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1890.

CHANNEY'S ANNUAL

WITH



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J. H. BECKMANN, Pres.....W. H. CHANEY, V. P.

ADA DEELEY, Sec.

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## INTRODUCTION.

For reasons unnecessary to explain, the publishers have made many changes in the Almanac for this year. First, Ada Deeley has been admitted as a member of the Co., and elected Secretary, while I have been made Vice President and Editor in Chief. Our new Secretary has rendered very valuable assistance in calculating the Ephemeris, and also in setting the type for the reading portion of the Almanac. I have set the type for the Ephemeris, and thus all the work has been done by ourselves.

Thomas E. Taylor, T. C. Nichols and J. J. Wehrli who are among my students, kindly volunteered to assist in calculating the Ephemeris and have thus relieved me of a vast amount of labor. They are anxious for all the work to be done in America and that the Almanac shall be purely American, save such valuable articles as may be contributed by Alfred J. Pearce, whose two volumes of the "Text-Book of Astrology," and "Science of the Stars," we all consider as the best works on Astrology that have ever been published.

Another important change has been to omit the calendar portion as of no importance. Cords of calendars are published annually and given away, wherein the reader finds the times of risings and settings of the sun and moon; when the planets south; church days, saints' days, useful tables of various kinds, etc. etc. All these things, then, are as useless in an Astrological Almanac as the old English method of printing at the bottom of each page the first word of the following page. Young America is progressive and declines to follow a custom for which no better reason can be given than its antiquity. We have no admiration for people because of old families, but value a man according to his true worth.

The weather forecasts have been omitted because of no value in our great country, where it may be freezing in one state, thawing in another; a calm in one and a cyclone in another, etc. etc. The same planetary aspects exist in St. Louis as in California, yet there may be a terrible earthquake there and none here. So, too, we have the same aspects here as in Europe, yet not the same results. As a specimen of Raphael's predictions, I will refer to May 1889. He says: "25th to 28th mostly fair and warm." That would be the natural guess of a child who had sense enough to know when to expect warm weather; yet at that very time we had heavy, killing frosts, the worst that had been known, at that season for years, followed by the Johnstown calamity, and the loss of ten thousand lives, about which there was not a word of prediction.

The "Lunar Influences" have been omitted because I could not hear of any one, not an astrologer, who ever noticed them or the moon's aspects, and an astrologer can calculate them for himself. Therefore it is of no more importance to astrology than to know whether St. Bridget's day comes on the first of Feb. or first of April, although the first of April would be quite appropriate.

Finally, I omit the "Voice of the Stars." Americans are more interested in having their own Nativities than those of the royal paupers of the old world—men, women and children who are nothing but drones in the great human hive, of not the slightest benefit to mankind, who live in profligacy upon the earnings of the producing classes, many of whom are struggling in squalid poverty while royalty annually squanders tens of millions. We can learn astrology without studying the Horoscopes of the royal loafers.

In dealing with the Nativities which I shall insert, my sole object will be to instruct the public in relation to astrology, regardless of all personal considerations. I shall not choose prominent persons because of their high positions, but because they are well known, for if as well known, I would as soon have a beggar as a President for delineation. Moreover, I shall not adhere strictly to the text of delineation, but digress in order to explain, instruct and illustrate the science. I greatly desire that all should know it, and therefore teach for nothing, while the English charge £100 for teaching it. And I am determined to weed out, not only the errors, as fast as discovered, but the worse than useless nonsense that Raphael conceitedly calls "Birthday Information," which has needlessly been the cause of much mental distress to many a credulous mother. I will give a specimen of his fraudulent practices, for which I can see no motive beyond a hope that the mother may pay him a fee for the child's Nativity:

Jan. 18, 1889. "A child born on this day will be very unfortunate, continually poor and in trouble; possessing good talents, but will abuse them; if a female liable to disgrace."

In the name of truth, of this sacred science, and of humanity, I protest against this gross slander which can result only from ignorance or dishonesty. To fully expose this stupidity, or knavery, it matters not which, we will suppose a child to have been born, 1889, Jan. 18th, at 9. 10 a. m. in the city of London, Eng.

We see 17° of Sagittarius on the cusp of the Midheaven, with Jupiter 26° 18' in Sagittarius, and consequently on the Midheaven. The ascendant has 27° 46' of Aquarius on the cusp, Pisces being intercepted on the Ascendant and Venus in Pisces. Not one person in a thousand has so fortunate a Nativity. Uranus is Significator, and in the just sign Libra, while Jupiter is Co-significator, in his own celestial house and on the Midheaven. Venus being on the Ascendant is also Co-significator, angular, rising, and in her exaltation. Both the benefics have essential and accidental dignities. Such a person would become very wealthy, rise to high positions and be very popular.

Opposed to all these very good and very strong testimonies, we find the moon afflicted by the close conjunction of Saturn. True, this is an evil testimony, denoting weakness of moral character, but the configuration is in a cadent house and below the horizon—therefore much weakened. But even if angular and above the horizon, it would have but little weight against all these good testimonies. But as it may be urged that I have strained a point to make a good case, I will furnish a living testimony that the conjunction of Saturn and the moon does not ruin the moral character.

Luke D. Broughton, M. D. 66 West Fourth st. New York, was born in Leeds, England, with the sign Cancer rising, Saturn and the moon in conjunction, in Cancer. Here the evil configuration was in an angle, while the good testimonies were not one-hundredth part so favorable as in the hypothetical case under consideration.

I studied astrology with Dr. Broughton in 1866, and for months was a member of his family. I found him one of the most truthful, fair-minded men I ever met. Moreover, he is filling a Professor's Chair in the "Medical and Surgical College of the State of New Jersey," and is also President of the Board of Trustees, while his son Mark is Professor of Dental Surgery in the same College.

This case alone confutes the old foggy idea that the moral nature is degraded from the conjunction of the moon and Saturn.

Furthermore, in a woman's Nativity, Venus as well as the moon, must be afflicted, or there will be but little danger of her becoming disgraced. But if a girl was born at the supposed time, then Venus angular, and in her exaltation, even without Jupiter on the Mid-

heaven, would be exceptionally pure, in spite of the affliction of the moon. I speak from experience, instead of on the authority of the old astrologers. I accept no authority save that of demonstrated fact. I have just as good an opportunity for making observations as the old astrologers. Raphael needs these authorities, if unable to observe for himself. In Raphael's "annual address," 1889, this learned and conscientious astrologer, says: "I have been informed that some spurious copies of my Talismanic Manuscript are being sold, and I caution my readers against them." A talismanic figure is cut, drawn and engraved under certain superstitious circumstances, of the configuration of the heavens. It is claimed that it will produce extraordinary effects in averting or repelling evil; that it is a charm or, "talisman" to destroy diseases. In a word, it is only a modification of the negro vou dou, or a charm that is sold by unscrupulous fortune tellers. And some one has been counterfeiting poor Raphael's talismanic ku klux! How sad! Really, he is entitled to a monopoly of all the humbugs, past and present, and the man who would steal his "open sesame" would be mean enough to steal acorns from a blind pig.

Several have desired to know why I have adopted the name of "Magic Circle"; and I will explain. Magic is the adjective derived from the noun "Magus," which originally signified a Persian Priest. Anciently the priests of India, Chaldea, Arabia, etc., were astrologers. In time astrologers arose who were not priests and were called "Magi," the plural of Magus. Then from Magus came Magician, at first only an astrologer, but eventually the word signified more than philosopher, for the Magician was a scientist also. During the dark ages the orientalist degenerated, and many of the arts and sciences were lost. Then it was the Arabs perverted astrology into a system of divination. Palmistry was invented and the planets assigned, according to the merest whim, to various parts of the hand. Geomancy [from the Greek "ge," the earth—to divine by the earth,] was also invented, when the signs of the Zodiac, as well as the planets, were pressed into service, utterly regardless of their scientific import.

My aim is to restore astrology to its ancient dignity and reliability, and restore also its nomenclature, in part at least. In the new translation of the New Testament the translators have substituted Magi for "wise men," because these shepherds were astrologers, and the term "wise men" does not so fully convey the idea of astrologers. Because the diviners have perverted the term to mean sorcery, enchantment, necromancy, etc. is no reason that it should be repudiated. In like manner the name Venus has been perverted to mean all that is low and vulgar, but we still admire the chaste and beautiful Venus. I think the reader will now understand why I have adopted the name "Magic Circle."

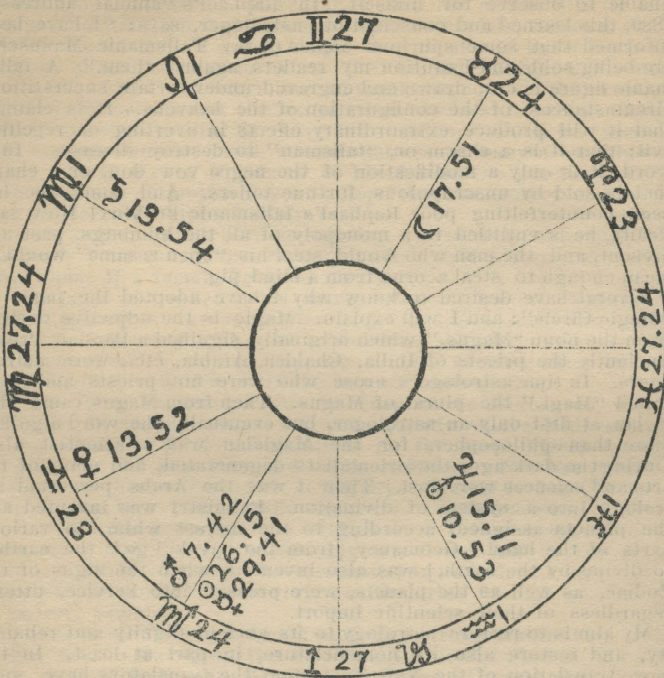
### THE SIGNS OF THE ZODIAC.

♈ Aries.	♎ Libra.
♉ Taurus.	♏ Scorpio.
♊ Gemini.	♐ Sagittarius.
♋ Cancer.	♑ Capricornus.
♌ Leo.	♒ Aquarius.
♍ Virgo.	♓ Pisces.

### PLANETS.

☉ Sun.	♀ Venus.	♄ Saturn.
☾ Moon.	♂ Mars.	♅ Uranus.
☿ Mercury.	♃ Jupiter.	♆ Neptune.

## THE HOROSCOPE.



## INTRODUCTION.

Capt. Charles Latimer, deceased, late of Cleveland, Ohio, was an intimate acquaintance of the Garfield family, and in 1886 wrote me that Garfield's mother informed him that she remembered distinctly of hearing the clock strike two, in the morning, just as James was born. In those days the clocks were made to keep solar time instead of mean time. Therefore no correction is to be made for the discrepancy, which, on Nov. 19th, is about 15 minutes. A slight deduction has been made from Sidereal Time, at noon, for the ten hours before noon, in order to find the exact S. T. at the moment of birth.

The student is referred to our Almanac for 1889 for other explanations, and for rules for making a Horoscope. As I do not intend to calculate the Directions, it is unnecessary to calculate the exact longitude of the cusps of the Houses, and therefore I have used New York Tables of Houses, which give the longitudes of the cusps near enough for the purpose of delineation.

According to the data of birth given, Gen. Garfield was born when the scientific sign Virgo, which is ruled by Mercury, was rising at the eastern horizon. Therefore Mercury, which is the ruler of intellect, is his significator, or "ruling planet." The scientific

sign Gemini was on the cusp of the 10th House, or Midheaven, and is also ruled by Mercury. The sign Cancer, ruled by the moon, was intercepted on the Midheaven. Thus it will be seen that the constellation Orion, of which Elijah H. Burritt says: "It is too beautifully splendid to need a description," occupied the House of Honor, Profession, etc. when this illustrious American was born. On the planispheres, globes, celestial maps, etc., Orion is represented as a man, assaulting Taurus, while the bull has his horns lowered as though to give the mighty warrior a toss, or crush him beneath his knees. Manilius thus describes him:

"First next the Twins, see great Orion rise,  
His arms extended stretch o'er half the skies;  
His stride as large, and with a steady pace  
He marches on, and measures a vast space;  
On each broad shoulder a bright star displayed,  
And three obliquely grace his hanging blade.  
In his vast head, immersed in boundless spheres,  
Three stars, less bright, but yet as great, he bears,  
But farther off removed the splendor's lost—  
Thus graced and armed he leads the starry host."

Thus wrote the Latin poet before the alleged date of the birth of Christ. Yet Homer, who flourished a thousand years earlier, mentions Orion. Even before the Bible was written, this magnificent constellation had been mapped out and named Orion. It is mentioned in the fifth chapter of Amos in connection with the "seven stars," or Pleiades. Again in J. b xxxviii, 31, in the same connection, where God says: "Canst thou bind the sweet influences of Pleiades, or loose the bands of Orion?" The relevancy of naming both in the same sentence will be apparent when it is remembered that the Pleiades consist of a cluster of stars in the neck, or shoulder, of Taurus, which is in juxtaposition with Orion.

Thousands of years before the time of Claudius Ptolemy, (who was born in the first century of our present era), Orion had been studied, and it had been observed that when on the Midheaven at ones birth, other planetary configurations being favorable, the person would acquire distinction as a warrior, a hunter, or philosopher, according to the predisposing nature of other testimonies. In the case of Gen. Garfield the intellectual strongly predominated over every other characteristic, but still there was a shade of the warrior in his make-up, as indicated by the position of Orion on the Midheaven.

#### PEARSONAL APPEARANCE.

The rising sign, Virgo, denotes a tall man, rather slender, and of good proportions. The moon is in Taurus, denoting a plump, shortish person. Mercury, his significator, is in Scorpio, which also denotes a shortish person, and Scorpio being a watery sign, signifies that he would become fleshier in the later years of life. These last two testimonies somewhat modify that of Virgo.

#### LIFE AND HEALTH.

The rising sign is Hyleg [Giver of Life] and as Virgo is afflicted by the presence of Saturn, the constitution was not so strong as his looks indicated, and no astrologer could have predicted very long life. Virgo rules the stomach and intestines and Saturn in Virgo denotes chronic ailments in that region. The moon is afflicted by an opposition of Mars, and far more seriously hurt by the close parallel declination of Uranus. Mars denotes acute ailments, such as fevers, burns, stabs with sharp instruments, gun-shot wounds

and so forth. Uranus denotes acute ailments, of an odd kind, strange accidents, unexpected calamities, etc. The moon being thus afflicted must be taken as the Anareta, (destroyer of life), and more especially because she is in the 8th, or House of Death. Wilson, author of "A Complete Dictionary of Astrology," in discussing the "Anarectic Point," page 3, says:

"If Mars be oriental, in quartile or opposition to the sun from fixed signs, threatens the native with murder or suicide, and the same if occidental and so aspecting the moon."

In this case Mars is oriental, in the fixed sign Scorpio, while Uranus is occidental, in the fixed sign Aquarius, the moon also occidental and in a fixed sign. When Wilson wrote, the astrologers knew but little about the nature of Uranus, but during a quarter of a century of careful observation I feel assured that Uranus denotes accidents and sudden misfortunes as clearly as Mars does. Therefore the conclusion is plain that Gen. Garfield was likely to die of violence.

In judging whether by his own hand, or the hand of another, all the testimonies must be considered. Saturn predisposes to suicide when strong in the Nativity, but in this case he is in trine aspect to the moon, which is favorable, and there are no testimonies indicating suicide. Besides, the General was a very intellectual man not predisposed to melancholy, as is shown by the presence of Venus on the Ascendant. Hence, my pupils would have no hesitation in predicting that with these testimonies the person would not commit suicide, but would be in great danger of being murdered. It is so plain to me that I wonder how even an ordinary reader cannot see it.

Saturn in Virgo may be considered, in part at least, as the Promittor, that is, promises the nature, condition, circumstances of the event, though not in the sense of Promittor in Primary Directions. The position in Virgo denotes that the portion of the body which Virgo rules, namely, the stomach, would be the seat of the ailment which would eventually destroy life. I learned from Capt. Latimer that robust as the General appeared, his stomach was delicate. Moreover, the bullet of the assassin entered his body in the region of the stomach. Under these circumstances there is no person in the world, entitled to be called an astrologer, even though but an amateur, who would have looked for that bullet in any portion of the body other than that ruled by Virgo. Yet the most eminent surgeons in America, ignorant of astrology, forced a probe eight inches through the sound muscle, into the portions ruled by Libra and Scorpio, in a vain search for the murderous bullet.

But this was not the most disgraceful feature of their malpractice. A very distinguished doctor and scientist invented and built a machine endowed with so much intelligence that it could point out the exact pathway of the bullet, and relying upon this ingenious device, the surgeons completed the killing which Guitteau had begun. To cap the climax of such invincible stupidity, they should have procured a child's caul, such as has been advertised in Raphael's Astrological Almanac, or "Raphael's Great Work on Talismans," or "Raphael's Book of Dreams," or "Raphael's Book of Fate," and similar trash which he advertises annually and which has brought astrology into disrepute. And if such humbugs bring reproach upon astrology, why should not such malpractice disgrace the learned doctors? No wonder they need state laws to protect them, for they cannot rely upon their merits. Washington died

from malpractice. Bled three times within a few hours, and when the vital fluid was all drained from his veins, it would have been a miracle had he survived. Yet Humbug Raphael, and doctors like these, are among my most bitter enemies; and no wonder, for my exposure of their evil practices seems to be taking the bread out their mouths and preventing them from making an honest (?) living.

After the death of Pres. Garfield, the learned doctors, anxious to vindicate themselves and their practice, had an autopsy in order to continue their search for the bullet. Of course it had gone down, for the wonderful little instrument had so indicated. Even if I had been there and told them that according to astrology the bullet was in the region ruled by Virgo, they would have laughed me to scorn, because astrology is a humbug, but their ingenious little joker was the product of scientific and medical skill, and therefore was the pink of surgical perfection.

So they hurriedly removed the stomach and intestines, bestowing scarcely a glance upon them, and then joyfully went on with the butchering which death had prevented them from completing. After searching for hours, they gave it up in despair. The bullet could not be found. But as they returned the viscera, lo, and behold! There was the bullet with the stomach and intestines, just as any astrologer would have expected.

I was living in Oregon when these events occurred, and when I read the telegraph reports of how they were torturing the noble sufferer with their scientific probes, I wrote to them where to look for the bullet; but I was treated as a crank and the glorious work of science and torture still went on. Now, since I was right and they were wrong, if I am a crank, what are they? For further particulars see "Raphael's Book of Dreams" and his wonderful predictions of disturbances in Europe; trouble in Ireland, great fires, railroad disasters, etc., which are sure to occur, just the same as the sun will rise daily, as there will be cold weather in January and hot weather in July. How wonderful! Any child can make such predictions and they will come true, in nearly every instance. Raphael is a genius.

#### MORAL QUALITIES.

These are to be judged chiefly by the positions and aspects of the moon and significator. In this Nativity the moon is very strong from being in her exaltation. Added to this, Mercury is in conjunction with the sun, and chameleon like, is tinged with the pride and ambition which the sun denotes. This pride alone exercises a powerful influence in keeping one straight, even if the moon is not strong. True, the moon is afflicted by Mars and Uranus, as heretofore shown, but in view of such strong testimonies in favor of uprightness, the weakness under this head would never amount to anything but slight deviations, much less crime, or even degradation. Furthermore, the sign Virgo denotes one who is naturally modest and even bashful, although this last is partly cured by the conjunction of the sun with Mercury. Still he could not be bold and forward in an egotistic way, though bold for a friend or a principle.

#### FRIENDS AND ENEMIES.

The sun rules the House of Friends, denoting that exalted persons, such as have influence, would be his best friends. The sun being in conjunction with Mercury shows that his friends would be intellectual, because Mercury is ruler of intellect. But as both sun and Mercury are in Scorpio, the sign of treachery, it is plainly

shown that some of those professing friendship would be treacherous. Mercury rules the House of Secret Enemies, which denotes that secret enemies would also be intellectual people. Saturn in that House indicates very bitter and unforgiving secret enemies. Jupiter rules the House of Public Enemies, but being afflicted by the conjunction of Uranus, denotes public enemies where he had cause to expect friends. However, public enemies never did him so much harm as secret enemies and pretended friends. [By an error Saturn is in the 11th House, but his Longitude being greater than the cusp, shows that he belongs in the 12th.]

#### DISPOSITION.

Venus is co-significator, and blends her influence with Mercury, because on the Ascendant. Venus is exceedingly strong, being free from affliction, angular, in her own celestial house and in close trine to Jupiter. These testimonies show a kind, gentle, benevolent and affectionate disposition, utterly opposed to cruelty and bloodshed. He was refined in his tastes, and as Venus rules the love nature, he was exceptionally pure in all his relations with the opposite sex. As a warrior, he was the very opposite of a Mars man, who delights in cruelty and bloodshed, and fights more for the gratification of this principle. Garfield, like Lincoln, deplored the necessity of shedding blood, and engaged in it only in defense of principle, that principle the opposite of cruelty and oppression, namely, human freedom.

Of course, such a character as the Mars of Mythology never had an existence, either as a god or mortal, but was a deification of the passions ascribed to him by mythical writers, who portrayed the supposed influence of the planet Mars as taught by the ancient astrologers. Homer tells us that Mars was not particular on which side he fought, provided he could engage in strife and bloodshed. Hence, though the patron of Troy, he did not scruple to help the Greeks. Venus was constant in her sympathy for the Trojans, which, with her, was purely a principle, for when she attempted to join in the strife, she soon returned, weeping on account of a wound she had received. The regal and stately Juno sneered at her, and said that Venus had only scratched her finger, and had not been in the battle at all. Jupiter smiled and warned Venus not again to imitate the warlike Minerva and queenly Juno, for her tasks should be to spread the wedding feast and prepare the nuptial couch.

This, and hundreds of other scenes described by Homer, is the prose poetry of astrology, all the characters agreeing exactly with what I have found verified, hundreds of times, in the celestial science of astrology.

#### MENTAL FACULTIES.

I invite special attention to the position of Mercury, ruler of intellect, in this Nativity. For centuries English astrologers have taught that the sun within  $5^{\circ}$  of Mercury, destroyed the strength of the intellect. Twenty years ago I disproved this doctrine, and so taught my classes in Oregon. About the same time, Alfred J. Pearce, of London, than whom no better astrologer lives, was disproving the same false teaching. Like myself, he is under the ban of the Raphael gang, who advertise charms and divination of almost every kind.

Here we see Mercury under the beams of the sun, and yet not even the enemies of our lamented President ever accused him of having a weak intellect. Whatever faults of character Henry Ward Beecher may have possessed, no one can say he had a feeble

intellect, and yet at his birth Mercury was within  $5^{\circ}$  of the sun. Finally, our great American inventor, Edison, had Mercury and the sun in close conjunction at his birth, the data of which was sent me by his father. Let Raphael alone, for he is wedded to his idols, and his "Book of Dreams."

Should the reader doubt the correctness of astrology, (as I explain it,) to describe the powerful brain of Gen. Garfield, let him look



*J. A. Garfield*

at the massive brow, large development of the cerebrum, and well-shaped head, as shown in the picture, and he will never think that the conjunction of Mercury and the sun impaired the intellect.

