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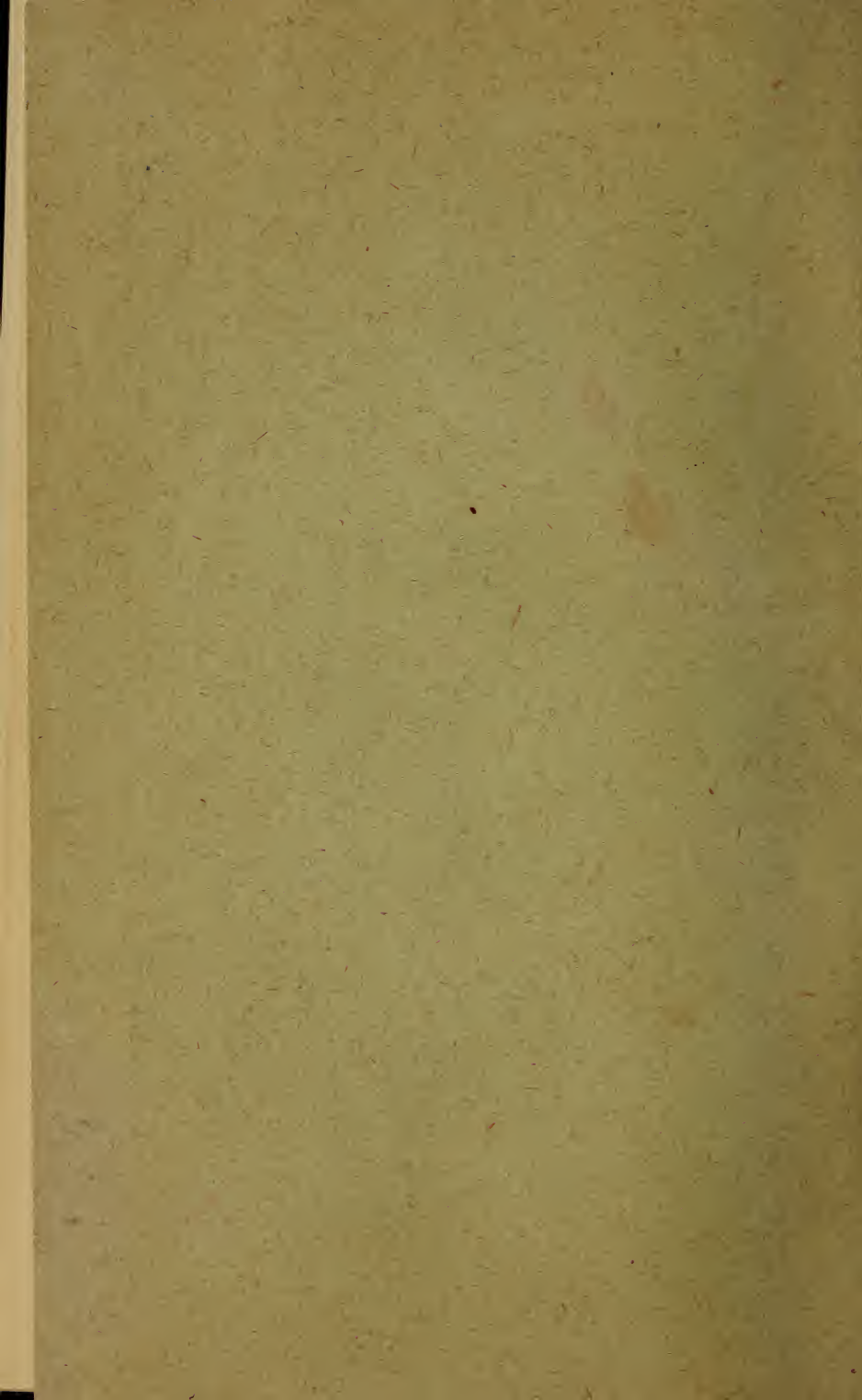
THE
ESOTERIC EPHEMERIS
FOR
SOLAR BIOLOGY
1900.



Calculated for Mean Noon at Washington.

With Explanations of Heliocentric Positions as used in
SOLAR BIOLOGY, and Additional Facts
relative to the Science.

ESOTERIC PUBLISHING COMPANY,
APPLEGATE, CALIFORNIA,
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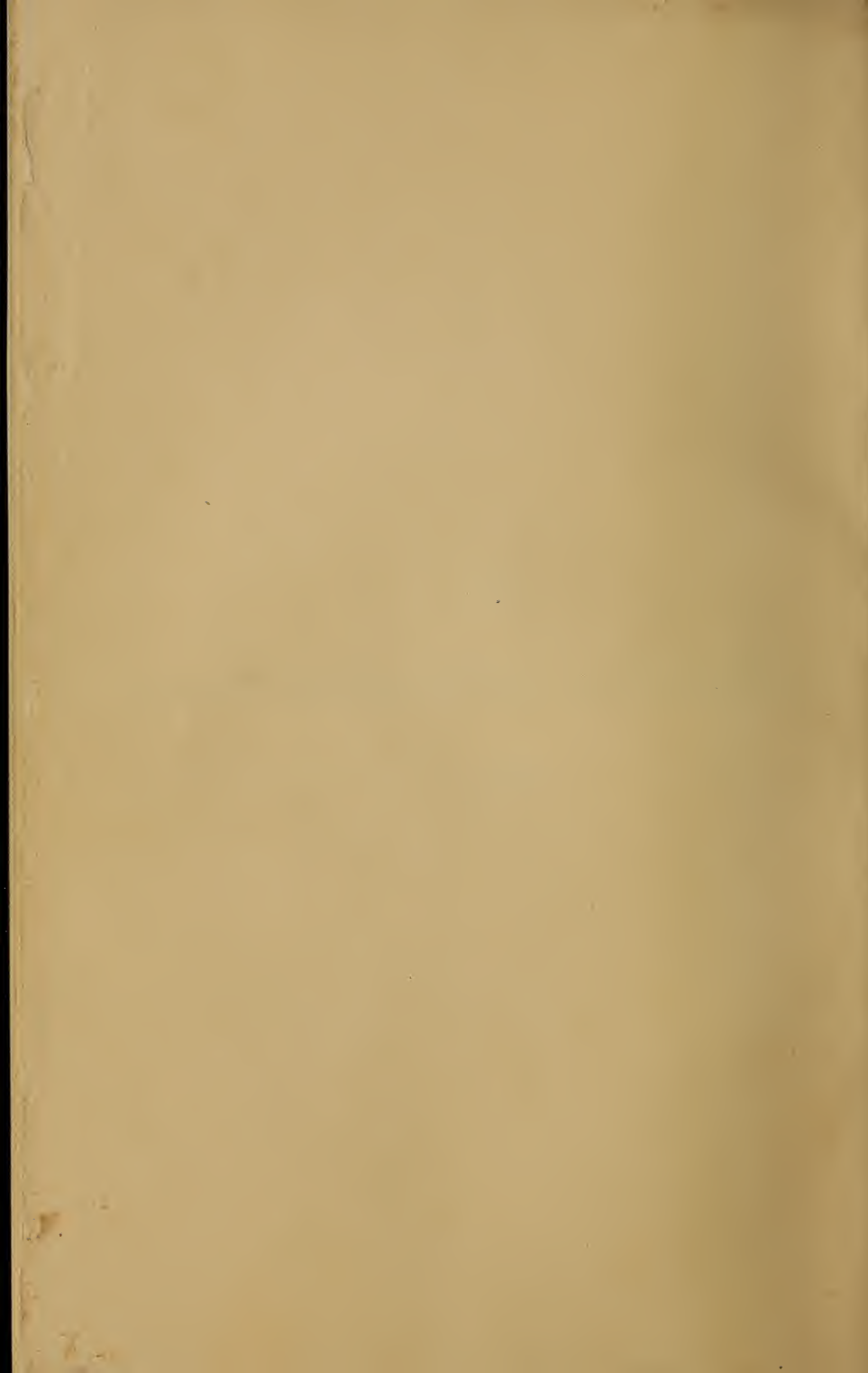
PREFACE.

In presenting this Ephemeris to the public, we shall endeavor to make it of importance to the students of Solar Biology, not only by having the Ephemeris proper as accurate as possible, but also by giving added facts relative to the science. While this additional matter may not be arranged in the most orderly manner, yet it is, we believe, reliable; and when there are doubts regarding the reliability of a particular statement, care has been taken to qualify it. For years we have been gathering knowledge relative to these subjects, and a sufficient amount has been accumulated to greatly enlarge Solar Biology; but until we are ready to do so, each year we will give within the covers of our Ephemeris, as much additional material as space will permit.



Additional facts relative to Solar Biology.





EXPLANATIONS OF HELIOCENTRIC POSITIONS AS USED IN SOLAR BIOLOGY.

In the arrangement of the following Ephemeris, it has been our desire to bring into order the nomenclature of Astrology and Astronomy, which is confusing to nearly all students of the mechanism of the Solar System. For instance, it is said that on March 21 the SUN enters the sign Aries, thus implying that, the earth being stationary, the sun is traveling around the earth, and that on March 21 it reaches the sign called Aries; while every astronomer knows that the sun does not change its position relative to the constellations, that it does not revolve around the earth, as his language implies, but that it is the earth that revolves around the sun.

If, then, the earth is revolving around the sun, where, we ask, would the earth be when the sun appears in the sign Aries? We readily see that it would be in the sign Libra; that is, if the earth be in Libra, a man standing upon it and looking at the sun, would be looking across the zodiac into the sign Aries. If, following the order of astronomical terminology, we should say that on March 21 the earth enters Libra, there would be general confusion as to the position of planets and constellations, and, in reading what has been written by old astrologers relative to the signs of the zodiac, we must constantly understand the term "Aries" to refer to the qualities of Libra, and vice versa. Evidently it is much less embarrassing to transpose the terminology; that is, when referring to the position of the planets, to call that sign "Aries" which is now known to astronomers and astrologers as Libra, recognizing as Libra the sign now known as Aries. Thus the terms would indicate their re-

spective qualities: when we speak of Aries we would refer to the Aries qualities, Libra likewise designating the Libra function.

It is well known to every student of Solar Biology, as well as to sensitives who are conscious of the qualities of the zodiac, that on March 21 the earth, with all its inhabitants, passes into a mental atmosphere whose qualities are characterized by the head, the intellectual abilities. An examination of the accompanying diagram shows that the sign there marked Aries, is the



one denominated Libra by astrologers, and that it is the earth that enters Aries on March 21. It also follows that, if any of the major planets are in the sign the earth then occupies, they will be seen overhead at 12 o'clock midnight.

Now, if the sign which Astronomy terms Libra, invariably gives the qualities of Aries, because of the presence of the earth

in the sign Aries, it unquestionably follows that, in order to create a correct impression and call the signs by the names representing their several functions, we must deal entirely with the heliocentric position of the planets and earth, and reverse the accepted naming. For instance, the time given by the Nautical Almanac as that of the entrance of the sun into the sign Aries, is really the time of the entrance of the *earth* into that sign. Accepting the nomenclature of Astronomy and Astrology, and connecting the names of the signs with the respective functions (zodiacal, or mental atmosphere) designated by them, our diagram indicates that, if the sun enters Libra on the date under consideration, the earth at that time enters Aries.

Again, if, on March 21 the earth enter Aries, and if Mars, Jupiter, Saturn, or Uranus be likewise in Aries on that date, its position would be given by the Nautical Almanac as being in Libra, whereas, its true position being in Aries, it could be seen in midheaven at 12 o'clock midnight, March 21 because, at that hour the sun shines upon a portion of the earth exactly opposite to that upon which we stand. Thus the fact is clearly demonstrated that the planet, or planets referred to, would be in the same sign as that occupied by the earth at the time designated. We have, therefore, in order to be mathematically correct, arranged the Ephemerides for Solar Biology giving the position of each of the planets as just 180 degrees from that found in the Nautical Almanac.

