September Stars

HOW TO FIND THEM

tions of astronomy. But such knowlthe Ram, and Pisces, the Fishes, certainty from a comparatively new fessor Eric Doolittle in the branch of astronomy known as Double-Standard Union. The bright er is no longer directly overstars of the constellation something called the Northern ow down in the southeast may seen Fomalhaut, the Royal ntensely white star, which is South Pole of the heavens than any other bright star of the sky

THE MILK WAY. ans the most beautiful feature of the September sky is that great multitible of countless stars, the

special and ample road whose dust is

which forms a great arch over the from the south to the north. A: no other time of the year is this galaxy so bright as now, but to see it est the observer must be away slare of electric lights and the he very clear. If he will exwith a small telescope or a pera-glasses he will discover, o did three centuries ago, that nerely a nebulous stream, but there apparently congregated great swarms and in other cattered or even absolutely At these latter parts of the tream we can look through the Milky see the black sky beyond. the regions near Scorpius and Cassiorela will especially repay examina-

he true form of this great unistars is, what its size is and how its stars are moving, whether they ally drawing together or scatr even revolving about various cent les is not yet known. It is only known that all of the brighter stars of the sky, our own sun included, belong of the changes which are going on in the universe of stars as a whole will be one of the greatest achievements of the agaronomy of the future.

THE SEPTEMBER CONSTELLA-TIONS.

Let the observer face the South. Near the ground is Sagittarius, above this is wills, the Eagle, with Delphinus, the Dol him, a little to the northeast, while directly overhead is Cygnus, the swan, facing the North, the brilliant ntions Cassiopeia and Perseus t see while to the east of the Milky Way, statching al lthe way from Persens to Deiphinus, are the constella-

thems Andro, eda and Pegasus. Andromeda, the unfortunate daughter of Cenher and Cassiopeia was baland to the locks in exposure to the nother's boast of beauty. Perseus, her is represented by a bright constellation near, and as this is surremaded by the star dust of the Milky Way, he was characterized as "stirting up a dust in Heaven." This group is described by Kingsley:

"I set thee High for a star in the heavens * * Spreading thy long white arms, all night in the heights of the ether, Hard b ythe sire and the hero, thy spouse, while near thee thy mother Sits in her ivory chair as she plaits

ambroisial tresses;

All night long thou wilt shine."

THE NEBULA OF ANDOROMEDA The observer should not fail to look for the nebula of Andromeda. This with a pair of opera glasses is clearly seen as a small oval milky white patch of light. It is even visible to the naked eye and was described as early as the tenth century as the Little Cloud. This nebula is believed to be a new and enormous system, somewhat similar to the solar system, in process of formation. There is a central condensed nucleus surrounded by a series of rings Very like Saturn's ring system, and it enly two minutes. is believed that all of the interior part will condense into one great sun while the outer portions will condense into smaller suns and finally cool down into world just as the planets of the solar

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the great nebula which is believed to

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the heilliant constellation of the, be a planet whose birth is even now which was so striking last beginning. This study of the beginnings now sinking in the West, of worlds, during the formation of which countless ages of time pass take its place there are begin- away, is one of the grandest concepmight taint constellations of edge can be derived with far greater

> star Astronomy. THE DOUBLE STARS.

Many of the stars of the sky, when viewed with a telescope, are seen to be, not single stars, but two stars very close together. They are really two immense suns, which are revolving about one another under the action of the force of gravity. Many thousand such systems have already been dis- not be extended to the earth or other covered. A study of the way in which these bodies move has led to many subject to a similar meteoric encounter, most interesting discoveries. It has and thus Encke's comet may be swalbeen shown, for example, that the lowed up by the sun without, after all, great law of gravity is not peculiar to implying a similar doom for the planetthe solar system, but that it operates ary system. throughout the whole universe; that every particle of matter, even in the most remote star, attracts every other six hours. particle in exact accordance with this

There are many thousand clouds of nebulous matter in space, all of them which are visible to us being many milliens of miles in diameter. Each of these nebulas is certainly slowly condensing or shrinking together under its own gravitation, and as it condenses it grows hotter and hotter and also begins to rotate about an axis. It may condense into a single sun or, if the velocity of its rotation is great enough, it may break into a double nebula. In the latter case each part will separately form a star and the nebula will have become a double star system.

At first the two stars are intensely hot and in a plastic condition so that their mutual attractions raise enormous bodily tides on each of them. The effect of these is to rapidly push the two sums farther and farther apart and also to change the form of the paths which they pursue about one another. At last the contracting suns becomes solid and cold; the tidal action ceases and there remain but two dark bodies revolving slowly about one another a great distance apart.