#### GENERAL SUCCESS.

A single glance at the horoscope shows that all the planets were below the horizon except Saturn and the moon. This is a testimony

in all Nativities that the first portion of life will be far darker and more discouraging than the later portion. I have verified this in hundreds of cases.

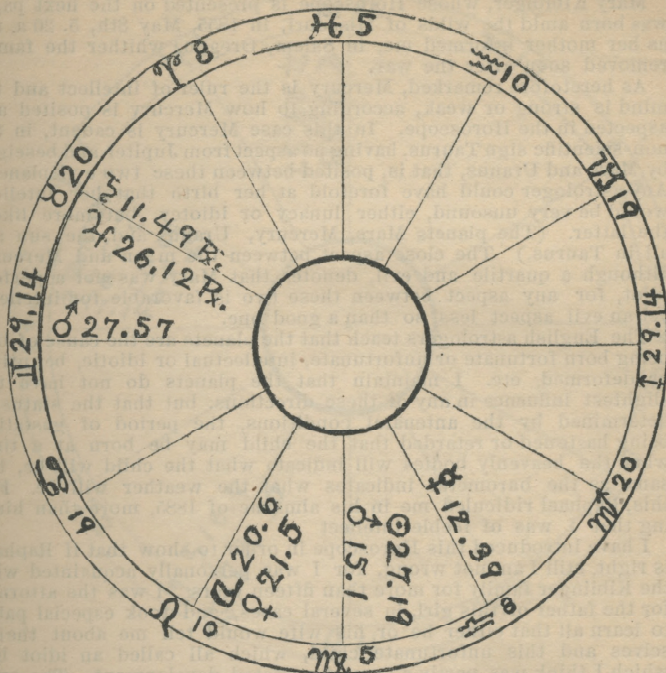
Mars in the House of Money is an evil testimony for financial success, and had there been no aspects to the contrary, he would probably have lived and died in poverty. But Venus being co-significator, and having the close trine of Jupiter, promises financial success much above the average of men, especially as Venus is ruler of the House of Money. This aspect between Venus and Jupiter is very fortunate in all directions, and the chief testimony showing that he would rise to distinction.

The moon elevated above all the other planets denotes an eventful life and many changes. This testimony is increased by the aspect of Uranus to the moon, and also by the conjunction of the former with Jupiter, which throws a trine to Venus, the co-significator. And in this connection it is proper to add that Uranus denotes skepticism, and when very strong, the person is in danger of becoming an infidel, even after having become a clergyman, as has often happened, for no man can control his belief. The christian who doubts this should ask himself if he can control his belief so as to believe in Mohammed, or Joe Smith, the Mormon, as devoutly as he believes in his Savior. This will satisfy him that belief cannot be controlled by the will. But in the case of Gen. Garfield Uranus is only moderately strong—just enough to denote that he would reason logically and demand proof of the truth of the premises. When Jupiter is strong, one is disposed to accept the popular religion. In all clergymen who were not hypocrites, I have always found Jupiter strong, while Uranus is strong in the Nativities of inventors, mediums, Infidels and Spiritualists. In this Nativity Jupiter is stronger than Uranus, and therefore the General could not become an Infidel. On the other hand, Uranus is so strong that he could not continue a clergyman, even if he had begun preaching. Or, if a religionist at all, he would not seek a popular religion. In my opinion he was a poor believer in any thing.

Mercury rules the House of Business or Profession, and as Cancer, which is ruled by the moon, was intercepted in that House, the moon denoting the public, it is evident he would engage in some intellectual pursuit which had relation to the public. I say this, not because he did so engage, but because such is the settled doctrine of astrology, as I have verified hundreds of times. In proof of this I refer to a file of the Evening Chronicle, of this city, for Feb. and March, 1889, wherein are published the Nativities of six gentlemen of this city, which I calculated from the data of birth only, as certified by the editor, not knowing but they were obscure men, yet in every case the moon was strong and I said they were public men and had held prominent positions. At this writing, Aug. 21st. I have never seen one of these men, who are Ex- U. S. Senator Armstrong, Gov. Francis, Hon. R. Lancaster, formerly Surveyer of this Port: Ex-Mayor Allen, Mayor Noonan and Ed. Butler, a noted politician. Hence, in a Nativity like the one under consideration, the merest tyro in astrology could say that intellectual employment and business of a public character would be chosen as a profession.

Notwithstanding the testimonies which denote his success in life, there are many which show impediments and discouragements. But Virgo, the rising sign, denotes more industry than any of the others. And I may add, that with so many handicaps as this Nativity shows, he is entitled to great credit for having risen to be President.

## THE HOROSCOPE AT HIS DEATH.



The configurations of the heavenly bodies, at the moment of the death of Pres. Garfield, affords a very interesting study for the student in astrology. At his birth,  $27^{\circ}$  of Gemini had culminated, with Orion on the Midheaven; at his death  $26^{\circ} 14'$  of Gemini had risen on the eastern horizon, with Orion on the Ascendant, as though all the power of the mighty warrior had been concentrated in the House of Life, to interpose a barrier against the Angel of Death. It was the last despairing effort, but of no avail. The cruel Mars had just risen above the horizon, and seemed to triumph over his victim.

The moon denotes the wife of the dying hero, and Venus the daughter. Together they have taken their station in the royal sign Leo, which was "the lion of the tribe of Judah," throwing a sextile aspect to both the cusp of the Ascendant and the remorseless Mars. In fancy I seem to see them extending their white hands, as they plead for the life of a beloved husband and father. Alas, they plead in vain. Death knows no mercy. My old eyes grow moist as I contemplate this sad scene, when not only the great American nation mourned, but the enlightened nations of the whole earth, for a good man had passed away.

\* \* \* \*

"Lives of great men all remind us,  
We can make our lives sublime,  
And departing leave behind us,  
Foot-prints on the sands of time."

## NATIVITY OF AN ALLEGED IDIOT.

Mary Kiblinger, whose Horoscope is presented on the next page, was born amid the wilds of Missouri, in 1855, May 8th, 5. 20 a. m. as her mother informed me, in Salem, Oregon, whither the family removed soon after the war.

As heretofore remarked, Mercury is the ruler of intellect and the mind is strong or weak, according to how Mercury is posited and aspected in the Horoscope. In this case Mercury is cadent, in the non-scientific sign Taurus, having no aspect from Jupiter and besieged by Mars and Uranus, that is, posited between these two evil planets. Any astrologer could have foretold at her birth that her intellect would be very unsound, either lunacy or idiotcy, but more likely the latter. (The planets Mars, Mercury, Uranus and the sun are all in Taurus.) The close aspect between the moon and Mercury, although a quartile and evil, denotes that Mary was not a perfect idiot, for any aspect between these two is favorable for intellect, yet an evil aspect less so than a good one.

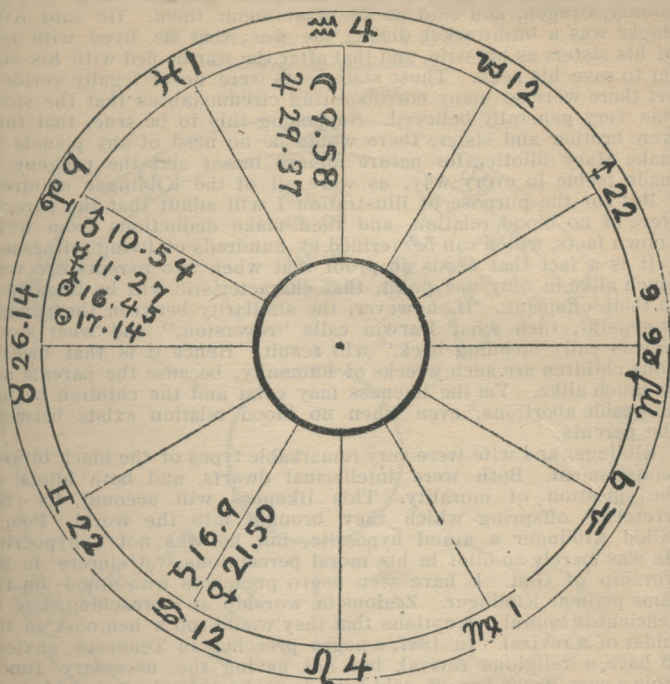
The English astrologers teach that the planets are the cause of one being born fortunate or unfortunate, intellectual or idiotic, beautiful or deformed, etc. I maintain that the planets do not have the slightest influence in any of these directions, but that the status is determined by the antenatal conditions, the period of gestation being hastened or retarded that the child may be born at a time when the heavenly bodies will indicate what the child will be, the same as the barometer indicates what the weather will be. For this, Raphael ridiculed me in his almanac of 1885, more than hinting that I was of feeble intellect.

I have introduced this Horoscope in order to show that if Raphael is right, still I am not wrong, for I was personally acquainted with the Kiblinger family for more than fifteen years. I was the attorney for the father of this girl, in several cases, and took especial pains to learn all that either he or his wife would tell me about themselves and this unfortunate child, which all called an idiot but which I think was partly a case of arrested development. The substance of what the mother told me was as follows:

Before Mary was born the mother received a severe shock from seeing a door fall down near a child, and in her fright she thought the door had fallen on the child and killed it. She swooned, and on recovering consciousness, went into hysterics. This is one of the factors, and Mrs. Kiblinger thought the sole cause that her child should always be a baby, so far as care for her, the wants of nature, etc., were concerned, for Mary was as unconcerned as an infant about those things. She could talk a little, but not more than most children at two or three years of age, and had learned to do several things. Being denoted by Venus, she was rather pretty, and did not have the repulsive look and receding forehead of most idiots. Her body was plump and well formed, but she was not taller than a girl of ten.

In a word, she showed all the signs of arrested development, as though the intellect had been arrested when she was three years old and the physique when she was ten. I first saw her when she was twenty-one. She came to my office with her mother. She would look at me, giggle, hide her face with her hands, and in all things act like a little child. Her mother scolded her, to keep her quiet, but she would keep chattering and trying to tell me something. At last I understood her as she said: "See my new apron." This was a specimen of her childish manner. But there is another factor in the problem, dark and terrible.

## THE HOROSCOPE.



Both parents were of feeble intellect and both very 'guoran'. Kiblinger could read and write a little but both his chirography and orthography were very original. His wife could neither read nor write. Both were of the bilious temperament and both very dark, their hair black and coarse as an Indian's. Both were religious and Kiblinger would hold prayer meetings whenever he could find an audience less enlightened than himself, which was not common, even in the wilds of Oregon. He would lie, cheat, steal, and sell whisky to the Indians, but that did not interfere in the least with his praying and exhorting sinners to meet him in heaven.

While living in Salem, another daughter, younger than Mary, caused his arrest for incest. The case was proved against him, but the authorities thought best to send him to the Insane Asylum and he remained there several months.

Afterwards he moved to Tillamook county, called the "Nestucca country," and homesteaded 16 acres of land. Subsequently I moved there, was elected Justice of the Peace, and on complaint made by Jerome Dunn, issued a warrant against "Old Kib," as he was called, for hog stealing. The case was proved beyond a doubt and I bound him over. He was unable to get bail and they took him to jail. The sheriff happened to belong to the same church as Old Kib and at the suggestion of the hog thief they held a little prayer meeting when the sheriff became so hypnotized that he would not lock him up, but let him go. That is the last I knew of Old Kib.

After the family left Salem, a man from Missouri came to Polk county, Oregon, and said he knew all about them. He said Kiblinger was a bushwacker during the war; that he lived with one of his sisters as his wife, and that after the war he fled with his sister to save his neck. These statements were never legally verified, yet there were so many corroborating circumstances that the story was very generally believed. Supposing this to be true, that they were brother and sister, there would be no need of any planets to make Mary idiotic, for nature abhors incest and the progeny is made feeble in every way, as were all of the Kiblinger children.

But for the purpose of illustration I will admit that the parents were of no blood relation, and then make deductions from well-known facts, which can be verified by hundreds of living witnesses.

It is a fact that needs no proof that when two parents are very much alike in only one point, that characteristic will be intensified in their offspring. If, however, the similarity between the parents is general, then what Darwin calls "reversion," and what stock raisers call "breeding back," will result. Hence it is that incestuous children are such wrecks of humanity, because the parents are so much alike. Yet the likeness may exist and the children be but miserable abortions, even when no blood relation exists between the parents.

Kiblinger and wife were very remarkable types of the black bilious temperament. Both were intellectual dwarfs, and both idiots on the question of morality. This likeness will account for the wretched offspring which they brought into the world. People called Kiblinger a grand hypocrite, but he was not a hypocrite. He was merely an idiot in his moral perceptions, yet sincere in his worship of God. I have seen negro preachers who stood on the same plain as Kiblinger. Zealous in worship and preaching, but so deficient in moral perceptions that they would rob a hemlock in the midst of a revival. In 1887, a negro preacher in Tennessee, anxious to have a religious revival, but not having the necessary funds, stole a cow, drove her off, sold her, came back and started his protracted meeting. Sinners flocked to the anxious seat and while a harvest of conversions was going on, the officers took the preacher off to prison, leaving the poor souls without any spiritual guide. The truth is, a man may be sincere in his religion, and yet a most abandoned criminal. I will illustrate:

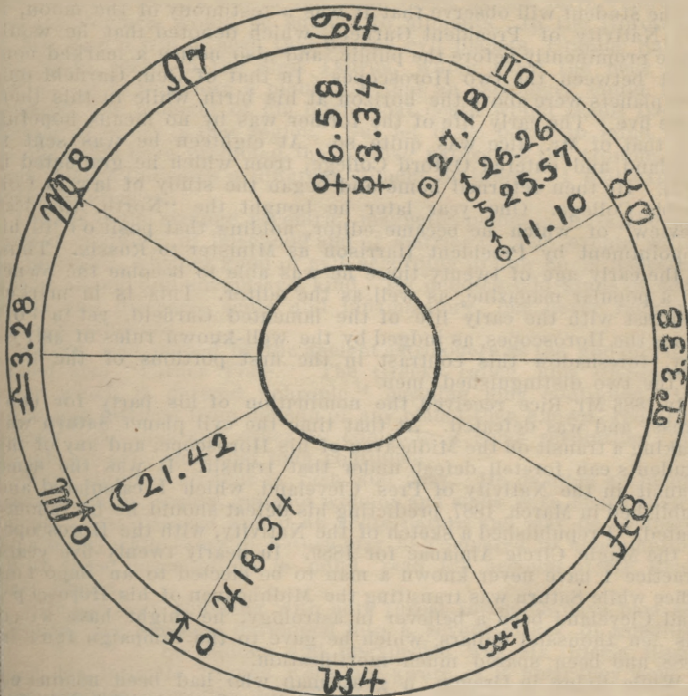
A devout Catholic murdered a Protestant woodchopper for the few dollars he had in his pocket. After being convicted and sentenced to death, he confessed all to the jailor. He said he took the man's money and then ate his dinner, all but the meat. This he would not eat because it was Friday. Here was religious sincerity but idiotic moral perception.

So with Kiblinger, or he could not have been guilty of incest with his daughter, and if with his daughter, it is not unreasonable to conclude that his wife was his sister. But this factor is unnecessary for my present purpose, which is to prove that antenatal conditions fix the status of the child and that the configurations of the heavenly bodies, at the moment of birth, indicate that status. Any person doubting my statements, thinking that I have manufactured my facts to suit my purpose, can easily be convinced by writing to any prominent citizen in Salem, Oregon. Judge W. H. Holmes was Prosecuting Attorney and knows all these and many more similar facts.

Raphael is now called on to rise and explain how it was that the planets caused Mary Kiblinger to be such a strange mortal.

ASTROLOGICAL SKETCH  
OF  
HON. A. T. RICE.

THE HOROSCOPE.



In May, 1889, Allen Thorndike Rice was appointed Minister to Russia. He procured a ticket for passage on the steamer City of Paris and intended to sail May 15th, but was prevented by illness, the illness being sore throat. He died at 3.30 a. m. of May 16th, the cause of death being, disease of the throat. A case so extraordinary naturally attracts the attention of an observing astrologer. Hence I present the facts for the benefit of the reader.

I do not know the hour of Mr. Rice's birth, but from noting the prominent events of his life, and the dates given, I judge that his birth occurred about thirty minutes past noon. His data of birth is published as having been 1853, June 18. I have cast the Horoscope for that time and will give the delineation as though the hour of birth is correct, yet if he was born any time that day it will not change the fact that all the planets occupied the signs and relative positions indicated in the Horoscope.

INTRODUCTION.

According to the hour of birth assumed, the sign Libra was rising, and as Venus rules Libra, therefore she is his Significator, or

ruling planet. Venus in Cancer, the celestial house of the moon, and on the Midheaven, free from affliction, having the platic trine of the moon, shows plainly that he would become prominent before the public and be likely to hold good positions. Even if not born between twelve and one p. m. this testimony holds good, though not so strong as if born at the time assumed.

The student will observe that it was a testimony of the moon, in the Nativity of President Garfield, which denoted that he would come prominently before the public, and also notice a marked contrast between the two Horoscopes. In that of Gen. Garfield only two planets were above the horizon at his birth, while in this there were five. The early life of the former was by no means hopeful; yet that of Mr. Rice was quite so. At eighteen he was sent to England and entered Oxford College, from which he graduated in 1875. He then returned home and began the study of law in Columbia College. One year later he bought the "North American Review" of which he became editor, holding that position till his appointment by President Harrison as Minister to Russia. Thus, at the early age of twenty-three he was able to become the owner of a popular magazine, as well as the editor. This is in marked contrast with the early life of the lamented Garfield, yet in both cases the Horoscopes, as judged by the well-known rules of astrology, foreshadow this contrast in the first portions of the lives of the two distinguished men.

In 1886 Mr. Rice received the nomination of his party for congress, and was defeated. At that time the evil planet Saturn was making a transit on the Midheaven of his Horoscope, and any of my students can foretell defeat under that transit. It was the same transit in the Nativity of Pres. Cleveland, which I calculated and published in March, 1887, predicting his defeat should he be renominated. I republished a sketch of the Nativity, with the Horoscope, in the Magic Circle Almanac for 1889. In nearly twenty-five years practice I have never known a man to be elected to an important office while Saturn was transiting the Midheaven of his Horoscope. Had Cleveland been a believer in astrology, he might have saved his ten thousand dollars, which he gave to the campaign fund in 1888, and been spared much mortification.

While living in Oregon, a gentleman who had been nominated for an important office, sent me ten dollars for a written Nativity and a request for my opinion regarding his chances for election. On making the calculations I found that Saturn was transiting his Midheaven and informed him that his defeat was almost certain. This proved true, for Hon. R. P. Earhart was elected. Four years later Hon. Joseph Shinn was offered the nomination for State Treasurer. He sent me five dollars for my opinion in the case. I wrote him that he could not be elected and he declined the nomination. At the election his party was snowed under and Hon. Ed. Mirsch was re-elected, just as I had written him that he would be.

I have given the names of three prominent men in Oregon, all still living, that any person who doubts my word may have no trouble in making enquiries. Besides, J. W. McAfee, M. D., of Salem, Oregon, who has been Professor in the Medical College, both at Salem and Portland, is knowing to all these predictions and will confirm what I have said. He studied the science with me and will testify that I do not warp the rules in the least in order to make a good showing for astrology. In the case of two of his grandchildren I calculated their Nativities and informed him that they could not live beyond infancy. Both died within a few weeks of the

time predicted, although two or three years elapsed between the time of prediction, and death, in the case of the elder.

#### LIFE AND HEALTH.

In the Horoscope of Gen. Garfield it will be noticed that the malignant planet Saturn was in the sign Virgo at his birth, showing that the stomach would be subject to ailments. In the Horoscope of Mr. Rice it will be seen that all the evil planets, Uranus, Saturn and Mars, were in the sign Taurus, which rules the neck and throat. It is therefore a plain case that an astrologer could have foretold, the moment of his birth, that death would result from a disease or injury in that region. But let it be borne in mind that no one could have predicted the precise nature of the trouble, for each planet indicates a different ailment or injury. I will explain these differences.

Uranus is the strange, eccentric, magnetic planet. He is the enemy of credulity, of falsehood and of marriage. The events which he indicates, whether good or evil, according to how he is aspected, are of an odd and unexpected kind. He denotes odd kinds of accidents and diseases, acute and inflammatory, but never indicates chronic ailments.

Saturn was deified by the ancient astrologers as the god of Time, called also "Father Time." The Greeks called him "Kronos;" from which is derived "chronic," meaning long continued. His orbit was farthest from the sun of any planet then known, requiring longer time than any other to complete a solar revolution. His events are evil, slow and long continued.

Mars signifies all that is rash and fiery. He denotes accidents, such as burns, scalds, gunshot wounds and stabs with sharp instruments. His diseases are of an acute nature and may be compared to a fever, while those of Saturn may be compared to consumption. With these descriptions in mind, read the account of Mr. Rice's last illness.

"He had been suffering with sore throat for some days past and Monday the soreness developed into a severe attack of tonsilitis.

\* \* \* So sudden and unexpected was Mr. Rice's illness that his intimate friends were not aware of it until they went to the steamer expecting to bid him goodby. \* \* \* He had been ill during the entire spring. \* \* \* Mr. Rice died at 3.30 a. m. Dr. Fuller says the glottis swelled suddenly and shut off the breath. Such cases are of very rare occurrence, and in this instance was unlooked for, though every precaution had been taken."

Thus it will be seen that the symptoms were not of a kind which any one planet indicates, but of all three of the malignants. There was the chronic stage indicated by Saturn; the fierce and acute stage of Mars, and finally the rare and unexpected manner of death which only Uranus denotes.

#### COMMENTS.

Viewed only as coincidences they are more wonderful than the theory that they were pointers in nature to give notice of the events about to occur. Everywhere in nature we find these pointers, in the heavens, on the mountain tops, in the valleys and deep down in the earth's crust. The geologist can trace the deposits of iron, copper, silver, gold, etc., by the pointers which have been placed there by an Infinite Intelligence that sees the end from the begin-

ning. It was by one of these pointers that LaPlace and Adams determined the existence of a planet beyond the orbit of Uranus, calculated its place, and when Gall pointed his telescope to that portion of the heavens, there, within a degree, was found the planet Neptune. This was one of the greatest achievements of science, yet this science is a part of the sublime science of astrology.

During seventeen years residence on the Pacific Coast, I had occasion to study the various systems of mountain ranges, from the Rockies to the Coast Range. On their tops I found shells and various marine substances. From these observations I deduced that the mountains were once ocean banks where codfish fed; that by the process of upheavals these banks in time became islands, and finally, when the western portion of the American continent had been thrown to the surface, these islands became the tops of mountains. This hypothesis was corroborated by finding water-washed rocks on the sides and tops of the mountains. Furthermore, the Coast Range mountains are highest in Mexico, gradually diminishing in height through California, Oregon and Washington, to British Columbia, where they are no longer entitled to be called mountains. Tracing their course thence to Alaska they are a system of islands, showing that the upheaval has been greater in the south than in the north.

