Celestial Spectacle for Which Astronomers Have Waited 18 Years Occurs When Sun Goes Into Eclipse

Glorious Orb of Day Will Be Blotted Out for One or Two Minutes as Black Ball of Moon Passes Before It.

Eighteen years ago Father Rigge, as special representative of The Bee, went to Washington, Ga., to observe a total eclipse of the sun.

When asked if he would go to Colorado with other eminent scientists to witness the eclipse of the sun, which will be total there Saturday, June 8, Father Rigge said:

"No, I will remain here for the reason that I have not the equipment necessary for the highly specialized work that is to be done now. Frost says that with a spectroscope set 200 miles from the line of totality good results can be obtained.

with it I hope to see the corona. If there is a rain the night before and a high barometer, atmospheric conditions will be ideal and I can do good work here."

The following is a special article on the eclipse, prepared by Father Rigge for Omaha readers:

SUN.

1918.

THE HEAVENS IN JUNE

Last quarter on the 1st, 11:20 p. m. New moon on the 8th, 5:02 p. m. First quarter on the 16th, 8:12 a. m. Full moon on the 24th, 5:38 a. m.

sun towards the right.

By WILLIAM F. RIGGE. it has been waiting for 18 years, and to see which astronomers often travel half way around the earth. This is a total eclipse of the sun, when for the brief space of one or two minutes the brief space of one or two minutes the brief space of day will be as it were. prief space of one or two minutes the solution of day will be, as it were, blotted out of the sky, and will reveal 5 54 1.28 5.53 9-Sun. to us the secrets of its immediate en5 63 1.23 5.53 11-Tue.
5 63 1.23 5.54 12-Wed.

From behind the black ball of the moon, which will place itself centrally before the sun, there will appear a moon, which will place itself centrally before the sun, there will appear a moon, which there will be tongues of flames of scarlet, and out-tongues of tly and curving away from the sun's les, like lines of iron filings near a agnet, and uniting at the sides into oad wings which fade away gradu-y like auroral streamers to two or e times the sun's diameter.

Worth Long Journey.

The beauty and rarity of the sight 5 56 1.27 8.59 30-Sun. 5 56 1.27 8.59 1-Mon 1 5 57 1.28 8.58 3-Tuo. well worth a long journey to see d its scientific value is not less portant, for as the body of the is hidden from our view behind a moon, astronomers have the rare portunity of seeing and photoaphing the sun's surroundings, article in Popular Astronomy for last November. The large 5 in the upper border of figure 1 means 5 o'clock sipse. A study of these surroundgs may teach us much about the
ture of the sun, and the nature of
a stars, for the sun is but a star
e the millions that adorn our
hty skies, and the stars are all suns

border of figure 1 means 5 5 clock
summer central time, which we keep
in Omaha. The 40 and 50 to the left
of the 5, and the 10, 20, 30, 40, to the
right of it, mean the minutes before
and after, so that by estimating the
distance of a place from these 10-min-

distance of a place from these 10-minute lines, the time of the beginning of the collipse may be found to the near-est minute. The dotted lines marked from N60W to S70W, W meaning due west, indicate the position angles, counted from the sun's north or south point, of the point of first contact at which the moon will first indent the sun's disk. The dashed lines B60R to B30R show the position angles of the sun's disk. The dashed lines B60R to B30R show the position angles of the same point of first contact as counted to one minute or less.

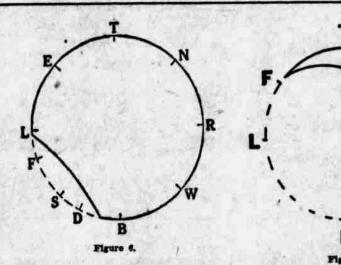
clipse of the sun is caused by son's passing before it. This is an hour from the moment he moon just begins to obscure it disk until it covers it comand it takes another hour for on to clear the sun again, while is do of totality cannot last more ight minutes and is generally in the moon is clear the sun again, while is do of totality cannot last more ight minutes and is generally in the moon is clear the sun again, while is do o'clock. The three close parallel curves denote the path of totality.