All stages of this development are visible to us in the sky from the double nebulas to the old systems which are just dying out. In this manner also the earth and moon were originally developed from a single nebulous mass.

The stars of the map marked H and K are double; H cannot be seen with a small glass; it is composed of two tars revolving about one another in twenty-six years. K can be seen with a good field glass, and so also can the pairs marked L and R. The former of these is made up of two stars, one of which is golden and the other azure, presenting perhaps the most striking effect of color in the heavens. The latter is a qualruple star, visible as a double star to a keen eye even without atelescope. The star marked I is a triple star presenting an extraordinary fine contrast of colors. Formalhaut (marked F), has recently been discovered to have a faint companion, but this is only visible in the largest tele-

THE PLANETS.

month. Saturn is in the constellation Capricornus while Jupiter in the early evening is low down in the East. Toward midnight this planet has mounted ments to which additions were graduhigh up in the heavens, and it is then the most brilliant star in the sky.

The position of Uranus is as shown in Sagittarius, while Neptune is in the constellation Gernini, nearly midway etween the stars of Nu and Epsilon. The other planets are not in favorable position for observation.

THE TOTAL SOLAR ECLIPSE. clipse of the sun, but it will only be isible to observers situated in a narrow strip of the earth's surface ex- confidence of the people by predicting tending from the west coast of South America across the vast wastes of the and in this way convinced the skeptical Pacific. The eclipse will begin at seven of the importance of the work of the minutes, forty-eight seconds after 6 p. m., Greenwich time; its duration is

The next solar eclipse visible in the United States will not occur until June row strip of ground extending from sub-stations. This was done in 1884 Oregon to Flirida. On Jan. 24, 1925, the after the priests had made an offer to System have done. There is indeed a bservers in Main and Canada. lound condensed mass in the border of

MOST INTERESTING COMET

KNOWN. (By Garrett P. Serviss.)

St. Louis Republic. Within a few weeks it is almost cer-

ed making its way sunward and earth- military government has not altered It is in some way the most interest-

ing comet known. It is the only one that ever offered a distinct threat to the stability of the tion, and a staff of experienced men solar system. It did this by exhibiting devoted to their work. It was the rethe appearance of being resisted by the ward of recognized ability to leave ether through which, like all the other them there and there they remained .members of the system, it is compelled Macon Telegraph. to make its way in journeying about the sun as a center of motion.

On each return Encke's comet, which has made thirty-six circuits since its be worn. discovery in 1786, is a little in advance of the place it should have occupied if there were no interference with its

If all the bodies that revolve around Dunn Co., druggists.

the sun are resisted by the other through which they move like bullets through the air, there must come a time when the career of every one of them will be terminated by a catasrophe such as the imagination can

Encke's comet is a body of relatively very small mass. Compared with the earth, it is like thistledown to a can-

The thistledown quickly reveals the effect of the air resistance, while the cannon ball flies on with a velocity which at first seems hardly to be diminished at all. But if the resistance continues long enough the massive ball no less than the bit of down will be brought to rest.

So, for ages after Encke's comet had plunged into the sun, the earth and the other planets might continue pursuing their orbits, scarcely showing the ef-

fects of the resistance to their motion. It is by no means certain, however, that the resistance suffered by Encke's comet is experienced equally all around its orbit. It has been thought that the retardation may be limite

space near the sun, and i. to the ether, but to some me.... swarm through which the comet on each return.

members of the system that are not

In the last hundred years the period of the comet has been diminished about

There are indications that the acceleration is falling off in amount, and this strengthens the supposition that the cause is a meteoric encounter rather than etheric resistance.

The meteors may be gradually getting out of the comet's track, so that Eagle. eventually it will obtain a free way, in which case the promised tragedy may have a happy ending; but even in that event the comet will have been brought closer to the sun, and this fact will remain as a memento of the danger run and the peril escaped.

The comet will be in perihelion about the beginning of January, but it should be sighted from the earth, with powerful telescopes, not later than the 1st of

In October and November it will pass south of the Constellation Andromeda and through Pegasus to the Milky Way in Aquila. Here it will attain its greatest bright-

ness, and may be visible to the naked (Copyrikht, 1904, by W. R. Hearst, Great Britain Rights Reserved.)

PRIESTS AS WEATHER MEN.