Solar Biology speaks of three zodiacs in their relation to the Solar System, and, for the purpose of avoiding the confusion that has arisen in the nomenclature of Solar Biology, we will describe them as follows:—First, the earth's zodiac. In order to get a correct idea of this zodiac, imagine a wheel containing twelve spokes, and, upon the rim of this wheel and between each one of the spokes, marked in succession, each of the twelve

signs of the zodiac. We will call this rim the path of the moon which is revolving around the earth, the earth being represented by the hub of the wheel. Thus we may form a mental picture of the zodiac of the earth through which the moon passes in its travels around the earth.

Keeping this wheel before the mental eye, and remembering that its hub represents the earth, imagine, for a moment, all of the spokes detached from the hub, the rim and spokes remaining stationary while the hub is revolving upon a central axis of its own. The hub in motion furnishes a picture of the revolution of the earth upon its axis, by means of which each particular locality is carried, once in every twenty-four hours, through all the zodiacal signs, represented by the spaces between the spokes of the wheel. The twelve zodiacal signs through which each distinct portion of the earth's surface passes during this diurnal rotation, are called by Astrology "rising signs."

The second zodiac we will call the sun's zodiac. Let us bring before the mind's eye another and a larger picture of a wheel with its twelve spokes, but this time its rim is composed of eight concentric circles, showing the orbits of the planets in their journey around the sun, which is represented by the hub. The circle next the hub indicates the path of Mercury, the remaining circles showing, in consecutive order, the orbits of Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. These planets, in their revolution around the sun, journey from west to east, and, in doing so, they pass through all the spaces between the spokes of the wheel (signs of the zodiac). We must bear in mind that, in making this revolution, the earth still appears as the center of the wheel first described, the moon passing through the zodiac by which she (the earth) is surrounded (the space between the spokes of the wheel) thirteen times while she is making one journey around the sun, and that, during the same period, she turns $365\frac{1}{4}$ times on her own axis.

There is still another zodiac—perhaps of fable, but it is none the less true that the sun is a planet revolving around its own great center, carrying with it the whole Solar System in unbroken mass, as though it were a huge globe. This zodiac is not used in the delineation of character from Solar Biology.

Now, the difference in the use of the moving bodies of the Solar System, as found in Solar Biology and in ancient Astrology, is this:—Astrology recognizes but one zodiac,—that of the earth, and when any one of the planets passes within the limits of the extension of two imaginary radii bounding a particular sign of the earth's zodiac, it is said to be in that sign, whereas, in the zodiac of the heliocentric positions, it may be several signs from that place. The present edition of Solar Biology does not recognize the "rising signs;" that is, the revolution of the earth upon its axis, carrying each distinct portion of its surface through all the signs of the zodiac once in twenty-four hours; we shall, however, incorporate this feature in a coming edition of Solar Biology, as the rising sign governs the physical body. Solar Biology, in its present form, uses the earth's zodiac in its relation to the moon, and the sun's zodiac in its relation to the earth and the other planets; it is evident, therefore, that the moon's positions are computed from a geocentric basis, and those of the planets, from a heliocentric basis.

When it is Noon at Washington, D. C. (sun time), it is the following time at the places named:—

| | |
|--------------------------------|---------------------------------|
| Bangor, Me., 12.33 p. m. | Milwaukee, Wis., 11.16 a. m. |
| Concord, N. H., 12.22 p. m. | St Louis, Mo., 11.07 a. m. |
| Montpelier, Vt., 12.18 p. m. | Topeka, Kans., 10.45 a. m. |
| Boston, Mass., 12.26 p. m. | Omaha, Neb., 10.44 a. m. |
| New Haven, Conn., 12.17 p. m. | Des Moines, Iowa, 10.53 a. m. |
| New York City, 12.12 p. m. | Minneapolis, Minn., 10.55 a. m. |
| Philadelphia, Pa., 12.07 p. m. | Cheyenne, Wyo., 10.09 a. m. |
| Richmond, Va., 11.58 a. m. | Helena, Mont., 9.40 a. m. |

When it is Noon at Washington, D. C. (sun time), it is the following time at the places named:—

| | |
|---------------------------------|----------------------------------|
| Wheeling, W. Va., 11.46 a. m. | Seattle, Wash., 8.58 a. m. |
| Wilmington, N. C., 11.56 a. m. | Portland, Ore., 8.57 a. m. |
| Columbia, S. C., 11. 44 a. m. | Santa Fé, N. M., 10.04 a. m. |
| Atlanta, Ga., 11.31 a. m. | Denver, Colo., 10.08 a. m. |
| Mobile, Ala., 11.16 a. m. | Salt Lake City, Utah, 9.41 a. m. |
| Memphis, Tenn., 11.08 a. m. | Prescott, A. T., 9.38 a. m. |
| Vicksburg, Miss., 11.05 a. m. | Carson City, Nev., 9.10 a. m. |
| Little Rock, Ark., 10.59 a. m. | San Francisco, Cal., 8.57 a. m. |
| Austin, Tex., 10.39 a. m. | London, England, 5.08 p. m. |
| Louisville, Ky., 11.25 a. m. | Liverpool, England, 5.04 p. m. |
| Columbus, Ohio, 11.36 a. m. | Glasgow, Scotland, 4.51 p. m. |
| Indianapolis, Ind., 11.23 a. m. | Brisbane, Australia, 3.20 a. m. |
| Chicago, Ill., 11.17 a. m. | Bombay, India, 10 p. m. |

ADDITIONAL FACTS RELATIVE TO SOLAR BIOLOGY.

In these pages we shall endeavor to give students of Solar Biology some added knowledge concerning the nature of the several planets, and their effects. In some instances the notes may amount to a correction of statements made by Solar Biology; in most cases, however, they will take the form of amplification, giving shades of meaning not brought out in that work.

MERCURY. To what Solar Biology says of Mercury in Gemini we add what is a correction as well as of the nature of an additional shade of meaning. S. B. makes the statement that this position of Mercury "gives inclination to physical labor," and "exerts a strong influence to bind the person down to menial service." Experience seems to prove that its influence produces a certain feeling of helplessness, makes of an individual a dreamer rather than an executor. A person with Mercury in Gemini may think and plan well enough, but when a brave effort is required to execute the plan, he or she shrinks from the exertion, with a feeling of inability to undertake and accomplish, a condition which in many instances "binds the person down to menial service." This position of Mercury probably imparts some inventive ability.

MERCURY IN VIRGO throws the powers of execution very largely into chaos. The person may be studious, but is not apt to make much use of what he learns, unless it is turned in the direction of chemistry, in which case we believe Mercury so placed greatly assists the mind.

MERCURY IN LIBRA, being in its home position, will, if the

earth be in Libra, govern the native quality and character of the individual, and will probably affect the organic quality.

MERCURY IN SCORPIO, other positions being harmonious, gives a tenacity to life, a vital endurance, transcending any influence of the Solar System.

MERCURY IN THE LIFE SIGN (sign earth was in at time of birth) brings an influence just opposite to that imparted by Jupiter when in the earth sign; and unless Jupiter be in Aries, Leo, the earth sign, or rising sign, the person will be inclined to associate with those below his own standard of life.

MERCURY IN THE RISING SIGN (sign governing the physical body) usually builds a large, strong physique. Exceptions occur where the vitality is low from other causes; even then it may overrule the adverse conditions.

VENUS IN TAURUS, LIBRA, OR THE RISING SIGN, inclines the person to be impulsive in his attractions and repulsions.

VENUS IN GEMINI indicates a love of words in all the bearings of that characteristic. It gives an ideal of beautiful word formation, and of the rhythm of words; and, in the majority of cases, inclines the person to talk altogether too much. It imparts abilities as a teacher, and inclines to the scientific.

VENUS IN CAPRICORN gives musical ability. Many virtuosos have it so placed.

VENUS IN THE RISING SIGN renders the organic structure fine, and inclines to elegance and neatness.

MARS. The mental and physical struggle of the Solar System has its home in Mars, hence the entire complex system of competition and struggle between man and man is the effect of the Mars influence. We have reason to believe that Mars is

now passing through one of its periodical changes, and that its old dominant influence is being thrown down upon the Earth, while Mars itself is in a state of rest preparatory to a step higher.

MARS IN ARIES gives an inclination to what may be denominated "cold criticism,"—a disposition to criticise everybody and everything, even those nearest and dearest to the person.

MARS IN GEMINI inclines to sarcasm, quick temper, and hasty speaking.

MARS IN SCORPIO produces jealousy and suspicion, and a sort of haughty combativeness, a combativeness which in some instances may be called serpent-like, striking without warning—mentally or physically.

MARS IN CAPRICORN turns the mind in the direction of care for self and those belonging to self. In the remaining signs of this trinity—viz., Aquarius and Pisces—it has some influence in the same direction.

MARS IN PISCES produces great restlessness, and tends to weaken the tie to home and its surroundings.

JUPITER. The planet Jupiter deserves more careful consideration than any other of the Solar System, for two reasons: first, because of the power of its influence, which is not surprising when we remember that were all the other planets of the system rolled into one mass, that mass would not equal Jupiter in bulk; second, because its influence acts directly upon the mind of the age, and is most powerfully manifest in the ideals.

JUPITER IN ARIES not only contributes to ideality in the sense in which that term is commonly used, but, when the organism is sufficiently balanced to carry it, it gives most practical ideation. Many prominent men have Jupiter in Aries.

JUPITER IN LEO tends to make the individual very politic,—

if he succeeds in business, he does so through love and kindness; but if he loves his friends he is apt to hate his enemies. This position of Jupiter inclines to generosity. If, however, the nature is intrinsically a selfish one, the person will accomplish his designs by appealing to the love and higher instincts of those with whom he may be dealing.

JUPITER IN VIRGO aids in the study of chemistry and natural law.

JUPITER IN LIBRA, the unformed fountains of life and mind element, contributes much of the attribute of Saturn, giving form and order to the mind, especially in the psychic realm. This is especially true of those born in the sign Aries or Libra.

JUPITER IN SCORPIO inclines to subtlety and arrogance, which, if the mind is well balanced, enables the individual to keep his own counsel and carry out his own designs. In this position Jupiter also imparts some degree of jealousy.

JUPITER IN AQUARIUS produces large approbateness. Being in the nervous system, it adds greatly to the mental qualities, making the person somewhat philosophical; also gives literary ability and abilities in the direction of oratory.

JUPITER IN PISCES creates an unrest in the mental texture, which leads to suspicion, evil imaginings, and distrust of others. It throws the restlessness of the Pisces quality into the ideals. It keeps the mind busy, however, so that, if the organization were well constituted and regulated, its effect would be good.

SATURN. To what Solar Biology says of the general character of the planet Saturn we must add that the Saturn quality brings with it a slow and philosophical movement of the mind.

SATURN IN TAURUS was, we believe, overestimated by Solar Biology, because of the low status of the physical senses of the race. Not until the individual has lived the regenerate life long

enough to bring the senses under the control of the higher attributes, will the qualities of Saturn, as described in Solar Biology, be manifested in effect. Until that time, the physical senses being so much below the quality of the planet, this position is more apt to throw them into confusion than to produce order.

TRIPLICITIES. Here we begin to borrow from ancient Astrology. We deem it wise to gather truth, no matter where we find it, and we find several things taught by Astrology that are very good in connection with Solar Biology.

The Triplicities are made up of airy, watery, fiery, and earthy signs; and that the signs are correctly apportioned to the four elements there can be no doubt. To the Airy Triplicity belong Libra, Aquarius, and Gemini. The Watery Triplicity is composed of Cancer, Scorpio, and Pisces. The Fiery Triplicity contains Aries, Leo, and Sagittarius. The Earthy Triplicity, Capricorn, Taurus, and Virgo. It will be observed that in each of these Triplicities there is but one head of a Trinity, one interior sign, and one serving sign,—preferably, expressing sign,—an order which is also found in the Trinities. It will also be seen that the Triplicities are a more perfect expression of the order of creation than are the Trinities; the Trinities giving the order of the vital and mental qualities while the Triplicities contain the order of the creative factors.

