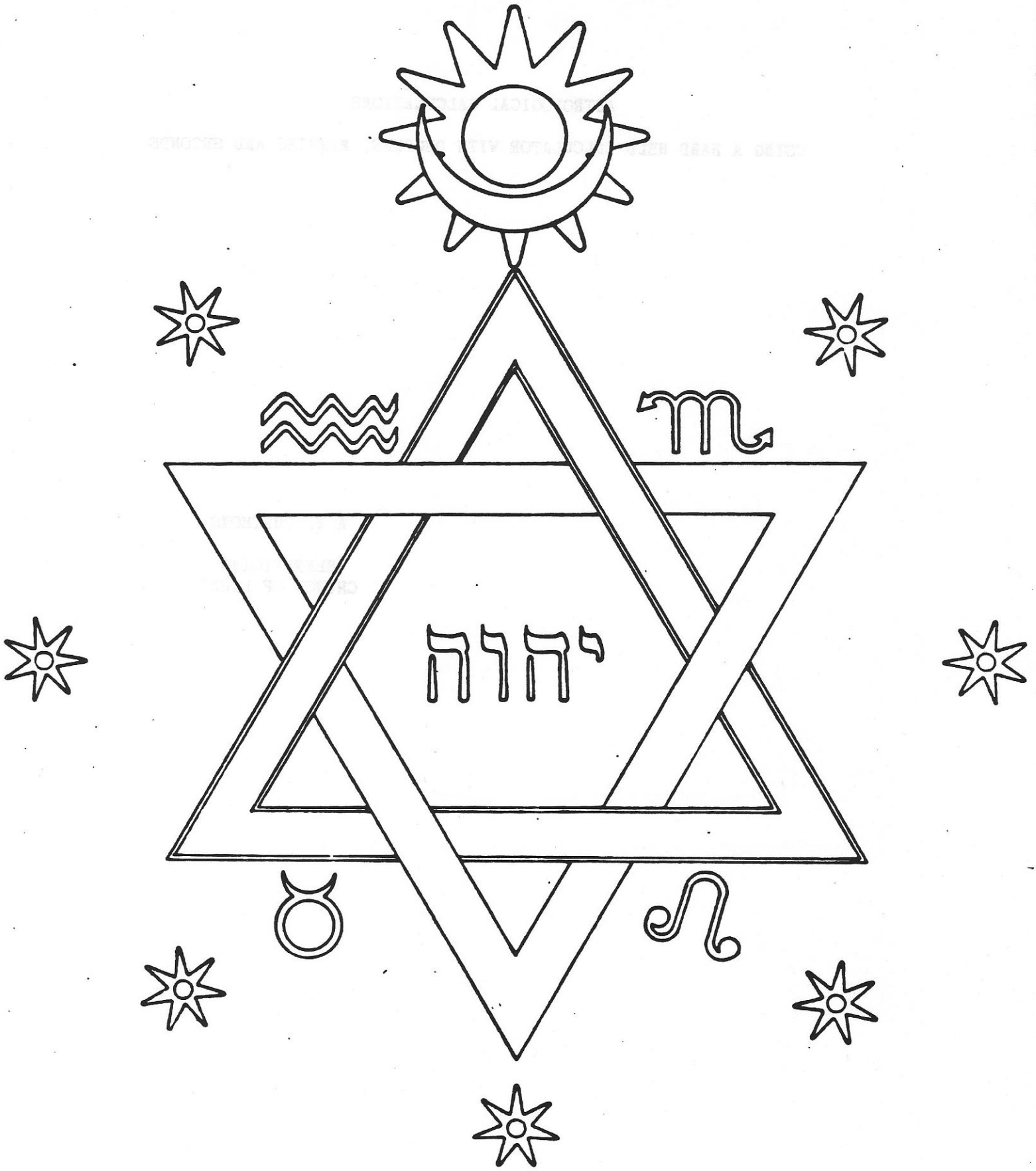
ASTROLOGICAL CALCULATIONS

USING A HAND HELD CALCULATOR WITH DEGREES, MINUTES AND SECONDS

A.W. CURTHOYS

HERMETICIAN
CHURCH OF LIGHT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Religion Of The Stars Constellation Chart

Church Of Light - Los Angeles.

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PREFACE

This manuscript goes forward with the sincere hope that it will assist today's student and astrologer to acquire the technique and expertise of using a modern hand held calculator with degrees, minutes and second capability.

Only one mathematical operation is necessary in solving the ordinary problems of astrological calculations and that is the one of interpolation. Normally all that transpires is solving for an unknown value between two rows of known values.

Imagine if you will that the degree's, minutes and seconds given in any Table of Houses or Ephemeris to be condensed into one single number. Then, for instance, 2 in any one row would relate to 4 in another. The next row would state that 4 relates to 6. The problem is we wish to know what 3 relates to. So we would set our problem on paper as follows.

4 = 6
3 = ?
2 = 4

Taking 2 from 3 and 2 from 4 shows that 3 is one half the distance between 2 and 4. Since 4 from 6 = 2 the value sought is one to be added to 4 giving an answer of 5.

4 = 6
3 = ?
2 = 4
½ x 2 = 1

All the calculations in this paper have been done that way. For the benifit of those who are unfamiliar with a calculator a review of the basic manipulations is given.

HAND CALCULATOR PRELIMINARIES

TO ADD 2 + 2

PRESS 2
PRESS +
PRESS 2
PRESS = ANSWER = 4

TO ADD 47.6782 + 37.6287

PRESS 47.6782
PRESS +
PRESS 37.6287
PRESS = ANSWER = 85.3069

TO SUBTRACT 6 - 4

PRESS 6
PRESS -
PRESS 4
PRESS = ANSWER = 2

TO SUBTRACT 476.3241 - 321.4132

PRESS 476.3241
PRESS -
PRESS 321.4132
PRESS = ANSWER = 154.9109

TO MULTIPLY 2 X 2

PRESS 2
PRESS X
PRESS 2
PRESS = ANSWER 4

TO MULTIPLY 263.713 X 32.4321

PRESS 263.713
PRESS X
PRESS 32.4321
PRESS = ANSWER = 8552.7664

TO DIVIDE 8 ÷ 2

PRESS 8
PRESS ÷
PRESS 2
PRESS = ANSWER = 4

TO DIVIDE 374.4411 BY 291.3678

PRESS 374.4411
PRESS ÷
PRESS 291.3678
PRESS = ANSWER 1.2851149

TO ADD ASTROLOGICAL TERMS YOU MUST FIRST CHANGE TO A DECIMAL

19° Ari 16′ 31′′ + 8° Ari 14′ 41′′

PRESS 19.1631
PRESS 2nd
PRESS DMS:DD ANSWER 19.275278
PRESS STO 4

PRESS 8.1441
PRESS 2nd
PRESS DMS:DD ANSWER 8.2447222
PRESS STO 5

PRESS RCL 4
PRESS +
PRESS RCL 5
PRESS = ANSWER 27.52

PRESS INV
PRESS 2nd
PRESS DMS:DD ANSWER 27.3112
27° Ari 31′ 12′′

FOR PRACTICE ADD 10 ° Tau 14′ 11′′ + 28° Tau 58′ 44′′ = 39° Tau 12′ 55′′
9° Gem 12′ 55′′

AND 9° Leo 36′′ 55′′ + 8° Leo 41′ 49′′ = 18° Leo 18′ 44′′

TO SUBTRACT ASTROLOGICAL TERMS YOU MUST FIRST CHANGE TO A DECIMAL

29 Vir 33′ 14′′ - 14 Vir 44′ 36′′

PRESS 29.3314
PRESS 2nd
PRESS DMS:DD ANSWER 29.553889
STO 4

PRESS 14.4436
PRESS 2nd
PRESS DMS:DD ANSWER 14.743333
PRESS STO 5

PRESS RCL 5
PRESS -
PRESS RCL 4
PRESS = ANSWER 14.810556
PRESS INV
PRESS 2nd
PRESS DMS:DD ANSWER 14.4838
14 Vir 48′ 38′′

FOR PRACTICE FROM 9 Gem 09′ 19′′ SUBTRACT 10 Tau 11′ 21′′
39 Tau 09′ 19′′ - 10 Tau 11′ 21′′ = 28 Tau 57′ 58′

FROM 28 Can 45′ 38′′ SUBTRACT 12 Can 22′ 29′′
28 Can 45′ 38′′ - 12 Can 22′ 29′′ = 16 Can 23′ 09′′

ASTROLOGICAL VALUES NOW CONVERTED TO DECIMALS CAN ALSO BE MULTIPLIED AND DIVIDED BY OTHER TERMS SUCH AS THE E.G.M.T.I., LATITUDE CORRECTION, AND HOUSE CUSP CORRECTIONS WHEN ALSO CONVERTED TO DECIMAL VALUES.

EXAMPLE

THE MOON'S DAILY MOTION WAS FOUND TO BE 12° 25′ 27′′ AND THE E.G.M.T.I. WAS FOUND TO BE 16H 35′ 46′′

PRESS 12.2527
PRESS 2nd
PRESS DMS:DD
PRESS = ANSWER 12.424167
STO 1

PRESS 16.3546
PRESS 2nd
PRESS DMS:DD
PRESS = ANSWER 16.596111
PRESS ÷
PRESS 24 ANSWER 0.6915046
PRESS STO 2

PRESS RCL 1
PRESS X
PRESS RCL 2
PRESS = ANSWER 8.5913688

PRESS INV
PRESS 2nd
PRESS DMS:DD
PRESS = ANSWER 8.3528928 OR 8° 35′ 28.928′′ OR 8° 35′ 29′′

FOR PRACTICE MULTIPLY 13° 40′ 55′′ X 6H 22′ 59′′

ANSWER 3° 38′ 19.892′′ OR 3° 38′ 20′′

SIGNS AND THEIR OPPOSITES

1.	ARIES	7.	LIBRA
2.	TAURUS	8.	SCORPIO
3.	GEMINI	9.	SAGITTARIUS
4.	CANCER	10.	CAPRICORN
5.	LEO	11.	AQUARIUS
6.	VIRGO	12.	PISCES

SYMBOLS OF THE PLANETS

1.	SUN	6.	JUPITER
2.	MOON	7.	SATURN
3.	MERCURY	8.	URANUS
4.	VENUS	9.	NEPTUNE
5.	MARS	10.	PLUTO

TABLE OF ZODICAL LONGITUDE

60 SECONDS	(60'')	makes one MINUTE
60 MINUTES	(60')	makes one DEGREE
30 DEGREES	(30°)	makes one SIGN
12 SIGNS	(12S)	makes one ZODIAC
360 DEGREES		makes one CIRCLE

TABLE OF TIME

60 SECONDS	(60'')	makes one MINUTE
60 MINUTES	(60')	makes one HOUR
24 HOURS	(24H)	makes one DAY (d)

SECTION ONE

LOCAL MEAN TIME IS THE DOMINANT FACTOR

The position of an object or an event cannot be completely defined by three dimensions. When we say that a certain individual was on the street level at the intersection of Seventh and Broadway in Los Angeles, full information is not yet at hand. It was Einstein who first emphasized the importance of time as the fourth dimension. And the relation of velocity to time is a significant factor in explaining the release of planatary energies by progressed aspects which time and indicate the probable nature of the events that will enter a person's life. But even in such a simple matter as locating an individual in Los Angeles, in addition to the three dimensions-street level, Seventh Street, and Broadway-the fourth dimension, time must be added. It must be stated he was there on a given day of a given year at a specific time of day.

In like manner, to locate a birth, while the surface of the earth gives one dimension, we must ascertain the latitude of birth-the distance north or south of the earth's equator and the longitude of birth-the distance east or west of Greenwich. When the town or city in which, or near which, birth took place is known, the latitude and longitude of birth may be ascertained from a map or atlas. They are expressed usually in °s and ′s and in the AFA Astrological Atlas of the United States in °s and tenths of ′s which may be expressed as ′′s.

Latitude and Longitude of birth on the surface of the earth, however do not completely locate the birth. To these data, which are essential to the erection of a birth chart, must be added the year, month, day of month and time of day when the birth took place.

Unfortunately for simplicity, the kind of time used in a given locality at different periods has been made a football of politicians. At various periods they have installed different systems of recording time. Yet as a correct chart cannot be erected unless the time used at the place of birth is known, this matter of ascertaining what kind of time was used on a given date, while often quite complicated, is of the utmost importance. And before any attempt is made to erect a chart of birth, positive information should be gained not merely as to the time of day the birth took place, but as to the kind of time used in recording it.

The Dominant Factor-As the astronomical data given in the ephemerides is calculated for Mean Time, unless the time of birth is given in terms of local mean time it becomes necessary to convert the recorded time

into local mean time. Because it is necessary first to find Local Mean Time before any of the other calculations can be made, it is called the DOMINANT FACTOR.

The first step in calculating any horoscope, therefore, is to ascertain this DOMINANT FACTOR, or Local Mean Time. And this necessitates a consideration of the various systems of recording time that have been employed, and how to convert the time thus recorded into local mean time.

In some countries, notably Russia, the Julian Calendar was used up to the time of the revolution in 1917. But there were exceptions, as some places on the Black Sea used the calendar of their neighbors. When however, the date is given Old Style, as it was reckoned in Russia, it must be converted into the Gregorian Calendar, or New Style, because the ephemeris is calculated New Style. This is done by adding 12 days to Old Style dates occuring in the 19th Century, and by adding 13 days to Old Style dates since 1900. Thus Josef Stalin's birth, according to his mother, occurred Decenber 21, 1879, Old Style. Adding 12 days to this date brings us to January 2, 1880, as the date for which his birth-chart should be erected.

Before November 18, 1883, at noon, in the United States, and before 1880 in Great Britain, it was customary to use local mean time. Therefore the times of such births usually need no conversion, for as recorded they represent the DOMINANT FACTOR.

Such use of local mean time required that every place having a different longitude should have a different time. This was not only a nuisance, but as railroads stretched across the continent it became too impracticle to tolerate. That clocks in different longitudes might either keep identical time, or show differences easily adjusted, Standard Time was adopted in the United States and in most countries of the world.