Jeremiah Lamson, one of the proprietors of the town, now city of Burlington, Iowa, spent the last years of his life by Nestucca Bay, Oregon. I lived there two years, and having noticed drift from the ocean fully fifty feet above high tide, inquired of Mrs. Lamson and her daughter Dora, both very intelligent ladies, how they accounted for it. They informed me that a few years before, a great tidal wave, apparently forty or fifty feet high, that looked like a black wall of water, was seen by Mr. Lamson rushing towards the shore. They were much frightened, yet no harm was done, although the water came into the house to the depth of more than a foot and then retired. A few days later I found on the beach a dead codfish. Having been on a fishing voyage when a young man, I knew I was not mistaken. Yet all the people in that region declared there had never been any codfish caught within hundreds of miles of there. From these facts I deduced that there was a codfish bank west of Nestucca; that its upheaval was going on gradually and in process of time another system of islands would appear to the west. Then, in time, another strip would be added to our continent, and another range of mountains. In 1885 I wrote a series of articles that were published in "The West Shore," an illustrated monthly published in Portland, Oregon, by Mr. Samuels, in which I predicted the existence of a codfish bank and that it would some day be discovered. This prediction was verified in the summer of 1889, by the discovery of a codfish bank about sixty miles west of Nestucca.

In this, even the non-scientific reader can readily perceive the pointers on which I based my predictions. It is not guessing, but simply reading the handwriting of nature, or God, or by whatever name you choose to call the Infinite Intelligence which never works blindly. This handwriting no mortal can counterfeit or imitate. The pointers never err, though man may err in reading them. It is in harmony with this same purpose that the pointers are placed in the heavens. Man being the climax of all that is wonderful in our universe, it would be absurd that there should be pointers for everything inferior, even down to the mineral, and yet none for man

It is not the heavenly orbs that give to every man his peculiar nature, but ante-natal conditions, as every intelligent mother and physiologist is well aware. The status of the child is fixed before birth, and then the child will be born at a time when not only his own form and brain will indicate what he is, but the pointers in the heavens will show the same far more fully. This is the true definition, yet Raphael, who believes in a child's caul as a charm, ridicules my definition and declares that the planets cause a man to be light or dark, tall or short, etc. As well say that the barometer causes the sunshine and cyclone, or that the dog, which returns home before his master, is the cause of the master's return. These are the pointers which the wise study and which the fools overlook.

## ASTROLOGICAL SKETCH

OF THE

### NATIVITY

OF

MAGNOLIA J. GALPIN.

#### PREFACE.

Last June I received a letter from this lady, enclosing her data of birth. She is a resident of San Antonio, Texas, and was entirely unknown to me. Her Horoscope was so striking in its features that I at once wrote a brief sketch of the Nativity, and sent her, without waiting for any fee to be sent. Following is a copy of the sketch and also her reply.

#### THE NATIVITY.

Astrology is pure science; as much so as Arithmetic. All that is needed is the exact data of birth, and then no description of the person is necessary, any more than the description of the man who signed a note in order to calculate the interest.

According to the data which you gave, the royal sign Leo, the lion, was rising at your birth, the same as in the case of my old friend, Dr. Sanger. The sun rules Leo and is your ruling planet. But the sun was severely afflicted by evil aspects of the malignant planets, else you would have been one of the most brilliant women of the age. As it is, notwithstanding the humble and subdued tone in which you write, the lion is in your nature, not extinct, but slumbering from the fatigue of so many fruitless efforts to break his chains.

The sign Leo is thus described in the books, although there will be some discrepancies as applied to you on account of your Significator, (the sun) being so afflicted:

"A large, wery body; good porportions; broad shoulders, the body tapering towards the waist, like a lion; round head; light or ruddy complexion; ambitious; noble; haughty; generous; gentle when unprovoked but in anger terrible."

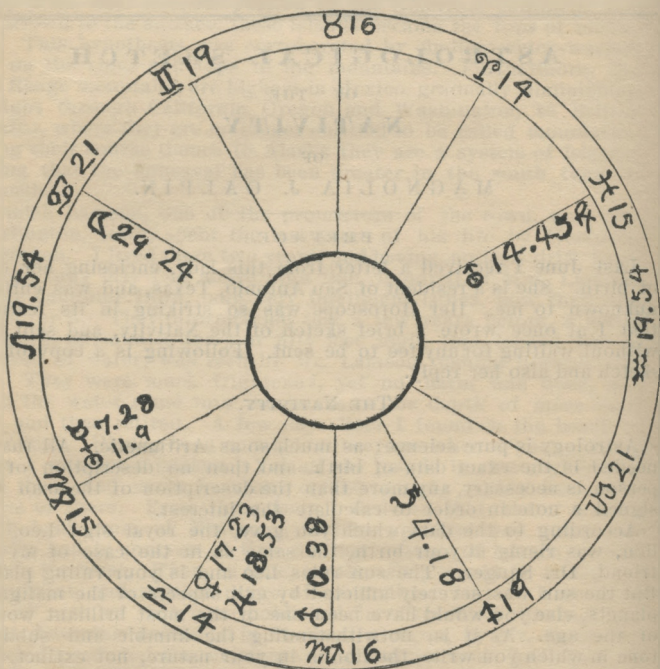
How sad to think that a woman so grand by nature should be destined to be so crushed as she struggles through life. In fancy I see you treading the thorny path of life, encountering difficulties at every step, bruised and bleeding, until the aspirations of youth

became sluggish, incapable of mounting upward, ambition dying at your feet and your heart become but an urn of suffering.

The sun was sorely afflicted by Uranus, the enemy of marriage, at your birth, and the sun applied to Uranus by an evil aspect to describe your husband I wonder that you ever married at all, for with your powerful intuitions you must have had misgivings whenever you thought of entering the marriage relation.

You may think that with a different man you might find happiness in married life, but I assure you it is impossible. One hundred years hence, women who may be born with such a strange configuration of the planets, will not marry at all.

## THE HOROSCOPE.



During the past year or two, Saturn, the great malignant, has been transiting on your Ascendant and times have been more than usually dull and gloomy. This transit comes only once in 30 years, and will end in 1890. After that, for 20 years, life will be more bearable, whether you are single or married.

## REPLY BY MRS. GALPIN.

PROF. CHANEY, DEAR SIR:—The delineation of my character, as given in your sketch of the Nativity, is so accurate, considering that you never saw me or knew any thing about me except from my data of birth that it is really startling. When I review my checkered past and think of the bright days that were dimmed with

sorrow, repining at a fate which I could not understand, it all seems plain to me now, for I see what a cruel combination the heavenly bodies assumed to blight and thwart some of the dearest and sweetest joys of life.

Yours Truly,

M. J. GALPIN.

4 Hill, st., San Antonio, Tex.

Mrs. Galpin sent the foregoing sketch of her Nativity to a friend in Danville, Ills., for perusal. When he returned it to her he wrote a few lines which were so flattering to me that I will copy them:

"You ought to have your 'head rubbed' for taking any stock in what that old St. Louis 'Whangdoodle' says. \* \* \*

Shoot such old Jack Asses as he is."

This is a fair sample of the opposition to astrology. Probably this man has read about Raphael, [Jim Cross, of London,] his charms, his crystal balls, his talismans, etc., and jumping at the conclusion that astrology was made up of such whims and superstitions, really felt it his duty to admonish the lady and rebuke her as he did. I do not wonder that intelligent people have become disgusted with the very name of astrology when I remember that Raphael has so long been publishing an Almanac, the chief aim of which seems to be to make money by appealing to a man's ignorance and superstition.

A few words in reply to Mrs. Galpin who seems to think that the heavenly bodies are alone at fault for the sorrow and suffering through which she has passed.

It was antenatal conditions, not the heavenly bodies, which fixed her status, and even if there had been no planets—no other worlds but ours—with the same conditions which preceded her birth, she would have been the same and her life no less sad than it has proved.

All through the dark ages the SCIENCE of astrology was ignored, but divination, sorcery, necromancy, etc., were practiced in its name. Then it was that the cheats and frauds taught people to blame the stars if they were unfortunate, to blame the devil for tempting them if they were wicked, etc. Jim Cross, under the angelic name of "Raphael," is a sort of connecting link between these frauds of the dark ages and the true science which God has no where condemned in the Bible.

In addition to the delineation which I wrote Mrs. Galpin I will remark that only the moon and Uranus were above the horizon at her birth. When a majority of the planets are below the horizon the testimony usually signifies that the first portion of life will be more dark and discouraging than the last half, as observed in the Nativity of Gen. Garfield; but in this case there is a still further signification.

The moon always signifies many changes, and being in a movable sign denotes a very unsettled life. Added to this, Uranus is the odd, magnetic planet, denoting events that occur in a strange and unexpected manner. Although not signifiers, yet the moon and Uranus being the only planets above the horizon, are about as powerful as if signifiers. Hence, an astrologer could have predicted the moment she was born that her life would be very checkered. It was on this testimony that I predicated my conclusions, although I did not explain why I judged that her destiny had been so hard.

Mrs. Galpin has since written me a biographical sketch, showing by events the accuracy of the delineation. The sketch is too long for publication here, but in the magazine, "THE MAGIC CIRCLE," which we expect to start in June, I will republish the Horoscope and add several points of delineation, which will enable the reader to understand more fully the rules and methods of reading a Horoscope.

### BIRTHDAY NOTES, 1890.

The configurations of the sun and moon with the planets, and the transits of the superior planets over the cardinal points of the Nativity, at the birthday-anniversary, or solar revolution, as it is astrologically termed, affect either the health or fortunes, during the ensuing year of life, for good or for evil according to their nature. Further information must be sought in the "Text-Book of Astrology."

**JANUARY.**—The conjunction of the sun with Jupiter on the 10th renders this day a fortunate anniversary, bringing health, prosperity, and new friends, according to the strength of the Nativity, especially to those who were born in either 1831, 1854, 1861, 1863, or 1878, at sunrise or near noon. But inasmuch as the moon is in conjunction with Saturn in Virgo  $3^{\circ} 16'$ , some trouble will attend those who were born when the moon or Saturn held that longitude, as on the 11th of January, 1860, at Washington noon. The 16th is an unfortunate birthday-anniversary, bringing either accident or loss of money, especially to those born in 1850, 1851, or 1871. The 20th and 29th are fortunate, because the moon is in a benefic aspect with Jupiter, and especially for persons at whose birth the moon was in the 24th degree of Capricornus, or thereabouts, as on the 24th of Jan. 1857.

**FEBRUARY.**—The 9th is an evil birthday-anniversary, bringing either quarrels, illness, losses, or danger by fire, especially to those persons who were born in either 1843, 1848, or 1858. The 19th is still more evil, chiefly for those born in either 1835, 1831, 1847, 1854, 1861, or 1876; ladies are warned to observe extreme caution in all things. Those who had the moon in the last degrees of Capricornus will benefit by the position of Jupiter.

**MARCH.**—The 3d, 16th and 17th are fortunate birthday-anniversaries, especially for persons born in either 1850, 1858, 1860, 1864, 1866, 1867, 1868, 1870, or 1874; single ladies will receive offers of marriage. The 21st, 26th and 30th are also fortunate, promising prosperity and travelling; surgeons, engineers and military men will gain success and distinction; chiefly those who were born in either 1843, 1845, 1849, 1858, 1863, 1868, or 1869, or with the moon in the first five degrees of Aquarius.

**APRIL.**—The 4th is a good anniversary for those who had the moon in the 8th degree of either Libra or Aquarius. The 14th is an evil birthday-anniversary, chiefly for those born in either 1848, 1849, 1858, or 1867, or with the moon in either the 28th degree of Leo or 25th of Libra. The 17th is fortunate for farmers, gardeners, miners, builders and potters, especially for those who were born in either 1846, 1853, 1856, 1860, 1869, or 1870. The 20th is a fortunate anniversary, especially for musicians, literary people, and jewellers. The 23d is an evil day for those who had either the moon or sun in the middle of Sagittarius, and they must beware of accidents with horses and fire-arms.

MAY.—The 10th, 23d and 31st are fortunate birthday-anniversaries, especially for those persons born when the moon held the 12th deg. of Aquarius. The 18th is evil, especially for those born in either 1851, 1854, 1857, or 1861, and they are warned to safeguard their health and affairs. The 27th is also evil, especially for persons born in either 1827, 1860, or 1869, who should have a care of accidents by fire and fire-arms.

JUNE.—The first four days are very fortunate birthday-anniversaries, except for those persons at whose birth the moon was in the 5th degree of Sagittarius; those born in either 1849, 1851, 1863, or 1868 will benefit most. The solar eclipse of the 17th is evil for those who were born this day in either 1841, 1856, 1863, 1864, or 1870. The 7th, 13th, 20th and 26th are fortunate birthday anniversaries, particularly for those at whose birth the moon held the 12th degree of Aquarius.

JULY.—The 11th to the 17th are unfortunate birthday anniversaries bringing either pecuniary loss, ill health, or trouble in love or conjugal affairs. The 22d and 23d are fortunate, promising increase of honor or business, and improved health, according to the Nativity.

AUGUST.—The 10th is an evil anniversary, threatening losses by fraud or robbery. The 24th and 30th are unfortunate, bringing troubles and losses, or illness, especially to persons born in 1821, 1847, or 1861. The 19th is a fortunate anniversary, particularly for persons born this day in either 1860, 1869, or 1871.

SEPTEMBER.—The 21st is an evil anniversary, for it threatens life, losses, or ill health, according to the Nativity; particularly to those who were born in either 1830, 1831, 1837, 1842, 1843, 1848, 1855, 1858, 1860, 1862, or 1871. The 24th and 25th are fortunate anniversaries, especially for those persons who were born when the moon held the third degree of the sign Aquarius. Persons born on or about the 22d of January now gain in finance, position, or health, according to their Nativities.

OCTOBER.—The 2d, 3d and 17th are fortunate birthdays. The 20th is unfortunate, chiefly for persons born in either 1831, 1836, 1843, 1847, 1849, 1856, 1860, 1862, 1866, or 1870; they are advised to safeguard their health, and to beware of speculation and quarrels. The closing days of this month will bring some troubles on persons whose birthday anniversaries fall thereon.

NOVEMBER.—The 9th, 14th, 29th and 30th are fortunate anniversaries; the end of this month is fortunate for persons who were born at this period of either 1850, 1852, 1857, 1864, or 1868. Saturn now afflicts persons who were born on or near the 8th of September. The new moon is fortunate for persons who were born on, or about the 12th of this month, near midday or just before sunset.

DECEMBER.—The 3d, 19th and 22d are fortunate anniversaries. The 8th is unfortunate, chiefly for persons born in either 1840, 1848, 1851, 1854, 1861, 1868, or 1870. Persons born about the 1st of February now gain by the transit of Jupiter over the place of the sun. The 12th brings great changes, for good or evil according to the strength of the Nativity, to all persons whose birthday anniversary falls thereon.

More than the foregoing cannot be foretold without examination of the Nativity and Solar Revolution for the year.

ALFRED J. PEARCE.

## THE FARMERS' AND GARDENERS' GUIDE.

"There is a time to plant, and a time to pluck up that which is planted."—SOLOMON.

CARDAN, the renowned astrologer, mathematician and physician, said: "If you prune your vines when the moon is at full in Taurus, Leo, Scorpio, or Sagittarius, neither, worms nor birds will infest your grapes.

"Graft not trees when the moon is waning, or not to be seen. If you shear sheep in her increase their wool will grow again the better.

"Fruits and woods for use should be cut in the decrease of the moon; but if you would have timber to keep long fell it towards the latter end of winter, the moon being under the horizon and in aspect with Saturn, for that will render it exceedingly hard and durable.

Fire-wood, and what you would have grow quickly again, cut when the moon is above the horizon, in her first quarter, and in aspect with either Venus or Jupiter.

"Sow or plant when the moon is in either Taurus, Virgo, or Scorpio, in benefic aspect with Saturn. When the moon is in Cancer, set or sow all kinds of pulse; when in Libra or Capricornus, dress your gardens and trim your small trees and shrubs."

Germination, being due to the combined influences of the sun and moon, is in greatest force about the time of their conjunction—i. e., new moon. It is, therefore, advisable to sow at the new moon and while she is increasing in light and passing through either Taurus, Cancer, Libra, or Pisces. Preference should be given to Taurus in planting turnips, potatoes and root-crops

Pisces is the most productive sign available in the autumn.

The following are the most favorable times for sowing in places situated in or near the 39th deg. of latitude north; and answer very nearly for the whole of the United States.

1890. FEBRUARY.—For roots choose the 24th and 25th days, from 6h. 30m. to 7h. 40m. morning when the sign Pisces ascends, the moon being in Taurus below the horizon. For other sowings choose the 19th and 20th, from 6h. 45m. to 8h. morning, Pisces rising with the moon therein. The 24th and 25th, from 9h. to 10h. 2 m. morning, Taurus rising with the moon therein; and the 28th, from noon to 2h. 20m. afternoon, Cancer rising with the moon therein.

MARCH.—For potatoes and roots, choose the 24th, from 5h. to 6h. morning, Pisces rising and the moon in Taurus below the horizon; and the 28th and 29th, from 6h. 55m. to 8h. 18m. morning, Taurus rising, and the moon in Cancer below the horizon. For other sowings, choose the 1st, from noon to 2h. 15m. afternoon; the 24th, from 7h. 10m. to 8h. 30m. morning; and the 28th and 29th, from 10h. 15m. morning to 0h. 35m. afternoon.

APRIL.—For potatoes and roots choose the 2d and 3d, from 9h. 55m. morning to 0h. 15m. afternoon; the 24th to 26th, from 5h. 8m. to 6h. 30m. morning; and the 29th and 30th, from 8h. 12m. to 10h. 30m. morning. For other sowings, choose the 1st to 3d, from 2h. 55m. to 5h. 20m. afternoon; the 19th and 21st, from 5h. 30m. to 6h. 50m. morning; the 24th to 26th, from 8h. 28m. to 10h. 48m. morning; and the 29th and 30th, from 1h. to 3h. 25m. afternoon.

MAY.—For vines and grain, choose the 1st and 2d, from 3h. 23m. to 5h. 45m. afternoon; and the 26th and 30th, from 1h. 30m. to 3h. 50m. afternoon. For sowing, choose the 21st to 22d, from 6h. 42m. to 9h. morning; the 26th to 28th, from 1h. 15m. morning to 0h. 40m. afternoon; and the 31st from 3h. 50m. to 6h. 20m. afternoon

**JUNE**—On the 23d and 24th, from 9h. 28m. to 11h. 54m. morning, Virgo ascends with the moon therein. On the 25th and 26th, from 11h. 46m. morning to 2h. 10m. afternoon, Libra ascends with the moon therein. On the 27th and 28th, from 2h. to 4h. 30m. afternoon, Scorpio rises with the moon therein.

**JULY**.—The moon is in the latter half of Sagittarius on the 1st day, the sign rising from 4h. 22m. to 6h. 40m. p. m. The moon is in Virgo on the 21st, the sign rising from 7h. 37m. to 10h. 3m. morning. The moon is in Libra on the 22d to 24th, the sign rising from 10h. morning to 0h. 25m. afternoon. The moon is in Scorpio on the 25th and 26th, the sign rising from 11h. 48m. morning to 2h. 20m. afternoon. The moon is in Sagittarius on the 28th, the sign rising from 2h. 36m. to 4h. 47m. afternoon. The moon is in Capricornus on the 29th and 30th, in trine with Saturn, the sign rising from 4h. 33m. to 6h. 45m. afternoon.

**AUGUST**.—The moon is in Virgo on the 16th to 18th, the sign rising from 5h. 55m. to 8h. 20m. morning. The moon is in Libra on the 19th and 20th, the sign rising from 8h. 9m. to 10h. 24m. morning. The moon is in Scorpio on the 21st to 23d, the sign rising from 10h. 26m. morning to 0h. 55m. afternoon. The moon is in Capricornus on the 25th to 27th, the sign rising from 3h. 5m. to 4h. 58m. afternoon.

**SEPTEMBER**.—The moon is in Libra on the 15th and 16th, the sign rising from 6h. 22m. to 8h. 47m. morning. The moon is in Scorpio on the 17th to 19th, the sign rising from 9h. 30m. to noon. The moon is in Capricornus on the 22d and 23d, the sign rising from 1h. 15m. to 3h. 8m. afternoon. The moon is in Pisces on the 26th and 27th, the sign rising from 4h. 25m. to 5h. 36m. afternoon.

**OCTOBER**.—The moon is in Scorpio on the 15th and 16th, the sign rising from 6h. 49m. to 9h. 20m. morning. The moon is in the latter half of Sagittarius on the 18th, the sign rising from 9h. 12m. to 11h. 33m. morning. The moon is in Capricornus on the 20th, the sign rising from 11h. 25m. morning to 1h. 10m. afternoon. The moon is in Pisces on the 23d and 24th, the sign rising from 2h. 39m. to 3h. 53m. afternoon.

**NOVEMBER**.—The moon is in the latter half of Sagittarius on the 14th, the sign rising from 7h. 26m. to 9h. 47m. morning. The moon is in Capricornus on the 15 to 17th, the sign rising from 9h. 43m. to 11h. 36m. morning. The moon is in Pisces on the 20th and 21st, the sign rising from 0h. 48m. to 2h. afternoon.

ALFRED J. PEARCE.

### CARDAN'S APHORISMS.

The great CARDAN'S aphorisms relating to Nativities contain much truth. A few facts in evidence thereof are here presented His second aphorism reads thus:—"Those who have the luminaries unfortunate in angles will be apt to commit suicide." The late Lord Lyttelton, who was born about a quarter before eleven o'clock p. m., of the 31st of March, 1817, in London, committed suicide while suffering from melancholia, by throwing himself from the staircase into the hall of his London residence, on the 18th of April 1876. The moon, at his birth, was in the midheaven, in  $\cap 26^{\circ} 28'$  and afflicted by the opposition of Mercury in  $\times 23^{\circ} 17'$ . The late Crown Prince Rudolf of Austria-Hungary, who was born at 10h. 15m. p. m. of the 21st of August, 1858, at Vienna, shot himself on the 30th of January, 1889. At his birth the moon was in  $\nu 27^{\circ} 42'$  within  $3^{\circ}$  of midheaven and in opposition with Saturn; Uranus rising in  $\sqcap 3^{\circ} 23'$  and in opposition to Mars setting in  $\dagger 4^{\circ} 29'$ .

Cardan's ninth aphorism is as follows:—"When an infortune is posited on the cusp of the 7th house, the native will be liable to great calamities; and if an infortune be in aspect with the sun or moon afflicted in the same place, the native, though a prince, shall suffer a world of troubles." The emperor of Austria-Hungary has Mars on the cusp of the seventh house of his Nativity. He was worsted in the war with Prussia in 1866, and lost his position as Emperor of Germany; and his son and heir committed suicide in 1889. The Empress Frederic of Germany has Mars on the cusp of the seventh house of her Nativity; she lost her noble husband by death in 1888, and suffered a world of grief in consequence. Robespierre had Mars on the cusp of the seventh house of his Nativity.