The Hebraic Scriptures give Libra as the first sign of the zodiac,—Reuben was the firstborn. It is the most feminine of all the signs, and, consequently, as the gatherer, the order of its work precedes that of the others. As shown in "Seven Creative Principles," the feminine function is to gather, concentrate, and bind; therefore Aquarius is, so to speak, the receptacle of that which is gathered by Libra, and Gemini the expresser, or former. Gemini is, therefore, the representative of

fermentation,—the struggle for liberation of what is gathered. These signs constitute the Airy Triplexity.

The second in order is the reproductive Triplexity, of which Cancer is the head, Scorpio the interior, and Pisces the expresser; signs which represent the waters of life. Cancer is the gatherer—also a feminine sign—Scorpio the receptacle, and Pisces (the fish) is the formulation in the waters. These signs form the Watery Triplexity.

The third Triplexity is that of fire, or organic life. Aries is the gatherer, Leo the receptacle, and Sagittarius the expresser. Aries gathers the ideal of form and Sagittarius expresses it through muscular activity, as is well demonstrated by the results attained by the gymnast. These signs make up the Fiery Triplexity.

Capricorn gathers that which has been hitherto formulated, and organizes it into a grand body. Taurus, the receptacle, receives the violet flame which transmutes into the higher order, and Virgo is the expresser through her extreme discrimination, and also by means of her tenacity to the idea of perfect form in the body. These signs constitute the Earthy Triplexity.

For the purpose of fixing the order of the Triplexities in the memory, let the student draw two circles, one within the other, just far enough apart to admit of the signs of the zodiac being marked between them. Then divide into twelve equal parts the periphery of each circle by lines running from one periphery to the other. Place the signs of the zodiac in the spaces thus formed between the circles. Draw a straight line from Libra to Aquarius, from Aquarius to Gemini, and from Gemini to Libra, thus forming the first triangle, or Triplexity. Now trace the Watery Triplexity, or triangle, by drawing a line from Cancer to Scorpio, from Scorpio to Pisces, and from Pisces to Cancer. The third triangle, or the Fiery Triplexity, is formed by a line from Aries to Leo, from Leo to Sagittarius,

and from Sagittarius to Aries. The last, or Earthy Triplicity, may be traced by a line from Capricorn to Taurus, from Taurus to Virgo, and from Virgo to Capricorn. Then, distinct from the circles, draw four triangles, placing at the apex of each, in its order, one of the following signs: Libra, Cancer, Aries, Capricorn. At the left hand lower angle of the airy triangle mark the sign Aquarius, and at the right hand angle Gemini. The watery triangle, with Cancer at the apex, has Scorpio at the left lower angle and Pisces at the right. The third, or fiery triangle, marked by the sign Aries at the apex, has Leo placed at the left lower angle and Sagittarius at the right. The fourth, or earthy triangle is distinguished by Capricorn at the apex, Taurus and Virgo, at the left and right lower angles respectively. When you have done this you have fixed in your memory the Triplicities and their order. As a reason for this order, it is well to observe that the left is always the interior and the right hand the expresser. Not only is this true in regard to the order of the zodiacal signs, but it is also true of the human body in relation to its natural functions.

Now, as to the use of the Triplicities in the delineation of character. The polarization of the head of a Triplicity into the expresser of the same Triplicity is not a well-balanced polarization—produces a certain amount of mental disorder. The interior signs polarized into the expressers of their respective Triplicities have the best polarization of which they are capable—not that, under all circumstances, it is the best polarization for adaptation to the material world, for its character is such as rather to give an inclination to the religious, scientific, and spiritual. An expressing sign polarized into the head of its own Triplicity gives very strong will and determination; and, if not well-balanced in other directions, the individual is stubborn and a person actuated by one idea. Pisces polarized into Cancer is more harmonious and practical.

The following polarizations are backwards and tend to mental confusion; some of them, however, are more harmonious than others—a few so much so as to be almost exceptions: the interior signs polarized into the heads of their Triplicities. (The nature of the heads do not admit of a backward polarization.) A very bright mind may be the result of this polarization, but in each case it will lack balance in some particular direction; for example, Leo polarized into Aries, is overbalanced by the will. An expressing sign led or polarized into its interior is confusing in its effect. A notable exception to this rule is Virgo polarized into Taurus, which is correctly described by Solar Biology. Gemini into Aquarius has its advantages and some disadvantages—rather inclines to a lack of sex power.

Persons whose nativities present a preponderance of airy signs are inclined to the mental. An ascendancy of the Watery Triplicity tends toward generation. Planets in Scorpio or Pisces contribute to the controlling power in the generation, but planets in Cancer weaken that power. An excess of the fiery quality inclines to the ideal and to the will, also to the spiritual. If the excess is of the Aries quality, it gives spiritual powers, but also scepticism, because of its connection with the external reason. A large endowment in the Earthy Triplicity gives a practical, utilitarian turn of mind, but, like the Earth, it is closely allied to the creative or solar mind. In most cases the above results only obtain when the basic principles and the planetary positions blend harmoniously, and when they are led out in straight-forward order; for, as we shall see later, the planets may be posited for a forwards or backwards, a normal or abnormal, expression.

THE TRINITIES, as given in Solar Biology, are distinguished as the Intellectual, the Maternal, the Reproductive, and the Serving Trinity. The heads and the interior signs of the Trinities have a normal expression through the expressing sign of their respective Trinities; and, *vice versa*, the expressing signs are always backwards, or in disorder, when polarized into the heads or interior signs of their own Trinities; as also the interior signs polarized into the heads of their Trinities. In some cases Virgo polarized into Cancer appears to be an exception to the rule.

THE RISING, OR BODY SIGN characterizes the physical senses, mental tendencies arising from the senses, and the qualities of the physical body—according to the nature of the sign as given in Solar Biology, under the heading “The Twelve Signs of the Zodiac.” A person born when the rising sign, Earth sign, and Moon sign belonged to the same Triplicity is unfortunately constituted, as the combination is sure to overbalance in the direction of the qualities of that Triplicity. We have never seen the planets so well posited as to harmonize such a nature.

CHEMISM. Everything in nature is by virtue of chemical combination, and all chemical elements originate in the creative forces, which have their source in the planets of the Solar System. Human life, thought, and character are a chemical result. But this study demands a volume of its own, and we must, therefore, confine these notes to a very few of the important facts found in the realm of the higher chemistry.

That ancient Astrology was a science, there is no doubt. It was based upon the direct ray from the planets of the Solar System in its focalization upon the Earth; an influence which is more directly upon the creative forces of the world, and, there-

fore, more directly upon the physical body, the senses, and the mind arising therefrom, while Solar Biology deals with the mind currents in their controlling influence over matter. In order to approach an understanding of the points we are about to give in this connection, we must consider the influence of planets as assigned to their ruling positions by Astrology.

According to this science, Mercury rules Gemini and Virgo, of which Gemini is the "day house," and Virgo the "night house." Venus rules Libra and Taurus; Libra the day house, and Taurus the night house. Mars rules Aries and Scorpio; Aries the day house, and Scorpio the night house. Jupiter rules Sagittarius and Pisces; Sagittarius the day house, Pisces the night house. Saturn rules Capricorn and Aquarius; Capricorn the day house, Aquarius the night house. We have not space in these pages to enter into a full explanation of the effect of the combination of the two qualities governed by each of the planets; we give general principles, leaving the student to work out results for himself, until a more definite explanation appears in a revised and enlarged edition of Solar Biology.

The result of a combination in equal and perfect proportions, of the two signs, or qualities, under the rule of each of the planets would be as follows: Gemini in combination with Virgo would produce Libra. Libra would combine with Taurus to produce Virgo. Aries with Scorpio would form Cancer. Sagittarius with Pisces, Gemini. Capricorn with Aquarius, Taurus.

It is clear, however, that a combination cannot occur which will be perfect in quality and proportion, as the influence and strength of a sign largely depends upon the planet found in it; the rising sign and the Moon sign have also an effect distinctly their own. Consequently, whenever the two signs ruled by a particular planet are found in combination, the union is not a perfect one, and the result is an abnormal expression of the

sign those two qualities produce. For example, in a consideration of the basic principles, the most potent influences are those of the Earth, Moon, and rising sign. It is clear that the Earth and Moon, or either one of these with the rising sign—however the combination may occur—cannot produce a completely normal quality, because the Moon is only a reflection of a quality the Earth carries with it, and the influence of the Earth and that of the rising sign are from two distinct zodiacs, one influencing the mind and the other the physical body. Therefore, when Gemini and Virgo are combined in the basic principles of a nativity, the result is an irregular, or abnormal Libra; a dreamy, contemplative, impractical mind. Similarly, Taurus and Libra produce an irregular Virgo, a determined impulsiveness. Emerson says, "Life flows headlong," and as Libra and Taurus are the life fountains, when united they flow headlong without proper moderation and caution. Aries and Scorpio combine to form an irregular Cancer, a subtle, suave, egotistic nature, lacking consistency. Sagittarius and Pisces, under the influence of Jupiter, make an energetic, restless Gemini nature, peculiar in its characteristics—usually with the power of language well developed. In order to give a clear conception of the effect of the union of Capricorn and Aquarius, we would be carried into the realm of the mystic further than our present limits admit—not that the combination necessarily makes a mystic. In studying the chemical results just noted, it is important to observe that the combined effect of the Earth and Moon is more pronounced than that of the Earth and rising sign, or of the Moon and rising sign.

The influence of the planets in combination must be studied in relation to the nature of the planets, the qualities of the signs in which they are posited, and the result of the combination of those signs.

A planet found in either of the signs governed by it, has a

potent influence upon the nature of the individual; particularly so if the Earth sign is under the rule of the same planet. When the Earth sign is under the rule of a particular planet, the position of that planet in the nativity, wherever it may be found, has a strong controlling power over the external life, inclinations, and business qualifications of the individual.

When any one of the three lower planets is found in a sign which it rules, the position is decidedly an unfortunate one; its influence in its night house being worse than in its day house. In the case of Venus, however, this position is not as unhappy in its effect as is that of Mercury or Mars. In its night house Jupiter produces evil imaginings, but its position in its day house is good.

POSITIVE AND NEGATIVE EXPRESSION OF THE TWELVE SIGNS. It may be well to call the attention of the student to yet another peculiarity of the signs, which is that, apart from the fact that some signs are positive and some negative in their character, it is found that, throughout the zodiac, the male and the female are the alternate positive and negative expressions of the signs.

These positive and negative expressions run as follows: The Aries man is the positive expression of the Aries sign, and the Aries woman its negative expression. The Taurus woman is positive, the Taurus man negative. The Gemini man positive, the Gemini woman negative. Cancer woman positive, Cancer man negative. Leo man positive, Leo woman negative. Virgo woman positive, Virgo man negative. Libra man positive, Libra woman negative. Scorpio woman positive, Scorpio man negative. Sagittarius man positive, Sagittarius woman negative. Capricorn woman positive, Capricorn man negative. Aquarius man positive, Aquarius woman negative. Pisces woman positive, Pisces man negative.

It must be remembered that the positive and negative as given above are relative to the quality of the sign; that is to say, a man born in the sign Aries—a positive sign—will be thoroughly positive, and in marriage the ruling factor, while a woman born in that sign embodies its negative qualities. In the sign Cancer, that strictly feminine sign, we see the negative side, man, as thoroughly feminine as the masculine organism is capable of being, while the woman is the positive expression of the same sign. These characteristics may be modified or intensified by the rising sign or by the positions of the Moon and planets.

THE RISING SIGN.

There are used in Solar Biology three distinct planetary motions and two separate zodiacs—the third motion determining the rising sign. The zodiac first considered is that of the Sun, through which, in making a circuit around the Sun, all the planets, Earth included, pass during the twelve months. This revolution constitutes one of the motions referred to. The second zodiac is that of the Earth, through which the Moon passes during the course of its circuit around the earth. This revolution presents the second motion. The turning of the Earth upon its axis constitutes the third motion. By means of this motion a given place upon the Earth's surface is carried through all the signs of the zodiac approximately once in every twenty-four hours. This third motion occasions the rising of the signs.