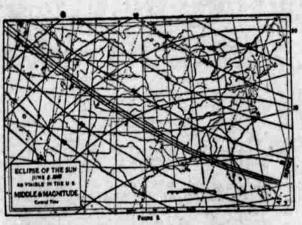
The numbers from 120 to 50 along its southern border indicate the seconds Caused By Moon.

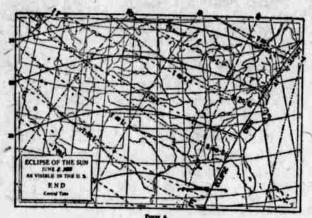
ile the exact moment the moon a to indent the sun is of great tance to astronomers in helptism to correct possible errors sir tables, it is no less so to the precise point on the sun's where the moon will begin to tack upon it. For this purpose mark off the sun's circumference are sike a circle, and use either reneral system common to all the sun's mean the minutes after 7 o'clock, general system common to all the rid, of the cardinal points N. S. E., or the local ones of T. B. R. L., bottom, right, left. Both of se, together with the times are the minutes after 7 o'clock, central time. The dotted curves S60E.

—E show the position angles of the point of last contact as measured from the sun's south point towards the east. The dashed curves T80L—

will convince you.







moment,

PARTIAL ECLIPSE OF THE MOON.

Besides the great eclipse of the sun on the 8th, we shall be favored also

the eclipse is over. And finally the surves marked "10, 9, 8, 7, on the upper border, indicate the full hours of the central times of sunset. Begins at 5:19.

From a study of these four figures punch a small hole in a piece of pastewith a small eclipse of the moon. This we gather the circumstances of the board, hold this to the sun and then will take place on the morning of
June 24. The magnitude will only be
13 per cent, as Figure 6 will show.
Here N. S. E. W. are the cardinal
points on the moon, and T. B. L. R.
mean top, bottom, left right. The
moon will begin to touch the earth's

87 degrees W, or almost due west, and
shadow at the point E at 4.46 a moon to the sun to the sun and then bottom of the sun to us in
Comaha. The eclipse will begin at the summer solstice on the 2st at 1
p. m. Then astronomical summer begins and the day is longest, 15 hours
degrees W, or almost due west, and
bottom of the sun towards the right, operater of an hour in length. shadow at the point F at 4:46 a. m., and leave it at D at 6:10. The eclipse will be greatest at 5:28. The moon will set at 5:59, five minutes after the sun rises.

The sun reaches its highest north

B 57 degrees R, 37 degrees from the clipse will take place at 6:25 and the eclipse will take place at 6:25 and the magnitude will sun on the 15th. It will be very near the eclipsed sun on the 15th. Venus is morning star rising on the 15th at 48.42 s. at S. 74 degrees E or T. 55

3:51 a. m. Saturn and Mars are eve-

will be to project the sun's image on a white card held beyond the eyepiece of a telescope. If we have no telescope at our disposal we may

ning stars, setting on the 15th at 11:55 p. m. and 1:46 a. m. respectively. The moon is in conjunction with Venus on the 5th, with Saturn on the 12th, and with Mars on the 1th.

Head of Iron Workers Is Given Sixty-Day Sent W. N. Chase, 2756 South To street, president of the local

Records Broken at Navy

One hundred and ninety-four men enlisted in the navy at the Omaha recruiting station Tuesday. This figure sets a new record for the local station. The previous high mark for one day was 156 recruits.

Hers in police court inursday morning.

Chase was arrested Wednesday night when complaint was made at police headquarters that he was attempting to sell an automobile belonging to the union.

Given Sixty-Day Sentence

W. N. Chase, 2756 South Twelfth street, president of the loral union of iron workers, was sentenced to 60 Recruiting Station Here days in jail on a charge of drunkenness in police court Thursday morn-

Save Food

Uncle Sam Needs It

Save Money

You Will Need It

OPEN AN ACCOUNT IN OUR SAVINGS DEPARTMENT

Deposits payable on demand—No notice required of intention to withdraw funds.

Accounts Opened With

ONE DOLLAR



3% interest paid on balances

3%

United States National Bank

Northwest Corner Sixteenth and Farnam Streets

Safe Deposit Vaults are on same floor as the Savings Department. Boxes may be rented for \$3 and upwards, per year. Protect your Liberty bonds and other valuable papers from loss by fire or theft.