Cardan's fourteenth aphorism is:—"He who has Mars in  $2^{\circ}$  of the horizon, i. e. within  $2^{\circ}$  of the Ascendant, shall be exposed to many dangers, and commonly receives, at some time, a great scar or cut on his face." Lord Nelson was born when Mars was exactly rising in Scorpio, he was exposed to many dangers, and lost an eye and an arm, and eventually his life in battle.

The sixtysixth aphorism is to the following effect:—"Mars is seldom joined with Mercury for good, for he renders people naughty and impudent, yet industrious in art, whence it comes to pass that the best artists are too often the worst of men." We have the nativities of several artists, surgeons and skilled engineers, who had Mercury either in conjunction or aspect with Mars; they are not wicked men, but they may have strong tendencies to evil courses.

The sixtyninth aphorism is:—"When Venus is too powerful in a geniture, and in places of the infortunes, inconveniences are to be feared from unlawful love." King George IV had Venus on the Ascendant in the sign Virgo.

The seventysixth aphorism is:—"Mars and Mercury evilly disposed and in conjunction with the moon, signifies thieves and robbers; but if Saturn behold them, or be in the seventh, they will suffer according to their deserts. Therefore, whenever you see indications of grievous crimes, consider whether the infortunes are strong or not, and oppress the sun, moon, or lord of the ascendant; or if the lord of the ascendant be combust, or an enemy to the moon, for then undoubtedly the native will suffer for his villainy." We have the Nativity of a swindler, a clever and literate man, who was born on the 27th of Nov., 1832, at 8h. 50m. a. m., Oxford, England; Mercury on the Ascendant in quartile with Saturn in the

ninth; the moon in Aquarius  $0^{\circ} 58'$  in close zodiacal parallel with Mars; and the sun in the twelfth near Antares. He has twice suffered long terms of penal servitude.

Cardan's ninety-eighth aphorism is as follows:—"When Mars is exactly on the cusp of the Midheaven, and has no dominion in the Ascendant, if the native live to any considerable age, it is much to be feared that he will be killed." We have seen one instance of this in the case of a gentleman who was killed while hunting.

The hundredth aphorism reads thus:—"Nativities which can never be good are such as have both the infortunes in the same place joined to one of the luminaries; or when the infortunes single are singly joined to the luminaries; or when the moon is under the sun's beams with Saturn or Mars; or where all the planets are in the third, sixth, eighth, or twelfth houses; or when the infortunes are in angles, and the luminaries and fortunes cadent; or when the luminaries only are cadent and all the planets retrograde; or when both the luminaries and both the fortunes are afflicted; or when only Mars is above the horizon, the other planets not being mutually joined in angles."

The Nativity of the emperor of Austria-Hungary, having sun, moon and Saturn conjoined; that of the Comte de Paris and most of the Bourbon family (see the "Science of the Stars," pages 97—98); and that of the heir to the throne of Portugal, are instances of this.

With some of Cardan's aphorisms we are unable to agree. For example, the fifty-first, to this effect:—"Sol in Leo alone raises a man, at least scarce ever suffers him to wait or beg; and if the same sign ascend it brings up his spirit with hopes, and renders him master of more than ordinary reason." We have not found evidence of this, except when the fortune assisted; and we have usually found that persons so born are inordinately vain, proud and overbearing.

Again:—"If Cancer ascend and the moon be in a movable or common sign, especially remote from an angle, the native is credulous, light and inconstant." The late John Bright's Nativity contradicts this, for he had Cancer rising and the moon in a common sign remote from an angle, nevertheless he was a constant lover of freedom, a tribune of the people, and the friend of the oppressed.

The fifty-third aphorism is also unfounded, and so is the sixty-seventh.

The latter part of the eighty-third, viz. that "any planet in an angle is an impediment to wisdom is equally unfounded, and is refuted by the natiivities of Cuvier, Sir Humphrey Davy, Bacon (Lord Verulaire), Sir Wm. Rowan Hamilton, the late Prince Consort, Goethe, Coleridge, and many other men of great intellect.

The ninety-fourth is likewise unsupported by evidence.

ALFRED J. PEARCE.

## WEATHER PROPHETS AND OTHER FRAUDS.

America swarms with men who have a smattering knowledge of astronomy, and they set themselves up as weather prophets, frequently claiming that their methods of prediction are founded in the science of astrology. It is this claim against which I protest. I have observed Raphael's predictions for twenty years and am honestly of the opinion that the predictions which he wrote for 1870, (or for any other year), will answer just as well for 1890, or 1900, and that they are so general, having due regard for the season, that more than fifty per cent of his guesses about the weather for a particular year, will come right for ANY year.

Some twenty years ago a man calling himself "Dr. Knapp," of New Mexico, published a most wonderful prediction about the effects of "the great perihelion" that was to occur in 1881. A few years later a smart Aleck in San Jose, Cal., calling himself "Prof. Grimmer," claiming to be an astrologer, wrote a rehash of Knapp's predictions, drawing up on his imagination for his facts, and published a pamphlet full of the horrors that would result from the "Great Perihelia," as he called it. He sent me one of the pamphlets and wrote, asking me to call attention to it in my lectures. I replied in my slashing style, telling him that he was either a fool or knave, and that it was on account of charletons like him, claiming to be astrologers, which had brought the celestial science into such disrepute.

He replied in the most patronizing manner, pitying my ignorance, and assuring me that if I survived the terrible catastrophe I would then give him credit for his wonderful prophecy.

The truth was that Grimmer was an ignoramus in both astronomy and astrology. All he did was to steal Knapp's thunder, cuddle it and sleep with it until no doubt the fool really believed that he was its author and inventor.

In 1878 he issued a second edition of his pamphlet, and the papers on the Pacific Coast had so much to say about it that I was overrun with letters of inquiry. Finally, in the latter part of 1879 I began to make some calculations of perihelions in the past. Having completed a table, from A. D. to the present, I compared the dates with history, when, lo! not even in ONE case did I find that plague, pestilence and horrible events were coincident with a perihelion. But to cap the climax I found that only a few planets came into their perihelions in 1881. In the spring of 1880 I published the result of my work in the "Medical Journal" of Portland, Oregon, and sent a copy to Grimmer. He still affected to pity my ignorance, but never wrote me afterwards.

Wiggin, of the Dominion, is another who has distinguished himself as a false prophet. The man is evidently industrious, but very unlucky. Time and again he has predicted terrible storms, in March and September, when storms are always due, but somehow the clerk of the weather seems to be at loggerheads with him, for either the storm comes a week too soon, or too late, or worst of all, does not come off at all. Then, to complete his unhappiness, when we are to have the most terrific storm of the century, Wiggin, like Raphael and the rest of the false prophets, never predicts at all. For instance:

In September 1889 there was the most severe storm on the At-

atlantic coast ever known. The sea broke over the islands, broke into Long Branch, washed down houses, drowned the inhabitants and wrecked vessels by the score, as though old Neptune was either mad or drunk. And here is what Raphael says of the weather at that time:

"8th showery; 9th wind; 10th and 11th rain and wind; 12th fair."

It will be observed that he predicted rain and wind at the time the storm was raging, and no doubt but on that he will claim to have hit it exactly. Yet take one year with another, let that prediction stand for September, every year, and nine years out of ten there will be wind and rain, but such a storm as we had in 1889 will not come once in a century. So much for Wiggin and Raphael.

But right here in St. Louis, at the corner of 4th and Market sts., we have a weather prophet, the Rev. Editor Hicks. In 1888 he proclaimed that from about the middle of December till the first of January would be the coldest weather of the winter, declaring that Venus was nearing the center of her greatest point of disturbance, as the fact on which he based his prophecy. This amused me more than any prediction I had ever heard. Venus is the warm, loving planet, deified by the ancients as the goddess of love, beauty, pleasure, gentleness and kindness, for such she always indicates in a Nativity.

Well, poor Hicks was unlucky, for the period which he selected as the coldest of the winter, proved the warmest and most genial. Surely, the clerk of the weather must have a spite at him as well as Wiggin. But Hicks has outwitted the clerk of the weather and at last made a good hit, for he predicted the great storm of last September and it came off on time. This beats Knapp, Grimmer, Wiggin, Raphael and all the prophets since the time of Joe Smith, the Mormon, who prophesied he would be elected President in 1844, and had his prophecy fulfilled by being shot and riddled with bullets by a mob while in jail at Carthage, Illinois. That was a bad time for prophets. But "a prophet is not without honor, etc.," and Hicks must realize this from the way that Sergeant Hammon, of the signal service, of St. Louis, criticises him. On Sept. 21st Observer Hammon said to a reporter of the CHRONICLE:

"Any fool can make such a prediction as that, and the greater the fool the greater his success. Now Mr. Hicks' prediction reads: 'The 12th of September will be the center of a storm period and from the 10th to the 15th violent, and perhaps destructive storms may be looked for.' Now mark you he uses the word 'perhaps,' 'perhaps destructive storms.' Now that prediction will hold good for any five days in the month of September. A violent storm is raging now off the Atlantic coast north of where the other was located. The same would hold good for March. These are the two storm periods.

"I have looked up the charts of the station for the past six years and on every one a violent storm appears between the 10th and 15th of September. Then Mr. Hicks divides the month as follows: The 1st, 12th and 24th, he says, are storm centers and between these reactionary storms will occur. Now any one at all versed in the weather service knows that storms follow each other at intervals of about six days. Therefore you see how Mr. Hicks gets his dates. Then he does not confine himself to any locality, nor state specifically with regard to the storm.

"He says 'perhaps.' If a 'destructive' storm occurs, all right; if not, his prediction is still verified, for confined to no locality a storm of greater or less violence is sure to occur during the period

onable fee; yet, although half a century in advance of the mass of English astrologers, still Mr. Pearce is obscure in his teaching. He presupposes the reader to be familiar with, not only astrology but trigonometry, and the result is that many fail to understand his meaning and think themselves incapable of learning. For instance, beginning at the top of page 49, vol. I. Text-Book of Astrology, in telling how to place the planets in the Horoscope, he says: "Taking care to place them in the proper houses, which may easily be done, if it is remembered that the degrees pass over the cusps of the houses from left to right." Only an astrologer can understand what that means, and besides, at the top of the Horoscope, where we begin to insert the longitudes of the cusps, the degrees increase, (if that is what he means by, "pass over,") from right to left, while only at the bottom they increase from left to right. And I find scores of passages just as obscure, notwithstanding Mr. Pearce is so far in advance of his countrymen.

Americans are a peculiar people. They dislike the beaten track and slow-coach style of the Europeans. Our delegation of laborers that went to the Paris Exposition in 1889, reported that the English printers were working by the methods and with the devices which we rejected twenty years ago. They found the same true generally in the workshops and manufactories throughout London, and I think it will hold good with the English astrologers—Alfred J. Pearce excepted. Hence it is that Americans want a primary American work on astrology, and that is my excuse for writing the PRIMER.

I shall commence with the symbols, which represent the planets and signs of the Zodiac, and explain what they signify. When I use technical terms I shall give the definitions in plain language and also insert a Glossary of the terms. Then will follow specific rules, with an example, for making a Horoscope. Finally, rule and examples for reading the same. These instructions will enable one to be a better astrologer than nine-tenths of the English astrologers who come here and advertise as the best in the world.

I shall also publish the Tables usually found in astrological works together with Tables of Oblique Ascensions from  $1^{\circ}$  to  $60^{\circ}$  of latitude, calculated for each degree of latitude. These Tables are rarely found in works on astrology and are very convenient for calculating the longitudes of the cusps of the houses for any mundane latitude. Full explanations how to make Tables of Houses from these Tables, as well as by trigonometry, and also how to calculate Tables of Oblique Ascension, will be given.

Also Tables for equating and converting minutes of Oblique Ascension into longitude, 60 being always the second term. Thus: If 41 be 60 what will 31 be? Look in the Table and see the answer as easy as looking in a Multiplication Table. Also Tables for equating and converting minutes of longitude and latitude into Dec. and Right Ascension, when 60 in always the first term. These Tables have cost me months of labor, requiring over ten thousand calculations of multiplying and dividing.

I have also calculated a great number of Tables of Houses which have never been published and which will fill a longfelt want with astrologers.

When all the Parts are bound together they will constitute the most valuable work on astrology that has ever been published. It will be stereotyped, but no copy right claimed, for it is designed for the WHOLE American people.

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## JANUARY, 1890.

D M	☉		♃		♁		♂	
	R.	A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	282	3 45	1S41	18N58	0N35	9S37	1N34	41N30
3	284	15 57	1 41	18 58	0 35	9 38	1 35	11 41
5	286	27 46	1 41	18 57	0 35	9 39	1 35	11 43
7	288	39 13	1 41	18 57	0 35	9 40	1 36	11 45
9	290	49 59	1 41	18 57	0 35	9 41	1 36	11 47
11	293	0 18	1 41	18 56	0 35	9 42	1 37	11 50
13	295	10 2	1 41	18 56	0 35	9 42	1 37	11 53
15	297	19 8	1 41	18 56	0 35	9 43	1 38	11 56
17	299	30 5	1 41	18 56	0 35	9 43	1 38	11 58
19	301	35 20	1 41	18 55	0 35	9 44	1 39	12 1
21	303	42 8	1 41	18 55	0 36	9 44	1 39	12 4
23	305	18 35	1 41	18 55	0 36	9 45	1 39	12 7
25	307	54 1	1 41	18 55	0 36	9 45	1 40	12 11
27	309	58 38	1 41	18 54	0 36	9 45	1 40	12 14
29	312	2 10	1 41	18 54	0 36	9 46	1 40	12 17
31	314	5 22	1 41	18 54	0 36	9 45	1 41	12 21

D M	Sidereal Time. H. M. S.	☉	♃	♁	♂	♄	♅
		Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	18 44 21	22S59	3S40	14N 3		2π11	26 19
2	18 48 18	22 54	2 46	17 46		2R10	26 21
3	18 52 14	22 48	1 40	20 41		2 9	26 12
4	18 56 11	22 42	0 42	22 40		2 7	26 24
☉	19 0 7	22 35	0N2g	23 38	☾	2 6	26 25
6	19 4 4	22 28	1 27	23 32	Apogee.	2 5	26 26
7	19 8 1	22 21	2 28	22 23		2 4	26 28
8	19 11 57	22 13	3 22	20 14		2 3	26 29
9	19 15 54	22 4	4 8	17 13		2 2	26 30
10	19 19 50	21 55	4 44	13 26		2 1	26 32
11	19 23 47	21 46	5 7	9 5		2 0	26 33
☉	19 27 43	21 36	5 16	4 17		1 59	26 34
13	19 31 40	21 26	5 10	0S47		1 58	26 35
14	19 35 36	21 16	4 48	5 58	♃	1 58	26 36
15	19 39 33	21 5	4 10	11 1		1 57	26 37
16	19 43 30	20 53	3 17	15 41		1 56	26 37
17	19 47 26	20 42	2 10	19 37		1 55	26 38
18	19 51 23	20 29	0 53	22 24		1 54	26 39
☉	19 55 20	20 17	0S29	23 41		1 53	26 39
20	19 59 16	20 4	1 51	23 14	♄	15 2	26 39
21	20 3 12	19 51	3 4	21 4	Perigee.	1 51	26 40
22	20 7 9	19 37	4 4	17 26		1 51	26 40
23	20 11 5	19 23	4 46	12 45		1 50	26 40
24	20 15 2	19 9	5 9	7 29		1 50	26 41
25	20 18 59	18 54	5 12	1 59		1 49	26 41
☉	20 22 55	18 39	4 58	3N25		1 49	26 41
27	20 26 52	18 23	4 28	8 29	♅	1 48	26 42
28	20 30 48	18 8	3 47	13 3		1 48	26 42
29	20 34 45	17 52	2 56	16 58		1 47	26 42
30	20 38 41	17 35	1 58	20 6		1 47	26 42
31	20 42 38	17 18	0 55	22 19		1 47	26 42

JANUARY, 1890.

D M	♄ Lat.	♄ Dec.	♃ Lat.	♃ Dec.	♂ Lat.	♂ Dec.	♀ Lat.	♀ Dec.
1	0S 11	20S 26	1N 26	10S 14	0N 11	23S 24	2S 6	23S 9
3	0 11	20 23	1 26	10 37	0 14	23 28	1 58	22 26
5	0 12	20 19	1 26	11 0	0 17	23 29	1 48	21 38
7	0 12	20 15	1 25	11 23	0 20	23 28	1 34	20 44
9	0 12	20 11	1 25	11 45	0 23	23 23	1 15	19 47
11	0 12	20 8	1 25	12 7	0 27	23 15	0 54	18 47
13	0 12	20 3	1 25	12 29	0 32	23 5	0 29	17 46
15	0 13	21 59	1 25	12 51	0 37	22 51	0 2	16 46
17	0 13	21 55	1 25	13 12	0 41	22 35	0N 57	15 51
19	0 13	21 51	1 24	13 32	0 45	22 16	1 20	15 4
21	0 13	21 46	1 24	13 52	0 48	21 55	1 48	14 27
23	0 13	21 42	1 24	14 12	0 51	21 30	2 15	14 4
25	0 14	21 38	1 24	14 31	0 53	21 3	2 40	13 56
27	0 14	21 32	1 24	14 50	0 47	20 34	3 0	14 3
29	0 14	21 28	1 24	15 9	0 39	20 2	3 16	14 23
31	0 14	21 24	1 23	15 27	0 30	19 28	3 30	14 51

D M	♄ Long.	♃ Long.	♂ Long.	♂ Long.	♀ Long.	♀ Long.	
1	11V 5 51	19 8 23	3 11 37	17V 57	0 11 17	29 4 35	25V 8
2	12 7 0	1 11 33	3R 35	18 10	0 50	0V 50	26 43
3	13 8 9	13 32	3 33	18 24	1 24	2 6	28 17
4	14 9 17	25 26	3 31	18 38	1 57	3 21	29 50
5	15 10 26	7 15	3 28	18 52	2 31	4 37	1 21
6	16 11 34	19 3	3 26	19 6	3 4	5 53	2 52
7	17 12 42	0 52	3 23	19 20	3 37	7 8	4 22
8	18 13 50	12 43	3 20	19 34	4 10	8 23	5 50
9	19 14 57	24 39	3 17	19 48	4 43	9 38	7 16
10	20 16 5	6 42	3 14	20 3	5 16	10 53	8 34
11	21 17 12	18 55	3 11	20 17	5 49	12 8	9 47
12	22 18 20	1 21	3 8	20 31	6 22	13 24	10 54
13	23 19 27	14 4	3 5	20 45	6 55	14 39	11 54
14	24 20 34	27 6	3 2	20 59	7 28	15 55	12 48
15	25 21 41	10 31	3 1	21 13	8 1	17 10	13 38
16	26 22 47	24 33	2 57	21 27	8 34	18 25	14 25
17	27 23 54	8 37	2 53	21 41	9 6	19 41	15 7
18	28 24 59	23 16	2 50	21 55	9 38	20 56	15 45
19	29 26 5	8V 15	2 46	22 9	10 10	22 12	16 14
20	0 27 9	23 27	2 42	22 23	10 42	23 26	16 32
21	1 28 13	8 41	2 39	22 37	11 14	24 43	16R 33
22	2 29 17	23 47	2 35	22 51	11 45	25 59	16 15
23	3 30 19	8 37	2 31	23 5	12 17	27 14	15 49
24	4 31 21	23 8	2 27	23 19	12 48	28 29	15 15
25	5 32 21	7 1	2 23	23 33	13 20	29 45	14 31
26	6 33 20	20 30	2 19	23 47	13 51	1 0	13 41
27	7 34 18	3 21	2 14	24 1	14 23	2 15	12 44
28	8 35 15	16 9	2 10	24 15	14 54	3 31	11 40
29	9 36 10	28 27	2 6	24 29	15 26	4 46	10 28
30	10 37 4	10 30	2 2	24 43	15 57	6 1	9 5
31	11 37 57	22 24	1 57	24 57	16 28	7 17	7 31

## FEBRUARY, 1890.

D M	R. °	A. °	Lat. °	Dec. °	Lat. °	Dec. °	Lat. °	Dec. °
1	315	6 31	1S 40	18N 54	0N 35	9S 45	1N 40	12N 22
3	317	8 12	1 40	18 54	0 35	9 45	1 41	12 25
5	319	9 5	1 40	18 54	0 35	9 44	1 42	12 29
7	321	9 8	1 39	18 54	0 36	9 44	1 42	12 33
9	323	8 25	1 39	18 54	0 36	9 43	1 42	12 37
11	325	6 55	1 38	18 55	0 36	9 43	1 42	12 40
13	327	4 41	1 38	18 55	0 36	9 42	1 42	12 44
15	329	1 42	1 27	18 55	0 36	9 41	1 42	12 47
17	320	58 2	1 37	18 55	0 36	9 41	1 42	12 51
19	332	53 39	1 38	18 55	0 36	9 39	1 42	12 55
21	334	48 37	1 38	18 56	0 36	9 39	1 42	12 58
23	336	42 55	1 38	18 56	0 36	9 38	1 43	13 02
25	338	36 36	1 38	18 56	0 36	9 37	1 43	13 05
27	340	29 41	1 38	18 57	0 36	9 36	1 43	13 09
29	342	22 13	1 38	18 57	0 36	9 35	1 43	13 12

D M	Sidereal Time. H. M. S.	☉ Dec. °	☾ Lat. °	☾ Dec. °	☾ Phases.	♃ Long. °	♄ Long. °
1	20 46 34	17S 1	0N 9	23N 32		1 47	26 42
☉	20 50 31	16 44	1 12	23 42	Apogee.	1R 46	26 42
3	20 54 38	16 26	2 13	22 47		1 46	26 42
4	20 58 24	16 8	3 7	20 51	☽	1 46	26 42
5	21 2 21	15 51	3 54	17 59		1 46	26R 42
6	21 6 17	15 32	4 31	14 21		1 46	26 41
7	21 10 14	15 13	4 56	10 4		1 45	26 41
8	21 14 10	14 54	5 7	5 20		1 45	26 41
☉	21 18 6	14 35	5 3	0 18		1 45	26 40
10	21 22 3	14 16	4 45	4S 49		1 45	26 40
11	21 26 0	13 56	4 11	9 51		1 45	26 39
12	21 29 57	13 36	3 24	14 32	☾	1 45	26 39
13	21 33 53	13 16	2 23	18 35		1 45	26 38
14	21 37 50	12 55	1 13	21 41		1 45	26 38
15	21 41 46	12 35	0S 3	23 29		1 45	26 37
☉	21 45 43	12 14	1 21	23 44	Perigee.	1 45	26 36
17	21 49 39	11 53	2 34	22 18	☽	1 46	26 35
18	21 53 36	11 32	3 37	19 16		1 46	26 34
19	21 57 32	11 11	4 25	14 59		1 46	26 33
20	22 1 29	10 49	4 55	9 49		1 47	26 32
21	22 5 26	10 28	5 4	4 14		1 47	26 31
22	22 9 22	10 6	4 55	1N 25		1 48	26 29
☉	22 13 19	9 44	4 29	6 50		1 48	26 27
24	22 17 15	9 22	3 49	11 46		1 49	26 26
25	22 21 12	8 59	2 59	16 1		1 49	26 24
26	22 25 8	8 37	2 2	19 28	☾	1 50	26 23
27	22 29 5	8 14	1 1	21 59		1 51	26 22
28	22 33 1	7 52	0N 2	23 29		1 51	26 20

GREENWICH MEAN TIME THROUGHOUT.