There are many questions that we cannot yet answer, and one of them is why the dividing lines belonging to the two zodiacs are identical; but in this case the why is not essential for practical purposes. The facts are that the Sun's zodiac more directly influences the mental action, while the Earth's zodiac is more directly allied to the vital (otherwise, their influence is identical in quality and effect); it therefore becomes necessary that those making attainments in the Esoteric life know and carefully observe the position of the Moon, and, when under high tension, that they watch the rising sign.

In the study of character it will be found that the rising sign governs the physical body (its general structure), the physical characteristics, and all mental and emotional action arising therefrom. For instance, we wish to delineate the character of

a person born when the Earth was in Aries, the Moon in Gemini, and Cancer rising. With such conditions we find that Solar Biology reads him correctly as follows: His mental characteristics are those of Aries, his expression that of Gemini,—the normal expression of the Aries nature,—while his physical appearance is that of Cancer. He would have much of the effeminate appearance and sensitiveness, would be disinclined to work with his hands; in fact, the physical manifestation would be very largely that of Cancer, governed, of course, by the basic principles of Aries-Gemini.

The time of the rising of a sign is determined by the sidereal time. We subjoin the sidereal time for each eighth day of the coming year, and, by remembering that this time progresses something like four minutes (from three to four seconds less than four minutes) each day, the student can readily calculate it for any day. We also give the time (sidereal time) of the rising of each of the signs. In order to find what sign is rising at any given time, if before noon, *deduct* the difference between that time and 12 noon, from the sidereal time for that day, and, by comparing the remainder with the column giving the times that the signs rise, you readily see what sign is rising at the required time. If the given time be after noon, *add* to the sidereal time the difference between the given time and 12 noon, and compare the result with the times of the rising of the signs. If the sidereal time be too small to make the deduction referred to, add 24 hours to it, and then make the deduction. If the sum resulting from the addition of the sidereal time to the difference between the given time and 12 noon be greater than 24 hours, deduct 24 hours from it and compare remainder with the times of the rising of the signs.

TIMES OF THE RISING OF THE SIGNS.

| | H. | M. | | H. | M. | | H. | M. | | H. | M. |
|---|----|----|---|----|----|---|----|----|---|----|----|
| ♈ | 18 | 0 | ♊ | 22 | 32 | ♎ | 6 | 0 | ♏ | 13 | 28 |
| ♉ | 19 | 10 | ♋ | 0 | 55 | ♍ | 8 | 32 | ♐ | 15 | 22 |
| ♊ | 20 | 35 | ♌ | 3 | 28 | ♏ | 11 | 6 | ♑ | 16 | 48 |

For example, in order to find what sign is rising at 10 a. m., Jan. 13, we examine the column giving the sidereal time and find that the date nearest to Jan. 13 is Jan. 16. Estimating that the time is progressing about 4 m. a day, if Jan. 16, it is 19 h. 42 m., on Jan. 13, it would be 19 h. 30 m. Deducting the difference between the given time 10 a. m. from 12 noon (2 h.), we obtain 19 h. 30 m. as the sidereal time for Jan. 13. The column giving the times for the rising of the signs shows, that at 17 h. 30 m. Pisces is rising, as it appears upon the horizon at 16 h. 48 m., and continues to rise until Aries appears at 18 h. Therefore at 10 a. m. Jan 13, the sign Pisces is rising. We give the times of the rising signs in this abbreviated form, as it is sufficiently accurate for the use of those who are observing their effect upon the life forces. Allowing four minutes daily for the progression of the Earth, the variation from the exact time runs from some seconds to not more than five minutes, which is near enough for practical purposes.


The subjoined tables are calculated for 40 degrees North Latitude, and are, therefore, correct on that line, sun time, anywhere upon the planet. North of this line the signs rise earlier; south of it they rise later.

SIDEREAL TIME.

| JAN. | | | APR. | | | JULY. | | | OCT. | | |
|------|----|----|------|----|----|-------|----|----|------|----|----|
| D. | H. | M. | D. | H. | M. | D. | H. | M. | D. | H. | M. |
| —1 | 18 | 39 | 6 | 0 | 58 | 3 | 6 | 45 | 7 | 13 | 3 |
| 8 | 19 | 11 | 14 | 1 | 29 | 11 | 17 | 16 | 15 | 13 | 35 |
| 16 | 19 | 42 | 22 | 2 | 1 | 19 | 7 | 48 | 23 | 14 | 8 |
| 24 | 20 | 14 | 30 | 2 | 32 | 27 | 8 | 19 | 31 | 14 | 38 |

SIDEREAL TIME (Continued).

| FEB. | | | MAY. | | | AUG. | | | NOV. | | |
|------|----|----|-------|----|----|-------|----|----|------|----|----|
| D. | H. | M. | D. | H. | M. | D. | H. | M. | D. | H. | M. |
| 1 | 20 | 45 | 8 | 3 | 24 | 4 | 8 | 51 | 8 | 15 | 9 |
| 9 | 21 | 17 | 16 | 3 | 35 | 12 | 9 | 22 | 16 | 15 | 41 |
| 17 | 21 | 48 | 24 | 4 | 7 | 20 | 9 | 54 | 24 | 16 | 12 |
| 25 | 22 | 20 | | | | 28 | 10 | 25 | | | |
| MAR. | | | JUNE. | | | SEPT. | | | DEC. | | |
| D. | H. | M. | D. | H. | M. | D. | H. | M. | D. | H. | M. |
| 5 | 22 | 52 | 1 | 4 | 39 | 5 | 10 | 57 | 2 | 16 | 44 |
| 13 | 23 | 23 | 9 | 5 | 10 | 13 | 11 | 29 | 10 | 17 | 15 |
| 21 | 23 | 55 | 17 | 5 | 42 | 21 | 12 | 0 | 18 | 17 | 47 |
| 29 | 0 | 26 | 25 | 6 | 13 | 29 | 12 | 32 | 26 | 18 | 19 |

 For those who do not care to make the above calculations, we have a "Zodiacal Indicator," which we are selling, post paid, for \$1.00.

. . . HELIOCENTRIC EPHEMERIS, 1900. . . .

FEBRUARY, 28 DAYS.

| D | D | ⊕ | ☾ | ♄ | ♅ | ♁ | ♂ | ♀ | ♂ | ♀ | ♂ |
|----|---|--------------------------------|----------------------------|----------------------|--------------------|--------------------|---------------------|--------------------|------------------------------|------------------------------|------------------------------|
| M | W | Heliocentric Longi- tude. | Geocentric Longi- tude. | Heliocentric Long. | Heliocentric Long. | Heliocentric Long. | Heliocentric Long. | Heliocentric Long. | Heliocentric Longi- tude. | Heliocentric Longi- tude. | Heliocentric Longi- tude. |
| | | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | T | 12 ^m 26 15 | 5 ^h 53 57 | | | | | 5 ^h 50 | 3 39 ^m 0 23 | 29 ^h 30 | |
| 2 | F | 13 27 9 20 | 58 35 | | | | | | 5 14 | 59 26 35 | 59 |
| 3 | S | 14 28 1 | 5 ^h 47 24 | 25 ^h 1 53 | 9 ^h 3 | 27 ^h 31 | 27 ^h 8 9 | 7 4 | 6 51 | 0 29 45 | 27 |
| 4 | S | 15 28 51 20 | 14 14 | | | | | | 8 27 | 2 2 58 ^h 48 | |
| 5 | M | 16 29 40 | 4 ^h 15 35 | | | | | 8 19 | 10 3 | 7 6 16 | 2 |
| 6 | T | 17 30 28 17 | 50 25 | | | | | | 11 39 | 11 9 37 | 25 |
| 7 | W | 18 31 14 | 0 ^h 57 27 | | | 27 38 | 27 27 9 | 34 | 13 15 | 20 13 3 | 20 |
| 8 | T | 19 31 58 13 | 55 17 | | | | | | 14 51 | 28 16 34 | 22 |
| 9 | F | 20 32 41 26 | 30 14 | | | | | 10 49 | 16 27 | 39 20 10 | 35 |
| 10 | S | 21 33 23 8 | 52 20 | | | | | | 18 3 | 51 23 52 | 20 |
| 11 | S | 22 34 2 21 | 4 36 25 | 56 9 | 9 27 | 46 27 | 46 12 | 5 19 | 40 6 27 | 39 59 | |
| 12 | M | 23 34 40 3 ^h 9 26 | | | | | | | 21 16 | 21 1 34 ^m 11 | |
| 13 | T | 24 35 17 15 | 9 1 | | | | | 13 20 | 22 52 | 39 5 35 | 20 |
| 14 | W | 25 35 52 27 | 4 55 | | | | | | 24 28 | 58 9 42 | 53 |
| 15 | T | 26 36 26 8 ^m 58 30 | | | | 27 53 | 28 5 14 | 35 26 5 | 19 13 57 | 49 | |
| 16 | F | 27 36 58 20 | 58 2 | | | | | | 27 41 | 41 18 21 | 26 |
| 17 | S | 28 37 29 2 ^h 44 16 | | | | | | 15 51 | 29 18 | 7 22 52 | 29 |
| 18 | S | 29 37 39 14 | 39 52 | | | | | | 0 54 ^h 1 51 | 27 32 35 | |
| 19 | M | 0 ^h 38 7 26 | 40 41 25 | 59 9 | 15 28 | 0 28 | 23 17 | 6 2 31 | 20 2 21 ^h 2 | | |
| 20 | T | 1 38 34 8 ^m 50 37 | | | | | | | 4 7 49 | 7 18 24 | 24 |
| 21 | W | 2 38 59 21 13 1 | | | | | | 18 22 | 5 44 | 21 12 24 | 24 |
| 22 | T | 3 39 23 3 ^h 1 47 58 | | | | | | | 7 20 | 54 17 40 | 41 |
| 23 | F | 4 39 45 16 54 32 | | | | 28 7 28 | 42 19 38 | 8 57 | 30 23 5 | 20 | |
| 24 | S | 5 40 6 0 ^h 22 18 | | | | | | | 10 34 | 6 28 38 | 55 |
| 25 | S | 6 40 26 14 18 0 | | | | | | 20 53 | 12 10 | 46 4 21 ^m 10 | |
| 26 | M | 7 40 44 28 43 46 | | | | | | | 13 47 | 26 10 11 | 18 |
| 27 | T | 8 41 0 13 ^h 35 7 26 | 2 9 21 | 28 15 29 | 1 22 | 9 15 | 24 9 16 | 9 0 | | | |
| 28 | W | 9 41 15 28 45 42 | | | | | | | 17 0 | 52 22 13 | 11 |

. . . TRANSITS. . . .