The United States is divided into six Standard Time Zones each containing 15° longitude. The standard meridian for Eastern Time is 75°, or 5 hours, west; the standard meridian for Central Time is 90°, or 6 hours west; the standard meridian for Mountain Time is 105°, or 7 hours west; and the standard meridian for Pacific Time is 120°, or 8 hours, west. Puerto Rico has a further zone, called Atlantic Time, which is but 4 hours west. Hawaii and Alaska use 150° west.

Standard Time is a logical necessity in this day of swift travel and instantaneous long distance communication. Nor is there anything complicated about it. The complication arose when Daylight Saving Time was adopted in many countries during World War I. It was in general

use in the U.S. during 1918 and 1919. and continued in use in some sctions of the country up to the date of World War II. And while Daylight Saving Time was made legal in these communities, it so complicated railroad schedules that the railroads, to conform to the time used in other localities on their route, used Standard Time. Thus for years there were towns in the Eastern U.S. that were using two kinds of time.

During World War II, starting May 3, 1941, and lasting to August 9, England each year used Double Summer Time, the clock two hours ahead of Standard Time in summer, and having it one hour ahead during the balance of the year. In the United States War Time commenced February 9, 1942, 2:00 a.m. and ended September 30, 1945. The clock was set one hour ahead of Stamdard Time, not merely during summer, but for the whole year.

Daylight Saving Time in 1918 was in use in the U.S. from March 31 to October 27, and in 1919 from March 30 to October 26, but where continued the change date varied. When the birth is timed according to the Double Summer Time of England, it became necessary to subtract two hours from the clock to get Standard Time. When the birth is timed according to Daylight Saving Time, or War Time, such as was used in the U.S., it becomes necessary to subtract one hour from the clock to get the Standard Time. In the years between World War I and World War II careful inquiry should be made to be sure which time was used in the record. Two good sources of information are The American Atlas and Time Changes in the U.S.A.

When the time of birth is recorded in Standard Time, or is converted from Daylight Saving Time or War Time into Standard Time by subtracting one hour, we must next know what Standard Time Zone was used.

Theoretically, all places 7½° east and 7½° west of a standard meridian should keep the same time. As a matter of fact, railroad divisions and natural boundaries greatly influence the actual place where time changes are made. Futhermore, the dividing line where such changes of time take place has not remained constant., but has shifted along with railroad changes and the development of certain regions.

All of us are aware, through listening to either radio or T.V. broadcasts, that time is later in England than in the United States; and those west of the Eastern Time Zone are aware that time in New York or Washington is later than it is in the other U.S. Time Zones. For instance, those on the West Coast must turn on their radios or T.V.'s at 9:00 a.m. to listen to a presidential speech given from the White House in Washington D.C. at noon. From everyday experience we become aware

that there is a close relationship between longitude and time.

One complete revolution of the earth on its axis, which is the time between two successive transits of the sun's semi-diameter across the same meridian, measures 24 hours. In the complete revolution the 360° of geographical longitude measuring the earth's circumference pass under the sun at meridian every hour. Dividing 360° by 24 gives 15° that pass under the sun at meridian every hour. Dividing this hour of 60′ by 15 gives 4′ as the time required for 1° longitude to pass under the sun at meridian.

For reckoning distance on any circle a starting point must be selected. This is true not only relative to the circle along which geographical longitude is measured, but also of the circle along which is measured time. And to use as such a Prime Meridian from which to compute geographical longitude, and to use as a standardized time reference in locating the position of the heavenly bodies, the longitude of Greenwich, England, is considered as 0° and 0 hours, and the universally accepted starting point. Any adequate map indicates how many degrees and minutes each important geographical area is east or west of Greenwich. And the international date line is 12 hours, or 180°, from Greenwich.

As the distance east or west of Greenwich may be expressed either in degrees or in hours and minutes of time, the prevelent manner of locating the standard time meridians has been to divide the world into 24 such standard time zones, each successive meridian being just 15° of geographical longitude and therefore representing just 1 hour difference in time from the next meridian.

On each of these standard meridians, the standard time and the local mean time are identical. But as clocks at all points approximately 7½° both east and west of such a standard meridian keep the local mean time of this standard meridian, since standard time came into use if the place is either east or west of the standard meridian, the clock time must be converted into local mean time (L.M.T.)

Clocks west of a standard meridian are FAST. Clocks east of a standard meridian are SLOW. And as 1° longitude is the equivalent of 4′ time, the number of ° east or west of the standard meridian may be converted into time merely by multiplying by 4 and calling the result minutes of time. If the place is East of the standard meridian, ADD the number of minutes thus found to the standard meridian. If the place is West of the standard meridian. SUBTRACT the number of minutes thus found from the standard time. The result is the Local Mean Time of birth, and this is the DOMINANT FACTOR.

The best reference for values is the AFA Astrological Atlas of the United states. There you will find the city listed with Latitude and Longitude in tenths of minutes and the local mean time correction given in plus or minus in minutes and seconds. The correction to Greenwich is given is given in hours, minutes and seconds.

EXAMPLE	EST	LONG.
United States Capitol 77W0.6 38N53.3	-8:02	5:08:02

Four example charts will be given and the method of erecting each will be worked out in detail using a hand held calculator allowing the use of degrees, minutes and seconds. The data of the four birth-charts thus erected, and the letters by which their problems are designated, are as follows:

(A) April 19, 1975, 2:10:15 a.m. Eastern Daylight Saving Time (EDST) Taunton, Ma., U.S.A. Longitude 71W05.9, Latitude 41N53.9.

(B) August 21, 1970, 3:25:48 a.m. Pacific Daylight Saving Time (PDST) Thrail, Ca., U.S.A. Longitude 122W29, Latitude 41N54.

(C) January 31, 1975, 4:56:22 a.m. Central Standard time (CST) Elmhurst Il., U.S.A. Longitude 87W56.4, Latitude 41N53.4

(D) June,22, 1970, 10:43:58 a.m., British Summer Time (BST) London, England, Longitude 51N31, Latitude 0W06, St. Paul's Cathedral.

FINDING THE LOCAL MEAN TIME OF BIRTH:

Your best step is to consult the AFA Atlas or if the place of birth is not given there, instead of multiplying in longitude between the birthplace and the standard meridian by 4, consult the Table of Conversion of Longitude to time given

(A) The Longitude of Taunton, Ma. is 71W05.9 and the Eastern Meridian is 75° W. 75W minus 71W05.9 = 3° 54.1′ which in the table = 15′ 36′′ but the AFA gives 15′ 37′′. The correction for L.M.T. is then +15′37′′. In the table 71W05.9 is equal to 4h 44′ 23′′ and a plus.

(B) The longitude of Thrail, Ca. is 122W29. The Pacific Meridian is 120°W. The difference is 2° 29′ for which the table gives 9′ 56′′. As Thrail is west of the Meridian the 9′ 56′′ must be subtracted from the birth time to give 2:15:56. One hour daylight saving time has previously been subtracted. The table gives 8h 09′ 56′′ as the logitude corection.

(C) The longitude of Elmhurst, Il. is 87W56.4. Rounding off for the table would give 87W56 and since the Central Meridian is 90°W the difference is 2° 04′ for which the table gives 8′ 16′′. As Elmhurst is Eat of ther meridian the 8′ 16′′ must be added to the birth time giving 5:04:38 a.m. as the local mean time. The table gives 5h 51′ 44′′ as the longitude correction. However the AFA Atlas gives 8′ 15′′ and 5h 51′ 45′′ as the two corrections.

(D) The longitude of St. Paul's Cathedral in London is 0W06 for which the table gives 24′′ which must be subtracted to give 9:43:34 as the local mean time as one hour has previously been subtracted because of Summer Time over Britain. The table again gives 24′′ as a correction for longitude giving 9:43:58 as the interval to London.

Actually in 1970 apparently Britain was under the 15E00 Standard Meridian and no Daylight Saving Time. The use of both varies considerably through the years and Double Saving Time during the war years was observed so extra care has to be exercised and Time Changes in the World used as a guide.

To erect a chart of birth, or any horoscope, in addition to the data supplied, two things are required. One is a Table of Houses for the latitude of the place, and the other is an Ephemeris for the year of birth.

The student should calculate the precise value on the cusps of the wheel first. To do so since the tables usually give the values for each degree it will be necessary to interpolate for the precis value for the exact minute given in the latitude. Here use will be made of Michaelsen's Book of Tables, Dalton's Table of Houses and Rice's American Astrology table of Houses.

Next in order to calculate the precise position of the planets the student will have to interpolate in an Ephemeris for the exact value as the values are usually given for either Midnight (zero hour) or Noon for each day. Here use is made of Michaelsen's American Ephemeris and Raphael's Ephemeris alternating between Midnight (Zero hour) and Noon. Both volumes giving the Sun and Moon at midnight and Noon.

SECTION TWO

PLACING THE SIGNS ON THE HOUSES

The zenith of an observer, the point directly overhead, traces a circle in the sky due to the eastward rotation of the earth. For convenience, and to avoid technicalities, let us call this circle, parallel to the circle along which right ascention is measured, the Mundane circle. Right Ascension is the measurement in hours, minutes and seconds along the celestial equator beginning at the vernal equinox. And it is important , for from it are located the houses of a horoscope, the Mundane Houses.

But there is also a second important circle, the circle in the sky apparently followed by the Sun in its annual journey, which marks the center of a narrow belt along which all the planets apparently travel. This belt is called the Zodiac, and the circle followed by the Sun is called the Ecliptic. The positions of the planets as recorded in an ephemeris are given as they appear along this annual path of the Sun.

Thus all planets have two important apparent motions. They have a clock wise apparent motion that carries each from the Ascendant to the Midheaven, to the Descendant, to the I.C. and back to the Ascendant again each day. The Sun is thus seen to rise in the morning, to reach the Midheaven at noon, to disappear below the Descendant in the evening, and to reappear again on the Ascendant on the morning of the next day. All of the planets perform a similar daily journey. And in which house of the horoscope each planet has thus arrived in this clockwise daily journey is very important; for it indicates both the volume of energy the planet is able to deliver, and the department of life it influences.

But all of the planets have a slower counter-clockwise motion through the zodiac. While being swiftly carried clockwise by the diurnal rotation of the earth, they are slowly moving counter-clockwise along the zodiacal circle. Their position on this circle is plotted in the ephemeris for each day.

In erecting a horoscope, therefore, we have calculations to make relative to two different circles; the circle of Mundane houses, and the circle of the Zodiac.

Both the Mundane Circle and the Zodiacal circle are divided into segments of thirty degrees each. As a circle has 360 degrees there are thus 12 segments on each of the two circles. Each such 30 degree segment of the mundane circle is called a house, and each 30 degree segment of the zodiac is called a sign.

The positions of the planets as given in an ephemeris show them to have a longitude of so many degrees, minutes and sometimes seconds in a certain sign. That is , their positions are plotted in the ephemeris along the circle which is the apparent annual path of the sun. But that does not indicate whether they are above the horizon, below the horizon, half way up to the midheaven in an easterly direction, or how else they may be located

relative to the observer on earth. To ascertain this, the position of the zodiacal circle in reference to the mundane circle must be calculated.

In astrology the position of a planet relative to each of these circles is important. The tone quality of each planet is influenced by the sign of the zodiac it is in, that is, in which of the 30 degree segments along the apparent annual path of the sun it is found. Also the harmony or discord mapped by a given planet, and therefore the fortune-attracting or misfortune-attracting desires of the thought cells within the human soul that it maps, is revealed by the aspects it receives from other planets; and these are determined, with the exception of the parallel, from the number of degrees this planet is removed from other planets along this zodiacal circle which is the apparent annual path of the sun. Also, each aspect a planet receives increases its prominence, which means that it indicates the thought-cells within the soul which it maps have that much more energy with which to work.

Only an ephemeris for the year of birth is required to ascertain all the aspects between the planets, with the possible exception of aspects involving the Moon. For the day of the sign and degree they occupy are given in such an ephemeris, and with the possible exception of the Moon, these positions along the circle representing the apparent path of the sun, which is called the zodiac, are all that is needed to ascertain all the aspects between the planets.

But while the tone quality of the influence of a planet, and its harmony and discord, can thus be ascertained from its position in the zodiacal circle, the department of life chiefly influenced by the thought-cells it maps, and the volume of energy possessed by these thought -cells, can only be ascertained when its position relative to the mundane circle is known. When the significance of each planet in each house is known, it is the position of each planet relative to the circle from which are mapped the Mundane Houses that reveals for events and conditions affecting what department of life the thought-cells mapped by a planet will work.

If you step outdoors and face the South from time to time and watch the sun, moon, planets and stars, the relation of the two circles, both of which must be used to plot astrological positions, will become clear. To us in the northern latitudes the circle of the zodiac, which the sun follows, and from which the moon and planets never stray more than a few degrees, is always to the South. You will note that the sun, moon and planets rise in an easterly direction, arch up to the highest point while somewhat south of the zenith, and then set in a westerly direction. This clockwise apparent motion of stars and planets is due to the earth turning eastward on its axis.

The eastern horizon of the earth is called the Ascendant, abbreviated Asc.; the western horizon is called the Descendant; the meridian of the observer, that is, a circle passing through the poles of the earth and the

zenith, is the Midheaven, abbreviated M.C.; and the point opposite the midheaven is the I.C. Both terms from the Latin with M.C. meaning Medium Coeli and I.C. meaning Imum Coeli. The M.C. is the cusp of the 10th house and the I.C. is the cusp of the 4th house. A circle passing directly eastward from the zenith cuts the Ascendant, the I.C., the Descendant and again reaches the Midheaven at the zenith point. From this circle are mapped the Mundane Houses.