FEBRUARY, 1890.

D M	♊		♈		♉		♏	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0 S 15	21 S 21	1 N 22	15 S 36	1 S 3	19 S 10	3 N 38	15 S 8
3	0 15	21 16	1 22	15 53	1 6	18 33	3 25	15 42
5	0 15	21 11	1 21	16 10	1 10	17 53	3 23	16 17
7	0 15	21 7	1 21	16 27	1 12	17 11	2 57	16 49
9	0 16	21 2	1 20	16 43	1 14	16 28	2 44	17 18
11	0 16	20 57	1 20	16 59	1 15	15 42	2 20	17 42
13	0 16	20 51	1 19	17 14	1 17	14 55	1 55	18 1
15	0 16	20 46	1 18	17 29	1 20	14 6	1 31	18 15
17	0 16	20 41	1 17	17 44	1 22	13 16	1 7	18 23
19	0 17	20 36	1 16	17 58	1 24	12 24	0 44	18 26
21	0 17	20 31	1 15	18 11	1 24	11 31	0 21	18 24
23	0 17	20 26	1 14	18 25	1 25	10 36	0 0	18 16
25	0 18	20 21	1 13	18 37	1 26	9 41	0 S 18	18 2
27	0 18	20 15	1 12	18 50	1 26	8 44	0 38	17 43
29	0 18	20 10	1 11	19 2	1 26	7 47	0 55	17 19

D M	♊	♈	♉	♏	♏	♏
	Long.	Long.	Long.	Long.	Long.	Long.
1	12 38 49	4 12	1 53	25 10	16 58	8 29
3	13 39 39	15 59	1 R 49	25 24	17 28	9 44
5	14 40 28	27 47	1 45	25 38	17 58	10 59
7	15 41 15	9 39	1 40	25 51	18 28	12 14
9	16 42 2	21 38	1 35	26 04	18 58	15 28
11	17 42 47	3 44	1 31	26 18	19 28	14 44
13	18 43 31	5 59	1 27	26 31	19 58	16 0
15	19 44 14	28 23	1 22	26 45	20 28	17 16
17	20 44 56	10 59	1 17	26 58	20 58	18 32
19	21 45 36	23 48	1 12	27 12	21 27	19 49
21	22 46 16	6 51	1 7	27 25	21 56	21 4
23	23 46 54	20 12	1 2	27 39	22 25	22 19
25	24 47 31	3 51	0 57	27 52	22 54	23 34
27	25 48 7	17 51	0 53	28 6	23 23	24 49
29	26 48 42	2 51	0 48	28 19	23 51	26 4
1	27 49 16	16 50	0 43	28 32	24 19	27 19
3	28 49 48	1 43	0 38	28 45	24 47	28 34
5	29 50 18	16 44	0 33	28 58	25 15	29 49
7	0 50 48	1 44	0 28	29 11	25 43	1 4
9	1 51 15	16 33	0 23	29 24	26 10	2 20
11	2 51 41	1 7	0 18	29 37	26 37	3 35
13	3 52 5	15 7	0 13	29 50	27 4	4 50
15	4 52 27	28 44	0 8	0 3	27 31	6 5
17	5 52 47	11 51	0 3	0 16	27 58	7 20
19	6 53 6	24 34	29 59	0 29	28 24	8 35
21	7 53 22	6 54	29 54	0 42	28 50	9 50
23	8 53 26	18 58	29 49	0 54	29 16	11 5
25	9 53 48	0 51	29 45	1 6	29 42	12 20

GREENWICH MEAN TIME THROUGHOUT.

MARCH, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	342 22 6	1S38	18N57	0N37	9S35	1N43	13N12
3	344 14 6	1 38	18 57	0 37	9 34	1 43	13 16
5	346 5 47	1 38	18 58	0 37	9 33	1 43	13 19
7	347 56 53	1 38	18 58	0 37	9 32	1 43	13 22
9	349 47 36	1 38	18 59	0 37	9 31	1 43	13 25
11	351 37 58	1 37	18 59	0 37	9 29	1 43	13 28
13	353 28 4	1 37	19 0	0 37	9 28	1 43	13 31
15	355 17 53	1 27	19 0	0 37	9 26	1 43	13 34
17	357 7 31	1 37	19 1	0 37	9 24	1 43	13 37
19	358 56 56	1 36	19 2	0 37	9 23	1 43	13 40
21	0 46 15	1 36	19 2	0 37	9 21	1 43	13 42
23	2 35 16	1 36	19 3	0 37	9 20	1 43	13 45
25	4 24 32	1 36	19 3	0 37	9 18	1 43	13 47
27	6 13 36	1 36	19 4	0 37	9 16	1 43	13 49
29	8 2 31	1 36	19 4	0 37	9 14	1 43	13 51
31	9 51 47	1 36	19 5	0 37	9 13	1 43	13 53

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	22 36 58	7S29	1N 4	23N55	Apogee.	1 51	26 19
3	22 40 54	7 6	2 4	23 16		1 52	26R18
4	22 44 51	6 43	2 58	21 35		1 52	26 16
5	22 48 48	6 20	3 45	18 56		1 53	26 15
6	22 52 44	5 57	4 22	15 26		1 54	26 13
7	22 56 41	5 34	4 47	11 14	☾	1 55	26 11
8	23 0 37	5 11	5 0	6 30		1 56	26 9
9	23 4 34	4 47	4 57	1 26		1 57	26 7
10	23 8 30	4 24	4 40	3S48		1 58	26 5
11	23 12 27	4 0	4 8	8 56		1 58	26 3
12	23 16 24	3 37	3 21	13 44		1 59	26 1
13	23 20 20	3 13	2 23	17 57		2 0	25 59
14	23 24 17	2 50	1 16	21 16	☾	2 1	25 57
15	23 28 13	2 26	0 4	23 23		2 2	25 55
16	23 32 10	2 2	1S10	24 3		2 3	25 53
17	23 36 6	1 39	2 21	23 9	Perigee.	2 4	26 51
18	23 40 3	1 15	3 23	20 43		2 6	25 49
19	23 43 59	0 57	4 13	16 55		2 7	25 47
20	23 47 56	0 27	4 46	12 6		2 8	25 45
21	23 51 52	0 4	5 0	6 39	☾	2 9	25 43
22	23 55 49	0N20	4 45	0 55		2 11	25 40
23	23 59 46	1 44	4 32	4N45		2 12	25 38
24	0 3 42	1 7	3 55	10 2		2 14	25 35
25	0 7 39	1 31	3 6	14 42		2 15	25 33
26	0 11 35	2 55	2 8	18 34		2 17	25 30
27	0 15 32	2 9	1 6	21 30	☾	2 18	25 28
28	0 19 28	3 42	0 3	23 22		2 19	25 26
29	0 23 25	3 5	1N 0	24 9		2 20	25 24
30	0 27 21	3 28	2 0	23 50	Apogee.	2 21	25 22
31	0 31 18	4 52	2 54	22 26		2 23	25 19
31	0 35 15	4 15	3 42	20 30		2 24	25 17

MARCH, 1890.

D	♈		♉		♊		♋	
M	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0S18	20S10	1N11	19S 2	1S26	7S47	0S54	17S19
3	0 18	20 5	1 10	19 13	1 26	6 49	1 10	16 49
5	0 19	20 0	1 9	19 24	1 26	5 50	1 24	16 14
7	0 19	19 55	1 7	19 35	1 25	4 50	1 36	15 33
9	0 19	19 49	1 6	19 46	1 24	3 50	1 47	14 48
11	0 19	19 44	1 4	19 56	1 23	2 50	1 56	13 57
13	0 19	19 39	1 3	20 5	1 22	1 49	2 4	13 1
15	0 20	19 34	1 1	20 15	1 19	0 48	2 9	12 0
17	0 20	19 28	0 59	20 24	1 17	0N14	2 14	10 54
19	0 20	19 24	0 57	20 32	1 14	1 15	2 17	9 44
21	0 20	19 19	0 55	20 41	1 12	2 16	2 18	8 28
23	0 21	19 14	0 53	20 49	1 9	3 17	2 16	7 8
25	0 21	19 9	0 51	20 56	1 6	4 18	2 13	5 42
27	0 21	19 4	0 48	21 4	1 3	5 18	2 8	4 13
29	0 22	19 0	0 46	21 11	1 0	6 18	2 1	2 39
31	0 22	18 55	0 43	21 18	0 56	7 18	1 52	1 1

D	♈	♉	♊	♋	♌	♍
M	Long.	Long.	Long.	Long.	Long.	Long.
1	10 <sup>h</sup> 53 <sup>m</sup> 58 <sup>s</sup>	12 <sup>h</sup> 05 <sup>m</sup> 59 <sup>s</sup>	29 <sup>h</sup> 04 <sup>m</sup> 40 <sup>s</sup>	1 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup>	0 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup>	13 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup>
3	11 54 6	24 26	29R35	1 31	0 39	14 50
5	12 54 12	6 <sup>h</sup> 0 <sup>m</sup> 16 <sup>s</sup>	29 30	1 44	1 7	16 5
7	13 54 16	18 14	29 26	1 56	1 27	17 20
9	14 54 18	0 <sup>h</sup> 0 <sup>m</sup> 21 <sup>s</sup>	29 22	2 8	1 47	18 35
11	15 54 18	12 40	29 17	2 20	2 7	19 50
13	16 54 16	25 10	29 12	2 32	2 27	21 5
15	17 54 12	7 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup>	29 7	2 44	2 51	22 20
17	18 54 6	20 47	29 3	2 56	3 16	23 34
19	19 54 0	3 <sup>h</sup> 0 <sup>m</sup> 52 <sup>s</sup>	29 59	3 7	3 41	24 49
21	20 53 50	17 8	28 54	3 19	4 6	26 5
23	21 53 40	0 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup>	28 51	3 30	4 29	27 19
25	22 53 27	14 17	28 45	3 42	4 51	28 34
27	23 53 13	28 10	28 41	3 53	5 13	29 49
29	24 52 57	12 <sup>h</sup> 05 <sup>m</sup> 16 <sup>s</sup>	28 37	4 4	5 33	1 <sup>h</sup> 0 <sup>m</sup> 4 <sup>s</sup> 11
31	25 52 40	26 35	28 34	4 16	5 54	2 20
1	26 52 21	11 <sup>h</sup> 5 <sup>m</sup> 5	28 30	4 27	6 14	3 34
3	27 52 0	25 42	28 26	4 38	6 34	4 48
5	28 51 37	10 <sup>h</sup> 31 <sup>m</sup> 19 <sup>s</sup>	28 22	4 49	6 54	6 2
7	29 51 12	24 50	28 19	5 0	7 13	7 16
9	0 <sup>h</sup> 50 <sup>m</sup> 45 <sup>s</sup>	9 <sup>h</sup> 9 <sup>m</sup> 6 <sup>s</sup>	28 15	5 11	7 32	8 31
11	1 50 16	23 3	28 10	5 22	7 50	9 46
13	2 49 45	6 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup>	28 7	5 33	8 8	11 1
15	3 49 12	19 44	28 4	5 43	8 26	12 15
17	4 48 36	2 <sup>h</sup> 0 <sup>m</sup> 28 <sup>s</sup>	28 2	5 53	8 44	13 29
19	5 47 58	14 51	27 59	6 4	9 1	14 44
21	6 47 13	26 58	27 55	6 14	9 18	16 59
23	7 46 36	8 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup>	27 51	6 24	9 34	17 13
25	8 45 51	20 42	27 48	6 34	9 49	18 27
27	9 45 4	2 <sup>h</sup> 0 <sup>m</sup> 31 <sup>s</sup>	27 45	6 44	10 4	19 42
29	10 44 14	14 25	27 42	6 53	10 19	20 56
31						1 <sup>h</sup> 0 <sup>m</sup> 47 <sup>s</sup>

ARPIL, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	10 46 18	1 S 36	19 N 5	0 N 37	9 S 12	1 N 43	13 N 54
3	12 35 36	1 36	19 6	0 37	9 10	1 43	13 56
5	14 24 51	1 36	19 7	0 37	9 8	1 43	13 57
7	16 14 32	1 36	19 8	0 37	9 7	1 42	13 59
9	18 4 18	1 36	19 8	0 37	9 5	1 42	14 0
11	19 54 21	1 36	19 9	0 37	9 3	1 42	14 1
13	21 44 48	1 36	19 10	0 37	9 1	1 42	14 2
15	23 35 32	1 25	19 11	0 37	8 59	1 42	14 3
17	25 26 35	1 35	19 12	0 37	8 57	1 42	14 4
19	27 18 5	1 35	19 12	0 37	8 55	1 41	14 5
21	29 10 3	1 35	19 13	0 37	8 53	1 41	14 5
23	31 2 20	1 35	19 14	0 37	8 52	1 41	14 5
25	32 55 6	1 35	19 15	0 37	8 50	1 41	14 5
27	34 48 30	1 35	19 16	0 37	8 48	1 41	14 5
29	36 42 15	1 35	19 16	0 37	8 46	1 40	14 5
31	38 36 30	1 35	19 17	0 37	8 44	1 40	14 5

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	0 39 11	4 N 38	4 N 20	16 N 46		2 27	25 14
2	0 43 8	5 1	4 46	12 44		2 28	25 12
3	0 47 4	5 24	5 0	8 5		2 30	25 9
4	0 51 1	5 47	4 59	3 0	☾	2 31	25 7
5	0 54 57	6 10	4 43	2 S 19		2 33	25 4
7	0 58 54	6 33	4 11	7 38		2 35	25 2
8	1 2 50	6 55	3 25	12 42		2 36	24 59
9	1 6 47	7 18	2 26	17 12		2 38	24 57
10	1 10 44	7 40	1 18	20 50		2 40	24 54
11	1 14 40	8 2	0 5	23 17		2 42	24 52
12	1 18 37	8 24	1 S 9	24 18	☾	2 43	24 49
13	1 22 33	8 46	2 19	23 46		2 45	24 47
14	1 26 30	9 8	3 22	21 42	Perigee.	2 47	24 44
15	1 30 26	9 30	4 12	18 19		2 49	24 41
16	1 34 23	9 51	4 46	13 51		2 51	24 39
17	1 38 19	10 12	5 3	8 39		2 53	24 36
18	1 42 16	10 34	5 1	3 3		2 54	24 34
19	1 46 13	10 55	4 42	2 N 39	☉	2 56	24 31
20	1 50 9	11 15	4 7	8 7		2 58	24 29
21	1 54 6	11 36	3 19	13 6		3 0	24 26
22	1 58 2	11 56	2 21	17 22		3 2	24 24
23	2 1 59	12 17	1 18	20 43		3 4	24 21
24	2 5 55	12 37	0 12	23 3		3 6	24 18
25	2 9 52	12 56	0 N 53	24 15		3 8	24 16
26	2 13 48	13 16	1 55	24 18		3 10	24 13
27	2 17 45	13 35	2 51	23 15	☾	3 12	24 11
28	2 21 42	13 55	3 40	21 11	Apogee.	3 14	24 8
29	2 25 38	14 14	4 20	18 11		3 16	24 6
30	2 29 35	14 32	4 49	14 24		3 18	24 3
31	2 33 31	14 51	5 6	9 57		3 20	24 1

APRIL, 1890.

D M	♈ Lat., Dec.,	♉ Lat., Dec.,	♊ Lat., Dec.,	♋ Lat., Dec.,	♌ Lat., Dec.,	♍ Lat., Dec.,	♎ Lat., Dec.,
1	0 S 22	18 S 53	0 N 42	21 S 21	0 S 55	7 N 47	1 S 47
3	0 23	18 48	0 39	21 28	0 51	8 45	1 35
5	0 23	18 44	0 36	21 34	0 47	9 43	1 21
7	0 23	18 40	0 32	21 40	0 43	10 40	1 5
9	0 24	18 36	0 29	21 46	0 39	11 35	0 47
11	0 24	18 31	0 26	21 52	0 35	12 30	0 28
13	0 24	18 28	0 22	21 58	0 20	13 28	0 7
15	0 25	18 24	0 18	22 3	0 25	14 15	0 N 15
17	0 25	18 20	0 14	22 9	0 21	15 6	0 37
19	0 25	18 16	0 10	22 14	0 16	15 55	0 58
21	0 26	18 13	0 5	22 19	0 11	16 42	1 19
23	0 26	18 10	0 1	22 23	0 6	17 28	1 38
25	0 26	18 7	0 S 4	22 28	0 1	18 12	1 56
27	0 27	18 4	0 9	22 32	0 N 4	18 55	2 10
29	0 27	18 1	0 14	22 37	0 10	19 35	2 22
31	0 27	17 58	0 19	22 41	0 18	20 18	2 32

D M	♈ Long.,	♉ Long.,	♊ Long.,	♋ Long.,	♌ Long.,	♍ Long.,	♎ Long.,
1	11 ♀ 43 3	26 ♀ 27	27 ♀ 39	7 ♀ 3	10 ♀ 33	22 ♀ 11	3 ♀ 42
2	12 42 9	27 ♀ 42	27 R 37	7 12	10 47	23 25	5 38
3	13 41 13	21 11	27 34	7 22	11 0	24 39	7 36
4	14 40 15	3 ♀ 57	27 32	7 31	11 12	25 53	9 35
5	15 39 14	16 58	27 29	7 40	11 24	27 8	11 35
6	16 38 12	0 ♀ 14	27 27	7 49	11 35	28 22	13 36
7	17 37 8	13 43	27 25	7 58	11 46	29 36	15 39
8	18 36 1	27 21	27 22	8 7	11 57	0 ♂ 50	17 42
9	19 34 53	11 ♀ 9	27 20	8 15	12 6	2 4	19 47
10	20 33 44	25 3	27 18	8 24	12 16	3 18	21 52
11	21 32 32	9 ♀ 3	27 17	8 32	12 24	4 32	23 58
12	22 31 19	23 8	27 15	8 41	12 32	5 46	26 4
13	23 30 5	7 ♀ 18	27 13	8 49	12 39	7 0	28 11
14	24 28 48	21 30	27 12	8 57	12 46	8 14	0 ♂ 17
15	25 27 30	5 ♀ 43	27 10	9 4	12 52	9 28	2 23
16	26 26 10	19 53	27 9	9 12	12 57	10 42	4 29
17	27 24 48	3 ♀ 56	27 8	9 20	13 1	11 56	6 33
18	28 23 25	17 48	27 6	9 27	13 5	13 10	8 37
19	29 21 59	1 ♂ 24	27 5	9 34	13 8	14 24	10 38
20	0 ♂ 20 32	14 45	27 4	9 42	13 11	15 38	12 38
21	1 19 3	27 41	27 4	9 48	13 13	16 52	14 36
22	2 17 31	10 ♀ 20	27 3	9 55	13 14	18 6	16 31
23	3 15 58	22 41	27 2	10 2	13 14	19 19	18 23
24	4 14 23	4 ♀ 47	27 2	10 8	13 R 14	20 33	20 12
25	5 12 46	16 43	27 1	10 15	13 12	21 47	21 58
26	6 11 6	28 34	27 1	10 21	13 10	23 1	23 40
27	7 9 25	10 ♀ 24	27 1	10 27	13 8	24 14	25 19
28	8 7 41	22 19	27 1	10 33	13 4	25 28	26 54
29	9 5 55	4 ♀ 23	27 1	10 39	13 0	26 41	28 25
30	10 4 7	16 42	27 1	10 44	12 55	27 55	29 52

MAY, 1890.

D M	R. °	A. '	Lat. °	Dec. °	Lat. °	Dec. °	Lat. °	Dec. °
1	38	56 31	1S35	19N17	0N36	8 S44	1N40	14N 5
3	40	31 18	1 35	19 18	0 36	8 42	1 40	14 4
5	42	26 38	1 35	19 19	0 36	8 40	1 39	14 4
7	44	22 33	1 35	19 20	0 36	8 38	1 39	14 3
9	46	19 2	1 35	19 21	0 36	8 37	1 38	14 2
11	48	16 6	1 35	19 22	0 36	8 36	1 38	14 1
13	50	13 47	1 35	19 23	0 36	8 34	1 38	14 0
15	52	12 2	1 25	19 23	0 36	8 32	1 38	13 59
17	54	10 42	1 35	19 24	0 36	8 31	1 38	13 57
19	56	10 17	1 35	19 24	0 36	8 30	1 38	13 55
21	58	10 14	1 35	19 25	0 36	8 28	1 38	13 54
23	60	10 43	1 35	19 26	0 36	8 27	1 38	13 52
25	62	11 42	1 35	19 27	0 36	8 26	1 38	13 50
27	64	13 10	1 35	19 28	0 36	8 25	1 38	13 48
29	66	15 20	1 35	19 29	0 36	8 24	1 37	13 45
31	68	17 26	1 35	19 30	0 36	8 23	1 36	13 43

D M	Sidereal Time. H. M. S.	Dec. °	Lat. °	Dec. °	Phases.	Long. °	Long. °
1	2 37 28	15N 9	5N 8	4N59		3 22	23 59
2	2 41 24	15 27	4 55	0S19		3 25	23R56
3	2 45 21	15 45	4 25	5 44		3 27	23 54
5	2 49 17	16 2	3 41	11 2	☉	3 29	23 52
5	2 53 14	16 19	2 42	15 54		3 31	23 50
6	2 57 10	16 36	1 33	19 58		3 33	23 47
7	3 1 7	16 53	0 17	22 53		3 35	23 45
8	3 5 4	17 9	1S 0	24 21	Perigee.	3 37	23 43
9	3 9 0	17 25	2 15	24 13		3 39	23 41
10	3 12 57	17 41	3 20	22 29		3 41	23 39
12	3 16 53	17 56	4 13	19 21	☾	3 43	23 36
12	3 20 50	18 12	4 50	15 8		3 45	23 34
13	3 24 46	18 26	5 9	10 8		3 47	23 32
14	3 28 43	18 41	5 11	4 40		3 50	23 30
15	3 32 39	18 55	4 54	0N56	●	3 52	23 28
16	3 36 36	19 9	4 22	6 25		3 54	23 26
17	3 40 33	19 23	3 36	11 32		3 56	23 24
18	3 44 29	19 36	2 40	16 3		3 59	23 22
19	3 48 26	19 49	1 37	19 45		4 1	23 20
20	3 52 22	20 2	0 30	22 28		4 3	23 18
21	3 56 19	20 14	0N37	24 5		4 5	23 16
22	4 0 15	20 36	1 42	24 32		4 8	23 14
23	4 4 12	20 37	2 42	23 51		4 10	23 12
24	4 8 8	20 49	3 34	22 6	Apogee.	4 12	23 10
24	4 12 5	21 0	4 17	19 24		4 14	23 8
26	4 16 2	21 10	4 49	15 53	☾	4 17	23 6
27	4 19 58	21 20	5 9	11 42		4 19	23 5
28	4 23 55	21 30	5 16	6 57		4 21	23 4
29	4 27 51	21 40	5 7	1 49		4 23	23 2
30	4 31 48	21 49	4 43	3S32		4 26	23 0
31	4 35 44	21 57	4 4	8 54		4 28	22 58

MAY, 1890.