FEBRUARY, 1900.

| D | D | ⊕ | D | D | ☾ | D | D | ♀ | D | D | ♂ | | | | | |
|----|---|-----------------------------------|--|------------------------------|----|------------------------------------|-----------------------------------|------------------------------|----|-----------------------------------|----|------------------------------|----|----|-----------------------------------|------------------------------|
| M | W | H. | M. | S. | M | W | H. | M. | S. | M | W | H. | M. | S. | | |
| 18 | S | 9 [☾] to [☾] 4 | 57 ^P _M | 12 | M | 5 [☾] to [☾] 42 | 19 ^A _M | 17 | S | 10 ^m to [☾] 1 | 55 | 37 ^P _M | 3 | S | 1 [☾] to [☾] 49 | 24 ^P _M |
| | | ☾ | | 14 | W | 5 [☾] to [☾] 53 | 41 ^P _M | | | | | | 12 | M | 2 [☾] to ^m 29 | 42 ^A _M |
| | | H. | M. <td>S.</td> <td>17</td> <td>S</td> <td>6^mto[☾]31</td> <td>17^A_M</td> <td></td> <td></td> <td></td> <td></td> <td>19</td> <td>M</td> <td>0^mto[☾]20</td> <td>49^A_M</td> | S. | 17 | S | 6 ^m to [☾] 31 | 17 ^A _M | | | | | 19 | M | 0 ^m to [☾] 20 | 49 ^A _M |
| | | | | 19 | M | 6 [☾] to ^m 35 | 28 ^P _M | | | | | | 24 | S | 5 [☾] to ^m 43 | 33 ^P _M |
| 1 | T | 2 [☾] to [☾] 40 | 37 ^A _M | 22 | T | 4 ^m to [☾] 1 | 45 | 42 ^A _M | | | | | | | | |
| 3 | S | 2 [☾] to [☾] 33 | 15 ^A _M | 24 | S | 11 [☾] to [☾] 21 | 16 ^A _M | | | | | | | | | |
| 5 | M | 4 [☾] to [☾] 8 | 36 | 13 ^A _M | 26 | M | 2 [☾] to [☾] 3 | 57 ^P _M | | | | | | | | |
| 7 | W | 10 [☾] to [☾] 2 | 4 ^A _M | 28 | W | 1 [☾] to [☾] 56 | 27 ^P _M | | | | | | | | | |
| 9 | F | 6 [☾] to [☾] 46 | 31 ^P _M | | | | | | | | | | | | | |

. . . HELIOCENTRIC EPHEMERIS, 1900. . . .

MARCH, 31 DAYS.

| D M | D W | ⊕ Heliocen- tric Longi- tude. | | | ♃ Geocen- tric Longi- tude. | | | ♂ Helioc- centric Long. | | | ♂ Helioc- centric Long. | | | ♂ Helioc- centric Long. | | | ♂ Helioc- centric Long. | | | ♀ Heliocen- tric Longi- tude. | | | ♂ Heliocen- tric Longi- tude. | | | | |
|--------|--------|--|----|----|--------------------------------------|----|----|-------------------------------|----|----|-------------------------------|----|----|-------------------------------|----|----|-------------------------------|----|----|--|----|----|--|----|----|----|---|
| | | ° | ' | ″ | ° | ' | ″ | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 1 | T | 10 | 41 | 29 | 14 | 6 | 8 | | | | | | | | | 23 | 25 | 18 | 37 | 1 | 39 | 28 | 22 | 52 | | | |
| 2 | F | 11 | 41 | 40 | 29 | 24 | 10 | | | | | | | | | | | 20 | 14 | 26 | 4 | 36 | 1 | 55 | | | |
| 3 | S | 12 | 41 | 49 | 14 | 28 | 41 | | | 28 | □ | 22 | 29 | 20 | 24 | 41 | | 21 | 51 | 17 | 10 | 54 | 21 | | | | |
| 4 | S | 13 | 41 | 57 | 29 | 10 | 57 | | | | | | | | | | | 23 | 28 | 7 | 17 | 13 | 7 | | | | |
| 5 | M | 14 | 42 | 2 | 13 | 8 | 25 | 43 | | | | | | | | | 25 | 51 | 25 | 5 | 1 | 23 | 32 | 24 | | | |
| 6 | T | 15 | 42 | 6 | 27 | 9 | 13 | | | | | | | | | | | 26 | 41 | 55 | 29 | 49 | 43 | | | | |
| 7 | W | 16 | 42 | 7 | 10 | □ | 27 | 56 | 26 | 1 | 5 | 9 | □ | 26 | 28 | 29 | 29 | 38 | 27 | 13 | 28 | 18 | 53 | 6 | 4 | 3 | |
| 8 | T | 17 | 42 | 6 | 23 | 20 | 14 | | | | | | | | | | | 29 | 55 | 50 | 12 | 15 | 21 | | | | |
| 9 | F | 18 | 42 | 2 | 5 | 52 | 23 | | | | | | | | | | | 28 | 29 | 1 | 32 | 3 | 51 | 18 | 20 | 37 | |
| 10 | S | 19 | 41 | 57 | 18 | 8 | 32 | | | | | | | | | | | 3 | 9 | 52 | 24 | 18 | 48 | | | | |
| 11 | S | 20 | 41 | 49 | 0 | 13 | 50 | | | 28 | 36 | 29 | 57 | 29 | 46 | | | 4 | 46 | 56 | 0 | 9 | 50 | | | | |
| 12 | M | 21 | 41 | 39 | 12 | 9 | 36 | | | | | | | | | | | 6 | 24 | 1 | 5 | 51 | 59 | | | | |
| 13 | T | 22 | 41 | 27 | 24 | 5 | 22 | | | | | | | | | | 1 | 2 | 8 | 1 | 8 | 11 | 25 | 34 | | | |
| 14 | W | 23 | 41 | 13 | 5 | 57 | 37 | | | | | | | | | | | 9 | 38 | 15 | 16 | 51 | 41 | | | | |
| 15 | T | 24 | 40 | 57 | 17 | 50 | 10 | 26 | 8 | 9 | 32 | 28 | 43 | 0 | □ | 16 | 2 | 18 | 11 | 15 | 26 | 22 | 3 | 39 | | | |
| 16 | F | 25 | 40 | 39 | 29 | 44 | 32 | | | | | | | | | | | 12 | 52 | 37 | 27 | 8 | 57 | | | | |
| 17 | S | 26 | 40 | 19 | 11 | 41 | 59 | | | | | | | | | | 3 | 34 | 14 | 29 | 50 | 2 | 4 | 3 | 2 | | |
| 18 | S | 27 | 39 | 57 | 23 | 43 | 49 | | | | | | | | | | | 16 | 7 | 4 | 6 | 49 | 56 | | | | |
| 19 | M | 28 | 39 | 33 | 5 | 51 | 33 | | | 28 | 51 | 0 | 34 | 4 | 50 | | | 17 | 44 | 20 | 11 | 26 | 35 | | | | |
| 20 | T | 29 | 39 | 7 | 18 | 8 | 13 | | | | | | | | | | | 19 | 21 | 37 | 15 | 54 | 16 | | | | |
| 21 | W | 0 | 38 | 39 | 0 | 34 | 58 | | | | | | | | | | 6 | 6 | 20 | 58 | 56 | 20 | 13 | 23 | | | |
| 22 | T | 1 | 38 | 10 | 13 | 16 | 37 | | | | | | | | | | | 22 | 36 | 15 | 24 | 24 | 36 | | | | |
| 23 | F | 2 | 37 | 39 | 26 | 16 | 33 | 26 | 11 | 9 | 38 | 28 | 58 | 0 | 53 | 7 | 23 | 24 | 13 | 36 | 28 | 28 | 2 | | | | |
| 24 | S | 3 | 37 | 6 | 9 | 37 | 55 | | | | | | | | | | | 25 | 50 | 58 | 2 | 24 | 6 | | | | |
| 25 | S | 4 | 36 | 31 | 23 | 24 | 29 | | | | | | | | | | 8 | 39 | 27 | 28 | 21 | 6 | 13 | 16 | | | |
| 26 | M | 5 | 35 | 55 | 7 | 36 | 27 | | | | | | | | | | | 29 | 5 | 45 | 9 | 56 | 14 | | | | |
| 27 | T | 6 | 35 | 16 | 22 | 13 | 15 | | | 29 | 25 | 5 | 1 | 12 | 9 | 55 | | 0 | 43 | 11 | 13 | 33 | 8 | | | | |
| 28 | W | 7 | 34 | 36 | 7 | 10 | 15 | | | | | | | | | | | 2 | 20 | 37 | 17 | 4 | 23 | | | | |
| 29 | T | 8 | 33 | 54 | 22 | 20 | 4 | | | | | | | | | | 11 | 11 | 3 | 58 | 4 | 20 | 30 | 40 | | | |
| 30 | F | 9 | 33 | 10 | 7 | 32 | 21 | | | | | | | | | | | 5 | 35 | 32 | 23 | 52 | 5 | | | | |
| 31 | S | 10 | 32 | 24 | 22 | 36 | 6 | 26 | 14 | 9 | 44 | 29 | 12 | 1 | 30 | 12 | 27 | 7 | 13 | 127 | 8 | 58 | | | | | |

. . . TRANSITS. . . .

MARCH, 1900.

| D M | D W | ⊕ H. M. S. | | D M | D W | ☽ H. M. S. | | D M | D W | ♂ H. M. S. | | D M | D W | ♀ H. M. S. | |
|--------|--------|---------------|---------------------------------------|--------|--------|---------------|---------------------------------------|--------|--------|---------------|--------------------------------------|--------|--------|---------------|---------------------------------------|
| | | H. | M. S. | | | H. | M. S. | | | H. | M. S. | | | H. | M. S. |
| 20 | T | 8 | 41 to 29 18 ^p _M | 13 | T | 11 | 12 to 57 52 ^p _M | 15 | T | 8 | 8 to 25 37 ^p _M | 8 | T | 1 | 1 to 2 7 ^p _M |
| | | | | 16 | F | 0 | 1 to 31 6 ^p _M | | | | | 27 | T | 1 | 1 to 29 40 ^p _M |
| | | | | 19 | M | 0 | 1 to 26 25 ^p _M | | | | | | | | |
| | | | | 21 | W | 10 | 1 to 53 31 ^p _M | | | | | | | | |
| 2 | F | 0 | 41 to 56 47 ^p _M | 23 | F | 6 | 1 to 44 3 ^p _M | 11 | S | 8 | 8 to 57 41 ^p _M | 1 | T | 6 | 1 to 15 0 ^p _M |
| 4 | S | 1 | 41 to 22 9 ^p _M | 25 | S | 11 | 1 to 12 39 ^p _M | | | | | 6 | T | 0 | 1 to 39 32 ^p _M |
| 6 | T | 5 | 41 to 3 37 ^p _M | 28 | W | 0 | 1 to 32 50 ^p _M | | | | | 11 | S | 11 | 1 to 18 51 ^p _M |
| 9 | F | 0 | 41 to 42 56 ^p _M | 30 | F | 0 | 41 to 5 26 ^p _M | | | | | 17 | S | 1 | 1 to 50 20 ^p _M |
| 11 | S | 11 | 41 to 32 10 ^p _M | 31 | S | 11 | 41 to 56 35 ^p _M | | | | | 23 | F | 9 | 41 to 17 25 ^p _M |

. . . HELIOCENTRIC EPHEMERIS, 1900. . . .

