The Heavens in June

By Prof. Eric Doolittle, of the University of Pennsylvania

The observer who has looked at the 1 to the 28th a shower of slow moving evening sky from time to time during stars, some of which leave trains bethe past weeks has seen the brilliant hind them, will be seen to move out-In the West, one after the other, until only the beautiful Leo remains us. Meanwhile the summer with us. groups have been mounting steadily upward from the East, the great ootes, which leads them all, reaching this month the highest point of little body whose career is thus the heavens and shining out with its brought to a sudden end after it has magnificent golden star Arcturus, di- circled for ages around our sun, and rectly overhead. The summer branch that now the nature and motions of

groups of stars slowly sinking ward from F. In all of these cases the awarm has become so scattered will probably be seen even after long watching. It is of great interest to reflect, however, that each one is a thus of the Milky Way, whose countless even such apparently ertitle and stars near Ophinchus are wonderful-temporary little objects as these have and

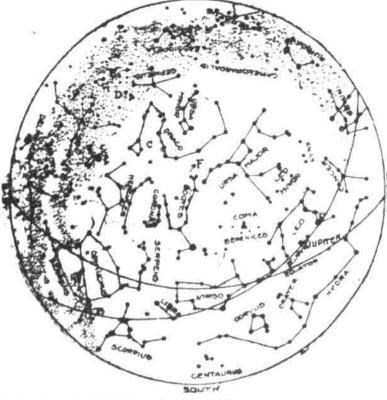


Figure 1-The constellation at 9 p. m. June 1.

ly gathered into great cloud forms, | ieen found out by the astronomers and in other portions are arranged in long streamers or branches, is now well up from the ground in the East. Lying along this golden highway are the beautiful Northern Cross, the brilautumn star Vega, the Eagle with its bright star Altair, at A. and in the extreme southeast the striking group of the Scorpion, which has not yet entirely emerged from below the

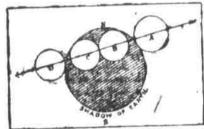


Figure 2-Path of the moon during the total eclipse of June 3.

ground. The observer may be interested in watching the disappearance of the Great Water Snake, Hydra, which for two months has been seen stretching almost entirely across th sky in the South. This group lies in such a position that almost all of its stars sink below the ground at the same time, in marked contrast to

'hief Justice of the State. The disattorney was later Attorney General and after that Governor of Texas. A young lawyer at the har was also elected attorney general. Governor, and is now a Schator in Congress and leader of the minority in that body. Buck Kilgore was another practicing lawyer there, and so was DeGraffen-

ried, another Congressman from There were others who at-Texas. tained to high places in the business All of us ate old Ragland's chickens, and some of us cussed old Ragland's table-also his beds, parbeds.

built

town

harren.

Pharaoh

From that day I have rever despaired of American citizenship. Herewas the best town in the world in which to die, and you could toss a stone 'from eend to eend" of it, and yet that community produced enough men who subsequently became distinguished to lend lustre to a big

city

of a great and a good man, who came from a little town of Ohio. He is unheralded to the world, but his is a luminous mind and his a heart of The woods are full of such peopold ple in our grand republic. They are salt of the earth, the conservathe tors of the institutions fashioned by our fathers and now in the keeping of

Just across the fiver from Kentucky

may, however, see the latter part of

the eclipse It is probable that our sabellite will not become wholly invisible, but that even when completely immersed in the shadow it will shine with a dull. copper-colored light. The source of light is the sunlight which is this bent down within the shadow by the Hough was graduated from the Cin rim of air surrounding the earth 1 13 observer on the moon would see the earth at this time surrounded by a brilliant ring of red light. If however, the regions of the earth along this ring are cloudy, so that the sun-trank at the bar. Mr Cleveland ap-light cannot penetrate it, the disc of pointed him s light of internal rethe moon may become wholly invis-

THE ECLIPSE OF THE SUN occurs a total ecluse of the

ROBERT TOWNSEND HOUGH BY SAVOYARD.

A little more than a quarter of a lis Highland county, Ohio, settled by century ago, the hot summer of 1883. the Quakers and the Methodists. Forspent some weeks in a little vflaker came from there, and so did lage of north Texas. It was a wooden Beveridge, It was an anti-slavery on the sand, the houses and thinned out that but few stars scattered hither and thither south community, and intensely hostile to will probably be seen aven after long of a narrow gauge railroad. The African slavery as it existed at the tavers was kept by an old fellow South, and Hilisboro was a way starained Ragland, and he fed his guests tion of the Underground Rallroad. on passably good fried chicken and Before the close of hostilities bemiserable porchouse ham from St tween the North and South and ere The buscuits were plethori-