This mundane circle is divided into four quadrants by the Ascendant, I.C., Descendant and Midheaven. And while in all geographical latitudes a heavenly body in its apparent daily circle about the earth reaches the midheaven at the same moment, and reaches the nadir at the same moment, the times when it appears above the Ascendant and disappears below the Descendant are greatly influenced by the latitude of the observer. In other words, whether a planet is above or below the Ascendant or Descendant at the time of birth may well be determined by the latitude on the earth where the birth took place.

Not only is it important to know whether or not, and how far, a planet is above or below the Ascendant or Descendant, but whether or not, and how far, it is within or without one of the three equal divisions of each of the mentioned quadrants. Each of the equal divisions thus ascertained from the circle about the earth at a given geographical latitude is called a Mundane House.

Now the zodiacal circle is inclined to the earth's equator at an angle of about 23½°. But its inclination to the circle passing eastward through the zenith, from which the houses are ascertained, varies with each degree of geographical latitude. And thus to ascertain the exact degree of the zodiac on each of the cusps, or partitions, which divide the mundane circle into 12 equal segments, or houses, recourse is had to a table of houses.

Ephemeris Sidereal Time

To measure along a circle a starting point is necessary. The starting point for measuring geographical longitude is Greenwich, England. The starting point for measuring along the mundane circle is the Midheaven. The starting point for measuring along the circle of the zodiac is that point in the sky, called the vernal equinox, where the sun crosses from south to north declination and thus changes polarity each spring.

Now the time that has elapsed since the point of the vernal equinox, where the zodiacal circle commences, was on the Midheaven, which marks the starting point of what is here called the mundane circle, is the sidereal time. The sidereal time , therefore, shows exactly what sign and degree of the zodiac are on the midheaven. It thus brings the two circles-the zodiacal circle and what we here call the mundane circle-into coincidence at one point.

The ephemeris shows the sidereal time either for noon or midnight. That is, it indicates what sign and degree of the zodiac are on the midheaven at noon or midnight, as the case may be. Each hour and minute of clock time after noon or midnight increases the sidereal time by that interval; and each hour and minute before noon or midnight decreases the sidereal time by an equivalent interval. Therefore, to find the sidereal time of birth, we must find the local mean time interval to or from noon or midnight, according to which is used in the ephemeris, and add or subtract this interval to or from the sidereal time given in the ephemeris.

SECTION THREE

FIRST KEY PROBLEM

FINDING THE SIDEREAL TIME OF BIRTH

First we must find the local mean time interval from noon or zero hour the birth took place. If the local mean time of birth (DOMINANT FACTOR) is p.m., it already represents the required plus INTERVAL if a noon ephemeris is used. If a zero hour (midnight) ephemeris is used, it must be added to 12 hours to get the required plus interval.

If the local mean time of birth (DOMINANT FACTOR) is a.m. and a noon ephemeris is used, it must be subtracted from 12 hours to get the required minus interval. If a zero hour (midnight) ephemeris is used, it already represents the required plus L.M.T. Interval.

Chart (A) uses a zero hour ephemeris. The birth took place at a L.M.T. of 1:25:52 a.m. so the L.M.T. Interval is + 1:25:52.

Chart (B) uses a zero hour ephemeris. The birth took place at a L.M.T. of 2:15:52 a.m. so the L.M.T. Interval is + 2:15:52.

Chart (C) uses a noon time ephemeris. The birth took place at a L.M.T of 5:04:37 a.m. so subtracting from noon (11:59:60) gives a L.M.T. Interval of - 6:55:23.

Chart (D) uses a zero hour ephemeris. The birth took place at a L.M.T. of 9:43:34 a.m. so the L.M.T. Interval is + 9:43:34.

Further Examples

Using a noon ephemeris to get the L.M.T. Interval for a birth that took place 1:50:04 a.m. L.M.T. we merely subtract 1:50:04 from 11:59:60 to get a L.M.T.I. of - 10:09:56.

When using the zero hour ephemeris it is necessary to add 12 hours when the birth took place after noon and the birth is listed as p.m. A birth that took place at 2:18:16 p.m. would give a L.M.T.I. of + 14:18:16.

The next step in the First key problem concerns the Sidereal Time. The Sidereal Time at noon or zero hour for each day at Greenwich is given in the ephemeris for the year in which the birth date occurs. As most births do not occur at noon or zero hour Greenwich, a correction is required. When the L.M.T.I. is minus, it is subtracted from the Sidereal Time of birth given in the ephemeris. This results in the Sidereal Time of Birth Uncorrected.

Chart (A)	13:45:54	S.T. zero hour Apr. 19,1975
	+ 1:25:52	add L.M.T.I.
	15:11:46	S.T. of birth uncorrected
Chart (B)	21:55:36	S.T. zero hour Aug. 21,1970
	+ 2:15:52	add L.M.T.I.
	24:11:28	
	- 24:00:00	
	0:11:28	S.T. of birth uncorrected
Chart (C)	20:40:21	S.T. noon Jan. 31,1975
	- 6:55:23	subtract L.M.T.I.
	13:44:58	S.T. of birth uncorrected
Chart (D)	17:59:03	S.T. zero hour June 22,1970
	+ 9:43:34	add L.M.T.I.
	27:42:37	
	- 24:00:00	
	3:42:37	S.T. of birth uncorrected

For the two further example charts;

16:03:00	S.T. noon Nov. 22,1930
- 10:09:56	subtract L.M.T.I.
5:53:04	S.T. of birth uncorrected
12:37:52	S.T. zero hour Apr. 2,1943
+ 14:18:16	add L.M.T.I.
26:56:08	
- 24:00:00	
2:56:08	S.T. of birth uncorrected

In order to find the true sidereal time of birth, another correction is needed in this first key problem. Sidereal time increases at the rate of 9.86´´ per hour. As the sidereal time in the ephemeris is for noon or zero hour, Greenwich, this correction must be made for the interval before or after noon or midnight Greenwich on the same day. this requires that the equivalent Greenwich Mean Time Interval (E.G.M.T.I.) first be found. Before finishing the first key problem, it becomes necessary to calculate the Second Key Problem in order to apply the 9.86´´correction for sidereal time.

SECOND KEY PROBLEM

FINDING THE EQUIVALENT GREENWICH MEAN TIME INTERVAL (E.G.M.T.I.)

As explained each degree of geographical longitude is the equivalent of 4 minutes of time. Therefore the number of degrees of geographical longitude a place is east or west of Greenwich can be converted into minutes of time merely by multiplying by 4. If the place is west of Greenwich this difference of time must be added to the Local Mean Time (DOMINANT FACTOR) to get the E.Q.M.T. If the place is east of Greenwich this difference of time must be subtracted from the Local Mean Time (DOMINANT FACTOR) to get the E.G.M.T.

The equivalent Greenwich Mean Time thus found is then a given number of hours and minutes after or before the noon or zero hour for which the ephemeris is computed. If the E.G.M.T. of birth is p.m., it already represents the required plus E.G.M.T.I. if a noon ephemeris is used. If a zero hour (Midnight) ephemeris is used, it must be added to 12 hours to get the required plus E.G.M.T.I.

If the Equivalent Greenwich Mean Time of birth is a.m., and a noon ephemeris is used, it must be subtracted from 12 hours to get the required minus E.G.M.T.I.. If a zero hour (Midnight) ephemeris is used, it already represents the required plus E.G.M.T.I..

In consulting the table of Conversion of Longitude to time if we wish to determine the longitude correction to Washington D.C. for an example we look in the degree column and find 77°. the time shown is 5 hours and 8 minutes. In the minute column find one minute which corresponds to 4 seconds of time.

	5:08:00	for 77° long.
add	0:00:04	for 1′ long.
	5:08:04	Wash is W. of Greenwich

However the best way is to obtain a book listing most cities such as the already mentioned A.F.A. Atlas.

Chart (A)	1:25:52	L.M.T. of birth
	4:44:23	add for 71°W05.9
	6:10:15	E.Q.M.T. and E.G.M.T.I. due to zero hour ephemeris
Chart (B)	2:15:52	L.M.T. of birth
	8:09:56	add for 122°W29
	10:25:48	E.Q.G.M.T. and E.G.M.T.I. due to zero hour ephemeris

Chart (C)	5:04:37	L.M.T. of birth
	5:51:45	add for 87°W56.4
	10:56:22	E.G.M.T.
	11:59:60	noon
	- 10:56:22	subtract E.G.M.T.
	- 1:03:38	minus E.G.M.T.I.
Chart (D)	9:43:34	L.M.T. of birth
	0:00:24	add for 0°W06
	9:43:58	E.G.M.T.I.

For the two further example charts, the first

1:50:04	L.M.T. of birth
8:09:56	add for 122W29
10:00:00	E.G.M.T.
12:00:00	noon Greenwich
10:00:00	subtract the E.G.M.T.
- 2:00:00	minus E.G.M.T.I.

and the second;

14:18:16	L.M.T. of birth (12 added)
5:51:44	add for 87W56
20:10:00	E.G.M.T. and E.G.M.T.I. due to zero hour ephemeris

From 1960 to 1982 the tabulations in Raphael's Ephemeris were in Ephemeris Time (E.T.). At other years they were in G.M.T.. During those years when E.T. was used we have no choice but to include the correction known as Delta T to arrive at accurate results. Michaelsen's American Ephemeris uses Delta T all years. For other ephemerides check their listings. Delta T (ΔT) corrections for all years will be given later on page 51.

Chart (A)	6:10:15	+ E.G.M.T.I.
	46	+ ΔT
	6:11:01	+ E.G.M.T.I.
Chart (B)	10:25:48	+ E.G.M.T.I.
	41	+ ΔT
	10:26:29	+ E.G.M.T.I.
Chart (C)	1:03:38	- E.G.M.T.I.
	46	+ ΔT
	1:04:25	+ E.G.M.T.I.

Chart (D)

	9:43:58	+ E.G.M.T.I.
	41	+ ΔT
	9:44:39	+ E.G.M.T.I.

The results of the examples represent an interval of time difference between the clock at the birth place and the clock at Greenwich. This actual time span is used to calculate the Limiting date (L.D.) as well as the '9.86'' correction in the First Key Problem. The easiest guide to keeping these figures straight is the Student Chart Blank sold by The Church of Light. The example charts A,B,C, and D have been calculated on these blanks.

The Limiting Date appears on the last line of those blanks. While the mathematics of progressing the horoscope belongs in another volume, the student will find it easy to calculate the L.D. as he learns to erect the chart.

The Limiting date is a constant enabling the calculation of time within the particular calendar year a major progressed aspect becomes perfect. The hours and minutes of the interval from birth to Greenwich time are converted into months and days by dividing the hours by 2 and the minutes by 4. If this interval is minus, the hours and minutes so found are added to the birth day, month and year. If this interval is plus, the hours and minutes are subtracted from the birth date.

Chart (A) 6 ÷ 2 = 3 10 ÷ 4 = 2.5

	Year	Month	Day	
	1975	4	19	
-		3	3	
	1975	1	16	or Jan. 16,1975

Chart (B) 10 ÷ 2 = 5 26 ÷ 4 = 6.5

	Year	Month	Day	
	1970	8	21	
-		5	7	
	1970	3	14	or Mar. 14,1970

Chart (C) adding one hour or 60' to 4 ' gives 64' 64 ÷ 4 = 16

	Year	Month	Day	
	1975	1	31	
+			16	
	1975	1	47	or Feb. 16,1975

Chart (D) 8 ÷ 2 = 4 104 ÷ 4 = 26

	Year	Month	Day	
	1970	6	22	
-		4	26	
	1970	5	52	
-		4	26	
	1970	1	26	Or Jan. 26, 1970

The L.D. of the other two charts are Dec. 22,1930 and May 19,1942.

This same difference in time between the clock at the birth place and the clock at Greenwich, which was used to find the L.D., is also used to determine the 9.86´´ per hour correction in the First key Problem. To find the true Sidereal Time of Birth, multiply that interval by 9.86´´. If the interval is plus, add the correction to the Uncorrected Sidereal Time; if minus, subtract it.

To save you the work of multiplying refer to the Table of Mean Time to Sidereal Time given later.

Chart (A) shows 1´ 01´´ correction for an E.G.M.T.I. of 6:11 + hours

Chart (B) shows 1´ 43´´ correction for an E.G.M.T.I. of 10:26 + hours

Chart (C) shows 0´ 11´´ correction for an E.G.M.T.I. of 1:04 - hours

Chart (D) shows 0´ 24´´ correction for an E.G.M.T.I. OF 9:44 + hours

You now have all the preliminary mathematics completed and you are now ready to proceed to learn how to effectively use your hand calculator to calculate the house cusps and the planets places to fill out the horoscope wheel.

SECTION FOUR

CALCULATIONS AND ERECTION OF CHART (A)

INTRODUCTION: Advanced professional calculators, such as the Texas Instrument (TI-55 III) that is used in these lessons are marvels made possible by the most recent breakthroughs in semi-conductors and their technology. (A TI-60 is now available). The integrated circuit, which made hand held calculators possible, appeared only a few years ago. The TI-55 III has many capabilities that made it possible to do both simple and advanced astrological calculations with a speed previously impossible.

The outstanding value of a calculator is that when making a calculation the answer is obtained by a process of keying in the problem with no recourse needed for unnecessary factors such as logarithms, diurnal tables or other books requiring (looking up). If you wish to multiply the daily travel of a planet by the Equivalent Greenwich Mean Time Interval you simply key those values into the calculator, press equals and there is the answer in seconds.

Such a calculator as I describe should only cost in the forty dollar range and can be put to use in solving many other daily problems such as balancing your check book not to mention helping your children with their math homework.

If you have not already done so, purchase such a calculator and read the instructions that come with the calculator thereby familiarizing yourself with the basics of operation of the calculator. Learn to add, subtract, multiply and divide ordinary numbers and I will take it from there and demonstrate how to do the astrological math to construct a horoscope.

CHART (A) The chart to be erected now is called Chart (A) and is for April 19, 1975 at 2:10:15 a.m. E.D.T. in Tauton Ma. where the longitude is 71W05.9. The clock correction to mean time given in the Atlas is + 15′ 37′′ and the time correction to Greenwich is 4:44:23.