D M	♃		♄		♅		♆		♇	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0S28	17S58	0S20	22S41	0N17	20N13	2N31	22N52		
3	0 28	17 56	0 25	22 45	0 20	20 49	2 35	23 27		
5	0 29	17 54	0 31	22 48	0 24	21 22	2 36	23 53		
7	0 29	17 52	0 38	22 52	0 30	21 54	2 32	24 9		
9	0 30	17 50	0 45	22 55	0 36	22 23	2 26	24 18		
11	0 30	17 48	0 51	22 57	0 41	22 49	2 14	24 18		
13	0 30	17 46	0 57	23 0	0 45	23 13	1 59	24 11		
15	0 31	17 45	1 3	23 2	0 50	23 34	1 38	23 56		
17	0 31	17 44	1 9	23 3	0 55	23 53	1 15	23 35		
19	0 32	17 43	1 16	23 5	1 0	24 8	0 47	23 8		
21	0 32	17 42	1 23	23 5	1 4	24 21	0 16	22 35		
23	0 32	17 42	1 30	23 6	1 8	24 31	0S16	21 58		
25	0 33	17 42	1 37	23 6	1 12	24 39	0 51	21 17		
27	0 33	17 42	1 43	23 5	1 16	24 43	1 27	20 34		
29	0 33	17 42	1 48	23 4	1 20	24 45	2 0	19 51		
31	0 34	17 42	1 54	23 3	1 23	24 44	2 32	19 9		

D M	♁ Long.	♂ Long.	♆ Long.	♃ Long.	♄ Long.	♅ Long.	♆ Long.	♇ Long.
1	11 2 37	29 18	27 1	10 49	12 49	29 8	1 13	
3	12 0 45	12 13	27 2	10 54	12R43	0 22	2 32	
5	12 58 52	25 29	27 2	10 59	12 36	1 35	3 46	
7	13 56 57	9 4	27 3	11 4	12 28	2 49	4 56	
9	14 55 0	22 55	27 3	11 9	12 20	4 2	6 1	
11	15 53 2	6 59	27 4	11 13	12 9	5 15	7 1	
13	16 51 2	21 13	27 5	11 17	11 57	6 29	7 57	
15	17 49 0	5 31	27 6	11 21	11 44	7 42	8 49	
17	18 46 58	19 50	27 8	11 25	11 31	8 56	9 35	
19	19 44 54	4 6	27 9	11 30	11 17	10 9	10 17	
21	20 42 48	18 19	27 10	11 33	11 3	11 22	10 54	
23	21 40 42	2 25	27 11	11 36	10 48	12 35	11 26	
25	22 38 34	16 23	27 13	11 39	10 33	13 48	11 53	
27	23 36 25	0 12	27 14	11 42	10 27	15 1	12 16	
29	24 34 15	13 49	27 16	11 45	10 1	16 14	12 33	
31	25 32 3	27 14	27 17	11 48	9 55	17 28	12 45	
1	26 29 51	10 25	27 19	11 51	9 39	18 41	12 52	
3	27 27 37	23 22	27 21	11 54	9 22	19 54	12R55	
5	28 25 22	6 3	27 23	11 57	9 4	21 7	12 53	
7	29 23 5	18 30	27 25	12 0	8 46	22 20	12 45	
9	0 20 47	0 44	27 27	12 1	8 28	23 34	12 34	
11	1 18 27	12 46	27 29	12 2	8 9	24 46	12 19	
13	2 16 6	24 41	27 32	12 3	7 50	25 59	12 0	
15	3 13 44	6 81	27 35	12 4	7 30	27 11	11 38	
17	4 11 20	18 21	27 38	12 5	7 10	28 24	11 12	
19	5 8 55	0 16	27 41	12 6	6 50	29 36	10 43	
21	6 6 28	12 21	27 44	12 7	6 30	0 49	10 13	
23	7 4 0	24 39	27 47	12 7	6 10	2 2	9 41	
25	8 1 31	7 15	27 50	12 8	5 49	3 15	9 7	
27	8 59 0	20 14	27 53	12 9	5 28	4 28	8 34	
29	9 56 28	3 35	27 57	12 10	5 7	5 40	8 0	

## JULY, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	100 22 46	1 S 35	19 N 41	0 N 35	8 S 15	1 N 35	12 N 51
3	102 26 38	1 35	19 42	0 35	8 16	1 35	12 47
5	104 30 13	1 35	19 43	0 35	8 16	1 34	12 42
7	106 33 29	1 35	19 43	0 35	8 16	1 34	12 38
9	108 36 23	1 35	19 44	0 35	8 16	1 34	12 34
11	110 38 53	1 35	19 44	0 34	8 17	1 34	12 29
13	112 40 58	1 35	19 45	0 34	8 17	1 34	12 24
15	114 42 36	1 35	19 45	0 34	8 18	1 34	12 20
17	116 43 45	1 36	19 46	0 34	8 19	1 34	12 15
19	118 44 20	1 36	19 46	0 34	8 20	1 34	12 10
21	120 44 26	1 36	19 47	0 34	8 20	1 34	12 5
23	122 43 51	1 36	19 48	0 34	8 21	1 34	12 0
25	124 42 42	1 36	19 48	0 34	8 22	1 34	11 55
27	126 40 58	1 36	19 48	0 34	8 23	1 34	11 50
29	128 38 37	1 36	19 48	0 34	8 24	1 34	11 45
31	130 35 39	1 36	19 49	0 34	8 26	1 34	11 40

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	6 37 58	23 N 7	0 S 2	23 S 21		5 N 35	22 N 36
2	6 41 54	23 2	1 23	24 31	Perigee.	5 37	22 36
3	6 45 51	22 58	2 40	23 55		5 38	22 36
4	6 49 47	22 53	3 45	21 34		5 40	22 36
5	6 53 44	22 47	4 34	17 45		5 42	22 36
6	6 57 40	22 41	5 5	12 55		5 44	22 37
7	7 1 37	22 35	5 15	7 27	C	5 46	22 37
8	7 5 34	22 28	5 6	1 46		5 48	22 37
9	7 9 30	22 21	4 40	3 N 51		5 50	22 38
10	7 13 27	22 14	4 0	9 9		5 51	22 38
11	7 17 23	22 6	3 9	13 55	Apogee.	5 53	22 39
12	7 21 20	21 58	2 9	17 58		5 55	22 39
13	7 25 16	21 49	1 5	21 10		5 57	22 40
14	7 29 13	21 40	0 N 2	23 21		5 58	22 41
15	7 33 10	21 31	1 7	24 26		6 0	22 42
16	7 37 6	21 21	2 9	24 22	●	6 2	22 42
17	7 41 3	21 11	3 5	23 12		6 3	22 43
18	7 44 59	*21 0	3 52	21 0		6 5	22 44
19	7 48 56	20 50	4 30	17 56		6 6	22 45
20	7 52 52	20 39	4 56	14 7	6 8	22 46	
21	7 56 49	20 27	5 9	9 44	☾	6 9	22 47
22	8 0 45	20 15	5 9	4 57		6 11	22 48
23	8 4 42	20 3	4 55	0 S 7		6 12	22 50
24	8 8 39	19 51	4 26	5 16		6 14	22 51
25	8 12 35	19 38	3 44	10 21		6 15	22 52
26	8 16 32	19 25	2 49	15 6	Perigee.	6 17	22 53
27	8 20 28	19 11	1 43	19 15		6 18	22 55
28	8 24 25	18 57	0 28	22 26		6 19	22 56
29	8 28 21	18 43	0 S 50	24 16		6 21	22 58
30	8 32 18	18 29	2 7	24 26		6 22	22 59
31	8 36 15	18 14	3 17	22 47		☺	6 23

JULY, 1890.

D M	♄		♃		♂		♀		♁	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0S41	18S14	3S 2	22S41	1N47	18N40	1S59	21N 1		
3	0 41	18 18	3 4	22 43	1 46	17 57	1 35	21 38		
5	0 42	18 21	3 6	22 44	1 44	17 13	1 9	22 13		
7	0 42	18 25	3 7	22 47	1 43	16 27	0 44	22 43		
9	0 43	18 29	3 9	22 49	1 41	15 39	0 19	23 7		
11	0 43	18 33	3 10	22 53	1 38	14 50	0N 4	23 23		
13	0 43	18 37	3 11	22 57	1 35	13 59	0 27	23 31		
15	0 44	18 41	3 12	23 1	1 32	13 7	0 47	23 28		
17	0 44	18 45	3 12	23 6	1 29	12 14	1 4	23 15		
19	0 44	18 49	3 13	23 11	1 26	11 19	1 19	22 51		
21	0 45	18 54	3 13	23 17	1 20	10 23	1 31	22 16		
23	0 45	18 58	3 13	23 23	1 16	9 27	1 39	21 31		
25	0 45	19 2	3 13	23 29	1 11	8 29	1 44	20 38		
27	0 46	19 6	3 13	23 36	1 6	7 31	1 47	19 37		
29	0 46	19 11	3 13	23 43	1 0	6 32	1 47	18 29		
31	0 46	19 15	3 13	23 50	0 54	5 33	1 44	17 17		

D M	♁		♂		♃		♄		♁	
	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.	Long.
1	9♄32 19	24 ♄ 13	0♃19	10♂38	28♃ 3	12♄54	19♁ 7			
3	10 29 30	9♃ 6	0 25	10R33	28R 1	14 5	20 33			
5	11 26 40	24 10	0 30	10 27	27 59	15 16	22 3			
7	12 23 51	9♂16	0 36	10 21	27 59	16 27	23 37			
9	13 21 2	24 15	0 42	10 15	27D59	17 39	25 15			
11	14 18 13	8♃59	0 48	10 9	28 1	18 50	26 56			
13	15 15 24	23 23	0 54	10 2	28 3	20 1	28 40			
15	16 12 36	7♄ 22	1 0	9 56	28 5	21 12	0♄27			
17	17 9 48	20 58	1 6	9 49	28 9	22 22	2 18			
19	18 7 1	4♂10	1 12	9 43	28 13	23 33	4 11			
21	19 4 14	17 2	1 19	9 36	28 19	24 44	6 8			
23	20 1 28	29 36	1 25	9 29	28 25	25 55	8 6			
25	20 58 43	11♁56	1 31	9 22	28 31	27 5	10 6			
27	21 55 58	24 5	1 38	9 15	28 39	28 16	12 9			
29	22 53 13	6♄ 6	1 44	9 8	28 47	29 26	14 13			
31	23 50 29	18 1	1 51	9 1	28 56	0♃37	16 19			
1	24 47 46	29 52	1 57	8 54	29 6	1 47	18 26			
3	25 45 3	11♂42	2 4	8 46	29 17	2 58	20 33			
5	26 42 20	23 32	2 10	8 39	29 28	4 8	22 41			
7	27 39 37	5♃24	2 17	8 31	29 40	5 18	24 49			
9	28 36 55	17 22	2 24	8 24	29 53	6 28	26 57			
11	29 34 14	29 27	2 31	8 16	0 ♄ 6	7 38	29 4			
13	0♂31 32	11♁43	2 37	8 9	0 20	8 48	1♂11			
15	1 28 52	24 14	2 44	8 1	0 35	9 58	3 17			
17	2 26 11	7♃ 4	2 51	7 53	0 50	11 8	5 22			
19	3 23 31	20 16	2 58	7 46	1 6	12 18	7 26			
21	4 20 52	3 ♄ 54	3 5	7 38	1 23	13 27	9 28			
23	5 18 13	17 59	3 12	7 30	1 40	14 37	11 29			
25	6 15 35	2♃30	3 19	7 22	1 58	15 46	13 29			
27	7 12 57	17 24	3 26	7 14	2 16	16 56	15 28			
29	8 10 20	2♂34	3 33	7 7	2 35	18 5	17 24			

## AUGUST, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	131 33 56	1S 36	19N 49	0N 34	8S 26	1N 34	11N 38
3	133 30 4	1 36	19 49	0 34	8 28	1 34	11 32
5	135 25 36	1 36	19 49	0 34	8 29	1 34	11 27
7	137 20 33	1 36	19 50	0 33	8 30	1 34	11 22
9	139 14 56	1 36	19 50	0 33	8 32	1 34	11 16
11	141 8 46	1 36	19 50	0 33	8 34	1 34	11 11
13	143 2 3	1 37	19 50	0 33	8 35	1 34	11 6
15	144 54 47	1 37	19 51	0 33	8 37	1 34	11 0
17	146 47 0	1 37	19 51	0 33	8 39	1 34	10 55
19	148 38 41	1 37	19 51	0 33	8 40	1 34	10 49
21	150 29 53	1 37	19 51	0 33	8 42	1 34	10 44
23	152 20 37	1 37	19 51	0 33	8 44	1 34	10 38
25	154 10 53	1 37	19 51	0 33	8 46	1 34	10 33
27	156 0 44	1 37	19 51	0 33	8 48	1 34	10 27
29	157 50 12	1 37	19 51	0 33	8 50	1 35	10 22
31	159 39 19	1 37	19 51	0 33	8 53	1 35	10 16

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	8 40 11	17N 59	4S 12	19S 29		6 25	23 2
2	8 44 8	17 44	4 50	14 53		6 26	23 4
3	8 48 4	17 28	5 7	9 26		6 27	23 6
4	8 52 1	17 12	5 3	3 34		6 28	23 7
5	8 55 57	16 56	4 41	2N 17		6 29	23 9
6	8 59 54	16 40	4 3	7 51		6 30	23 11
7	9 3 50	16 23	3 13	12 53	☾	6 31	23 13
8	9 7 47	16 6	2 15	17 12		6 32	23 15
9	9 11 44	15 49	1 12	20 37		6 33	23 17
10	9 15 40	15 31	0 7	23 2		6 34	23 19
11	9 19 37	15 14	0N 57	24 22		6 35	23 21
12	9 23 33	14 56	1 58	24 33		6 36	23 23
13	9 27 30	14 37	2 53	23 37		6 37	23 25
14	9 31 26	14 19	3 41	21 38	Apogee.	6 38	23 28
15	9 35 23	14 0	4 19	18 43	☉	6 39	23 30
16	9 39 19	13 41	4 46	15 2		6 40	23 32
17	9 43 16	13 22	5 0	10 44		6 40	23 34
18	9 47 12	13 3	5 2	6 0		6 41	23 37
19	9 51 9	12 43	4 49	0 59		6 42	23 39
20	9 55 6	12 24	4 23	4S 9		6 43	23 42
21	9 59 2	12 4	3 44	9 13		6 43	23 44
22	10 2 59	11 43	2 53	14 0		6 44	23 47
23	10 6 55	11 23	1 52	18 15	☾	6 44	23 49
24	10 10 52	11 3	0 43	21 41		6 45	23 52
25	10 14 48	10 42	0S 31	23 56		6 45	23 55
26	10 18 45	10 21	1 45	24 43		6 46	23 57
27	10 22 41	10 0	2 54	23 48		6 46	24 0
28	10 26 38	9 39	3 52	21 11	Perigee.	6 47	24 3
29	10 30 35	9 18	4 34	17 5	☉	6 47	24 6
30	10 34 31	8 56	4 57	11 52		6 48	24 8
31	10 38 28	8 35	4 59	5 59		6 48	24 1

AUGUST, 1890.

D M	♊		♋		♌		♍	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0S46	19S17	3S12	23S54	0N51	5N3	1N41	16N39
3	0 46	19 21	3 12	24 1	0 44	4 2	1 35	15 20
5	0 47	19 25	3 11	24 9	0 38	3 2	1 27	13 59
7	0 47	19 29	3 11	24 17	0 30	2 1	1 17	12 35
9	0 47	19 33	3 9	24 25	0 23	1 0	1 6	11 10
11	0 47	19 37	3 9	24 33	0 15	0S 2	0 53	9 44
13	0 47	19 42	3 8	24 40	0 7	1 3	0 39	8 18
15	0 48	19 45	3 8	24 48	0S 1	2 4	0 24	6 52
17	0 48	19 48	3 7	24 56	0 9	3 6	0 8	5 27
19	0 48	19 52	3 5	25 3	0 18	4 7	0S 9	4 3
21	0 48	19 55	3 4	25 10	0 27	5 7	0 26	2 40
23	0 48	19 58	3 3	25 17	0 36	6 8	0 44	1 19
25	0 48	20 1	3 2	25 24	0 45	7 8	1 2	0S 1
27	0 48	20 4	3 1	25 30	0 55	8 7	1 20	1 17
29	0 48	20 7	3 59	25 36	1 5	9 6	1 38	2 31
31	0 48	20 9	2 58	25 42	1 14	10 4	1 57	3 42

D M	♊ Long.	♋ Long.	♌ Long.	♍ Long.	♎ Long.	♏ Long.	♐ Long.
1	9♊ 7 44	17♋ 51	3♌ 40	6♍ 59	2♎ 55	19♏ 14	19♐ 19
2	10 5 8	3 4	3 47	6R 51	3 15	20 23	21 13
4	11 2 34	18 4	3 55	6 43	3 36	21 32	23 5
5	12 0 1	2P 40	4 2	6 36	3 57	22 41	24 56
6	12 57 29	16 50	4 9	6 28	4 19	23 50	26 44
8	13 54 59	0 30	4 16	6 20	4 41	24 58	28 32
7	14 52 30	13 43	4 24	6 13	5 4	26 7	0 18
8	15 50 2	26 32	4 31	6 5	5 27	27 15	2 2
9	16 47 36	8 59	4 38	5 57	5 50	28 24	3 44
10	17 45 11	21 12	4 46	5 50	6 15	29 32	5 25
11	18 42 48	3 12	4 53	5 42	6 39	0 40	7 5
12	19 40 26	15 6	5 0	5 35	7 4	1 48	8 43
13	20 38 5	26 56	5 8	5 28	7 30	2 56	10 20
14	21 35 46	8 45	5 15	5 21	7 56	4 4	11 55
15	22 33 28	20 36	5 23	5 13	8 22	5 12	13 28
16	23 31 11	2 29	5 30	5 6	8 49	6 19	15 1
18	24 28 56	14 27	5 38	4 59	9 16	7 27	16 31
19	25 26 42	26 31	5 45	4 52	9 44	8 34	18 0
19	26 24 29	8 43	5 53	4 46	10 12	9 41	19 28
20	27 22 17	21 4	6 0	4 39	10 41	10 48	20 54
21	28 20 6	3 38	6 8	4 33	11 9	11 55	22 18
22	29 17 57	16 27	6 15	4 26	11 39	13 2	23 41
23	0 15 49	29 35	6 23	4 20	12 8	14 9	25 2
23	1 13 42	13 4 5	6 30	4 14	12 38	15 15	26 22
25	2 11 37	26 58	6 38	4 8	13 8	16 21	27 40
26	3 9 32	11 17	6 46	4 2	13 39	17 28	28 56
27	4 7 29	25 59	6 53	3 56	14 10	18 34	0 11
28	5 5 28	11 1	7 1	3 50	14 41	19 39	1 23
29	6 3 28	26 13	7 8	3 45	15 13	20 45	2 34
30	7 1 29	11 25	7 16	3 39	15 45	21 50	3 42
31	7 59 32	26 28	7 23	3 34	16 17	22 56	4 48

## SEPTEMBER, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	160 36 46	1 S 38	19 N 51	0 N 33	8 S 54	1 N 35	10 N 13
3	162 22 56	1 38	19 51	0 33	8 56	1 35	10 8
5	164 10 52	1 38	19 51	0 33	8 58	1 35	10 2
7	165 59 6	1 38	19 51	0 33	9 0	1 35	9 57
9	167 47 9	1 38	19 51	0 32	9 3	1 35	9 51
11	169 35 5	1 38	19 51	0 32	9 5	1 36	9 46
13	171 22 53	1 38	19 51	0 32	9 8	1 36	9 40
15	173 10 33	1 38	19 51	0 32	9 10	1 36	9 35
17	174 58 21	1 38	19 51	0 32	9 13	1 36	9 29
19	176 46 4	1 38	19 50	0 32	9 15	1 36	9 24
21	178 33 48	1 39	19 50	0 32	9 18	1 37	9 19
23	180 21 37	1 39	19 50	0 32	9 20	1 37	9 13
25	182 9 32	1 39	19 50	0 32	9 23	1 37	9 8
27	183 57 37	1 39	19 49	0 32	9 25	1 37	9 3
29	185 45 55	1 39	19 49	0 32	9 28	1 37	8 58
31	187 34 27	1 39	19 49	0 32	9 30	1 38	8 53

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Ψ Long.	♁ Long.
1	10 42 24	8 N 13	4 S 42	0 N 6		6 □ 48	24 △ 14
2	10 46 21	7 51	4 6	6 1		6 48	24 17
3	10 50 17	7 29	3 18	11 27		6 49	24 20
4	10 54 14	7 7	2 20	16 10		6 49	24 23
5	10 58 10	6 45	1 17	19 57	☾	6 49	24 26
6	11 2 7	6 22	0 11	22 43		6 49	24 29
7	11 6 4	6 0	0 N 53	24 20		6 49	24 32
8	11 10 0	5 37	1 54	24 48		6 49	24 35
9	11 13 57	5 15	2 49	24 7		6 49	24 39
10	11 17 53	4 52	3 36	22 21	Apogee.	6 49	24 42
11	11 21 50	4 29	4 14	19 38		6 49	24 45
12	11 25 46	4 6	4 42	16 5		6 49	24 48
13	11 29 43	3 43	4 57	11 52	●	6 49	24 51
14	11 33 39	3 20	4 59	7 9		6 49	24 55
15	11 37 36	2 57	4 47	2 6		6 49	24 58
16	11 41 33	2 34	4 21	3 S 6		6 48	25 1
17	11 45 29	2 11	3 43	8 16		6 48	25 5
18	11 49 26	1 47	2 52	13 9		6 48	25 8
19	11 53 22	1 24	1 52	17 33		6 47	25 12
20	11 57 19	1 1	0 45	21 10		6 47	25 15
21	12 1 15	0 37	0 S 26	23 42	☾	6 47	25 18
22	12 5 12	0 14	1 37	24 54		6 46	25 22
23	12 9 8	0 S 9	2 44	24 31		6 46	25 25
24	12 13 5	0 33	3 42	22 31		6 45	25 29
25	12 17 2	0 56	4 27	19 1		6 45	25 32
26	12 20 58	1 20	4 54	14 15	Perigee.	6 44	25 36
27	12 24 55	1 43	5 1	8 37		6 44	25 40
28	12 28 51	2 6	4 48	2 32	●	6 43	25 43
29	12 32 48	2 30	4 16	3 N 37		6 43	25 47
30	12 36 44	2 53	3 29	9 25		6 42	25 50

SEPTEMBER, 1890.