D. C. ELDREDGE

Benson & Thorne "The Store of Individual Shops"

The Following Items are Concise Examples of Thrift to Be Practiced in Our Annual

Sale of Seasonable Merchandise June

Wash Skirts Variety of Styles

\$1.25

Splendidly made in a shape-retaining way of pique and gabardine. Pockets put on at different angles and novel belts form attractive trimming ideas.

Wash Skirts Another Group

\$1.50 and \$2.95 The materials include finely woven pique, gabardine, whipcord and fancy colored novelty

V'omen's Coats Limited Number

models.

\$19.75 Strictly tailored, belted and straightline odels. Wool velour, poplin, serge and wool

> Silk Dresses Were Up to \$39.50

Only styles of the moment included. Soft silks and taffetas-many out-of-the-ordinary and exclusive trimming ideas.

150 Girls Coats

Complete size assortment. Sizes 7 to 12 years and sizes 13 to 17 years for the growing girls and "little women." Black and white checks and other new fabrics—variety of this season's colorings.

Girls' Silk Dresses

Taffetas and crepe de chine dresses in navy, tan, rose and green. Sizes 8 to 14 years and dresses to fit the growing girls. Girls' Wash Dresses

\$1.25 and \$1.95 Girls' Wash Dresses Were Up to \$5.75

Women's and Girl's Low Shoes in the June Sale Choice \$2.85

I NCLUDING White Sea Island sport pumps, white ivory soles and heels, sizes 2½ to 7, widths AA to D—white nile cloth dress pumps, turn soles, Louis covered heels, sizes 2½ to 7, widths A to D—white sport shoes, white duplex soles and heels, desirable for growing girls. Complete size assortment, also broken lines of black kid, patent and beaded pumps and strap effects. Tan and black calf pumps.

175 Pairs of Boys', Misses and Children's Low Shoes at \$1.95

Including boys's tan and black calf oxfords, also patent leather oxfords, all welt sewed soles. Button and lace styles. Misses' and children's white canvas high and low shoes, patent, tan and dull strap slippers. All sizes represented, but not every size in every style. Exceptional values.

> Women's Wash Dresses Two Big Groups

\$5 and \$7.95

Voiles, dimity and gingham. Light, airy summer styles far in advance of the season. Unusual values, every one.

Boys' Bathing Suits Special, 65c Well made to properly fit the boy. One piece with skirt.

> Boys' Wash Suits \$1.25 and \$1.50

Two specially priced groups, easily tubbed, made of light and dark madras, chambrays and twills. Long and short sleeves. Trimmed collar and cuffs.

Boys' Hosiery Lee Unionalls 29c, 6 Pairs \$1.70 Boys' Fancy Sox Boys' Wool Suits 25c, 30c, 39c, 45c Special, \$6.95

Georgette Blouses Were Up to \$6.95

E. M. REYNOLDS V.P. es. and Gen. Mgr.

The regular quality-standard blouses that Benson & Thorne sell year in and year out. Wide variety of styes and colorings to select from. Specially priced in the June Sale.

Lingerie Waists

Scores of Styles

Plain and striped sheer voiles, effectively trimmed with lace, embroidery and tucks. Pretty collars and cuffs. Were up to \$1.45.

Lingerie Waists Were Up to \$2.50

These waists are shown in plain voiles, trimmed with lace, tucks, embroidery and organdy. Exceptional June Sale values.

Silk Suits Were Up to \$5

Every silk suit in the house reduced onethird in the June Sale. Semi-dress and dress styles in soft silks. Variety of colors.

> Children's Rompers 75c and 95c

Cunning beach style rompers for the little tots 2 to 6 years. Made of durable light and dark colored madras and gingham. Specially, priced during our Annual June Sale.

Children's Silk Coats

Silk coats for girls 2 to 6 years. Newest models and the most favored colorings of the season. Regularly \$5 to \$22.50.

Girls' Hats 1/3 Off

Girls' Dresses 2 to 6 Years 75c and 95c

Weather Footwear There is appealing cleverness in our immense offering of the season's Pumps and Oxfords, shown in all the latest styles and shades, including white nile cloth, cravenette and kid leather. The clever creations, bined with our very attractive prices, make our offerings second to none in style, color and quality. A call at our new store

The Latest Styles in



Popular Priced Shoe Store." New Conant Hotel Bldg.