There are three values needed to construct the wheel. The Latitude (Lat), the Sidereal Time (S.T.) and the Equivalent Greenwich Mean Time Interval (E.G.M.T.I.). This lesson will demonstrate their use in the construction of the wheel.

Unless you are working near the equator usually the Lat. will vary in the tables by only one degree of latitude, so it is only necessary in the calculations to work with minutes and seconds, when necessary making the degrees similar. Near the equator the latitude can be given in five degree intervals. Taking our chart Lat. only in minutes (53.9) and dividing by 60 (sec. in an minute) the calculator gives 0.8983333 for an answer. Now push STO 0 and that value will be in memory zero for future use.

The value 0.8983333 means that the correct value for the Lat. is approximately 89.8% of the distance between 41 and 42 degrees North.

HINT: Before starting calculating on any day make sure it is working properly by solving an easy problem like 24 ÷ 2 = 12.

CALCULATIONS: From Chart (A) we see the Sidereal Time used for chart erection to be 15:12:47. The value used in calculating will depend on the particular table of houses you use. We will start with the American Astrology Table of Houses, the Rice tables. Then we will use Dalton's and finally Michaelsen's American Book of Tables.

Taking the next larger and next smaller S.T. from page 547 in the Rice tables we get the following proportion or interpolation;

(3)	15:16:00
(2)	15:12:47
(1)	15:12:00

taking the difference 2-1	0:47
and the difference 3-1	4:00

we now have to learn a new technique. Since the calculator must be told to convert degrees, minutes and seconds to a decimal value we must key in our value and press 2nd followed by DMS-DD in order to obtain the sought decimal value the calculator needs to perform. What we will be doing is ÷ 0:47 by 4:00.

Using our Rice values in three steps we will KEY IN

0.47	4.00	RCL 4
2nd	2nd	÷
DMS-DD (0.7833333)	DMS-DD (4.0000000)	RCL 5
STO 4	STO 5	= 0.1958333
		STO 1

Using Dalton's the proportion is

(3)	15:14:16
(2)	15:12:47
(1)	15:10:12

taking the difference 2-1	2:35
and the difference 3-1	4:04

KEY IN	KEY IN	KEY IN
2.35	4.04	RCL 4
2nd	2nd	÷
DMS-DD (2.5833333)	DMS-DD (4.0666667)	RCL 5
STO 4	STO 5	= 0.6352459
		STO 1

Using Michaelsen's American Book of Tables

(3)	15:16:00
(2)	15:12:47
(1)	15:12:00
difference 2-1	0:47
difference 3-1	4:00

KEY IN	KEY IN	KEY IN
0.47	4.0	RCL 4
2nd	2nd	÷
DMS-DD (0.7833333)	DMS-DD (4.0000000)	RCL 5
STO 4	STO 5	= 0.1958333)
		STO 1

Depending on which table you use, you will now have the exact correction for the house cusps, Lat correction stored in memory zero (STO 0) and the S.T. correction stored in memory one (STO 1), for later use.

From Chart "A" we see the E.G.M.T.I. to be 6:11:01. So we KEY IN 6.1101 and Press DMS-DD, and then ÷ by 24 (hours in a day) and STORE it in Memory 2 (STO 2). Like so;

KEY IN
6.1101
2nd
DMS-DD
÷
24
=
0.2576505
STO 2

We now have all three values in decimal figures stored in the memories for later use. You will use them only one at a time and only one table of houses at a time. We can now proceed to erect the wheel. we should have the latitude, 53.9 ÷ 60 stored in memory zero, the S.T. correction for the Rice tables 0.47 ÷ 4 equal to 0.1958333 stored in memory one, and the E.G.M.T.I. correction, 6:11:01 ÷ 24 equal to 0.2576505 stored in 2.

The best technique in calculating house cusps for the beginner is to take a piece of plain paper and turn it sideways as I have and copy your results for later addition to the wheel. Mark the Lar. corr. at the top left corner, then just below the S.T. proportion corr. beginning at the left hand side, the house numbers at the top as I have indicated, and fill in the answers as you go along. I recommend doing all the Lat. corr. first followed by the S.T. corr. next.

AMERICAN ASTROLOGY TABLES OF HOUSES

RICE TABLES

lat. Corr. 53.9 ÷ 60 = 0.8983333 STO 0

The technique is to take STO 0 and multiply that value by the difference in the two latitude values between 41 and 42 degrees and add that value to the 41 degree value. Do that for all the houses. Your results will look like the following.

	11	12	1	2	3	10
15:16:00 =	13Sag11.2	3Cap27.6	27Cap04.7	13Pis55.7	23Ari31.1	21Sco25′ 36′′
15:12:47 =						
15:12:00 =	12Sag17.6	2Cap31.6	25Cap53.6	12Pis29.6	22Ari18.3	20Sco26′ 27′′

15:12:47 − 15:12:00 = 47

15:16:00 − 15:12:00 = 4:00 or 240′′

$\frac{47}{240}$ = 0.1958333 STO 1

Now take STO 0 and multiply that value by the difference in the new S.T. values and add that to the lesser S.T. value. Except, of course, when the values are reversed so that you must subtract, which goes for all motions in Lat., S.T., and the planets when retrograde. Your final values for the house cusps will look as follows.

	11	12	1	2	3	10
15:16:00 =	13Sag11.2	3Cap27.6	27Cap04.7	13Pis55.7	23Ari31.1	21Sco25′ 36′′
15:12:47 =	12Sag28.1	2Cap42.6	26Cap07.5	12Pis46.5	22Ari32.6	20Sco38′ 02′′
15:12:00 =	12Sag17.6	2Cap31.6	25Cap53.6	12Pis29.6	22Ari18.3	20Sco26′ 27′′

The exact calculations will now be given.

CALCULATIONS FOR CHART "A" HOUSE CUSPS

In calculating the house cusps you will notice that mostly since the differences in values is so small no use of the DSM-DD Key is necessary. Determine the differences by sight.

House 11
Lat. corr.
at 15:12:00
at 41 deg's 12Sag30.2
at 42 deg's 12sag16.2
14.0

14.0 X RCL 0 = 12.6
30.2 - 12.6 = 17.6
12Sag17.6

S.T. corr.
13Sag11.2 = 12Sag71.2
12sag17.6 = 12Sag17.6
53.6

House 11
Lat. corr.
at 15:16:00
at 41 deg's 13Sag23.9
at 42 deg's 13Sag09.8
14.1

14.1 X RCL 0 = 12.7
23.9 - 12.7 = 11.2
13Sag11.2

S.T. corr.
53.6 X RCL 1 = 10.5
17.6 + 10.5 = 28.1
12Sag28.1

House 12
Lat. corr.
at 15:12:00
at 41 deg's 2Cap59.5
at 42 deg's 2Cap28.4
31.1

31.1 X RCL 0 = 27.9
59.5 - 27.9 = 31.6
2Cap31.6

S.T. corr.
3Cap27.6 = 2Cap87.6
2Cap31.6 = 2Cap31.6
56.0

House 12
Lat. corr.
at 15:16:00
at 41 deg's 3Cap55.6
at 42 deg's 3Cap24.4
31.2

31.2 X RCL 0 = 28.0
55.6 - 28.0 = 27.6
3Cap27.6

S.T. corr
56.0 X RCL 1 = 10.96 (11.0)
31.6 + 11.0 = 42.6
2Cap42.6

Calculations for chart "A" house cusps continued

House 1
Lat. corr.
at 15:12:00
at 41 deg's 26Cap39.5
at 41 deg's 25cap99.5
at 42 deg's 25Cap48.4
51.1

51.1 X RCL 0 = 45.9
99.5 - 45.9 = 53.6
25Cap53.6

S.T. corr.
27Cap 04.8
26Cap 64.8
25Cap 124.8
25Cap 53.6
71.2

House 1
Lat. corr.
at 15:16:00
at 41 deg's 27Cap 50.6
at 41 deg's 26Cap110.6
at 42 deg's 26Cap 59.6
51.0

51.0 X RCL 0 = 45.8
110.6 - 45.8 = 64.8
27Cap04.8

S.T. corr
71.2 X RCL 1 = 13.9
53.6 + 13.9 = 67.5
26Cap07.5

You could have used the DSM-DD KEY for the last S.T. corr. as follows;

27Cap04.8 = 27Cap04° 48'' Press 27.0448,2nd,DMS-DD, = 27.08 STO 5
25Cap53.6 = 25Cap53° 36'' Press 25.5336,2nd,DMS-DD, = 25.893333 STO 4

RCL 5 - RCL 4 X RCL 1 = 0.2323883
0.2323883 + RCL 4 = 26.125722
INV 2nd DMS-DD = 26Cap07° 33'' = 26Cap07.5

House 2
Lat. corr.
at 15:12:00
at 41 deg's 12Pis40.6
at 42 deg's 12Pis28.3
12.3

12.3 X RCL 0 = 11.0
40.6 - 11.0 = 29.6
12Pis29.6

S.T. corr.
13Pis55.7
12Pis29.6
86.1

House 2
Lat. corr.
at 15:16:00
at 41 deg's 14Pis05.9
at 42 deg's 13Pis54.6
11.3

11:3 X RCL 0 = 10.2
65.9 - 10.2 = 55.7
13Pis55.7

S.T. corr.
86.1 X RCL 1 - 16.9
16.9 + 29.6 = 46.5
12Pis46.5

Calculations for chart "A" house cusps con't

House 3
Lat. corr.
at 15:12:00
at 42 deg's 22Ari19.0
at 41 deg's 22Ari12.4
6.6

6.6 X RCL 0 = 5.9
5.9 + 12.4 = 18.3
22Ari18.3

S.T. corr.
23Ari31.1
22Ari18.3
72.8

House 3
Lat. corr.
at 15:16:00
at 42 deg's 23Ari31.8
at 41 deg's 23Ari24.8
7.0

7.0 X RCL = 6.3
6.3 + 24.8 = 31.1
23Ari31.1

S.T. corr.
72.8 X RCL 1 = 14.3
18.3 + 14.3 = 32.6
22Ari32.6

House 10

House 10 always only needs a S.T. correction, not a Latitude correction. Use your DMS-DD KEY here.

at 42 deg's 21SCO25′ 36′′
KEY IN
21.2536
2nd
DMS-DD
=
21.426667
STO 5

RCL 5 - RCL 4 = 0.9858333
0.9858333 X RCL 1 = 0.193058
0.193058 + RCL 4 = 20.633892
INV
2nd
DMS-DD = 20.380201
20 Sco 38′ 02′′

at 41 deg's 20Sco26′ 27′′
KEY IN
20.2627
2nd
DMS-DD
=
20.440833
STO 4

THE SPHERICAL BASIS OF ASTROLOGY

DALTON'S TABLE OF HOUSES

Lat. Corr. 53.9 ÷ 60 = 0.8983333 STO 0

S.T.

	11	12	1	2	3	10
15:14:16	12.82Sag	3.05Cap	26Cap33.2	13.22Pis	22.99Ari	21Sco00
15:12:47	12.49Sag	2.69Cap	26Cap06.9	12.71Pis	22.55Ari	20Sco38.1
15:10:12	11.92sag	2.06Cap	25Cap21.2	11.82PiS	21.79Ari	20Sco00
2:35						
4:04						

2.35 ÷ 4:04 (155 ÷ 244) = 0.6352459 STO 0

House cusp values converted to degrees, minutes and seconds

11th	12°Sag29′ 24′′
12th	2°Cap41′ 24′′
1st	26°Cap06′ 54′′
2nd	12°Pis42′ 36′′
3rd	22°Ari33° 00′′
10th	20°SCo22′ 50′′

THE AMERICAN BOOK OF TABLES

MICHAELSEN'S

Lat. Corr. 53.9 ÷ 60 = 0.8983333 STO 0

S.T.

	11	12	1	2	3	10
15:16:00	13Sag11.4	3Cap27.3	27Cap04.3	13Pis56.1	23Ari31.3	21Sco26.0
15:12:47	12Sag28.0	2Cap42.2	26Cap07.1	12Pis46.3	22Ari32.6	20Sco37.7
15:12:00	12Sag17.4	2Cap31.2	25Cap53.2	12Pis29.3	22Ari18.3	20Sco26.0
0:47						
4:00						

0:47 ÷ 4:00 (46 ÷ 240) = 0.1958333 STO 1

House cusp values converted to degrees, minutes and seconds

11th	12°Sag28′ 00′′	2nd	12°Pis46′ 18′′
12th	2°Cap42′ 12′′	3rd	22°Ari32′ 36′′
1st	26°Cap07′ 06′′	10th	20°Sco37′ 42′′

CALCULATIONS FOR CHART "A", PLANETS PLACES

From Chart "A" we see the Equivalent Greenwich Time Interval to be a plus 6:11:01. So we can plug that value into our calculator, if we haven't done so already, then change it into a decimal value, divide by 24 hours in a day, and finally key it into memory 2 for later use.

KEY IN	
6.1101	
2nd	
DMS-DD	(6.1836111)
÷	
24	(0.2576505)
STO 0	

We will then take each planet at a time, subtract its two zero hour positions to arrive at its daily travel: then multiply by the E.G.M.T.I. stored in 2, and finally add that correction to the previous zero hour position of the planet. The planets places are from Michaelsen's American Ephemeris.

We are all set to go. You can see how easy it was to get the equivalent of the classical log into our calculator with no reference to any tables. The figure 0.2576505 means that all the planets have advanced about 25.8% of their total daily travel.

The values given as we go along are simply to check your technique and in actual work can be ignored as you do your calculations. It's the final value that you are concerned about.