D M	Lat. °	Dec. °	Lat. °	Dec. °	Lat. °	Dec. °	Lat. °	Dec. °
1	0 S 48	20 S 10	2 S 57	25 S 44	1 S 19	10 S 33	2 S 6	4 S 16
3	0 48	20 13	2 56	25 49	1 29	11 30	2 24	5 20
5	0 48	20 15	2 54	25 54	1 40	12 26	2 41	6 20
7	0 48	20 17	2 53	25 58	1 50	13 21	2 58	7 14
9	0 48	20 18	2 51	26 1	2 0	14 15	3 14	8 1
11	0 48	20 20	2 49	26 4	2 10	15 8	3 28	8 41
13	0 48	20 21	2 48	26 6	2 21	15 59	3 40	9 12
15	0 48	20 23	2 46	26 7	2 31	16 50	3 49	9 33
17	0 48	20 24	2 44	26 8	2 42	17 39	3 56	9 41
19	0 48	20 24	2 43	26 8	2 52	18 27	3 57	9 35
21	0 48	20 25	2 41	26 8	3 2	19 13	3 54	9 12
23	0 48	20 26	2 39	26 6	3 12	19 57	3 44	8 33
25	0 48	20 26	2 37	26 4	3 22	20 40	3 26	7 37
27	0 48	20 26	2 35	26 1	3 32	21 21	3 1	6 25
29	0 48	20 26	2 33	25 57	3 41	22 1	2 29	5 2
31	0 48	20 26	2 31	25 55	3 51	23 39	2 4	3 32

D M	☉ Long.	☽ Long.	♁ Long.	♂ Long.	♆ Long.	♀ Long.	♃ Long.
1	8m 57 36	11 11	7m 31	3 29	16 50	24 1	5 53
2	9 55 43	25 28	7 39	3 R 24	17 22	25 6	6 54
3	10 53 51	9 15	7 46	3 19	17 56	26 10	7 54
4	11 52 2	22 32	7 54	3 15	18 29	27 15	8 50
5	12 50 14	5 23	8 1	3 10	19 3	28 19	9 44
6	13 48 29	17 51	8 9	3 6	19 36	29 23	10 35
7	14 46 46	0 2	8 16	3 2	20 11	0m 27	11 22
8	15 45 5	12 1	8 24	2 58	20 45	1 30	12 7
9	16 43 25	23 52	8 32	2 55	21 20	2 34	12 47
10	17 41 48	5 41	8 39	2 51	21 55	3 37	13 24
11	18 40 13	17 31	8 47	2 48	22 30	4 40	13 56
12	19 38 40	29 24	8 54	2 44	23 6	5 43	14 24
13	20 37 8	11m 24	9 2	2 41	23 41	6 45	14 47
14	21 35 39	23 31	9 9	2 38	24 17	7 47	15 4
15	22 34 11	5 47	9 17	2 36	24 54	8 49	15 17
16	23 32 46	18 11	9 24	2 34	25 30	9 51	15 23
17	24 31 22	0m 45	9 31	2 31	26 7	10 52	15 23
18	25 30 0	13 30	9 39	2 29	26 43	11 53	15 R 16
19	26 28 39	26 27	9 46	2 27	27 21	12 53	15 3
20	27 27 21	9 38	9 54	2 26	27 58	13 54	14 42
21	28 26 4	23 6	10 1	2 24	28 35	14 54	14 14
22	29 24 49	6 52	10 8	2 23	29 13	15 53	13 40
23	0 23 35	20 58	10 16	2 22	29 59	16 53	12 57
24	1 22 23	5 24	10 23	2 21	0 59	17 52	12 9
25	2 21 13	20 5	10 30	2 20	1 7	18 50	11 14
26	3 20 5	4 58	10 37	2 20	1 46	19 48	10 14
27	4 18 58	19 54	10 44	2 20	2 24	20 46	9 10
28	5 17 53	4 44	10 52	2 20	3 3	21 43	8 3
29	6 16 51	19 19	10 59	2 D 20	3 42	22 40	6 55
30	7 15 50	3 33	11 6	2 20	4 21	23 36	5 47

## OCTOBER, 1890.

D M	☉		♃		♅		♁	
	R.	A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	187 34 27		1S 39	19N 49	0N 32	9S 31	1N 38	8N 52
3	189 23 19		1 39	19 49	0 32	9 33	1 38	8 47
5	191 12 31		1 39	19 48	0 32	9 36	1 38	8 42
7	193 2 6		1 39	19 48	0 32	9 39	1 39	8 37
9	194 52 7		1 39	19 47	0 32	9 41	1 39	8 32
11	196 42 36		1 39	19 47	0 32	9 44	1 39	8 28
13	198 33 35		1 39	19 47	0 32	9 47	1 40	8 23
15	200 25 16		1 40	19 46	0 32	9 50	1 40	8 18
17	202 17 10		1 40	19 46	0 32	9 52	1 40	8 14
19	204 9 49		1 40	19 45	0 32	9 55	1 41	8 9
21	206 3 5		1 40	19 45	0 32	9 58	1 41	8 5
23	207 57 1		1 40	19 44	0 32	10 1	1 41	8 0
25	209 51 36		1 40	19 44	0 32	10 3	1 42	7 56
27	211 46 54		1 40	19 43	0 32	10 6	1 42	7 52
29	213 42 57		1 40	19 43	0 32	10 9	1 42	7 48
31	215 39 47		1 40	19 42	0 32	10 11	1 43	7 44

D M	Sidereal Time. H. M. S.	☉	♃	♅	♁	Phases.	♃	♅
		Dec.	Lat.	Dec.	Long.		Long.	
1	12 40 41	3S 16	2S 31	14N 36			6 41	25 54
2	12 44 37	3 40	1 26	18 54			6R 40	25 58
3	12 48 34	4 3	0 18	22 8			6 40	26 1
4	12 52 30	4 26	0N 48	24 12			6 39	26 5
☉	12 56 27	4 49	1 51	25 2		☾	6 38	26 9
6	13 0 24	5 12	2 48	24 41		Apogee.	6 37	26 12
7	13 4 20	5 35	3 36	22 12			6 36	26 16
8	13 8 17	5 58	4 16	20 42			6 35	26 20
9	13 12 13	6 21	4 44	17 21			6 35	26 24
10	13 16 10	6 44	5 0	13 16			6 34	26 27
11	13 20 6	7 7	5 3	8 37		●	6 33	26 31
☉	13 24 3	7 29	4 53	3 35			6 32	26 35
13	13 27 59	7 52	4 28	1S 42			6 31	26 39
14	13 31 56	8 14	3 49	7 0			6 29	26 42
15	13 35 53	8 36	2 58	12 6			6 28	26 46
16	13 39 49	8 59	1 57	16 44		☽	6 27	26 50
17	13 43 46	9 21	0 49	20 37			6 26	26 54
18	13 47 42	9 43	0S 23	23 28			6 25	26 57
☉	13 51 39	10 4	1 35	24 59			6 24	27 1
20	13 55 35	10 26	2 43	25 0			6 23	27 5
21	13 59 32	10 47	3 41	23 25			Perigee.	6 21
22	14 3 28	11 9	4 27	20 23		6 20		27 12
23	14 7 25	11 30	4 57	16 4		6 19		27 16
24	14 11 22	11 51	5 8	10 49		6 17		27 20
25	14 15 18	12 1	5 0	4 58		6 16		27 24
☉	14 19 15	12 32	4 33	1N 8		☺	6 15	27 28
27	14 23 11	12 52	3 49	7 6			6 13	27 31
28	14 27 8	13 13	2 52	12 37			6 12	27 35
29	14 31 4	13 32	1 46	17 23			6 11	27 39
30	14 35 1	13 52	0 36	21 9			6 9	27 43
31	14 38 57	14 12	0N 34	23 44			6 8	27 46

OCTOBER, 1890.

D M	♌ Lat., Dec.	♍ Lat., Dec.	♎ Lat., Dec.	♏ Lat., Dec.	♐ Lat., Dec.	♑ Lat., Dec.	♒ Lat., Dec.
1	0S48	20S26	2S31	25S53	3S51	22S38	1S51
3	0 48	20 25	2 29	25 47	4 0	23 14	1 11
5	0 48	20 25	2 27	25 41	4 9	23 48	0 30
7	0 48	20 24	2 25	25 34	4 17	24 20	0N 8
9	0 48	20 23	2 23	25 26	4 25	24 50	0 41
11	0 47	20 22	2 21	25 17	4 33	25 17	1 9
13	0 47	20 20	2 19	25 7	4 40	25 43	1 31
15	0 47	20 19	2 17	24 56	4 47	26 7	1 47
17	0 47	20 17	2 15	24 45	4 53	26 28	1 57
19	0 47	20 15	2 13	24 32	4 58	26 48	2 2
21	0 47	20 13	2 10	24 19	5 3	27 5	2 4
23	0 47	20 11	2 8	24 4	5 7	27 20	2 1
25	0 47	20 8	2 6	23 49	5 10	27 32	1 57
27	0 47	20 6	2 4	23 33	5 12	27 43	1 49
29	0 47	20 3	2 1	23 16	5 13	27 51	1 40
31	0 47	20 0	1 59	22 58	5 12	27 57	1 30

D M	♈ Long.	♉ Long.	♊ Long.	♋ Long.	♌ Long.	♍ Long.	♎ Long.
1	8 <sup>△</sup> 14 52	17 <sup>△</sup> 21	11 <sup>▽</sup> 13	2 <sup>△</sup> 21	5 <sup>▽</sup> 1	24 <sup>▽</sup> 32	4 <sup>△</sup> 41
2	9 13 56	0 <sup>▽</sup> 41	11 20	2 21	5 40	25 27	3 <sup>△</sup> 40
3	10 13 2	13 35	11 27	2 22	6 20	26 22	2 45
4	11 12 10	26 6	11 34	2 23	6 59	27 16	1 57
5	12 11 21	8 <sup>▽</sup> 19	11 41	2 25	7 39	28 10	1 17
6	13 10 34	20 20	11 48	2 26	8 19	29 3	0 47
7	14 9 50	2 <sup>▽</sup> 12	11 54	2 28	9 0	29 55	0 28
8	15 9 8	14 2	12 1	2 30	9 40	0 <sup>+</sup> 47	0 20
9	16 8 27	25 54	12 8	2 32	10 21	1 38	0 <sup>△</sup> 22
10	17 7 50	7 <sup>▽</sup> 52	13 15	2 34	11 1	2 29	0 35
11	18 7 14	19 58	12 21	2 36	11 42	3 19	0 58
12	19 6 41	2 <sup>△</sup> 15	12 28	2 39	12 23	4 8	1 31
13	20 6 9	14 44	12 34	2 42	13 4	4 56	2 13
14	21 5 40	27 25	12 41	2 45	13 45	5 44	3 3
15	22 5 13	10 <sup>▽</sup> 18	12 47	2 48	14 26	6 31	4 1
16	23 4 48	23 22	12 54	3 51	15 8	7 16	5 6
17	24 4 24	6 <sup>+</sup> 38	13 0	2 55	15 49	8 1	6 16
18	25 4 3	20 4	13 6	2 59	16 31	8 45	7 32
19	26 3 43	3 <sup>▽</sup> 42	13 13	3 3	17 13	9 29	8 53
20	27 3 25	17 31	13 19	3 7	17 55	10 11	10 17
21	28 3 9	1 <sup>▽</sup> 33	13 25	3 10	18 37	10 52	11 44
22	29 2 54	15 45	13 31	3 16	19 19	11 32	13 14
23	0 <sup>▽</sup> 2 41	0 <sup>+</sup> 7	13 37	3 21	20 1	12 10	14 46
24	1 2 29	14 35	13 43	3 25	20 43	12 48	16 20
25	2 2 20	29 4	13 49	3 30	21 26	13 24	17 56
26	3 2 12	13 <sup>▽</sup> 28	13 55	3 36	22 8	13 59	19 33
27	4 2 6	27 41	14 1	3 41	22 51	14 33	21 10
28	5 2 1	11 <sup>+</sup> 38	14 6	3 47	23 34	15 5	22 48
29	6 1 59	25 15	14 12	3 52	24 16	15 36	24 27
30	7 1 59	8 <sup>▽</sup> 30	14 18	3 58	24 59	16 5	26 6
31	8 2 1	21 23	14 23	4 4	25 42	16 33	27 45

NOVEMBER, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	h	Dec.
1	216 38 29	1 S 40	19 N 42	0 N 32	10 S 13	1 N 43	7 N 42		
3	218 36 32	1 40	19 41	0 32	10 15	1 43	7 38		
5	220 35 24	1 40	19 41	0 32	10 18	1 44	7 35		
7	222 35 7	1 40	19 40	0 32	10 21	1 44	7 31		
9	224 35 41	1 40	19 40	0 32	10 23	1 45	7 28		
11	226 37 7	1 40	19 39	0 32	10 26	1 45	7 24		
13	228 39 25	1 40	19 39	0 32	10 28	1 46	7 21		
15	230 42 33	1 40	19 38	0 32	10 31	1 46	7 18		
17	232 46 31	1 40	19 37	0 32	10 33	1 46	7 15		
19	234 51 17	1 40	19 37	0 32	10 36	1 47	7 13		
21	236 57 52	1 40	19 36	0 32	10 38	1 47	7 10		
23	239 3 13	1 40	19 36	0 32	10 41	1 48	7 8		
25	241 10 20	1 40	19 35	0 32	10 43	1 48	7 6		
27	243 18 12	1 40	19 34	0 32	10 45	1 49	7 3		
29	245 26 47	1 40	19 34	0 32	10 47	1 49	7 1		
31	247 36 3	1 40	19 33	0 32	10 49	1 49	6 58		

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	14 42 54	14 S 31	1 N 41	25 N 4		6 N 6	27 50
2	14 46 51	14 50	2 41	25 8		6 R 5	27 54
3	14 50 47	15 9	3 34	24 1		6 3	27 57
4	14 54 44	15 27	4 16	21 49		6 2	28 1
5	14 58 40	15 46	4 47	18 43	Apogee.	6 0	28 5
6	15 2 37	16 4	5 7	14 51		5 59	28 9
7	15 6 33	16 22	5 12	10 22		5 57	28 12
8	15 10 30	16 39	5 5	5 26		5 56	28 16
9	15 14 26	16 56	4 42	0 12		5 54	28 19
10	15 18 23	17 13	4 6	5 S 10		5 52	28 23
11	15 22 20	17 30	3 17	10 27		5 51	28 27
12	15 26 16	17 46	2 15	15 22	☉	5 49	28 30
13	15 30 13	18 3	1 6	19 39		5 48	28 34
14	15 34 9	18 18	0 S 9	22 55		5 46	28 37
15	15 38 6	18 34	1 25	24 52		5 44	28 41
16	15 42 2	18 49	2 36	25 16		5 43	28 44
17	15 45 59	19 4	3 38	24 3		5 41	28 48
18	15 49 55	19 18	4 27	21 19	Perigee.	5 39	28 51
19	15 53 52	19 32	4 0	17 18	☾	5 38	28 55
20	15 57 49	19 46	5 15	12 20		5 36	28 58
21	16 1 45	19 59	5 11	6 43		5 34	29 2
22	16 5 42	20 12	5 48	0 48		5 33	29 5
23	16 9 38	20 25	4 8	5 N 6		5 31	29 8
24	16 13 35	20 37	4 15	10 42		5 29	29 12
25	16 17 31	20 49	3 11	15 43		5 28	29 15
26	16 21 28	21 0	2 1	19 52	☽	5 26	29 18
27	16 25 24	21 11	1 10	21 57		5 24	29 22
28	16 29 21	21 22	0 N 20	24 47		5 22	29 25
29	16 33 18	21 32	1 24	25 20		5 21	29 28
30	16 37 14	21 42	2 21	24 37		5 19	29 31

NOVEMBER, 1890.

D M	♄		♃		♂		♆		♁	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0 S 46	19 S 59	1 S 58	22 S 49	5 S 12	27 S 59	1 N 24	9 S 57		
3	0 46	19 56	1 56	22 30	5 10	28 2	1 12	11 16		
5	0 46	19 52	1 54	22 10	5 6	28 2	1 0	12 35		
7	0 46	19 49	1 51	21 49	5 1	27 59	0 47	13 51		
9	0 46	19 45	1 49	21 27	4 54	27 54	0 33	15 4		
11	0 46	19 41	1 47	21 5	4 45	27 47	0 20	16 14		
13	0 46	19 37	1 44	20 41	4 34	27 37	0 6	17 22		
15	0 46	19 33	1 42	20 17	4 21	27 23	0 S 7	18 26		
17	0 46	19 29	1 40	29 52	4 6	27 7	0 20	19 26		
19	0 46	19 24	1 37	29 27	3 49	26 48	0 33	20 23		
21	0 46	19 19	1 35	29 0	3 29	26 25	0 46	21 15		
23	0 46	19 15	1 33	28 33	3 6	25 59	0 58	22 3		
25	0 45	19 10	1 30	28 6	2 42	25 29	1 10	22 47		
27	0 45	19 4	1 28	27 37	2 15	24 57	1 21	23 27		
29	0 45	18 59	1 26	27 8	1 47	24 21	1 31	24 1		
31	0 45	18 53	1 23	26 39	1 10	23 55	1 41	26 30		

D M	♄ Long.	♃ Long.	♂ Long.	♆ Long.	♂ Long.	♀ Long.	♁ Long.
1	9 <sup>m</sup> 2 5	3 <sup>56</sup>	14 <sup>m</sup> 28	4 <sup>m</sup> 11	26 <sup>v</sup> 25	16 <sup>†</sup> 59	29 <sup>^</sup> 24
3	10 2 11	16 11	14 34	4 17	27 8	17 23	1 <sup>m</sup> 3
4	11 2 19	28 14	14 39	4 24	27 51	17 45	2 42
5	12 2 29	10 <sup>Ω</sup> 8	14 44	4 30	28 35	18 6	4 21
6	13 2 41	22 0	14 50	4 37	29 18	18 25	5 59
7	14 2 55	3 <sup>m</sup> 53	14 55	4 44	0 <sup>m</sup> 1	18 42	7 37
8	15 3 11	15 53	15 0	4 51	0 45	18 57	9 15
9	16 3 30	28 3	15 5	4 59	1 28	19 10	10 53
10	17 3 50	10 <sup>^</sup> 27	15 9	5 6	2 12	19 20	12 31
11	18 4 12	23 6	15 14	5 14	2 56	19 29	14 8
12	19 4 35	6 <sup>m</sup> 2	15 19	5 22	3 39	19 35	15 45
13	20 5 1	19 15	15 23	5 30	4 23	19 39	17 21
14	21 5 28	2 <sup>†</sup> 43	15 28	5 38	5 7	19 41	18 58
15	22 5 57	16 24	15 32	5 46	5 51	19 <sup>R</sup> 40	20 34
16	23 6 27	0 <sup>Ω</sup> 17	15 37	5 54	6 35	19 37	22 9
17	24 6 59	14 17	15 41	6 3	7 19	19 31	23 45
18	25 7 32	28 23	15 45	6 12	8 3	19 23	25 20
19	26 8 6	12 <sup>m</sup> 33	15 49	6 20	8 47	19 13	26 55
20	27 8 42	26 45	15 53	6 29	9 31	19 0	28 30
21	28 9 18	10 <sup>x</sup> 55	15 57	6 38	10 15	18 44	0 <sup>†</sup> 4
22	29 9 56	25 3	16 1	6 48	11 0	18 26	1 39
23	0 <sup>†</sup> 10 35	9 <sup>†</sup> 5	16 5	6 57	11 44	18 6	3 13
24	1 11 14	23 0	16 8	7 6	12 28	17 44	4 47
25	2 11 55	6 <sup>Ω</sup> 44	16 12	7 16	13 13	17 19	6 21
26	3 12 38	20 16	16 15	7 26	13 57	16 52	7 55
27	4 13 21	3 <sup>Π</sup> 32	16 19	7 35	14 42	16 24	9 28
28	5 14 6	16 32	16 22	7 45	15 26	15 54	11 2
29	6 14 52	29 16	16 25	7 55	16 11	15 22	12 35
30	7 15 40	11 <sup>Ω</sup> 44	16 28	8 6	16 55	14 49	14 9
31	8 16 29	23 58	16 31	8 16	17 40	14 14	15 42

## DECEMBER, 1890.

D M	R. A.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	241 36 3	1 S 40	19 N 33	0 N 32	10 S 50	1 N 50	7 N 0
3	249 45 56	1 40	19 33	0 32	10 52	1 50	6 58
5	251 56 31	1 40	19 32	0 32	10 54	1 51	6 57
7	254 7 36	1 40	19 32	0 32	10 56	1 51	6 55
9	256 19 13	1 40	19 31	0 32	10 58	1 52	6 54
11	258 31 16	1 40	19 30	0 32	11 0	1 53	6 53
13	260 43 41	1 40	19 30	0 32	11 2	1 53	6 52
15	262 56 25	1 40	19 29	0 32	11 4	1 54	6 52
17	265 9 29	1 40	19 29	0 32	11 5	1 54	6 51
19	267 22 31	1 40	19 28	0 32	11 7	1 55	6 51
21	269 35 43	1 40	19 28	0 32	11 9	1 55	6 51
23	271 48 57	1 40	19 27	0 32	11 10	1 56	6 51
25	274 2 9	1 40	19 27	0 32	11 12	1 56	6 51
27	276 15 15	1 40	19 26	0 32	11 13	1 57	6 51
29	278 28 11	1 40	19 26	0 32	11 15	1 57	6 52
31	280 40 54	1 39	19 26	0 32	11 16	1 58	6 53

D M	Sidereal Time. H. M. S.	Dec.	Lat.	Dec.	Phases.	Long.	Long.
1	16 41 11	21 S 51	4 N 8	22 N 47		5 17	29 34
2	16 45 7	22 0	4 43	19 57	Apogee.	5 R 16	29 37
3	16 49 4	22 9	5 7	16 20		5 14	29 40
4	16 53 0	22 17	5 17	12 4	☾	5 12	29 43
5	16 56 57	22 25	5 13	7 19		5 11	29 46
6	17 0 53	22 32	4 56	2 13		5 9	29 49
7	17 4 50	22 39	4 25	3 S 4		5 7	29 52
8	17 9 47	22 46	3 40	8 22		5 6	29 55
9	17 12 43	22 51	2 42	13 28		5 4	29 58
10	17 16 40	22 57	1 35	18 4		5 2	0 1
11	17 20 36	23 2	0 19	21 49	☉	5 1	0 4
12	17 24 33	23 7	0 S 58	24 21		4 59	0 7
13	17 28 29	23 11	2 14	25 20		4 57	0 9
14	17 32 26	23 15	3 22	24 36	Perigee.	4 56	0 12
15	17 36 23	23 18	4 17	22 13		4 54	0 15
16	17 40 19	23 20	4 55	18 24		4 53	0 17
17	17 44 16	23 23	5 14	13 33		4 51	0 20
18	17 48 12	23 25	5 14	8 1	☾	4 49	0 22
19	17 52 9	23 26	4 55	2 10		4 48	0 25
20	17 56 5	23 27	4 19	3 N 42		4 46	0 27
21	18 0 2	23 27	3 30	9 18		4 45	0 29
22	18 3 58	23 27	2 30	14 23		4 43	0 32
23	18 7 55	23 27	1 23	18 44		4 42	0 34
24	18 11 52	23 26	0 13	22 6		4 40	0 36
25	18 15 48	23 24	0 N 57	24 19	☉	4 39	0 39
26	18 19 45	23 22	3 3	25 17		4 38	0 41
27	18 23 41	23 20	3 2	24 58		4 36	0 43
28	18 27 38	23 17	3 52	23 29		4 35	0 45
29	18 31 34	23 14	4 31	20 56		4 33	0 47
30	18 35 31	23 10	4 57	17 32	Apogee.	4 32	0 49
31	18 39 27	23 5	5 11	13 27		4 31	0 51

DECEMBER, 1890.