Six Jesuit priests are the corps of workers in the weather bureau at Manila, a phenomenon that is pointed out to travelers in the far east and one which never fails to arouse their surprise, says the Washington Post. This arrangement, however odd it seems at first, is seen to be perfectly natural when one understands the situation and, to make the situation clear, six columns of the Daily Bulletin, of Manila, were devoted to it in an anniversary edition of that paper.

It is the boast of the capital of the Philippines that she possesses within her walls the pioneer meteorological institution of the Orient. It happened

in this way: In 1865 occurred a typhoon that caused much loss of life and property This territory had been assigned to the order of Jesuits and it was to them that the people looked for aid in times of stress, just as people in Catholic countries always look to their priests for help and instruction. The priests, Saturn and Jupiter are both in better realizing the need of some protection resitions for observing than last against a repetition of such a disaster, determined to establish a meteorological observatory, which they did by the procuring of a single set of instrually made. This was in 1865, ten years before the service of Japan was begun and nineteen years before Honk Kong took up the work.

The priest by whom the beginnings of this work were undertaken was Father Faura, who was allowed to devote all his time to the work of the observatory after 1878. Before that On Sept. 9 there will occur a total time the priests had done this in addition to their other religious and scholastic duties. Frater Faura won the observatory.

The success of the earlier years made t seem desirable to increase the efficiency of this work by giving the observatory an official character and , 1918; this can be seen along a nar- making it the center of a system of ight of the sun will be blotted out to the Spanish government to erect at their own expense a suitable building. The Manila observatory pointed out to travelers today is the result of this combination of church and state.

It is in this building that the visitor finds himself face to face with men who to all intents and purposes are government officials, yet who wear the black tain that Encke's comet will be detect- gown of the Catholic priest. American the strange condition. The necessity of an official meteorological service was evident. Americans found a first-class observatory, through a private institu-

> Mink and sable coats-those, too, of broadtail, caracul, and moleskin-will

> > MORE RIOTS.

Disburbances of strikers are not nearly as grave as an individual dis-The meaning of this acceleration, as order of the system. Overwork, loss stronomers know, is that the comet of sleep, nervous tension will be fold must be gradually drawing in closer to lowed by utter collapse, unless a rethe sun, and consequently traveling liable remedy is immediately employwith increasing velocity. The final re- ed. There's nothing so efficient to cure sult of such a process if continued long disorders of the liver of kidneys as enough, could only be the destruction Electric Bitters. It's a wonderful of the comet by its falling into the sun. tonic, and effective nervine and the Burwell & Dunn Rrug Co., Druggists, Such a fate for a comet is, in itself, greatest all around medicine for run of slight importance to us, but it is of down systems. It dispels Nervousvery great importance if it implies a ness, Rheumatism and Neuralgia and similar ending of the system as a expels Malaria germs. Only 50c, and trial of our never failing remedy, Resatisfaction guaranteed by Burwell & lief quick and safe. Paris Chemical

Life has been one long night of misery for me during the past three years, because of my miserable state of health. It seemed that I endured all the misery that a woman could endure in that time and live. Three years ago I caught cold while out skating, and suffered a severe fall at the same time. As it unfortunately happened during the menstrual period the subsequent consequences were as bad as could well be imagined. Inflammation and ulceration set in, not only in the womb, but also

in the ovaries, and affected the fallopian tubes.

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Patient Cured and Writes Him Thanks. Charlotte, N. C., June 8, 1903. Rev. Jno. E. White, Atlanta, Ga .:

Dear Brother: -About a year ago 1 wrote to you making inquiry as to whether Dr. B. M. Wooley, of Atlanta, was a reliable man. In answer to my letter you wrote me the following "I know Dr. Wooley well and am | of Buffalo, N. Y., have recently per-

informed about his work here. He is fected the finest. thoroughly reliable, and one of the COMBINATION FLOOR AND HOUSE best men in Atlanta. You can trust

Since then I have had dealings with Dr. Wooley and have found every very durable and is intended for both word you said not only true but of the new and old work. For floors, interior greatest value to me. Permit me to thank you sincerely for commending him to me. I have used his treatment | will make those old dingy and scratchand to my surprise, as well as great joy. I have been restored to perfect health. I shall heartily commend him new articles just from the factory. to any one. With kind regards, I am,

Yours truly, J. M. BAUGHAM. Charlotte, N. C., June 20, 1903. Dear Doctor:-You are at liberty to use the letter I addressed to Rev. Joan E. White, D. D., in any manner

Yours truly, J. M. BAUGHAM. For Book and full particulars, ad-

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