Also notice that we have set up a system to assist you to remember where you are as you go along. The Lat. corr. is always in STO 0 (Mem 0), the S.T. corr. is always in STO 1 (Mem 1) and the E.G.M.T.I. is always in STO 2 (Mem 2).

chart "A" planets places con't

THE SUN	THE MOON
April 20, 29Ari18′ 11′′	April 20, 9Leo49′ 12′′
April 19, 28Ari19′ 34′′	April 19, 25Can47′ 43′′
KEY IN	KEY IN
28.1934	25.4743
2nd	2nd
DMS-DD (28.326111)	DMS-DD (25.795278)
STO 4	STO 4
KEY IN	KEY IN
29.1811	39.4912 (add 30 deg. to keep
2nd	2nd the same sign)
DMS-DD (29.303056)	DMS-DD (39.82)
STO 5	STO 5
KEY IN	KEY IN
RCL 5 - RCL 4 (0.9769444)	RCL 5 - RCL 4 (14.024722)
X RCL 2 (0.2517102)	X RCL 2 (3.6134762)
+ RCL 4 (28.577821)	+ RCL 4 (29.408754)
INV	INV
2nd	2nd
DMS-DD (28.344016)	DMS-DD (29.243151)
SUN = 28Ari34′ 40′′	Moon = 29Can24′ 32′′

Again, all the values given in parentheses are simply to check your work as you go along and in actual practice they can be ignored until you reach your final desired value. Please note that on April 19th the Moon is increasing in motion quite a bit so for greatest accuracy in calculating it will need another correction. Later, on page 52, an easy method using the calculator to correct for ununiform motion will be given.

MERCURY

April 20, 0Tau35
April 19, 28Ari28

KEY IN
28.28
2nd
DMS-DD (28.466667)
STO 4

KEY IN
30.35 (30 deg added)
2nd
DMS-DD (30.583333)
STO 5

KEY IN
RCL 5 - RCL 4 (2.1166667)
X RCL 2 (0.5453601)
+ RCL 4 (29.00433)
INV
2nd
DMS-DD (29.00433)

Mercury = 29Ari00′ 43′′
29Ari01

MARS

April 20, 6Pis15
April 19, 5Pis29

KEY IN
5.29
2nd
DMS-DD (5.4833333)
STO 4

KEY IN
6.15
2nd
DMS-DD (6.25)
STO 5

RCL 5 - RCL 4 (0.7666667)
X RCL 2 (0.197532)
+ RCL 4 (5.6808654)
INV
2nd
DMS-DD (5.4051115) Mars = 5Pis40′ 51′′ (5Pis41)

VENUS

April 20, 7Gem08
April 19, 5Gem58

KEY IN
5.58
2nd
DMS-DD (5.9666667)
STO 4

KEY IN
7.08
2nd
DMS-DD (7.1333333)
STO 5

KEY IN
RCL 5 - RCL 4 (1.1666667)
X RCL 2 (0.3005922)
+ RCL 4 (6.2672589)
INV
2nd
DMS-DD (6.1602132)

Venus = 6Gem16′ 02′′
6Gem16

JUPITER

April 20, 7Ari44
April 19, 7Ari30

KEY IN
By inspection there is only
14′ daily travel
14 X RCL 2 = 3.6071065 So
add 4′ to 30 = 7Ari34

SATURN

April 20, 13Can09
APRIL 19, 13Can06

Daily travel = 3′
3 X RCL 2 = 0.7729514 So
add 1° to 6 = 13Can07

URANUS

April 20, 0Sco30R
April 19, 0Sco32R

Daily travel = 2′
2 X RCL 2 (0.5153009)
32 - 1′ = 0Sco31R

PLUTO

April 20, 7Lib18R
April 19, 7Lib20R

Daily travel = 2′
2 X RCL 2 (0.5153009)
20 - 1 = 7Lib19R

MOON'S DECLINATION

April 20, 13N07
April 19, 16N49

KEY IN
16.49
2nd, DMS (16.816667)
STO 5

KEY IN
13.07
2nd, DMS-DD (13.116667)

RCL 5 -RCL 4 = 3.7
3.7 X RCL 2 (0.9533067)
STO 6
RCL 5 - RCL 6 = 15.86336
INV,2nd,DMS-DD, (15.51481)
15N51

MARS DECLINATION
April 20, 10S32
April 19, 10S48

daily travel, 48 - 32 = 16
16 X RCL 2 = 4.1224074
48 - 4 = 44
10S44

NEPTUNE

April 20, 11Sag27R
April 19, 11Sag28R

Daily travel = 1′
1 X RCL 2 (0.2576505)
no corr. 11Sag28R

SUN'S DECLINATION

April 20, 11N14 = 10N74
April 19, 10N53

Daily travel, 74 - 53 = 21′
21 X RCL 2 (5.4106597)
53 + 5 = 10N58

MERCURY'S DECLINATION

April 20, 11N18 = 10N78
April 19, = 10N24

Daily travel 78′ - 24′ = 54
54 X RCL 2 (13.913125)
24+ 14 = 38
10N38

VENUS DECLINATION
April 20, 23N05 = 22N65
April 19, 22N50

Daily travel 65 - 50 = 15
15 X RCL 2 = 3.8647569
50 + 4 = 54
22N54

JUPITER DECLINATION
April 20, 2N04 = 1N64
April 19, = 1N58

Daily travel, 6′
6 X RCL 2 = 1.5459028
58 + 2 = 60
2N00

SATURN

no correction needed
22N37

URANUS

April 21, 11S06
April 17, 11S10
4 day travel = 4′
1 day travel = 1′
11S08

NEPTUNE

4 day travel = 1′
1 ÷ 4 = 0.25
0.25 X RCL 2 = 0.0644126
X 2 days = 0.1288252
no correction
20S35

PLUTO

no correction needed
12N58

The declinations of the M.C. (cusp of the 10th house) and the Ascendant can most easily be calculated from the tables given on pages 48 and 49 for that purpose.

M.C. = 20SCO38

20Sco40 = 17S55
20Sco38 = ?
20Sco30 = 17S53

8 ÷ 10 X 2 = 1.6
add 2 to 53
17S55

Asc = 26Cap08

26Cap10 = 20S55
26Cap08 = ?
26Cap00 = 20S57

8 ÷ 10 X 2 = 1.6
subtract 2 from 57
20S55

The student has no doubt noticed that when calculating the positions of the slower moving planets there is such a small difference, or no difference at all, that much time can be saved by visually inspecting the daily or four day motion. If the travel can be ascertained by mental arithmetic by all means do so. This applies to the positions of the planets and their declinations.

1 _____ (Name)

2 _____ (Month) (Day) (Year)

3 Place _____

4 Latitude _____

5 Longitude _____

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

7 Correction for Standard Time _____

8 Time of Birth _____ (Standard Time)

9 Correction for Mean Time _____

10 Local Mean Time of Birth, A.M or P.M. _____

FIRST KEY PROBLEM

11 Noon _____ 12:00

12 Local Mean Time _____

13 L.M.T. Interval _____

14 Sidereal Time _____ (Noon)

15 _____

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) _____

19 Correction, 9.86s per h. for E.G.M.T. Int. _____

20 Sidereal Time _____ (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth _____

22 Hrs. E. or W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

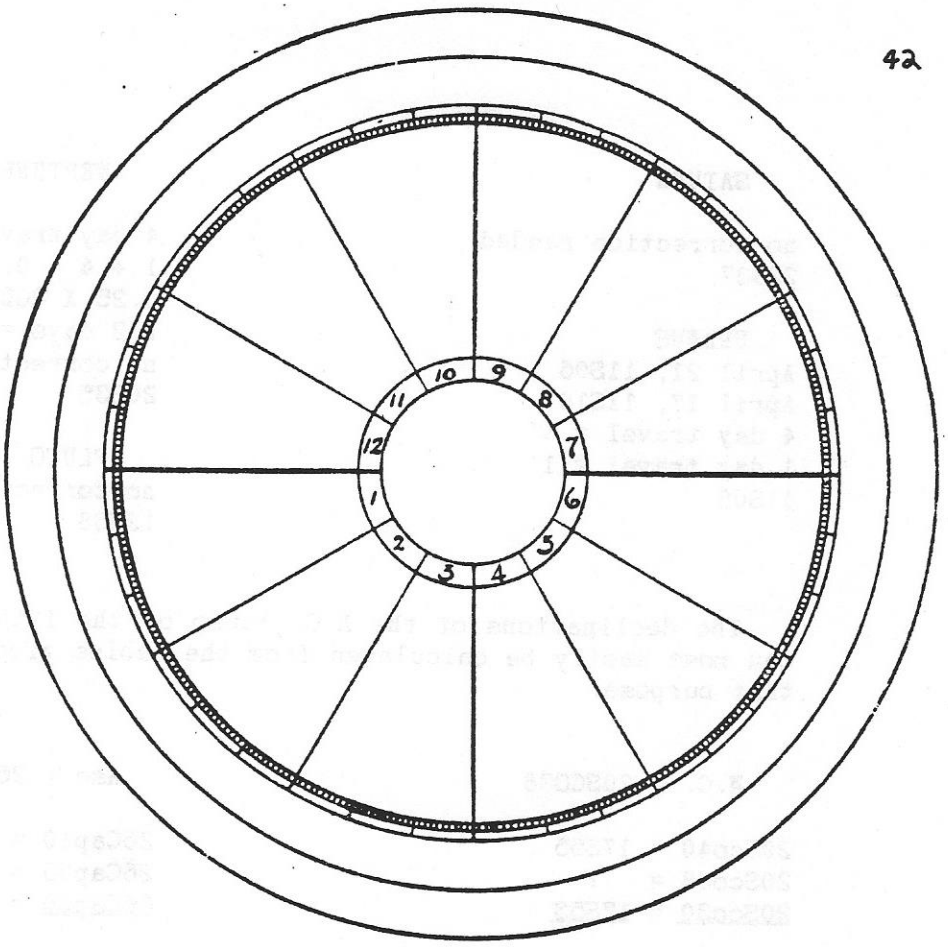
25 E.G.M.T. _____

26 E.G.M.T. Interval _____ (Indicate plus or minus)

ADDITIONAL FACTORS

27 Constant Log _____

28 Limiting Date _____ (Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**

Declinations — **ASPECTS**

		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	
	☉													
	☽													
	☿													
	♀													
	♂													
	♃													
	♄													
	♅													
	♆													
	♇													
	MC													
	ASC													

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
			Planet
			Sign
			House

1 CHART "A" (Name)

2 APR. 19 1975 (Month) (Day) (Year)

3 Place TAUNTON MA.

4 Latitude 41N53.9

5 Longitude 71W05.9

DOMINANT FACTOR

6 Time of Birth 2:10:15 (Daylight Saving)

7 Correction for Standard Time (-)1:00:00

8 Time of Birth 1:10:15 (Standard Time)

9 Correction for Mean Time (+)0:15:37

10 Local Mean Time of Birth, A.M or ~~P.M.~~ 1:25:52

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+)1:25:52

14 Sidereal Time 13:45:54 (Noon) ZERO HOUR

15 AMER. EPH.

16

17 L.M.T. Interval

18 S. T. (Uncorrected) 15:11:46

19 Correction, 9.86s per h. for E.G.M.T. Int. (+)0:01:01

20 Sidereal Time 15:12:47 (Of Birth)

SECOND KEY PROBLEM

21 ~~Standard~~ L.M. Time of Birth 1:25:52

22 Hrs. E. or W. of Greenwich 4:44:23

23 E.G.M.T.

24 Noon 12:00

25 E.G.M.T. 6:10:15

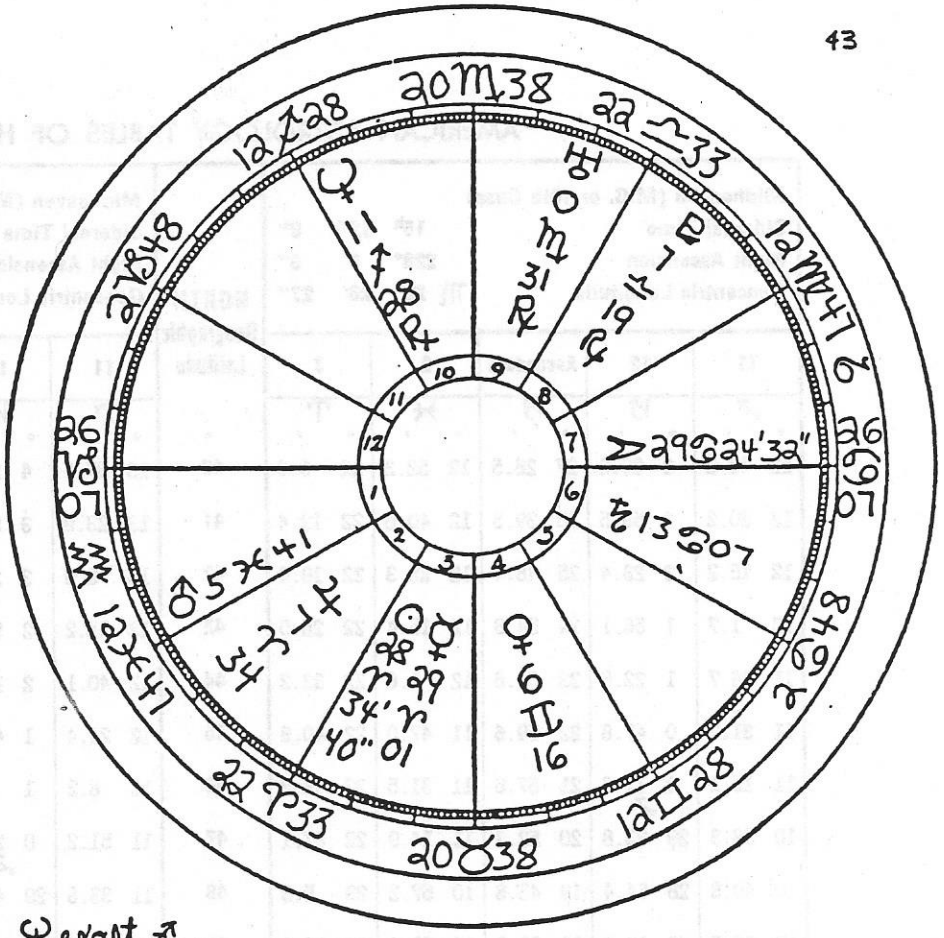
26 E.G.M.T. Interval (+)6:10:15 (Indicate plus or minus)

