrison. There they took \$9 from him, shoved him out of his car and drove away.

Max E. Farquer, 1918 Dexter ave., was in his garage changing the license plates on his car last night when a man came up behind him, pulled a revolver and took \$54 from his billfold.

TWO PERSONS INJURED AS ENGINE HITS AUTO

Two persons were in a fair condition at the City hospital today after they were injured last night when a locomotive struck the car in which they were riding at the Monon railroad crossing on 25th st.

The injured were the driver, Arthur Salladay, 31, of 375 E. Emerson ave., and Edna Becker, 38, of 120 E. 30th st.

Mr. Salladay told police that the crossing lights were not working. Watchman H. C. Wilson said they were.

Russians Using Onion Paste To Treat Badly Wounded

By Science Service

BALTIMORE, March 1.—Promising results with onion paste used as a dressing for infected wounds are reported by Dr. I. V. Toroptsev and Dr. A. G. Filatova, of the Tomsk State University and the All-Union Institute of Experimental Medicine, U. S. S. R., in the forthcoming issue of the American Review of Soviet Medicine, published here.

The experiments with onion paste as a weapon against infection and an aid to healing of wounds followed reports by Dr. B. Tokin, that the essential oils of onions, garlic and other certain strong-scented vegetables contain substances that kill bacteria, protozoa, and even larger organisms like yeast cells and eggs of certain lower animals.

The bacteria-killing substances are called phytoncides. They have not yet been identified chemically, but are extremely volatile, so that the paste has to be made immediately before use. The preparation consists simply in grinding the onion or a portion of it after the dry leaves have been removed. The paste is then put into a glass dish with a diameter equal to that of the wound and is applied so that the paste does not come in contact with the wound, which is exposed only to the onion vapor.

Vaporization, as the treatment is called, is done for 10 minutes, usually in two five-minute intervals with a fresh onion paste each time.

Speaks Here



COL. ALBERT F. CHESHAM, Chicago, chief secretary of the central district of the Salvation army, and Mrs. Chesham, will speak in Indiana this week-end. Col. Chesham will speak at the United Salvation army services Friday night at the Fountain Square hall, at the Pendleton reformatory Sunday morning, and at the Citadel in Indianapolis Sunday night. Mrs. Chesham will address several women's organizations.

Chosen DeMolay '44 Sweetheart

This year's DeMolay sweetheart is Miss Patricia Purdy, daughter of Mrs. Myrtle Purdy, 2228 Lang-



ley ave., who was crowned at the recent DeMolay sweetheart dance at the Scottish Rite cathedral. Miss Purdy was selected from a group of eight contestants, all members of Job's Daughters. She represented Bethel 8. She is a senior at Technical high school.

SCHOOLGIRL FINDS WAR WORKER'S BODY

HAMMOND, Ind., March 1 (U.P.).—An inquest was ordered today for Friday into the death of John Dahl-

berg, 64, war plant worker, whose body was discovered on a driveway in an exclusive residential district yesterday by a schoolgirl.

Police said wet clothing indicated the man might have been thrown or jumped into the nearby Little Calumet river. The body was marked by bruises and the officers were tracing Dahlberg's movements of Tuesday to determine who had last seen him alive.

Officers rescued him from the river in 1940. At that time, Dahlberg said he had fallen into the stream.

FORMER WILLKIE TEACHER IS DEAD

Times Special

ELWOOD, Ind., March 1.—Miss Mary Elizabeth Cox, Elwood school teacher for 53 years who numbered Wendell L. Willkie among her pupils, died yesterday at the Mercy hospital. She was 75.

A native of Madison county, Miss Cox began teaching when she was 16. After a year, she attended Indiana university and then came to teach in Elwood.

Services will be Friday in the First Baptist church.

HOME-MADE CHEESE KILLS BABY, POISONS 4

SOUTH BEND, Ind., March 1 (U.P.).—Paulette Szalay, 15-month-old daughter of Mrs. Christine Szalay, died yesterday and her mother, two aunts and grandfather were reported in a serious condition as the result of food poisoning.

Coroner T. C. Goraczewski said the poisoning was caused by eating headcheese made by the family last week and improperly refrigerated.

FALL FATAL TO WOMAN

Mrs. Anna Brantlinger, 1606 Ludlow ave., died yesterday at the City hospital where she was taken on Jan. 10 after she fell at her home and broke her leg. She was 70.

THEN you were at his side—

If it was a fever or a fight—a cut finger—or just a child's fear in the night, you were at his side soothing, comforting, banishing fear or pain with cool, capable, tender hands. And even when he grew into long trousers and his voice changed you were hovering near ever ready to help—and when you got too motherly, you'd hear his "Aw, Mom!" But you both knew that if the going got too tough he would look to you for a little "making over."