APRIL, 30 DAYS.

| D D M W | ⊕ Heliocen- tric Longi- tude. | ☾ Geocen- tric Longi- tude. | ♄ Helioc- centric Long. | ♅ Helioc- centric Long. | ♁ Helioc- centric Long. | ♂ Helioc- centric Long. | ♂ Helioc- centric Long. | ♀ Heliocen- tric Longi- tude. | ♀ Heliocen- tric Longi- tude. |
|------------|--|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|
| | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 S | 11 31 37 | 7 8 22 33 | | | | | | 8 50 30 | 0 8 21 43 |
| 2 M | 12 30 46 | 21 44 19 | | | | | | 13 43 10 | 28 0 3 30 56 |
| 3 T | 13 29 54 | 5 38 18 | | | | | | 12 5 30 | 6 36 40 |
| 4 W | 14 28 59 | 19 2 42 | | | 29 19 | 1 49 14 | 59 13 | 43 2 9 | 39 12 |
| 5 T | 15 27 44 | 2 1 5 | | | | | | 15 20 33 | 12 38 49 |
| 6 F | 16 26 45 | 14 37 9 | | | | | 16 15 | 16 58 5 15 | 35 50 |
| 7 S | 17 25 43 | 26 55 9 | | | | | | 18 35 36 | 18 30 47 |
| 8 S | 18 24 39 | 9 0 17 | 26 17 | 9 49 | 29 27 | 2 8 17 | 31 20 | 13 9 21 | 23 21 |
| 9 M | 19 23 33 | 20 56 41 | | | | | | 21 50 41 | 24 14 22 |
| 10 T | 20 22 25 | 2 48 59 | | | | | 18 39 | 23 28 13 | 27 3 47 |
| 11 W | 21 21 14 | 14 40 56 | | | | | | 25 5 45 | 29 52 7 |
| 12 T | 22 20 1 26 | 34 33 | | | 29 34 | 2 27 20 | 2 26 | 43 17 | 2 39 1 |
| 13 F | 23 18 46 | 8 32 47 | | | | | | 28 20 48 | 5 24 58 |
| 14 S | 24 17 29 | 20 37 6 | | | | | 21 18 | 29 58 19 | 8 10 30 |
| 15 S | 25 16 10 | 2 48 50 | | | | | | 1 35 51 | 10 55 32 |
| 16 M | 26 14 50 | 15 9 4 | 26 20 | 9 55 | 29 41 | 2 46 22 | 34 3 | 13 20 | 13 40 16 |
| 17 T | 27 13 27 | 27 38 40 | | | | | | 4 50 50 | 16 24 54 |
| 18 W | 28 12 2 10 | 19 37 | | | | | 23 49 | 6 28 18 | 19 9 39 |
| 19 T | 29 10 36 | 23 13 15 | | | | | | 8 5 47 | 21 54 42 |
| 20 F | 0 8 9 8 | 6 21 32 | | | 29 48 | 3 5 25 | 4 9 | 43 14 | 24 40 35 |
| 21 S | 1 7 38 | 19 46 53 | | | | | | 11 20 41 | 27 27 10 |
| 22 S | 2 6 7 3 | 30 31 | | | | | 26 20 | 12 58 6 | 0 14 23 |
| 23 M | 3 4 34 | 17 33 27 | | | | | | 14 35 30 | 3 3 3 |
| 24 T | 4 3 0 1 | 54 59 | 26 23 | 10 1 | 29 56 | 3 23 27 | 35 16 | 12 53 5 | 53 4 |
| 25 W | 5 1 24 | 16 31 50 | | | | | | 17 50 15 | 8 44 57 |
| 26 T | 5 59 46 | 1 19 19 | | | | | 28 50 | 19 27 35 | 11 38 20 |
| 27 F | 6 58 7 | 16 10 7 | | | | | | 21 4 54 | 14 34 2 |
| 28 S | 7 56 26 | 0 56 13 | | | 0 3 3 | 42 0 5 | 22 42 | 10 17 | 31 42 |
| 29 S | 8 54 44 | 15 30 10 | | | | | | 24 19 26 | 20 32 11 |
| 30 M | 9 52 59 | 20 45 4 | | | | | 1 19 | 25 56 39 | 23 35 25 |

. . . TRANSITS. . . .

APRIL, 1900.

| D D M W | ⊕ H. | D D M S | D D M W | ☾ H. | D D M S | D D M W | ♂ H. | D D M S | D D M W | ♀ H. | D D M S |
|------------|-----------------|------------|------------|-------------------|------------|-----------------|---------|-----------------|------------|---------|------------|
| 20 F | 8 30 to 8 11 41 | 15 S | 17 T | 4 30 to 4 28 40 | 26 T | 6 10 to 6 50 36 | 14 S | 0 30 to 0 40 29 | | | |
| | | | 19 T | 0 1 to 0 26 20 | | | | | | | |
| | | | 22 S | 5 30 to 5 57 30 | | | | | | | |
| | | | | 8 30 to 8 50 34 | 28 S | 8 30 to 8 38 43 | | | | | |
| 3 T | 2 8 to 2 10 13 | 24 T | 26 T | 9 30 to 9 51 51 | | | | | | | |
| 5 T | 8 10 to 8 10 15 | 26 T | 28 S | 10 30 to 10 27 40 | | | | | | | |
| 7 S | 6 30 to 6 47 28 | 28 S | 30 M | 0 8 to 0 25 42 | | | | | | | |
| 10 T | 6 30 to 6 19 49 | 30 M | | | | | | | | | |
| 12 T | 6 30 to 6 53 24 | | | | | | | | | | |

• • • HELIOCENTRIC EPHEMERIS, 1900. • • •

JUNE, 30 DAYS.

| D M | D W | Heliocen- tric Longi- tude. | Geocen- tric Longi- tude. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Heliocen- tric Longi- tude. | Heliocen- tric Longi- tude. |
|--------|--------|-----------------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|
| | | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' | ° ' '' |
| 1 F | 10 | 42 | 45 | 09 | 41 | 58 | | | 20 | 56 |
| 2 S | 11 | 40 | 14 | 13 | 5 | 24 | | | 19 | 3 |
| 3 S | 12 | 37 | 41 | 25 | 15 | 0 | 26 | 1 | 37 | 10 |
| 4 M | 13 | 35 | 7 | 7 | 15 | 11 | | | 22 | 8 |
| 5 T | 14 | 32 | 32 | 19 | 9 | 56 | | | 23 | 19 |
| 6 W | 15 | 29 | 56 | 1 | 3 | 49 | | | 25 | 26 |
| 7 T | 16 | 27 | 19 | 13 | 1 | 24 | 1 | 15 | 6 | 51 |
| 8 F | 17 | 24 | 41 | 25 | 6 | 41 | | | 28 | 37 |
| 9 S | 18 | 22 | 1 | 7 | 23 | 51 | | | 25 | 42 |
| 10 S | 19 | 19 | 21 | 19 | 55 | 47 | | | 1 | 48 |
| 11 M | 20 | 16 | 40 | 2 | 1 | 44 | 12 | 26 | 40 | 10 |
| 12 T | 21 | 13 | 58 | 15 | 50 | 19 | | | 1 | 22 |
| 13 W | 22 | 11 | 15 | 29 | 14 | 13 | | | 7 | 10 |
| 14 T | 23 | 8 | 32 | 12 | 3 | 54 | | | 28 | 5 |
| 15 F | 24 | 5 | 48 | 26 | 47 | 55 | | | 6 | 34 |
| 16 S | 25 | 3 | 4 | 10 | 52 | 11 | 1 | 29 | 7 | 29 |
| 17 S | 26 | 0 | 19 | 25 | 3 | 44 | | | 16 | 9 |
| 18 M | 26 | 57 | 34 | 9 | 3 | 0 | | | 0 | 26 |
| 19 T | 27 | 54 | 49 | 23 | 34 | 37 | 26 | 43 | 10 | 41 |
| 20 W | 28 | 52 | 4 | 7 | 47 | 42 | | | 1 | 37 |
| 21 T | 29 | 49 | 19 | 21 | 55 | 47 | | | 1 | 37 |
| 22 F | 0 | 46 | 23 | 5 | 8 | 7 | | | 2 | 47 |
| 23 S | 1 | 43 | 48 | 19 | 49 | 54 | | | 47 | 1 |
| 24 S | 2 | 41 | 2 | 3 | 1 | 32 | | | 3 | 57 |
| 25 M | 3 | 38 | 16 | 17 | 3 | 8 | | | 7 | 3 |
| 26 T | 4 | 35 | 30 | 0 | 20 | 29 | | | 5 | 6 |
| 27 W | 5 | 32 | 44 | 13 | 23 | 36 | | | 6 | 25 |
| 28 T | 6 | 29 | 58 | 26 | 11 | 48 | 26 | 46 | 10 | 47 |
| 29 F | 7 | 27 | 11 | 8 | 9 | 45 | | | 6 | 16 |
| 30 S | 8 | 24 | 24 | 21 | 4 | 38 | | | 7 | 25 |

. . . TRANSITS. . .

JUNE, 1900.

| D D | ⊕ | D D | ∪ | D D | ♂ | D D | ♀ |
|------|--|------|--|------|---|------|--|
| M W | H M. S. | M W | H M. S. | M W | H M. S. | M W | H M. S. |
| 21 T | 4□ to ♀33 59 ^P _M | 13 W | 1 ♀ to ♀20 45 ^P _M | 16 S | 6 ♀ to ♀32 3 ^P _M | 2 S | 11 ♀ to ♀53 38 ^P _M |
| | | 15 F | 5 ♀ to ♀28 20 ^P _M | | | 7 T | 10 ♀ to ♀33 34 ^P _M |
| | | 17 S | 8 ♀ to ♀19 34 ^P _M | | | 13 W | 1 ♀ to ♀3 45 ^P _M |
| | H. M. S. | 19 T | 10 ♀ to ♀49 52 ^P _M | | H. ♀ M. S. | 19 T | 8 ♀ to ♀35 43 ^P _M |
| 1 F | 10 ♀ to ♀38 59 ^A _M | 22 F | 1 ♀ to ♀47 44 ^P _M | 9 S | 8 ♀ to ♀51 59 ^A _M | 28 T | 8 ♀ to ♀27 12 ^P _M |
| 3 S | 9 ♀ to ♀30 0 ^P _M | 24 S | 5 ♀ to ♀46 36 ^P _M | 28 T | 7 □ to ♀2 23 ^P _M | | |
| 6 W | 9 ♀ to ♀51 34 ^P _M | 26 T | 11 □ to ♀22 25 ^P _M | | | | |
| 8 F | 9 ♀ to ♀36 16 ^P _M | 28 T | 7 ♀ to ♀14 40 ^P _M | | | | |
| 11 M | 6 ♀ to ♀57 37 ^P _M | | | | | | |

HELIOCENTRIC EPHEMERIS, 1900.

JULY, 31 DAYS.