(+)ΔT = (+) 6:11:01

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date JAN. 16, 1975 (Including year)



☿ exalt ♐ ☉ exalt ♈ ☽ home ♉ ♇ inhar ♎

Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
6 ASC	1 MC	3	4	0 ASC	2	4 MC	4	2	4
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**
4	3	3	2	3	3	2	4	5	3

Declinations — EMAN 1·6 2·2 3·2 ASPECTS

		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	M.R.
10N58	☉		□	☍	·	P.	·	·	☍	□	·	·	□	
15N51	☽			□	✶	·	△	·	□	□	✶	△	☌	
10N38	☿				·	P✶	·	·	☍	□	·	·	□	
22N54	♀					□	✶	P.	·	☌	△	·	□	
10S44	♂						⚻	△	P△	□	⚻	·	·	
2N00	♃							□	·	△	☌	□	·	
22N37	♄								·	⚻	□	△	·	
11S08	♅									□	·	·	□	
20S35	♆										✶	·	P	
12N58	♇											∠	·	
17S55	MC												✶	
20S55	ASC													

FAST (F) or SLOW (S): MC ☐ ASC ☐

Dominant	Best	Worst	
☉	♃	☽	Planet
♈	♎	♌	Sign
3	2	3	House

Midheaven (M.C. or 10th Cusp)
Sidereal Time 15h 12m 0s
Right Ascension 228° 0′ 0″
Geocentric Longitude ♏ 20° 26′ 27″

11	12	Ascendant	2	3	NORTH Geographic Latitude
♐	♑	♑	♓	♈	
° ′	° ′	° ′	° ′	° ′	°
12 43.8	3 29.6	27 28.5	12 52.3	22 6.0	40
12 30.2	2 59.5	26 39.5	12 40.6	22 12.4	41
12 16.2	2 28.4	25 48.4	12 28.3	22 19.0	42
12 1.7	1 56.1	24 54.8	12 15.4	22 26.0	43
11 46.7	1 22.6	23 58.6	12 1.6	22 33.2	44
11 31.2	0 47.8	22 59.6	11 47.0	22 40.8	45
11 15.1	0 11.6	21 57.6	11 31.5	22 48.8	46
10 58.3	29 33.8	20 52.3	11 14.9	22 57.1	47
10 40.8	28 54.4	19 43.6	10 57.2	23 5.9	48
10 22.6	28 13.3	18 31.0	10 38.2	23 15.1	49
10 3.6	27 30.2	17 14.4	10 17.7	23 24.8	50
9 43.7	26 45.1	15 53.4	9 55.6	23 35.2	51
9 22.8	25 57.6	14 27.7	9 31.6	23 46.1	52
9 0.8	25 7.7	12 56.8	9 5.5	23 57.7	53
8 37.7	24 15.1	11 20.4	8 36.9	24 10.2	54
8 13.3	23 19.5	9 38.1	8 5.4	24 23.5	55
7 47.5	22 20.6	7 49.4	7 30.7	24 37.7	56
7 20.0	21 18.2	5 54.0	6 52.0	24 53.0	57
6 50.7	20 11.8	3 51.3	6 8.6	25 9.7	58
6 19.4	19 1.0	1 40.9	5 19.7	25 27.7	59
5 46.0	17 45.2	29 22.4	4 24.0	25 47.3	60
5	6	Descendant	8	9	SOUTH Geographic Latitude

Midheaven (M.C. or 10th Cusp)
Sidereal Time 3h 12m 0s
Right Ascension 48° 0′ 0″
Geocentric Longitude ♉ 20° 26′ 27″

Midheaven (M.C. or 10th Cusp)
Sidereal Time 15h 16m 0s
Right Ascension 229° 0′ 0″
Geocentric Longitude ♏ 21° 25′ 36″

11	12	Ascendant	2	3
♐	♑	♑	♓	♈
° ′	° ′	° ′	° ′	° ′
13 37.5	4 25.8	28 39.5	14 16.7	23 18.1
13 23.9	3 55.6	27 50.6	14 5.9	23 24.8
13 9.8	3 24.4	26 59.6	13 54.6	23 31.8
12 55.2	2 51.9	26 6.0	13 42.7	23 39.1
12 40.1	2 18.3	25 9.7	13 30.0	23 46.7
12 24.4	1 43.3	24 10.7	13 16.6	23 54.7
12 8.2	1 6.8	23 8.6	13 2.2	24 3.0
11 51.2	0 28.9	22 3.1	12 46.9	24 11.8
11 33.6	29 49.3	20 54.1	12 30.5	24 20.9
11 15.3	29 7.8	19 41.2	12 13.0	24 30.7
10 56.0	28 24.4	18 24.1	11 54.1	24 40.9
10 36.0	27 38.9	17 2.5	11 33.7	24 51.7
10 14.9	26 51.1	15 36.0	11 11.5	25 3.2
9 52.7	26 0.8	14 4.2	10 47.3	25 15.5
9 29.3	25 7.6	12 26.8	10 20.9	25 28.5
9 4.7	24 11.5	10 43.2	9 51.8	25 42.5
8 38.5	23 11.9	8 53.1	9 19.7	25 57.4
8 10.7	22 8.8	6 55.9	8 43.9	26 13.6
7 41.1	21 1.5	4 51.2	8 3.8	26 31.0
7 9.4	19 49.7	2 38.4	7 18.5	26 50.0
6 35.5	18 32.9	0 17.3	6 26.9	27 10.6
5	6	Descendant	8	9

Midheaven (M.C. or 10th Cusp)
Sidereal Time 3h 16m 0s
Right Ascension 49° 0′ 0″
Geocentric Longitude ♉ 21° 25′ 36″

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

43 or 47

	H. M. S.					H. M. S.					H. M. S.					H. M. S.					H. M. S.					H. M. S.				
SID. T.	14 54 7				♏	14 58 7				♏ 17°	15 2 8				♏ 18°	15 6 10				♏ 19°	15 10 12				♏ 20°	15 14 16				♏ 21°
ARC	223° 31′.8				16°	224° 31′.9					225° 32′.1					226° 32′.5					227° 33′.1					228° 33′.9				
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	♐	♑	♒	♓	♈	♐	♑	♒	♓	♈	♐	♑	♒	♓	♈	♐	♑	♒	♓	♈	♐	♑	♒	♓	♈	♐	♑	♒	♓	♈
°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°
22	11.9	6.3	3 1	9.8	15.6	12.8	7.2	4 6	11.0	16.7	13.7	8.1	5 11	12.3	17.9	14.6	9.1	6 17	13.5	19.0	15.5	10.0	7 24	14.7	20.2	16.5	11.0	8 32	16.0	21.3
23	7	0	2 33	7	7	6	6.9	3 39	10.9	8	6	7.8	4 45	1	9	5	8.8	5 51	4	1	4	9.7	6 58	6	2	3	10.7	8 6	15.9	4
24	6	5.6	2 5	6	7	5	6	3 11	8	8	4	5	4 17	0	18.0	3	5	5 24	3	1	2	4	6 31	5	3	2	4	7 39	8	4
25	4	3	1 37	4	8	3	2	2 42	7	9	3	2	3 49	11.9	1	2	1	4 56	1	2	1	1	6 3	4	3	0	0	7 12	7	5
26	11.3	0	1 7	9.3	15.8	2	5.9	2 13	5	9	1	6.8	3 20	8	1	0	7.8	4 27	0	3	14.9	8.7	5 35	14.3	20.4	15.9	9.7	6 43	6	6
27	1	4.6	0 37	1	9	0	6	1 43	10.4	17.0	12.9	5	2 50	6	2	13.9	4	3 57	12.9	19.3	8	4	5 5	2	5	7	4	6 14	5	21.6
28	0	3	0 6	0	9	11.9	2	1 12	2	1	8	1	2 19	5	2	7	1	3 27	8	4	6	0	4 35	1	6	5	0	5 44	15.4	7
29	10.8	3.9	♑ 29 34	8.8	16.0	7	4.9	0 40	1	1	6	5.8	1 47	11.4	18.3	5	6.7	2 55	7	5	4	7.7	4 4	13.9	6	4	8.7	5 13	3	8
30	6	6	29 0	7	0	5	5	0 7	0	2	4	4	1 14	2	4	4	4	2 23	5	5	3	3	3 31	8	20.7	2	3	4 41	1	9
31	5	2	28 26	5	1	4	1	♑ 29 33	9.8	2	3	1	0 41	1	4	2	0	1 49	12.4	6	1	0	2 58	7	8	0	7.9	4 8	0	9
32	3	2.8	27 51	3	1	2	3.8	28 58	6	17.3	1	4.7	0 6	10.9	5	0	5.6	1 14	2	19.7	13.9	6.6	2 23	6	9	14.8	5	3 34	14.9	22.0
33	1	4	27 15	1	2	0	4	28 22	4	4	11.9	3	♑ 29 30	8	6	12.8	2	0 39	1	7	7	2	1 48	13.4	9	7	1	2 58	8	1
34	9.9	0	26 37	7.9	16.3	10.8	0	27 44	3	5	7	3.9	28 52	6	18.6	6	4.8	0 1	11.9	8	6	5.8	1 11	3	21.0	5	6.7	2 21	6	2
35	7	1.6	25 58	7	3	6	2.6	27 5	1	5	5	5	28 14	4	7	4	4	♑ 29 23	8	9	4	4	0 33	1	1	3	3	1 43	5	3
36	5	2	25 18	5	4	4	1	26 25	8.9	6	3	1	27 34	2	7	2	0	28 42	6	20.0	2	4.9	♑ 29 53	12.9	2	1	5.9	1 4	14.3	4
37	3	0.8	24 36	3	5	2	1.7	25 44	7	17.7	1	2.6	26 52	0	8	0	3.6	28 1	4	1	0	5	29 11	8	3	13.9	4	0 23	2	22.5
38	1	3	23 52	1	6	0	2	25 0	4	8	10.9	2	26 8	9.8	9	11.8	1	27 17	2	2	12.8	0	28 28	6	4	7	0	♑ 29 40	0	6
39	8.9	♐ 29.8	23 7	6.8	16.6	9.8	0.8	24 15	2	8	7	1.7	25 23	6	19.0	6	2.6	26 32	0	3	5	3.6	27 43	4	21.5	5	4.5	28 55	13.8	7
40	7	4	22 20	6	7	6	3	23 28	0	9	5	2	24 36	4	1	4	1	25 46	10.8	4	3	1	26 56	2	6	2	0	28 8	6	8
41	5	28.9	21 31	3	8	4	♐ 29.8	22 39	7.7	18.0	3	0.7	23 47	1	2	2	1.6	24 57	5	20.5	1	2.6	26 7	0	7	0	3.5	27 19	4	9
42	3	4	20 40	0	9	2	3	21 47	5	1	1	2	22 56	8.9	3	0	1	24 6	3	6	11.9	0	25 16	11.8	8	12.8	0	26 28	2	23.0
43	0	27.8	19 47	5.7	17.0	8.9	28.7	20 54	2	2	9.8	♐ 29.7	22 2	7	4	10.7	0.6	23 12	1	7	6	1.5	24 22	6	9	5	2.4	25 34	0	2
44	7.8	3	18 51	4	1	7	2	19 58	6.9	3	6	1	21 6	4	19.5	5	0	22 16	9.9	8	4	0.9	23 26	3	22.1	3	1.8	24 38	12.8	3
45	5	26.7	17 53	2	1	4	27.6	19 0	7	4	3	28.5	20 8	1	6	2	♐ 29.4	21 17	6	21.0	1	3	22 27	1	2	0	3	23 39	5	5
46	2	1	16 51	4.9	2	1	0	17 58	4	18.5	0	27.9	19 6	7.8	7	9.9	28.8	20 15	3	1	10.9	♐ 29.7	21 25	10.8	4	11.7	0.7	22 36	3	23.6
47	0	25.5	15 47	5	3	7.9	26.4	16 54	1	6	8.8	3	18 1	5	9	7	2	19 10	0	2	6	1	20 20	5	5	4	0	21 31	0	7
48	6.8	24.9	14 40	1	17.5	6	25.8	15 46	5.7	7	5	26.7	16 53	1	20.0	4	27.6	18 1	8.7	3	3	28.5	19 11	2	22.6	1	♐ 29.4	20 22	11.7	8
49	5	2	13 30	3.7	6	3	1	14 35	3	9	2	0	15 42	6.7	2	1	26.9	16 50	3	21.5	0	27.8	17 59	9.9	7	10.8	28.7	19 9	4	24.0
50	2	23.5	12 16	2	7	0	24.4	13 20	4.8	19.0	7.9	25.3	14 26	3	3	8.8	2	15 34	7.9	6	9.7	1	16 42	5	9	5	0	17 52	1	2
51	5.8	22.8	10 57	2.7	8	6.6	23.7	12 2	3	2	6	24.6	13 7	5.9	5	5	25.5	14 14	5	8	4	26.4	15 22	1	23.1	2	27.3	16 31	10.7	4
52	5	0	9 35	2	18.0	3	22.9	10 39	3.8	4	3	23.8	11 43	4	7	1	24.7	12 49	0	22.0	0	25.6	13 56	8.7	3	9.9	26.5	15 5	3	6
53	2	21.2	8 8	1.6	1	0	1	9 11	2	5	6.9	0	10 15	4.9	9	7.8	23.9	11 19	6.5	1	8.6	24.7	12 26	2	4	5	25.6	13 33	9.9	8
54	4.8	20.4	6 37	0.9	3	5.7	21.3	7 38	2.6	7	5	22.1	8 41	3	21.0	4	0	9 44	5.9	3	2	23.8	10 50	7.7	6	1	24.7	11 56	4	25.0
55	4	19.5	5 0	2	4	3	20.4	6 0	1.9	8	1	21.2	7 1	3.6	1	0	22.1	8 4	3	5	7.8	22.9	9 8	1	8	8.7	23.8	10 13	8.9	2
56	0	18.6	3 18	♒ 29.3	6	4.9	19.4	4 17	1	20.0	5.6	20.2	5 16	2.8	3	6.6	21.1	6 17	4.6	7	4	21.9	7 20	6.4	24.0	2	22.8	8 24	3	4