with fat, inedible from soda, an apo the soldiers came from the front there theasis of indigestion, a provocation was a wheat threshing in Highland to dyspepsia and a challenge to miscounty, such work as we had in the The cornbread was even worse earlier day when neighbor helped and seemed to be made of starch. the coffee was excusable and the milk neighbor and grain was threshed by corrible. In some compensation therhorse-power, and they had a big and sumptuous dinner at the farmhouse were a few fig trees, not entirely In the woods round about at midday. On this occasion some were scrub pine and scrub postoak. twenty men and boys were at work sand like Sahara, and copperhead threshing a crop of wheat in a district of Highland county that had not a single Democratic vote. There came snakes like the locusts that plagued lown the dusty road a paroled rebel In that little town convened that hot soldier, who had left Ohio before the nonth of June the Circuit Court. The

war and settled in the South where district judge who presided became he joined the Confed-rate army. As he passed along one of the farmers engaged in the work of threshing said o the hands, "We ought to mob that traitor.'

CHARLOTTE DAILY OBSERVER, SUNDAY, MAY 30, 1909.

A big lusty boy 19 years of ige sprang from the straw stack, utch-fork in hand, and in impassioned voice exclaimed, "That man has as much right to travel unmolested the highway as anyone here," and he de-clared that such talk as the opulent and ignorant farmer had uttered was disloyal. The crowd gath-red around the youth and uttered many savage ticularly his beds, and especially his threats against him. He weighed 190 ounds, his muscles were as iron, and

> ols eves as fire. He had a giant's strength, and gripping his pitchfork, he uttered the defiance, "Come on, I can whip any ten of you." The entire layout was tamed by the master spir it of the boy and work was resumed and politics dropped,

> > Robert T. Housh was the boy, and the how was father to Robert Hough, the man, the jurist, the thinker, the gentleman, whom I came to know some forty years later. Hist father was a Methodist and an abolito nist, but this boy became a followof Vallandigham and a reader of The Cincinnati Enquirer. Character is the only coin that is full legal tender, and young Hough, when a candulate for office in that community some years later, on the Democratic ticket, got 48 majority in that very precinct where not a Democratic vote vas cast in 1864

As was the case of Frank Hurd, the intolerance of fanalic Republicans made an intense Democrat of Robert Hough, and he would vote his party's ticket though it were headed by the eternal old cloven-hoofed devil hunself.

In 1871 at the age of 22 Robert T climati Law School, and soon thereaf-ter he was elected clerk of the circuit court of Highland county. When the term expired he entered actively on the practice of law and took high. that responsible office. His history of

and argument upon the income tax P1131

chedule of the Wilson tariff bill is a production of which any leader of the American bar might well be proud; but it is a practitioner in proud; but it is a practitioner the court room that Judge Hough has gained most reputation. He is that marvel of lawyers-one never taken by surprise, never captive of a flank movement of an adversary.

When McKinley was first elected, ludge Hough resigned his office and entered upon the practice of his profession at Washington, where his friends are numbered by the scope of his acquaintance. A man , of the broadest character, one of those sinthe ners, "of whom I am one of which," who believe it was the mission of our blessed Lord and Saviour to succor "the unworthy poor" and bring solace to the heavily laden in spirit, Hough is narrow in nothing but his politics. He is a "yaller dog" Democrat, and that sentiment is embedded to the marrow of his great, ponderous, Pennsylvania Dutch corporosity. His most intimate personal friend is Judge Keegain, an Irishman, a 'atholic, a fellow lawyer and a Republican. Antagonistic in a thousand ways, religious and political, the two are as closely knit in friendship and fellowship as any two brothers in all the land. While I that write this plead guilty of the charge of being something of a ruffian, I envy Hough and Keegain the character universal they have made as perfect gentlemen. a term held all too cheap in our land; but it fits these two as the bark the tree.

I am now going to quote the daily prayer of Robert Townsend Hough. and if any boy in his teens or of tenderer years, shall do me the honor to read this account of a rather obscure freat man, I want that boy to memorize this prayer, repeat it morn and ve, and live it:

To-day let me live content, be clean,

refined, worthy, Act frankly, go slowly, listen well, think guickly, nothing, do my full share of the Fear

world's work. And rest to-night knowing 1 have injur-ed nothing that exists"

That is simpler than the advice old Polonius gave Laertes and just as good. Suppose all men practiced what Judge Hough's prayer implies? Well, he and Keegain would be out of jobs. There would be no use for lawyers, or governments, in this damned wicked world we live in, Sir Oliver'

I have Foraker has rung the fira darm again See Proverbs xxvi: 11 He advises a resort to the anarchistic homb to desproy the monument to Wirz, whom the South holds a martyr and the North a monster; and yet fewer Yankees died in rebel prisons than rebels died in Yankee priand that too when the Chris-SODS. tian North made medicine a contra-Fand of war, something unprecedented since tain invented war. Tilly Wallenstein ever dreamed of As for Jefferson Davis, the obliteration of his name from aban Joohn Bridge did him no harm, as its restoration did his mem-ory no good And besides, his image on the silver service of the ship Mississinge did the navy no harm, as it did his fame no good.