D M	♄		♃		♂		♆		♁	
	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.	Lat.	Dec.
1	0S45	18S54	1S23	16S39	1S17	23S44	1S41	24S31		
3	0 45	18 48	1 21	16 9	0 46	23 4	1 50	24 55		
5	0 45	18 42	1 19	15 38	0 15	22 23	1 57	25 15		
7	0 45	18 36	1 17	15 6	0N16	21 42	2 4	25 28		
9	0 45	18 30	1 14	14 35	0 47	21 2	2 9	25 36		
11	0 45	18 24	1 12	14 2	1 16	20 23	2 13	25 39		
13	0 45	18 18	1 10	13 39	1 44	19 46	2 15	25 35		
15	0 45	18 11	1 7	12 56	2 11	19 12	2 16	25 25		
17	0 45	18 5	1 5	12 23	2 35	18 41	2 14	25 9		
19	0 45	17 58	1 3	11 48	2 57	18 14	2 10	24 48		
21	0 45	17 51	1 1	11 14	3 17	17 50	2 4	24 20		
23	0 45	17 44	0 59	10 39	3 35	17 31	1 54	23 47		
25	0 45	17 37	0 56	10 4	3 51	17 15	1 41	23 10		
27	0 45	17 30	0 54	9 29	4 4	17 3	1 25	22 29		
29	0 45	17 22	0 52	8 53	4 16	16 55	1 4	21 45		
31	0 45	17 15	0 50	8 17	4 26	16 51	0 39	21 1		

D M	♄	♃	♂	♆	♂	♀	♁
	Long.	Long.	Long.	Long.	Long.	Long.	Long.
1	9 † 17 19	6 ♀ 1	16 ♀ 34	8 ♀ 26	18 ♀ 24	13 † 39	17 † 15
2	10 18 11	17 56	16 37	8 37	19 9	13R 3	18 48
3	11 19 4	29 48	16 29	8 48	19 54	12 27	20 22
4	12 19 58	11 ♀ 41	16 42	8 58	20 38	11 50	21 55
5	13 20 53	23 50	16 44	9 9	21 23	11 14	23 28
6	14 21 50	5 ~ 49	16 47	9 20	22 7	10 38	25 1
♄	15 22 48	18 13	16 49	9 31	22 52	10 2	26 34
8	16 23 47	0 ♀ 56	16 51	9 42	23 37	9 28	28 6
9	17 24 47	14 0	16 53	9 54	24 22	8 54	29 39
10	18 25 49	27 25	16 55	10 5	25 7	8 22	1 ♀ 12
11	19 26 51	11 † 12	16 57	10 16	25 52	7 51	2 44
12	20 27 54	25 19	16 59	10 28	26 36	7 22	4 16
13	21 28 58	9 ♀ 40	16 0	10 40	27 21	6 55	5 48
♄	22 30 3	24 10	17 2	10 51	28 6	6 30	7 20
15	23 31 8	8 ♀ 44	17 3	11 3	28 51	6 6	8 51
16	24 32 13	23 16	17 4	11 15	29 36	5 45	10 21
17	25 33 19	7 ♀ 40	17 6	11 27	0 ♀ 21	5 26	11 51
18	26 34 25	21 54	17 7	11 39	1 6	5 10	13 20
19	27 35 31	5 ♀ 54	17 8	11 51	1 51	4 56	14 47
20	28 36 37	19 40	17 8	12 4	2 36	4 45	16 14
♄	29 37 44	3 ♀ 12	17 9	12 16	3 21	4 36	17 39
22	0 ♀ 38 51	16 30	17 10	12 28	4 5	4 29	19 2
23	1 39 58	29 35	17 10	12 41	4 50	4 25	20 24
24	2 41 5	12 ♀ 27	17 11	12 53	5 35	4 23	21 42
25	3 42 13	25 7	17 11	13 6	6 20	4 ♀ 24	22 58
26	4 43 20	7 ♀ 36	17 11	13 19	7 5	4 27	24 10
♄	5 44 28	19 54	17 11	13 31	7 50	4 33	25 19
27	6 45 37	2 ♀ 2	17R 11	13 44	8 35	4 41	26 22
29	7 46 45	14 2	17 11	13 57	9 20	4 51	27 20
30	8 47 54	25 57	17 11	14 10	10 5	5 4	28 12
31	9 49 3	7 ♀ 48	17 10	14 23	10 50	5 18	28 57

CONSTANT LOG'S TO FIND PLANETS' LONG'S.

HOURS SAME AS DEGREES.

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0	4 0000	1 3802	1 0792	9031	7781	6812	6031	5351	4771	4260	3802
1	3 1584	1 3730	1 0756	9007	7763	6798	6009	5341	4762	4252	3795
2	2 8573	1 3660	1 0720	8983	7745	6784	5997	5330	4753	4244	3788
3	2 6812	1 3590	1 0685	8959	7728	6769	5985	5320	4744	4236	3780
4	2 5563	1 3522	1 0649	8935	7710	6755	5973	5310	4735	4228	3773
5	2 4594	1 3454	1 0614	8912	7692	6741	5961	5300	4726	4220	3766
6	2 3802	1 3388	1 0580	8888	7674	6726	5949	5289	4717	4212	3759
7	2 3133	1 3323	1 0546	8865	7657	6712	5937	5279	4708	4204	3752
8	2 2553	1 3258	1 0511	8842	7639	6698	5925	5269	4699	4196	3745
9	2 2041	1 3195	1 0478	8819	7622	6684	5913	5259	4690	4188	3737
10	2 1584	1 3133	1 0444	8796	7604	6670	5902	5249	4682	4180	3730
11	2 1170	1 3071	1 0411	8773	7587	6656	5890	5239	4673	4172	3723
12	2 0792	1 3010	1 0378	8751	7570	6642	5878	5229	4664	4164	3716
13	2 0444	1 2950	1 0345	8728	7552	6628	5866	5219	4655	4156	3709
14	2 0122	1 2891	1 0313	8706	7535	6614	5855	5209	4646	4148	3702
15	1 9823	1 2833	1 0280	8683	7518	6600	5843	5199	4638	4141	3695
16	1 9542	1 2775	1 0248	8661	7501	6587	5832	5189	4629	4133	3688
17	1 9279	1 2719	1 0216	8639	7484	6573	5820	5179	4620	4125	3681
18	1 9031	1 2663	1 0185	8617	7467	6559	5809	5169	4611	4117	3674
19	1 8796	1 2607	1 0153	8595	7451	6546	5797	5159	4603	4109	3667
20	1 8573	1 2553	1 0122	8573	7434	6532	5786	5149	4594	4102	3660
21	1 8361	1 2499	1 0091	8552	7417	6519	5774	5139	4585	4094	3653
22	1 8159	1 2445	1 0061	8530	7401	6505	5763	5129	4577	4086	3646
23	1 7966	1 2393	1 0030	8509	7384	6492	5752	5120	4568	4079	3639
24	1 7781	1 2341	1 0000	8487	7368	6478	5740	5110	4559	4071	3632
25	1 7604	1 2289	0 9970	8466	7351	6465	5729	5100	4551	4063	3625
26	1 7434	1 2239	0 9940	8445	7335	6451	5718	5090	4542	4055	3618
27	1 7270	1 2188	0 9910	8424	7318	6438	5706	5081	4534	4048	3611
28	1 7112	1 2139	0 9881	8403	7302	6425	5695	5071	4525	4040	3604
29	1 6960	1 2090	0 9852	8382	7286	6412	5684	5061	4516	4032	3597
30	1 6812	1 2041	0 9823	8351	7270	6398	5673	5051	4508	4025	3590
31	1 6670	1 1993	0 9794	8341	7254	6385	5662	5042	4499	4017	3583
32	1 6532	1 1946	0 9765	8320	7238	6372	5651	5032	4491	4010	3576
33	1 6398	1 1899	0 9737	8299	7222	6359	5640	5023	4482	4002	3570
34	1 6269	1 1852	0 9708	8279	7206	6346	5629	5013	4474	3994	3563
35	1 6143	1 1806	0 9680	8259	7190	6333	5618	5003	4466	3987	3556
36	1 6021	1 1761	0 9652	8239	7174	6320	5607	4994	4457	3979	3549
37	1 5902	1 1716	0 9625	8219	7159	6307	5596	4984	4449	3972	3542
38	1 5786	1 1671	0 9597	8199	7143	6294	5585	4975	4440	3964	3535
39	1 5673	1 1627	0 9570	8179	7128	6282	5574	4965	4432	3957	3529
40	1 5563	1 1584	0 9542	8159	7112	6269	5563	4956	4424	3949	3522
41	1 5456	1 1540	0 9515	8139	7097	6256	5552	4947	4415	3942	3515
42	1 5351	1 1498	0 9488	8120	7081	6243	5541	4937	4407	3934	3508
43	1 5249	1 1455	0 9462	8101	7066	6231	5531	4928	4399	3927	3501
44	1 5149	1 1413	0 9435	8081	7050	6218	5520	4918	4390	3919	3495
45	1 5051	1 1372	0 9409	8062	7035	6205	5509	4909	4382	3912	3488
46	1 4956	1 1331	0 9383	8043	7020	6193	5498	4900	4374	3905	3481
47	1 4863	1 1290	0 9356	8023	7005	6180	5488	4890	4365	3897	3474
48	1 4771	1 1249	0 9330	8004	6990	6168	5477	4881	4357	3890	3468
49	1 4682	1 1209	0 9305	7985	6975	6155	5466	4872	4349	3882	3461
50	1 4594	1 1170	0 9279	7966	6960	6143	5456	4863	4341	3875	3454
51	1 4508	1 1130	0 9254	7947	6945	6131	5445	4853	4333	3868	3448
52	1 4424	1 1091	0 9228	7929	6930	6118	5435	4844	4324	3860	3441
53	1 4341	1 1053	0 9203	7910	6915	6106	5424	4835	4316	3853	3434
54	1 4260	1 1015	0 9178	7891	6900	6094	5414	4826	4308	3846	3428
55	1 4180	1 0977	0 9153	7873	6885	6081	5403	4817	4300	3838	3421
56	1 4102	1 0938	0 9128	7854	6871	6069	5393	4808	4292	3831	3414
57	1 4025	1 0900	0 9104	7836	6856	6057	5382	4798	4284	3824	3408
58	1 3949	1 0865	0 9079	7818	6841	6045	5372	4789	4276	3817	3401
59	1 3875	1 0828	0 9055	7800	6827	6033	5361	4780	4268	3809	3395

# CONSTANT LOG'S TO FIND PLANETS' LONG'S.

HOURS SAME AS DEGREES.

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°
0	3388	3010	2663	2341	2041	1761	1497	1249	1014	0791	0580	0377
1	3382	3004	2657	2336	2036	1756	1493	1245	1010	0788	0576	0374
2	3375	2998	2652	2330	2032	1752	1489	1241	1007	0784	0573	0371
3	3368	2992	2646	2325	2027	1747	1484	1237	1003	0781	0569	0368
4	3362	2986	2640	2320	2022	1743	1480	1233	0999	0777	0566	0364
5	3355	2980	2635	2315	2017	1738	1476	1229	0995	0773	0562	0361
6	3349	2974	2629	2310	2012	1734	1472	1225	0991	0770	0559	0358
7	3342	2968	2624	2305	2008	1729	1468	1221	0988	0766	0555	0355
8	3336	2962	2618	2300	2003	1725	1463	1217	0984	0763	0552	0351
9	3329	2956	2613	2295	1998	1720	1459	1213	0980	0759	0549	0348
10	3323	2950	2607	2289	1993	1716	1455	1209	0976	0755	0545	0345
11	3316	2944	2602	2284	1988	1711	1451	1205	0972	0752	0542	0341
12	3310	2938	2596	2279	1984	1707	1446	1201	0969	0748	0538	0338
13	3303	2933	2591	2274	1979	1702	1442	1197	0965	0745	0535	0335
14	3297	2927	2585	2269	1974	1698	1438	1193	0961	0741	0532	0332
15	3291	2921	2580	2264	1969	1694	1434	1189	0957	0737	0528	0328
16	3284	2915	2574	2259	1965	1689	1430	1185	0954	0734	0525	0325
17	3278	2909	2569	2254	1960	1685	1425	1181	0950	0730	0521	0322
18	3271	2903	2564	2249	1955	1680	1421	1177	0946	0727	0518	0319
19	3265	2897	2558	2244	1950	1676	1417	1173	0942	0723	0515	0315
20	3258	2891	2553	2239	1946	1671	1413	1169	0939	0720	0511	0312
21	3252	2885	2547	2234	1941	1667	1409	1165	0935	0716	0508	0309
22	3246	2880	2542	2229	1936	1662	1405	1161	0931	0713	0504	0306
23	3239	2874	2536	2223	1932	1658	1400	1157	0927	0709	0501	0302
24	3233	2868	2531	2218	1927	1654	1396	1154	0924	0705	0498	0299
25	3227	2862	2526	2213	1922	1649	1392	1150	0920	0702	0494	0296
26	3220	2856	2520	2208	1917	1645	1388	1146	0916	0698	0491	0293
27	3214	2850	2515	2203	1913	1640	1384	1142	0913	0695	0487	0290
28	3208	2845	2509	2198	1908	1636	1380	1138	0909	0691	0484	0286
29	3201	2839	2504	2193	1903	1632	1375	1134	0905	0688	0481	0283
30	3195	2833	2499	2188	1899	1627	1371	1130	0901	0684	0477	0280
31	3189	2827	2493	2183	1894	1623	1366	1126	0898	0681	0474	0277
32	3183	2821	2488	2178	1889	1618	1363	1122	0894	0677	0471	0273
33	3176	2816	2483	2173	1885	1614	1359	1118	0890	0674	0467	0270
34	3170	2810	2477	2168	1880	1610	1355	1114	0887	0670	0464	0267
35	3164	2804	2472	2164	1875	1605	1351	1110	0883	0667	0461	0264
36	3157	2798	2467	2159	1871	1601	1347	1107	0879	0663	0457	0261
37	3151	2793	2461	2154	1866	1597	1342	1103	0875	0660	0454	0257
38	3145	2787	2456	2149	1862	1592	1338	1099	0872	0656	0451	0254
39	3139	2781	2451	2144	1857	1588	1334	1095	0868	0653	0447	0251
40	3133	2775	2445	2139	1852	1584	1330	1091	0864	0649	0444	0248
41	3126	2770	2440	2134	1848	1579	1326	1087	0861	0646	0441	0245
42	3120	2764	2435	2129	1843	1575	1322	1083	0857	0642	0437	0241
43	3114	2758	2430	2124	1838	1571	1318	1079	0853	0639	0434	0238
44	3108	2753	2424	2119	1834	1566	1314	1076	0850	0635	0431	0235
45	3102	2747	2419	2114	1829	1562	1310	1072	0846	0632	0427	0232
46	3096	2741	2414	2109	1825	1558	1306	1068	0842	0628	0424	0229
47	3089	2736	2409	2104	1820	1553	1302	1064	0839	0625	0421	0226
48	3083	2730	2403	2099	1816	1549	1298	1060	0835	0621	0417	0222
49	3077	2724	2398	2095	1811	1545	1293	1056	0831	0618	0414	0219
50	3071	2719	2393	2090	1806	1540	1289	1052	0828	0614	0411	0216
51	3065	2713	2388	2085	1802	1536	1285	1049	0824	0611	0407	0213
52	3059	2707	2382	2080	1797	1532	1281	1045	0820	0607	0404	0210
53	3053	2702	2377	2075	1793	1527	1276	1041	0817	0604	0401	0207
54	3047	2696	2372	2070	1788	1523	1273	1037	0813	0600	0397	0203
55	3041	2691	2367	2065	1784	1519	1269	1033	0810	0597	0394	0200
56	3034	2685	2362	2061	1779	1515	1265	1029	0806	0593	0391	0197
57	3028	2679	2356	2056	1774	1510	1261	1026	0802	0590	0387	0194
58	3022	2674	2351	2057	1770	1506	1257	1022	0799	0586	0384	0191
59	3016	2668	2346	2046	1765	1502	1253	1018	0795	0583	0381	0188

TABLES OF HOUSES FOR ST. LOUIS, MO. LAT. 38° 37' N.

Sid'l Time	Right Asc'n.	10°	11°	12°	Asc'dt.	2°	3°	Sid'l Time	Right Asc'n.	11°	12°	Asc'dt.	2°	3°	
H. K.		†	‡	§	¶	⌘	♁	H. M.		¶	⌘	♁	♂	♄	
15 55	238 51	1	23	15	12	8	28	5	20 13	303 14	1	28	5	20	40 17 9
15 59	239 53	2	24	16	13	32	¶	6	20 17	304 16	2	39	7	22	0 18 10
16 4	240 56	3	25	17	14	56	1	8	20 21	305 18	3	⌘	8	23	19 19 11
16 8	241 50	4	26	18	16	21	3	9	20 25	306 20	4	1	9	24	38 20 12
16 12	243 3	5	27	19	17	46	4	10	20 29	307 22	5	3	10	25	55 21 13
16 16	244 6	6	28	20	19	12	6	11	20 34	308 24	6	4	12	27	11 22 14
16 21	245 9	7	28	21	20	40	7	12	20 38	309 25	7	5	14	28	25 23 14
16 25	246 13	8	29	22	22	11	9	13	20 42	310 26	8	6	16	29	38 24 15
16 29	247 17	9	29	23	23	44	10	14	20 46	311 27	9	7	17	0	II 50 25 16
16 33	248 21	10	1	24	25	18	12	16	20 50	312 28	10	9	18	2	0 26 17
16 38	249 25	11	2	25	26	53	13	17	20 54	313 28	11	10	19	3	10 27 18
16 42	250 29	12	3	27	28	29	15	18	20 58	314 29	12	11	20	4	20 28 19
16 46	251 34	13	4	28	0	⌘	7	16	21 2	315 29	13	12	21	5	29 29 20
16 51	252 38	14	5	29	1	46	18	20	21 6	316 29	14	14	23	6	37 20 21
16 55	253 43	15	6	30	3	27	19	21	21 10	317 29	15	15	24	7	44 1 22
16 59	254 47	16	8	1	5	8	21	23	21 14	318 29	16	16	26	8	50 2 23
17 3	255 52	17	9	3	6	50	22	24	21 18	319 28	17	17	27	9	55 3 23
17 8	256 57	18	10	4	8	34	24	25	21 22	320 27	18	18	28	10	59 3 24
17 12	258 2	19	11	5	10	19	25	26	21 26	321 27	19	20	8	12	2 4 25
17 16	259 7	20	12	6	12	4	27	27	21 30	322 26	20	21	1	13	4 5 26
17 21	260 12	21	13	7	13	50	28	28	21 34	323 25	21	22	2	14	6 6 27
17 25	261 17	22	14	9	15	36	8	29	21 37	324 23	22	23	3	15	7 7 28
17 29	262 22	23	15	10	17	23	1	30	21 41	325 22	23	24	5	16	7 8 29
17 34	263 28	24	16	11	19	10	3	1	21 45	326 20	24	26	6	17	7 9 30
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17 47	266 44	27	19	15	24	33	7	5	21 57	329 14	27	29	10	20	2 12 3
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PRESIDENTS OF THE UNITED STATES.

No.	NAMES.	Born.	Inaugerated.	Term of Office.	Died.	Native of	Party.
1	GEORGE WASHINGTON.	Feb. 22, 1732	April 30, 1789	8 years.	Dec. 14, 1799	Virginia	Federal.
2	JOHN ADAMS.	Oct. 30, 1735	March 4, 1797	"	July 4, 1826	Mass.	"
3	THOMAS JEFFERSON.	April 2, 1743	" 4, 1801	"	" 4, 1826	Virginia	Republican.
4	JAMES MADISON.	March 16, 1751	" 4, 1809	"	June 28, 1837	"	"
5	JAMES MONROE.	April 28, 1759	" 4, 1817	"	July 4, 1831	"	"
6	JOHN QUINCY ADAMS.	July 11, 1767	" 4, 1825	"	Feb. 23, 1818	Mass.	Coalition.
7	ANDREW JACKSON.	March 15, 1767	" 4, 1829	"	June 8, 1845	S. Carolina	Democrat.
8	MARTIN VAN BUREN.	Dec. 5, 1782	" 4, 1837	"	July 24, 1862	New York	"
9	W. M. H. HARRISON.	Feb. 9, 1773	" 4, 1841	1 month.	April 4, 1841	Virginia	Whig.
10	JOHN TYLER.	March 29, 1790	April 6, 1841	3 years, 11 months.	Jan. 17, 1862	"	"
11	JAMES K. POLK.	Nov. 2, 1795	March 4, 1845	4 years.	June 15, 1849	N. Carolina	Democrat.
12	ZACHARY TAYLOR.	Nov. 24, 1784	" 4, 1849	1 year, 4 months.	July 9, 1850	Virginia	Whig.
13	MILLARD FILLMORE.	Jan. 7, 1800	July 9, 1850	2 years, 8 months.	March 8, 1874	New York	"
14	FRANKLIN PIERCE.	Nov. 23, 1804	March 4, 1853	4 years.	Oct. 8, 1869	New Hamp.	Democrat.
15	JAMES BUCHANAN.	April 23, 1791	" 4, 1857	"	June 1, 1868	Penn.	"
16	ABRAHAM LINCOLN.	Feb. 12, 1809	" 4, 1861	4 years 40 days.	April 15, 1865	Kentucky	Republican.
17	ANDREW JOHNSON.	Dec. 29, 1808	April 15, 1865	3 yrs. 10 1-2 mos.	July 31, 1875	N. Carolina	"
18	ULYSSES S. GRANT.	April 27, 1822	March 4, 1869	8 years.	July 23, 1885	Ohio	"
19	RUTHERFORD B. HAYES.	Oct. 4, 1822	" 5, 1877	"	"	Vermont	"
20	JAMES A. GARFIELD.	Nov. 19, 1831	" 4, 1881	16 1-2 months.	Sept. 19, 1881	Ohio	"
21	CHESTER A. ARTHUR.	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5 1-2 mos.	Nov. 18, 1889	Vermont	"
22	GROVER CLYVELAND.	March 18, 1837	March 4, 1885	4 years.	"	New Jersey	Democrat.
23	BENJAMIN HARRISON.	Aug. 20, 1833	March 4, 1889	"	"	Ohio.	Republican.

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