Placidus Table of Houses for Latitudes 0° to 60° North

14h 56m 0s — 224° 0' 0" — 16 ♏ 28

LAT.	11	12	ASC	2	3
0	15♐16	12♑53	11♒32	12♓39	15♈12
5	14 37	11 35	9 57	12 12	15 24
10	13 58	10 14	8 15	11 44	15 36
15	13 18	8 50	6 25	11 13	15 48
20	12 36	7 21	4 24	10 40	16 2
21	12 27	7 3	3 58	10 32	16 5
22	12 18	6 44	3 31	10 25	16 8
23	12 9	6 25	3 4	10 17	16 11
24	12 0	6 5	2 36	10 9	16 14
25	11 51	5 45	2 8	10 1	16 17
26	11 42	5 25	1 38	9 53	16 20
27	11 32	5 5	1 8	9 44	16 23
28	11 23	4 44	0 37	9 35	16 27
29	11 13	4 22	0 5	9 26	16 30
30	11 3	4 0	29♑32	9 17	16 34
31	10 53	3 38	28 58	9 7	16 37
32	10 42	3 15	28 23	8 57	16 41
33	10 32	2 51	27 47	8 46	16 45
34	10 21	2 27	27 9	8 35	16 49
35	10 9	2 2	26 30	8 24	16 53
36	9 58	1 37	25 50	8 12	16 57
37	9 46	1 11	25 8	7 59	17 1
38	9 34	0 44	24 25	7 46	17 6
39	9 22	0 16	23 39	7 32	17 11
40	9 9	29♐48	22 52	7 18	17 15
41	8 56	29 18	22 3	7 3	17 21
42	8 42	28 47	21 12	6 47	17 26
43	8 28	28 16	20 19	6 30	17 31
44	8 14	27 43	19 23	6 12	17 37
45	7 59	27 9	18 25	5 54	17 43
46	7 43	26 34	17 23	5 33	17 49
47	7 27	25 57	16 19	5 12	17 56
48	7 10	25 18	15 12	4 49	18 3
49	6 52	24 38	14 1	4 25	18 10
50	6 34	23 57	12 47	3 58	18 18
51	6 15	23 13	11 28	3 30	18 26
52	5 55	22 27	10 6	2 59	18 35
53	5 34	21 39	8 38	2 26	18 44
54	5 12	20 48	7 6	1 49	18 54
55	4 48	19 55	5 29	1 9	19 4
56	4 24	18 59	3 46	0 24	19 16
57	3 58	17 59	1 58	29♒35	19 28
58	3 30	16 56	0 3	28 40	19 41
59	3 0	15 49	28♐1	27 37	19 55
60	2♐29	14♐38	25♐53	26♒26	20♈10

15h 0m 0s — 225° 0' 0" — 17 ♏ 28

LAT.	11	12	ASC	2	3
0	16♐11	13♑49	12♒32	13♓43	16♈17
5	15 33	12 30	10 58	13 18	16 29
10	14 53	11 10	9 17	12 52	16 42
15	14 13	9 46	7 29	12 23	16 55
20	13 31	8 17	5 29	11 51	17 10
21	13 22	7 59	5 3	11 44	17 13
22	13 13	7 40	4 37	11 37	17 16
23	13 4	7 21	4 10	11 30	17 19
24	12 55	7 1	3 42	11 23	17 23
25	12 46	6 41	3 14	11 15	17 26
26	12 37	6 21	2 44	11 7	17 29
27	12 27	6 1	2 14	10 59	17 33
28	12 17	5 40	1 44	10 51	17 36
29	12 7	5 18	1 12	10 42	17 40
30	11 57	4 56	0 39	10 33	17 44
31	11 47	4 34	0 5	10 24	17 48
32	11 37	4 11	29♑30	10 14	17 52
33	11 26	3 47	28 54	10 4	17 56
34	11 15	3 23	28 17	9 54	18 0
35	11 4	2 58	27 38	9 43	18 4
36	10 52	2 33	26 58	9 32	18 9
37	10 40	2 6	26 16	9 20	18 13
38	10 28	1 39	25 32	9 8	18 18
39	10 16	1 11	24 47	8 55	18 23
40	10 3	0 43	24 0	8 41	18 28
41	9 49	0 13	23 11	8 27	18 34
42	9 36	29♐42	22 20	8 12	18 39
43	9 22	29 10	21 26	7 56	18 45
44	9 7	28 37	20 31	7 39	18 51
45	8 52	28 3	19 32	7 21	18 58
46	8 36	27 28	18 30	7 2	19 5
47	8 20	26 51	17 26	6 42	19 12
48	8 3	26 12	16 18	6 20	19 19
49	7 45	25 32	15 7	5 57	19 27
50	7 26	24 50	13 52	5 32	19 35
51	7 7	24 6	12 33	5 5	19 44
52	6 47	23 19	11 9	4 36	19 53
53	6 25	22 31	9 41	4 4	20 3
54	6 3	21 40	8 8	3 30	20 13
55	5 39	20 46	6 30	2 51	20 25
56	5 15	19 49	4 45	2 9	20 37
57	4 48	18 49	2 55	1 22	20 49
58	4 20	17 45	0 58	0 30	21 3
59	3 50	16 37	28♐55	29♒31	21 19
60	3♐18	15♐24	26♐44	28♒24	21♈35

15h 4m 0s — 226° 0' 0" — 18 ♏ 28

LAT.	11	12	ASC	2	3
0	17♐7	14♑44	13♒32	14♓48	17♈21
5	16 28	13 26	11 59	14 25	17 34
10	15 49	12 6	10 20	14 0	17 48
15	15 8	10 42	8 32	13 33	18 2
20	14 26	9 13	6 34	13 3	18 18
21	14 17	8 55	6 8	12 56	18 21
22	14 8	8 36	5 42	12 50	18 24
23	13 59	8 17	5 15	12 43	18 28
24	13 50	7 57	4 48	12 36	18 31
25	13 41	7 38	4 20	12 29	18 35
26	13 31	7 17	3 51	12 22	18 38
27	13 22	6 57	3 21	12 14	18 42
28	13 12	6 36	2 50	12 6	18 46
29	13 2	6 14	2 19	11 58	18 50
30	12 52	5 52	1 46	11 50	18 54
31	12 41	5 30	1 13	11 41	18 58
32	12 31	5 7	0 38	11 32	19 2
33	12 20	4 43	0 2	11 22	19 6
34	12 9	4 19	29♑25	11 13	19 11
35	11 58	3 54	28 46	11 3	19 16
36	11 46	3 28	28 6	10 52	19 20
37	11 34	3 2	27 24	10 41	19 25
38	11 22	2 35	26 41	10 29	19 30
39	11 9	2 7	25 56	10 17	19 36
40	10 56	1 38	25 9	10 4	19 41
41	10 43	1 8	24 20	9 51	19 47
42	10 29	0 37	23 29	9 37	19 53
43	10 15	0 5	22 35	9 22	19 59
44	10 0	29♐32	21 39	9 6	20 6
45	9 45	28 58	20 40	8 49	20 12
46	9 29	28 22	19 39	8 31	20 20
47	9 12	27 45	18 34	8 12	20 27
48	8 55	27 6	17 26	7 52	20 35
49	8 37	26 25	16 14	7 30	20 43
50	8 19	25 43	14 58	7 7	20 52
51	7 59	24 58	13 39	6 41	21 1
52	7 39	24 12	12 14	6 14	21 11
53	7 17	23 23	10 45	5 44	21 21
54	6 55	22 31	9 11	5 11	21 33
55	6 31	21 37	7 31	4 35	21 44
56	6 5	20 39	5 46	3 55	21 57
57	5 39	19 38	3 54	3 11	22 11
58	5 10	18 33	1 55	2 22	22 26
59	4 40	17 24	29♐49	1 26	22 42
60	4♐7	16♐11	27♐36	0♓22	23♈0

15h 8m 0s — 227° 0' 0" — 19 ♏ 27

LAT.	11	12	ASC	2	3
0	18♐2	15♑40	14♒32	15♓53	18♈26
5	17 23	14 22	13 1	15 31	18 40
10	16 44	13 2	11 23	15 8	18 54
15	16 3	11 39	9 36	14 43	19 9
20	15 21	10 10	7 39	14 15	19 26
21	15 12	9 51	7 14	14 9	19 29
22	15 3	9 33	6 48	14 3	19 32
23	14 54	9 13	6 22	13 56	19 36
24	14 45	8 54	5 54	13 50	19 40
25	14 35	8 34	5 27	13 43	19 43
26	14 26	8 14	4 58	13 36	19 47
27	14 16	7 53	4 28	13 29	19 51
28	14 6	7 32	3 58	13 22	19 55
29	13 56	7 11	3 27	13 14	19 59
30	13 46	6 49	2 54	13 6	20 4
31	13 36	6 26	2 21	12 58	20 8
32	13 25	6 3	1 46	12 50	20 12
33	13 14	5 39	1 10	12 41	20 17
34	13 3	5 15	0 33	12 32	20 22
35	12 52	4 50	29♑55	12 23	20 27
36	12 40	4 24	29 15	12 13	20 32
37	12 28	3 58	28 33	12 2	20 37
38	12 16	3 31	27 50	11 51	20 42
39	12 3	3 3	27 5	11 40	20 48
40	11 50	2 34	26 18	11 28	20 54
41	11 37	2 4	25 29	11 16	21 0
42	11 23	1 33	24 38	11 2	21 6
43	11 8	1 1	23 44	10 48	21 13
44	10 53	0 27	22 48	10 34	21 20
45	10 38	29♐53	21 49	10 18	21 27
46	10 22	29 17	20 47	10 1	21 34
47	10 5	28 39	19 42	9 43	21 42
48	9 48	28 0	18 34	9 24	21 51
49	9 30	27 19	17 22	9 4	21 59
50	9 11	26 36	16 6	8 42	22 9
51	8 51	25 52	14 45	8 18	22 18
52	8 31	25 4	13 20	7 52	22 29
53	8 9	24 15	11 50	7 24	22 40
54	7 46	23 23	10 15	6 54	22 52
55	7 22	22 28	8 34	6 20	23 4
56	6 56	21 30	6 47	5 42	23 18
57	6 29	20 28	4 53	5 1	23 32
58	6 0	19 22	2 52	4 15	23 48
59	5 30	18 12	0 44	3 22	24 5
60	4♐57	16♐58	28♐28	2♓22	24♈24

15h 12m 0s — 228° 0' 0" — 20 ♏ 26

LAT.	11	12	ASC	2	3
0	18♐58	16♑36	15♒32	16♓57	19♈30
5	18 19	15 18	14 2	16 37	19 45
10	17 39	13 59	12 26	16 16	20 0
15	16 58	12 35	10 41	15 53	20 16
20	16 16	11 7	8 45	15 27	20 33
21	16 7	10 48	8 20	15 21	20 37
22	15 58	10 29	7 54	15 16	20 40
23	15 49	10 10	7 28	15 10	20 44
24	15 39	9 51	7 1	15 4	20 48
25	15 30	9 31	6 34	14 57	20 52
26	15 21	9 10	6 5	14 51	20 56
27	15 11	8 50	5 36	14 45	21 0
28	15 1	8 29	5 6	14 38	21 4
29	14 51	8 7	4 35	14 31	21 9
30	14 41	7 45	4 3	14 23	21 13
31	14 30	7 23	3 29	14 16	21 18
32	14 20	6 59	2 55	14 8	21 22
33	14 9	6 36	2 19	14 0	21 27
34	13 57	6 11	1 43	13 52	21 32
35	13 46	5 46	1 4	13 43	21 37
36	13 34	5 21	0 25	13 34	21 43
37	13 22	4 54	29♑43	13 24	21 48
38	13 10	4 27	29 0	13 14	21 54
39	12 57	3 59	28 15	13 3	22 0
40	12 44	3 30	27 28	12 52	22 6
41	12 30	2 59	26 39	12 41	22 12
42	12 16	2 28	25 48	12 28	22 19
43	12 2	1 56	24 55	12 15	22 26
44	11 47	1 23	23 58	12 2	22 33
45	11 31	0 48	22 59	11 47	22 41
46	11 15	0 12	21 57	11 31	22 49
47	10 58	29♐34	20 52	11 15	22 57
48	10 41	28 54	19 43	10 57	23 6
49	10 23	28 13	18 31	10 38	23 15
50	10 4	27 30	17 14	10 18	23 25
51	9 44	26 45	15 53	9 56	23 35
52	9 23	25 58	14 27	9 32	23 46
53	9 1	25 8	12 57	9 5	23 58
54	8 38	24 15	11 20	8 37	24 10
55	8 13	23 19	9 38	8 5	24 23
56	7 47	22 21	7 49	7 31	24 38
57	7 20	21 18	5 54	6 52	24 53
58	6 51	20 12	3 51	6 9	25 10
59	6 19	19 1	1 41	5 20	25 28
60	5♐46	17♐45	29♐22	4♓24	25♈47