But now he's far away, in such a man's world, and you can't be there to help him with his problems and his hurts, his aches, and his pains.

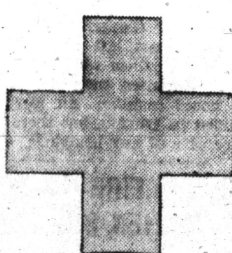


NOW your REDCROSS is at his side—

Of course it can't take your place, but it's a comfort to know that whatever the need Red Cross can supply it. If it's a personal problem, there's a Field Director to whom he can go for help and advice. On foreign soil he can get a bit of home in a Red Cross Club. Or if he's in some remote spot, there's a Red Cross Clubmobile that visits his outfit regularly. Through the services of Red Cross life giving blood plasma is there when he needs it. If he's hospitalized, Red Cross is at his side cheering him and helping him in every way possible. If he's in a prison camp, Red Cross food parcels and Prisoner of War kits get through to him to bring him the little comforts he needs. Yes, your Red Cross is always at his side no matter what the circumstances.

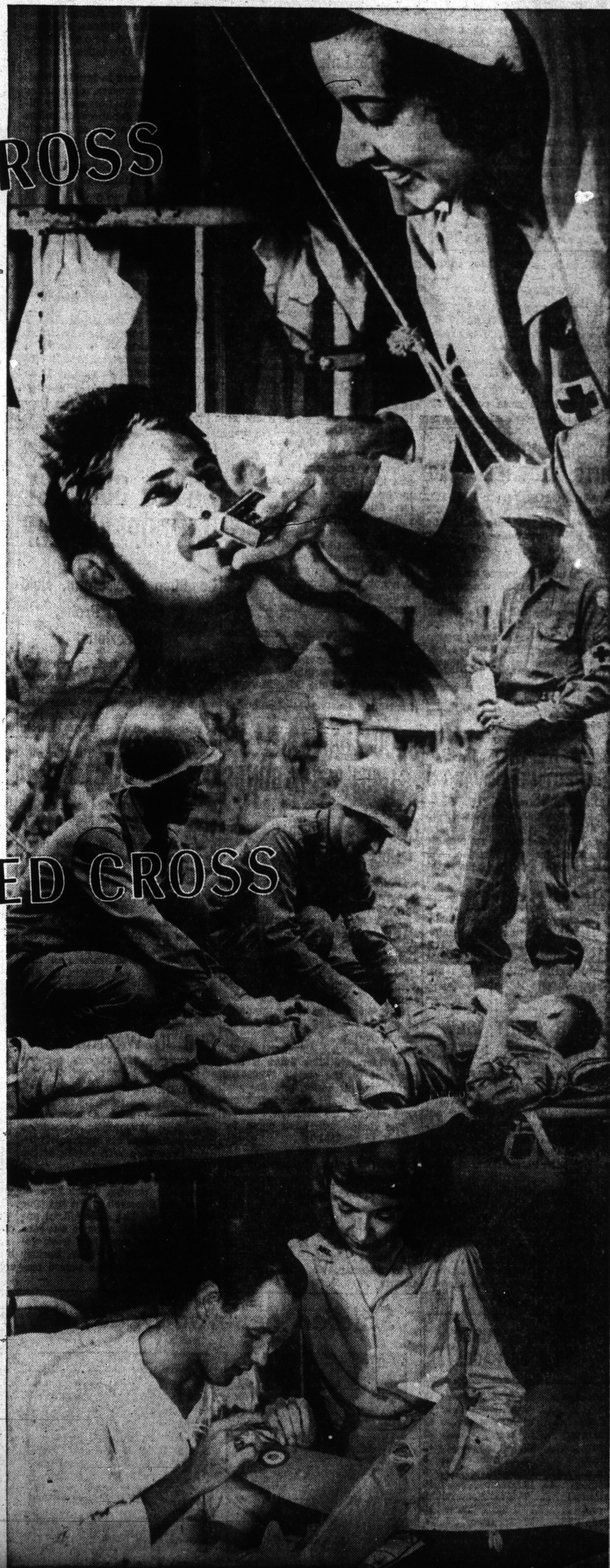
YOUR gift will help RED CROSS to help him—

It takes money for this far-flung service which is always with him. You can help Red Cross do a better job by being generous in the 1944 Red Cross War Fund Drive.



1944 RED CROSS
WAR FUND
MARCH 1-31

Published in the interests of the American Red Cross by
L. S. Ayres & Company



Compost is when decomposed soil. Some for contains the plant growth complete fertilizer such equal part of stone. Do not since it will much valuable fertilizer and over the pile up.

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WARTIME

More

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WASHINGTON brushing up types have bristles for c

Hair brush reclaimed br of real bristles per cent of 1942. Paint can be made of bristles special or from the product board.

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The war no plans to for civilians work out to share-the-clo

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