All I meant to say is that Foraker is striving to bring Copperheadism in fashion again in Ohio, and therefore max meanic necessary for Judge ense, and no abler man ever held | Hough to return to that State and in for Governor on a Vallandigham



MAN may wear collars the cost him 25 cents apiece an yet look no better, and fe no better than the man wh wears an Arrow Collar two for that price. LONG-TATE CLOTHING C



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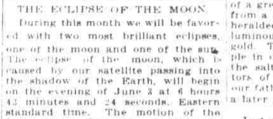
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Mr. G. W. Paysee

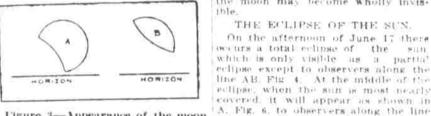
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noon during this eclipse is shown in The large circle N S repre-Fig. 2 sents the great conical shadow of the earth, which extends out into space in a direction exactly opposite the sun to a distance of \$50,000 miles. The distance through this shadow at the point where the moon crosses it is nearly 6,000 milles; as our satellite but 2,163 miles in diameter it may, therefore, pass completely into the shadow and become dark. In the resent eclipse the moon will reach the point B, and the eclipse become hours 58 minutes and 0 total seconds, it will reach C at 8 hours 59 minutes 42 seconds, so that the eclipse will remain total, the moon being



I am now about to write something

a later generation.

On the afternoon of June 17 there

the group Bootis, which occupies many hours in disappearing SHOOTING STAR SHOWERS.

Swinging ceaselessly around the sun

in great clongated orbits there are tens of thousands of clouds of meteoriematter, which by tidal action have the Atlantic been strepched out along their paths. Pacific const. In many cases the whole orbit is one long strip of little particles, not suf- completely hidden from the light of ficiently dense to be seen in any tele- the sun for about two minutes more

such a position that the earth passes the position D and the eclipse being through them once each year, cach entirely over at 10 hours 14 minutes little particle encountered is then 18 seconds p.m. burnt up by its friction with the air. Unfortunately, the moon at this

Unfortunately, the moon at this time is very low in the sky, lying aland is seen as a shooting star. Recause these particles are moving par- most as for below the equator as the

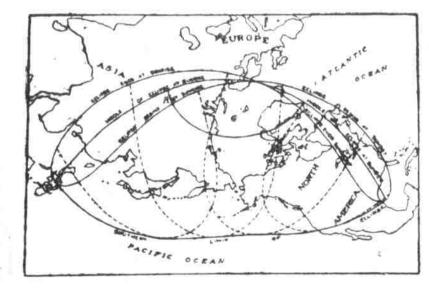


Figure 4-The eclipse of the sun Jun e 17.

allel to one another when the earth |sun does at the time of the shortest strikes them the shooting stars of any day. Its time of rising is, therefore, all appear to dart outward nanaually late in the extreme South-

from the same point in the sky. The most brilliant showers are those caused by Se dense swarms which the ones 7 hours 25 minutes. Consequentearth meets in August and November. Iv. the beginning of the eclipse canbut many interesting ones occur also at this time of the year. On any svening during June the observer, by careful watching, may see an occas-ional star move slowly over the sky in any direction from the region at B, Fig. 1, probably leaving a train behind it. Toward the beginning of the month swiftly moving stars may be discovered darting away from the points C, D and E, while on the 26th



Figure 3---Appearance of the moon when rising on June 3, as seen (a) on the Atlantic coast, and (b) on the AA, Fig. 5, to those along the lines

BR and CC, it will appear as shown at b and c. Fig. 6, respectively, while those below the line DD will see no eclipse at all. In the Northern States scope. But there are several hun-dred of these streams which he in will begin to emerge, shally reaching.

> Figure 6-Appearance of the eclipssun as viewed from stations along the lines MA, BB, etc., of Figure 5,

the eclipse will begin at about 7 p. m (Eastern standard time), and in the Southern ones at about 5 p. m. Ob-servers along the line HK will see the sun set when the collipse is just half over, those to the East of this line will see the beginning of the eclipse only

THE PLANETS

Jupiter is still high up in the sky in the constellation of Leo. but none of the other planets are visible in the evening. Mercury and Venus are still too near the sun to be satisfa torily observed, the latter planet setting 40 minutes after sunset on June 1 and 80 minutes after sunset on July 1. Saturn and Mars are morning stars, and may be seen a few hours before sunrise, the former in the constellation Pisces and the latter in Aquarius. Mars is now rapidly approaching the earth, but it will not be in good posi-tion for observation until next autumn. ERIC DOOLITTLE.



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