| D M | D W | ⊕ | | | ☾ | | | ♂ | | | ♂ | | | ♀ | | | ♂ | | | | | | | | | | | |
|--------|--------|------------------------------|----|----|---------------------------------|----|----|-----------------------|----|----|-----------------------|----|---|-----------------------|----|----|---------------------------------|----|----|---------------------------------|----|----|----|----|----|----|----|---|
| | | Heliocentric Longi- tude. | | | Geocen- tric Longi- tude. | | | Heliocentric Long. | | | Heliocentric Long. | | | Heliocentric Long. | | | Heliocentric Longi- tude. | | | Heliocentric Longi- tude. | | | | | | | | |
| | | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | ° | ' | " | | | |
| 1 | S | 9 | 26 | 21 | 37 | 3 | 42 | 12 | 52 | | | | | 1 | 26 | 58 | 8 | 44 | 8 | 34 | 5 | 26 | 7 | 3 | 9 | 8 | 45 | 3 |
| 2 | M | 10 | 18 | 50 | 15 | 12 | 9 | | | | | | | | | | | | | | 6 | 41 | 59 | 12 | 44 | 35 | | |
| 3 | T | 11 | 16 | 2 | 27 | 5 | 59 | | | | | | | | | | | | 9 | 43 | 8 | 16 | 54 | 15 | 41 | 31 | | |
| 4 | W | 12 | 13 | 14 | 8 | 59 | 7 | | | | | | | | | | | | | | 9 | 51 | 49 | 18 | 36 | 24 | | |
| 5 | T | 13 | 10 | 26 | 20 | 55 | 49 | 26 | 49 | 10 | 45 | 53 | 2 | 5 | 9 | 3 | 10 | 51 | 11 | 26 | 42 | 21 | 28 | 54 | | | | |
| 6 | F | 14 | 7 | 37 | 3 | 41 | 1 | 13 | | | | | | | | | | | | | 13 | 1 | 35 | 24 | 19 | 52 | | |
| 7 | S | 15 | 4 | 48 | 15 | 19 | 27 | | | | | | | | | | | | 12 | 0 | 14 | 36 | 27 | 27 | 9 | 14 | | |
| 8 | S | 16 | 2 | 0 | 27 | 55 | 0 | | | | | | | | | | | | | | 16 | 11 | 20 | 29 | 57 | 33 | | |
| 9 | M | 16 | 59 | 11 | 10 | 41 | 51 | 49 | | | | | 2 | 13 | 9 | 22 | 13 | 8 | 17 | 46 | 11 | 2 | 44 | 24 | 4 | | | |
| 10 | T | 17 | 56 | 22 | 24 | 11 | 0 | | | | | | | | | | | | | | 19 | 21 | 2 | 5 | 30 | 19 | | |
| 11 | W | 18 | 53 | 33 | 7 | 3 | 53 | 10 | | | | | | | | | | | 14 | 16 | 20 | 55 | 53 | 8 | 15 | 51 | | |
| 12 | T | 19 | 50 | 45 | 21 | 56 | 36 | | | | | | | | | | | | | | 22 | 30 | 44 | 11 | 0 | 52 | | |
| 13 | F | 20 | 47 | 57 | 6 | 33 | 17 | 10 | 26 | 52 | 10 | 58 | 2 | 20 | 9 | 41 | 15 | 24 | 24 | 5 | 35 | 13 | 45 | 36 | | | | |
| 14 | S | 21 | 45 | 9 | 20 | 49 | 25 | | | | | | | | | | | | | | 25 | 40 | 25 | 16 | 30 | 14 | | |
| 15 | S | 22 | 42 | 21 | 5 | 3 | 26 | 8 | | | | | | | | | | | 16 | 31 | 27 | 15 | 16 | 19 | 14 | 59 | | |
| 16 | M | 23 | 39 | 35 | 20 | 1 | 25 | | | | | | | | | | | | | | 28 | 50 | 6 | 22 | 0 | 3 | | |
| 17 | T | 24 | 36 | 47 | 4 | 4 | 29 | 2 | | | | | 2 | 27 | 10 | 0 | 17 | 38 | 0 | 9 | 24 | 57 | 24 | 45 | 57 | | | |
| 18 | W | 25 | 34 | 3 | 18 | 45 | 27 | | | | | | | | | | | | | | 1 | 59 | 48 | 27 | 32 | 34 | | |
| 19 | T | 26 | 3 | 18 | 2 | 47 | 44 | | | | | | | | | | | | 18 | 46 | 3 | 34 | 39 | 0 | 51 | 9 | | |
| 20 | F | 27 | 28 | 35 | 16 | 36 | 4 | | | | | | | | | | | | | | 5 | 9 | 30 | 3 | 8 | 31 | | |
| 21 | S | 28 | 25 | 52 | 0 | 4 | 9 | 38 | 26 | 55 | 11 | 4 | 2 | 34 | 10 | 19 | 19 | 52 | 6 | 44 | 23 | 5 | 58 | 34 | | | | |
| 22 | S | 29 | 23 | 9 | 13 | 29 | 46 | | | | | | | | | | | | | | 8 | 19 | 14 | 8 | 50 | 31 | | |
| 23 | M | 0 | 9 | 20 | 28 | 26 | 37 | 23 | | | | | | | | | | | 20 | 59 | 9 | 54 | 7 | 11 | 43 | 57 | | |
| 24 | T | 1 | 17 | 48 | 9 | 23 | 56 | | | | | | | | | | | | | | 11 | 29 | 0 | 14 | 39 | 44 | | |
| 25 | W | 2 | 15 | 8 | 22 | 16 | 36 | | | | | | 2 | 42 | 10 | 38 | 22 | 5 | 13 | 3 | 54 | 17 | 37 | 28 | | | | |
| 26 | T | 3 | 12 | 29 | 4 | 9 | 38 | | | | | | | | | | | | | | 14 | 38 | 48 | 20 | 38 | 2 | | |
| 27 | F | 4 | 9 | 51 | 17 | 11 | 46 | | | | | | | | | | | | 23 | 11 | 16 | 13 | 43 | 23 | 41 | 22 | | |
| 28 | S | 5 | 7 | 13 | 29 | 23 | 52 | | | | | | | | | | | | | | 17 | 48 | 38 | 26 | 48 | 3 | | |
| 29 | S | 6 | 4 | 36 | 11 | 4 | 27 | 0 | 26 | 58 | 11 | 10 | 2 | 49 | 10 | 57 | 24 | 17 | 19 | 23 | 35 | 29 | 39 | 57 | 43 | | | |
| 30 | M | 7 | 2 | 0 | 23 | 22 | 55 | | | | | | | | | | | | | | 20 | 58 | 31 | 39 | 11 | 18 | | |
| 31 | T | 7 | 59 | 24 | 5 | 14 | 47 | | | | | | | | | | | | 25 | 23 | 22 | 33 | 30 | 6 | 28 | 47 | | |

. . . TRANSITS. . .

JULY, 1900.

| D | ⊕ | D | D | ⊙ | D | D | ♀ | D | ♂ |
|----|---|------|------|------|-------|------|------|------|-------|
| H. | M. S. | M | W | H. | M. S. | M | W | H. | M. S. |
| 2S | 7 ₂ toΩ 12 12 _M | 13 F | 15 S | 17 T | 19 T | 21 S | 23 M | 25 F | 27 M |
| | ⊙ | | | | | | | | |
| | H. M. S. | | | | | | | | |
| 1S | 5Ω to 7 ₂ 38 1 _A | 21 S | 23 M | 25 F | 27 M | 29 S | 31 T | 33 F | 35 M |
| 3T | 5 ₂ to⊕ 52 15 _M | 23 M | 25 F | 27 M | 29 S | 31 T | 33 F | 35 M | 37 S |
| 6F | 6⊕ to 5 ₂ 6 11 _M | 26 T | 28 S | 30 M | 32 F | 34 M | 36 S | 38 M | 40 F |
| 8S | 3 _M to 6 53 14 _M | 28 S | 30 M | 32 F | 34 M | 36 S | 38 M | 40 F | 42 S |
| 0T | 10 6 to 3 _M 15 31 _M | 31 T | 33 F | 35 M | 37 S | 39 M | 41 F | 43 M | 45 S |

HELIOCENTRIC EPHEMERIS, 1900.

AUGUST, 31 DAYS.

| D | D | ⊕ | ⊙ | ♂ | ♂ | ♂ | ♂ | ♂ | ♀ | ♀ |
|----|---|-----------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------------|-----------------------------------|
| M | W | Heliocen- tric Longi- tude. | Geocen- tric Longi- tude. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Heliocen- tric Longi- tude. | Heliocen- tric Longi- tude. |
| | | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | W | 8 56 49 | 17 5 56 | | | | | | 24 8 28 | 9 50 27 |
| 2 | T | 9 54 15 | 29 0 29 | | | 2 25 56 | 11 16 26 | 26 28 | 25 43 28 | 13 16 39 |
| 3 | F | 10 51 42 | 11 3 6 | | | | | | 27 18 28 | 16 48 0 |
| 4 | S | 11 49 9 | 23 19 10 | | | | | 27 33 | 28 53 30 | 20 24 34 |
| 5 | S | 12 46 37 | 5 1 53 | | | | | | 0 28 50 | 24 6 40 |
| 6 | M | 13 44 5 | 18 50 52 | 27 1 11 | 11 16 | 3 | 3 11 | 35 28 | 38 2 3 | 54 27 54 40 |
| 7 | T | 14 41 35 | 2 14 38 | | | | | | 3 38 58 | 1 49 17 |
| 8 | W | 15 39 5 | 16 5 52 | | | | | 29 43 | 5 14 5 | 5 50 33 |
| 9 | T | 16 36 36 | 0 23 27 | | | | | | 6 49 11 | 9 58 51 |
| 10 | F | 17 34 9 | 15 3 31 | | | 3 10 | 11 54 | 0 1 48 | 8 24 19 | 14 14 34 |
| 11 | S | 18 31 42 | 29 58 50 | | | | | | 9 59 28 | 18 38 21 |
| 12 | S | 19 29 35 | 15 30 12 | | | | | 1 52 | 11 34 39 | 23 10 14 |
| 13 | M | 20 27 11 | 29 57 55 | | | | | | 13 9 49 | 27 50 32 |
| 14 | T | 21 24 49 | 14 19 27 | 27 3 11 | 21 3 | 18 12 | 14 2 | 56 14 | 45 2 2 | 39 33 |
| 15 | W | 22 22 28 | 29 12 28 | | | | | | 16 20 16 | 7 37 28 |
| 16 | T | 23 20 8 | 13 19 49 | | | | | 4 0 | 17 55 31 | 12 44 45 |
| 17 | F | 24 17 50 | 27 5 16 | | | | | | 19 30 47 | 18 0 52 |
| 18 | S | 25 15 34 | 10 30 24 | | | 3 25 | 12 33 | 5 4 | 21 6 5 | 23 26 4 |
| 19 | S | 26 13 19 | 23 37 23 | | | | | | 22 41 24 | 29 0 12 |
| 20 | M | 27 11 6 | 6 28 53 | | | | | 6 7 | 24 16 45 | 4 42 57 |
| 21 | T | 28 8 55 | 19 7 11 | | | | | | 25 52 6 | 10 33 34 |
| 22 | W | 29 6 46 | 1 34 32 | 27 6 11 | 27 3 | 32 12 | 52 7 | 10 27 | 27 29 16 | 31 43 |
| 23 | T | 0 4 37 | 13 52 58 | | | | | | 29 2 53 | 22 36 16 |
| 24 | F | 1 2 31 | 26 3 7 | | | | | 8 13 | 0 38 20 | 28 46 16 |
| 25 | S | 2 0 26 | 8 6 0 | | | | | | 2 13 46 | 5 0 33 |
| 26 | S | 2 58 23 | 20 3 16 | | | 3 39 | 13 11 | 9 16 | 3 49 15 | 11 18 8 |
| 27 | M | 3 56 21 | 1 55 53 | | | | | | 5 24 45 | 17 36 58 |
| 28 | T | 4 54 20 | 13 45 39 | | | | | 10 18 | 7 0 17 | 23 55 54 |
| 29 | W | 5 52 21 | 25 35 40 | | | | | | 8 35 49 | 0 13 25 |
| 30 | T | 6 50 24 | 7 28 16 | 27 9 11 | 33 3 | 46 13 | 30 11 | 21 10 | 11 24 6 | 28 0 |
| 31 | F | 7 48 28 | 19 25 55 | | | | | | 11 46 59 | 12 38 32 |

. . . TRANSITS. . .

AUGUST, 1900.

[illegible]

☉ ☉ ☉ ☉ HELIOCENTRIC EPHEMERIS, 1900. ☉ ☉ ☉ ☉

OCTOBER, 31 DAYS.

| D | D | ☉ | ☽ | ♄ | ♅ | ♁ | ♂ | ♀ | ♂ |
|----|---|-----------------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|
| M | W | Heliocen- tric Longi- tude. | Geocen- tric Longi- tude. | Helioc- entric Long. | Helioc- entric Long. | Helioc- entric Long. | Helioc- entric Long. | Heliocen- tric Longi- tude. | Heliocen- tric Longi- tude. |
| | | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | M | 8 ^h 3 33 | 6 ^h 3 19 | 27 1 21 | 11 11 56 | 42 ^h 54 | 16 11 3 | 27 1 31 | 1 1 23 33 21 8 34 22 |
| 2 | T | 9 2 37 | 19 16 57 | | | | | 3 0 19 | 24 25 17 |
| 3 | W | 10 1 43 | 2 ^h 57 55 | | | | | 28 30 | 4 36 50 27 14 36 |
| 4 | T | 11 0 50 | 17 7 29 | | | | | 6 13 21 | 0 11 2 52 |
| 5 | F | 11 59 59 | 1 ^h 43 47 | | | 4 51 | 16 22 29 | 29 7 50 55 | 2 49 42 |
| 6 | S | 12 59 7 | 16 42 48 | | | | | 9 26 30 | 5 35 36 |
| 7 | S | 13 58 22 | 1 ^h 55 54 | | | | | 0 ^h 3 27 | 11 3 8 8 21 6 |
| 8 | M | 14 57 37 | 17 13 20 | | | | | 12 39 46 | 11 6 7 |
| 9 | T | 15 56 54 | 2 ^h 8 23 59 | 27 24 12 | 2 4 59 | 16 41 | 1 26 14 | 16 28 13 | 50 50 |
| 10 | W | 16 56 13 | 17 17 58 | | | | | 15 53 10 | 16 35 29 |
| 11 | T | 17 55 54 | 1 ^h 48 31 | | | | | 2 24 17 | 29 55 19 20 14 |
| 12 | F | 18 54 57 | 15 51 50 | | | | | 19 6 41 | 22 5 38 |
| 13 | S | 19 54 23 | 29 27 39 | | | 5 6 17 | 0 3 22 | 20 43 27 | 24 51 14 |
| 14 | S | 20 53 51 | 12 ^h 37 16 | | | | | 22 20 10 | 27 37 53 |
| 15 | M | 21 53 21 | 25 23 46 | | | | | 4 20 23 | 57 11 0 ^h 25 10 |
| 16 | T | 22 52 54 | 7 ^h 51 24 | | | | | 25 34 4 | 3 13 54 |
| 17 | W | 23 52 29 | 20 4 27 | 27 27 12 | 7 5 13 | 17 20 | 5 18 | 27 11 0 | 6 4 19 |
| 18 | T | 24 52 6 | 2 ^h 7 4 | | | | | 28 47 56 | 8 56 0 |
| 19 | F | 25 51 45 | 14 2 42 | | | | | 6 16 0 ^h 3 24 | 56 11 49 30 |
| 20 | S | 26 51 27 | 25 54 36 | | | | | 2 1 55 | 14 45 21 |
| 21 | S | 27 51 11 | 7 ^h 45 11 | | | 5 20 17 | 39 7 13 | 3 38 58 | 17 43 28 |
| 22 | M | 28 50 57 | 19 36 56 | | | | | 5 16 1 | 20 43 48 |
| 23 | T | 29 50 44 | 1 ^h 31 26 | | | | | 8 10 6 | 53 8 23 47 32 |
| 24 | W | 0 ^h 50 34 | 13 30 24 | | | | | 8 30 14 | 26 54 0 |
| 25 | T | 1 50 26 | 25 35 34 | 27 30 12 | 13 5 28 | 17 58 | 9 8 10 | 7 24 0 | 11 3 47 |
| 26 | F | 2 50 20 | 7 ^h 49 11 | | | | | 11 44 33 | 3 17 29 |
| 27 | S | 3 50 15 | 20 13 29 | | | | | 10 5 13 | 21 46 6 35 5 |
| 28 | S | 4 50 13 | 2 ^h 51 8 | | | | | 14 58 58 | 9 56 53 |
| 29 | M | 5 50 12 | 15 44 59 | | | 5 35 18 | 17 11 | 2 16 36 | 14 13 23 32 |
| 30 | T | 6 50 12 | 28 58 2 | | | | | 18 13 29 | 16 54 44 |
| 31 | W | 7 50 14 | 12 ^h 32 32 | | | | | 11 58 19 | 50 47 20 31 27 |

. . . TRANSITS. . . .

OCTOBER, 1900.

| D | D | ⊕ | D | D | ☾ | D | D | ♂ | D | D | ♀ | | | |
|----|---|---|----|----|---|----|----|---|----|---|--|----|----|--|
| M | W | H. | M. | S. | M. | W | H. | M. | S. | M | W | H. | M. | S. |
| 23 | T | 3 ^h 45 50 ^p _M | 11 | T | 8 8 to 11 55 46 ^p _M | 6 | S | 1 1 ^h to 3 41 49 ^p _M | 4 | T | 11 8 to 11 35 15 ^p _M | 15 | M | 8 11 to 8 23 30 ^p _M |
| | | ☾ | 13 | S | 0 11 to 2 58 44 ^p _M | | | | 15 | M | 8 11 to 8 23 30 ^p _M | 25 | T | 11 5 to 11 31 34 ^p _M |
| | | H. | 15 | M | 8 25 to 9 50 12 ^p _M | | | ♀ | 25 | T | 11 5 to 11 31 34 ^p _M | | | |
| | | M. | 18 | T | 7 9 to 11 44 20 ^p _M | | | H. | | | | | | |
| 1 | M | 0 1 ^h to 1 42 24 ^p _M | 20 | S | 8 11 to 9 17 45 ^p _M | 19 | F | 5 1 ^h to 3 55 33 ^p _M | | | | | | |
| 3 | W | 6 13 to 7 55 53 ^p _M | 23 | T | 8 4 to 11 56 24 ^p _M | | | | | | | | | |
| 5 | F | 9 30 to 11 58 53 ^p _M | 25 | T | 8 11 to 1 41 33 ^p _M | | | | | | | | | |
| 7 | S | 8 13 to 9 58 3 ^p _M | 28 | S | 6 1 ^h to 1 41 25 ^p _M | | | | | | | | | |
| 9 | T | 8 13 to 9 16 16 ^p _M | 30 | T | 1 13 to 2 50 15 ^p _M | | | | | | | | | |

NOVEMBER, 30 DAYS.

. . . HELIOCENTRIC EPHEMERIS, 1900. . . .

DECEMBER, 31 DAYS.

| D | D | ⊕ | ☾ | ♄ | ♅ | ♆ | ♁ | ♂ | ♀ | ♂ |
|----|---|-----------------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|
| M | W | Heliocen- tric Longi- tude. | Geocen- tric Longi- tude. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Helio- centric Long. | Heliocen- tric Longi- tude. | Heliocen- tric Longi- tude. |
| | | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " | ° / " |
| 1 | S | 9 1 5 35 | 5 15 56 | | | | | | 10 12 38 | 6 23 53 |
| 2 | S | 10 6 26 19 | 4 16 | | | | | 26 48 | 11 50 41 | 56 19 |
| 3 | M | 11 7 18 | 4 19 26 | | | | | | 13 27 30 | 17 19 24 |
| 4 | T | 12 8 11 18 | 5 28 27 | 1 44 12 | 12 42 | 6 40 21 | 11 27 | 43 15 | 4 54 22 | 33 13 |
| 5 | W | 13 9 5 | 3 24 16 | | | | | | 16 42 17 | 27 37 2 |
| 6 | T | 14 9 59 17 | 42 40 | | | | | 28 37 | 18 19 38 | 2 31 33 |
| 7 | F | 15 10 55 | 1 45 0 | | | | | | 19 56 59 | 7 16 16 |
| 8 | S | 16 11 52 15 | 26 46 | | | 6 47 21 | 30 29 | 32 21 | 34 17 11 | 52 5 |
| 9 | S | 17 12 50 28 | 46 24 | | | | | | 23 11 35 | 16 18 58 |
| 10 | M | 18 13 49 11 | 43 59 | | | | | 0 26 | 24 48 50 | 20 37 37 |
| 11 | T | 19 14 48 24 | 20 26 | | | | | | 26 26 52 | 47 47 |
| 12 | W | 20 15 49 6 | 38 46 | 27 47 | 12 48 | 6 54 21 | 49 1 | 20 28 | 3 16 28 | 50 32 |
| 13 | T | 21 16 51 18 | 43 24 | | | | | | 29 40 27 | 2 45 57 |
| 14 | F | 22 17 54 0 | 38 33 | | | | | 2 14 | 1 17 34 | 6 34 48 |
| 15 | S | 23 18 58 12 | 29 25 | | | | | | 2 54 41 | 10 17 12 |
| 16 | S | 24 20 3 24 | 20 35 | | | 7 1 22 | 9 3 | 8 4 | 31 44 13 | 53 34 |
| 17 | M | 25 21 9 6 | 16 28 | | | | | | 6 8 47 | 17 24 19 |
| 18 | T | 26 22 16 18 | 21 53 | | | | | 4 2 | 7 45 46 | 20 50 8 |
| 19 | W | 27 23 23 0 | 1 39 28 | | | | | | 9 22 45 | 24 11 7 |
| 20 | T | 28 24 31 13 | 11 53 | 27 50 | 12 53 | 7 9 22 | 28 4 | 56 10 | 59 39 27 | 27 37 |
| 21 | F | 29 25 39 26 | 0 26 | | | | | | 12 36 33 | 0 40 0 |
| 22 | S | 0 26 49 9 | 4 58 | | | | | 5 50 | 14 13 22 | 3 48 53 |
| 23 | S | 1 27 28 22 | 26 22 | | | | | | 15 50 11 | 6 54 0 |
| 24 | M | 2 29 8 6 | 1 10 | | | 7 16 22 | 47 6 | 43 17 | 26 55 9 | 56 15 |
| 25 | T | 3 30 17 19 | 47 5 | | | | | | 19 3 39 | 12 55 56 |
| 26 | W | 4 31 27 3 | 42 10 | | | | | 7 37 | 20 40 18 | 15 52 43 |
| 27 | T | 5 32 37 17 | 43 35 | | | | | | 22 16 57 | 18 47 28 |
| 28 | F | 6 33 47 1 | 49 25 | 27 53 | 12 59 | 7 23 23 | 7 8 | 31 23 | 53 31 21 | 39 51 |
| 29 | S | 7 34 57 15 | 57 51 | | | | | | 25 29 46 | 24 30 43 |
| 30 | S | 8 36 6 0 | 8 7 16 | | | | | 9 24 | 27 6 14 | 27 19 58 |
| 31 | M | 9 37 16 14 | 16 25 | | | | | | 28 42 42 | 0 8 13 |

. . . TRANSITS. . . .

DECEMBER, 1900.

| D | D | ⊕ | D | D | ☾ | D | D | ♂ | D | D | ♀ | | | | |
|----|---|-------------|------------------------------|----|---|--------------|------------------------------|----|----|-------------|------------------------------|----|----|--------------|------------------------------|
| M | W | H. | M. | S. | M | W | H. | M. | S. | M | W | H. | M. | S. | |
| 22 | S | 1 ♀ to ♀ 37 | 41 ^A _M | 11 | T | 10 ♀ to ♀ 59 | 22 ^P _M | 9 | S | 1 ♀ to ♀ 55 | 46 ^P _M | 6 | T | 0 ♀ to ♀ 7 | 41 ^A _M |
| | | | | 14 | F | 10 ♀ to ♀ 41 | 47 ^A _M | | | | | 12 | W | 7 ♀ to ♀ 8 | 37 ^P _M |
| | | | | 16 | S | 11 ♀ to ♀ 24 | 18 ^P _M | | | | | 21 | F | 6 ♀ to ♀ 54 | 42 ^A _M |
| | | | | 19 | W | 10 ♀ to ♀ 44 | 5 ^A _M | | | | | 31 | M | 10 ♀ to ♀ 49 | 6 ^P _M |
| | | ☾ | | | | | | | | ♀ | | | | | |
| | | H. | M. | S. | | | | H. | M. | S. | | | | | |
| 1 | S | 3 ♀ to ♀ 12 | 51 ^A _M | 21 | F | 7 ♀ to ♀ 22 | 0 ^P _M | 13 | T | 4 ♀ to ♀ 51 | 48 ^P _M | | | | |
| 3 | M | 4 ♀ to ♀ 53 | 17 ^A _M | 24 | M | 1 ♀ to ♀ 25 | 45 ^A _M | | | | | | | | |
| 5 | W | 6 ♀ to ♀ 17 | 43 ^A _M | 26 | W | 5 ♀ to ♀ 40 | 24 ^A _M | | | | | | | | |
| 7 | F | 8 ♀ to ♀ 57 | 3 ^A _M | 28 | F | 8 ♀ to ♀ 53 | 55 ^A _M | | | | | | | | |
| 9 | S | 2 ♀ to ♀ 15 | 47 ^P _M | 30 | S | 11 ♀ to ♀ 43 | 13 ^A _M | | | | | | | | |



This instrument is probably the most perfect mechanical device yet constructed for finding the rising sign, as it gives the degree of that sign's elevation above the horizon for any Latitude between 22° and 55°, which embraces nearly the whole civilized world. It will be a great convenience to astrologers; and those who doubt the influence of the zodiacal signs, or those who wish to experiment upon such influence, will find,—by having this Indicator at hand and watching the change of their mental and physical states with the changing signs,—that not only will their own experience convince them of the reality of zodiacal influence, but that a new field of experimentation, most interesting and profitable, will be open to them. (Everyone is not sufficiently sensitive to feel these changes, but, in most instances, the observer will be quite conscious of them.) The Indicator is neatly and durably constructed, and, with proper care, will last for years. Sent by mail, postage paid, for \$1.00.

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