15h 16m 0s — 229° 0' 0" — 21 ♏ 26

LAT.	11	12	ASC	2	3
0	19♐53	17♑32	16♒33	18♓2	20♈34
5	19 14	16 15	15 4	17 44	20 50
10	18 34	14 55	13 29	17 24	21 6
15	17 53	13 32	11 46	17 3	21 22
20	17 10	12 3	9 51	16 39	21 40
21	17 2	11 45	9 26	16 34	21 44
22	16 53	11 26	9 1	16 29	21 48
23	16 43	11 7	8 35	16 23	21 52
24	16 34	10 47	8 9	16 18	21 56
25	16 25	10 28	7 41	16 12	22 0
26	16 15	10 7	7 13	16 6	22 5
27	16 5	9 47	6 44	16 0	22 9
28	15 56	9 26	6 14	15 54	22 13
29	15 45	9 4	5 43	15 47	22 18
30	15 35	8 42	5 12	15 41	22 23
31	15 25	8 19	4 39	15 34	22 27
32	15 14	7 56	4 5	15 27	22 32
33	15 3	7 32	3 29	15 19	22 37
34	14 52	7 8	2 53	15 11	22 43
35	14 40	6 43	2 14	15 3	22 48
36	14 28	6 17	1 35	14 55	22 54
37	14 16	5 51	0 54	14 46	22 59
38	14 4	5 23	0 11	14 37	23 5
39	13 51	4 55	29♑26	14 27	23 12
40	13 38	4 26	28 39	14 17	23 18
41	13 24	3 56	27 51	14 6	23 25
42	13 10	3 24	26 59	13 55	23 32
43	12 55	2 52	26 6	13 43	23 39
44	12 40	2 18	25 10	13 30	23 47
45	12 24	1 43	24 11	13 17	23 55
46	12 8	1 7	23 8	13 2	24 3
47	11 51	0 29	22 3	12 47	24 12
48	11 34	29♐49	20 54	12 31	24 21
49	11 15	29 8	19 41	12 13	24 31
50	10 56	28 24	18 24	11 54	24 41
51	10 36	27 39	17 2	11 34	24 52
52	10 15	26 51	15 36	11 11	25 3
53	9 53	26 1	14 4	10 47	25 15
54	9 29	25 8	12 27	10 21	25 29
55	9 5	24 11	10 43	9 52	25 42
56	8 38	23 12	8 53	9 20	25 57
57	8 11	22 9	6 56	8 44	26 14
58	7 41	21 1	4 51	8 4	26 31
59	7 9	19 50	2 38	7 18	26 50
60	6♐35	18♐33	0♑17	6♓27	27♈11

15h 20m 0s — 230° 0' 0" — 22 ♏ 25

LAT.	11	12	ASC	2	3
0	20♐49	18♑28	17♒33	19♓7	21♈38
5	20 9	17 11	16 6	18 50	21 54
10	19 29	15 52	14 33	18 33	22 11
15	18 48	14 29	12 51	18 13	22 29
20	18 5	13 0	10 58	17 51	22 48
21	17 56	12 42	10 33	17 47	22 52
22	17 47	12 23	10 8	17 42	22 56
23	17 38	12 4	9 43	17 37	23 0
24	17 29	11 44	9 17	17 32	23 4
25	17 19	11 25	8 49	17 27	23 9
26	17 10	11 4	8 22	17 21	23 13
27	17 0	10 44	7 53	17 16	23 18
28	16 50	10 23	7 23	17 10	23 22
29	16 40	10 1	6 53	17 4	23 27
30	16 30	9 39	6 21	16 58	23 32
31	16 19	9 16	5 48	16 52	23 37
32	16 8	8 53	5 15	16 45	23 42
33	15 57	8 29	4 40	16 38	23 47
34	15 46	8 5	4 3	16 31	23 53
35	15 34	7 40	3 25	16 24	23 59
36	15 22	7 14	2 46	16 16	24 4
37	15 10	6 47	2 5	16 8	24 10
38	14 58	6 20	1 22	16 0	24 17
39	14 45	5 52	0 38	15 51	24 23
40	14 31	5 22	29♑51	15 41	24 30
41	14 18	4 52	29 3	15 32	24 37
42	14 3	4 21	[illegible] 12	15 21	24 44
43	13 49	3 48	2[illegible] 18	15 10	24 52
44	13 33	3 14	26 22	14 59	25 0
45	13 18	2 39	25 23	14 46	25 8
46	13 1	2 2	24 20	14 33	25 17
47	12 44	1 24	23 15	14 19	25 26
48	12 27	0 44	22 6	14 4	25 36
49	12 8	0 3	20 52	13 48	25 46
50	11 49	29♐19	19 35	13 31	25 57
51	11 28	28 33	18 13	13 12	26 8
52	11 7	27 45	16 45	12 52	26 20
53	10 45	26 54	15 13	12 30	26 33
54	10 21	26 0	13 34	12 6	26 47
55	9 56	25 4	11 49	11 39	27 1
56	9 30	24 4	9 58	11 10	27 17
57	9 1	23 0	7 59	10 37	27 34
58	8 31	21 51	5 52	10 0	27 52
59	7 59	20 39	3 37	9 18	28 12
60	7♐25	19♐21	1♑13	8♓31	28♈34

15h 24m 0s — 231° 0' 0" — 23 ♏ 23

LAT.	11	12	ASC	2	3
0	21♐44	19♑24	18♒34	20♓12	22♈42
5	21 4	18 7	17 8	19 57	22 59
10	20 24	16 48	15 36	19 41	23 17
15	19 43	15 26	13 56	19 23	23 35
20	19 0	13 57	12 5	19 4	23 55
21	18 51	13 39	11 41	19 0	23 59
22	18 42	13 20	11 16	18 55	24 3
23	18 33	13 1	10 51	18 51	24 8
24	18 24	12 42	10 25	18 46	24 12
25	18 14	12 22	9 58	18 42	24 17
26	18 4	12 2	9 30	18 37	24 21
27	17 55	11 41	9 2	18 32	24 26
28	17 45	11 20	8 33	18 27	24 31
29	17 34	10 58	8 3	18 21	24 36
30	17 24	10 36	7 31	18 16	24 41
31	17 13	10 14	6 59	18 10	24 46
32	17 3	9 50	6 25	18 4	24 52
33	16 51	9 27	5 51	17 58	24 57
34	16 40	9 2	5 14	17 52	25 3
35	16 28	8 37	4 37	17 45	25 9
36	16 16	8 11	3 58	17 38	25 15
37	16 4	7 44	3 17	17 31	25 21
38	15 51	7 17	2 35	17 23	25 28
39	15 38	6 48	1 50	17 15	25 35
40	15 25	6 19	1 4	17 6	25 42
41	15 11	5 49	0 15	16 58	25 49
42	14 57	5 17	29♑25	16 48	25 57
43	14 42	4 44	28 31	16 38	26 5
44	14 27	4 11	27 35	16 28	26 13
45	14 11	3 35	26 36	16 17	26 22
46	13 54	2 58	25 34	16 5	26 31
47	13 37	2 20	24 28	15 52	26 40
48	13 19	1 40	23 18	15 39	26 50
49	13 1	0 58	22 5	15 24	27 1
50	12 41	0 14	20 47	15 8	27 12
51	12 21	29♐28	19 24	14 51	27 24
52	11 59	28 39	17 56	14 33	27 36
53	11 37	27 48	16 23	14 13	27 50
54	11 13	26 54	14 43	13 51	28 4
55	10 48	25 56	12 57	13 27	28 19
56	10 21	24 56	11 4	13 0	28 36
57	9 52	23 51	9 3	12 30	28 54
58	9 22	22 42	6 54	11 57	29 13
59	8 49	21 28	4 37	11 19	29 33
60	8♐14	20♐9	2♑10	10♓36	29♈56

APRIL 1975

LONGITUDE

Day	Sid. Time (h m s)	☉ (° ' ")	☽ (° ' ")	☽ 12 Hour (° ' ")	Mean ☊ (° ')	True ☊ (° ')
1	12 34 56	10♈ 38 38	11♐ 4 57	17♐ 38 24	3♐ 50	2♐ 10
2	12 38 53	11 37 50	24 5 33	0♑ 26 55	3 46	2 11
3	12 42 49	12 37 1	6♑ 43 3	12 54 31	3 43	2 12R
4	12 46 46	13 36 10	19 1 58	25 5 59	3 40	2 12
5	12 50 42	14 35 17	1♒ 7 11	7♒ 6 9	3 37	2 10
6	12 54 39	15 34 22	13 3 29	18 59 40	3 34	2 7
7	12 58 35	16 33 26	24 55 13	0♓ 50 36	3 30	2 1
8	13 2 32	17 32 27	6♓ 46 13	12 42 26	3 27	1 54
9	13 6 28	18 31 27	18 39 34	24 37 54	3 24	1 46
10	13 10 25	19 30 25	0♈ 37 42	6♈ 39 9	3 21	1 38
11	13 14 22	20 29 21	12 42 27	18 47 45	3 18	1 30
12	13 18 18	21 28 15	24 55 11	1♉ 4 53	3 15	1 23
13	13 22 15	22 27 6	7♉ 16 59	13 31 36	3 11	1 19
14	13 26 11	23 25 56	19 48 53	26 8 59	3 8	1 16D
15	13 30 8	24 24 44	2♊ 32 4	8♊ 58 18	3 5	1 15
16	13 34 4	25 23 30	15 27 55	22 1 6	3 2	1 16
17	13 38 1	26 22 13	28 38 4	5♋ 19 3	2 59	1 18
18	13 41 57	27 20 55	12♋ 4 13	18 53 44	2 56	1 19
19	13 45 54	28 19 34	25 47 43	2♌ 46 14	2 52	1 20R
20	13 49 51	29 18 11	9♌ 49 12	16 56 31	2 49	1 20
21	13 53 47	0♉ 16 45	24 7 53	1♍ 22 58	2 46	1 18
22	13 57 44	1 15 17	8♍ 41 12	16 1 58	2 43	1 15
23	14 1 40	2 13 48	23 24 30	0♎ 47 56	2 40	1 11
24	14 5 37	3 12 15	8♎ 11 22	15 33 49	2 36	1 7
25	14 9 33	4 10 41	22 54 21	0♏ 12 1	2 33	1 4
26	14 13 30	5 9 6	7♏ 26 0	14 35 32	2 30	1 1
27	14 17 26	6 7 28	21 40 2	28 38 59	2 27	1 0D
28	14 21 23	7 5 40	5♐ 32 5	12♐ 19 9	2 24	1 0
29	14 25 20	8 4 7	19 0 6	25 35 3	2 21	1 1
30	14 29 16	9♉ 2 25	2♑ 4 11	8♑ 27 48	2♐ 17	1♐ 2

Day	☿ (° ')	♀ (° ')	♂ (° ')	♃ (° ')	♄ (° ')	♅ (° ')	♆ (° ')	♇ (° ')
1	23♓ 49	14♉ 36	21♒ 46	3♈ 13	12♋ 14	1♏ 17R	11♐ 43R	7♎ 49R
2	25 33	15 48	22 32	3 27	12 16	1 15	11 42	7 47
3	27 18	16 59	23 18	3 42	12 18	1 12	11 42	7 46
4	29 4	18 11	24 3	3 56	12 20	1 10	11 41	7 44
5	0♈ 52	19 23	24 49	4 11	12 23	1 8	11 40	7 42
6	2 41	20 35	25 35	4 25	12 25	1 5	11 40	7 41
7	4 32	21 46	26 20	4 40	12 27	1 3	11 39	7 39
8	6 24	22 58	27 6	4 54	12 30	1 0	11 38	7 37
9	8 18	24 9	27 52	5 8	12 33	0 58	11 37	7 36
10	10 13	25 20	28 38	5 23	12 36	0 55	11 37	7 34
11	12 9	26 31	29 23	5 37	12 39	0 53	11 36	7 33
12	14 7	27 43	0♓ 9	5 51	12 42	0 50	11 35	7 31
13	16 6	28 54	0 55	6 5	12 45	0 48	11 34	7 29
14	18 7	0♊ 5	1 40	6 20	12 48	0 45	11 33	7 28
15	20 9	1 15	2 26	6 34	12 51	0 43	11 32	7 26
16	22 12	2 26	3 12	6 48	12 55	0 40	11 31	7 25
17	24 17	3 37	3 58	7 2	12 58	0 38	11 30	7 23
18	26 22	4 47	4 43	7 16	13 2	0 35	11 29	7 21
19	28 28	5 58	5 29	7 30	13 6	0 32	11 28	7 20
20	0♉ 35	7 8	6 15	7 44	13 9	0 30	11 27	7 18
21	2 43	8 19	7 0	7 58	13 13	0 27	11 26	7 17
22	4 51	9 29	7 46	8 12	13 17	0 25	11 25	7 15
23	6 58	10 39	8 32	8 26	13 21	0 22	11 24	7 14
24	9 6	11 49	9 17	8 40	13 25	0 20	11 22	7 12
25	11 13	12 58	10 3	8 54	13 30	0 17	11 21	7 11
26	13 20	14 8	10 49	9 7	13 34	0 15	11 20	7 10
27	15 25	15 18	11 34	9 21	13 38	0 12	11 19	7 8
28	17 29	16 27	12 20	9 35	13 43	0 9	11 17	7 7
29	19 31	17 37	13 5	9 49	13 47	0 7	11 16	7 5
30	21♉ 31	18♊ 46	13♓ 51	10♈ 2	13♋ 52	0♏ 4	11♐ 15	7♎ 4

DECLINATION and LATITUDE

Day	☉ Decl	☽ Decl	☽ Lat	☽ 12 Hr. Decl	☿ Decl	☿ Lat	♀ Decl	♀ Lat	♂ Decl	♂ Lat	♃ Decl	♃ Lat	♄ Decl	♄ Lat
1	4N13	21S19	0N40	21S30	4S35	2S19	16N49	0N37	15S25	1S14	0N17	1S 5	22N40	0S13
2	4 36	21 24	1 55	21 0	3 53	2 18	17 13	0 40	15 10	1 14	0 23	1 5	22 40	0 13
3	4 59	20 22	2 55	19 29	3 9	2 15	17 37	0 44	14 56	1 15	0 29	1 5	22 40	0 13
4	5 22	18 23	3 45	17 5	2 24	2 13	17 60	0 47	14 41	1 15	0 35	1 5	22 40	0 12
5	5 45	15 37	4 24	13 60	1 38	2 10	18 23	0 50	14 27	1 16	0 40	1 5	22 40	0 12
6	6 8	12 14	4 51	10 22	0 51	2 6	18 45	0 53	14 12	1 17	0 46	1 5	22 40	0 12
7	6 31	8 25	5 6	6 22	0 4	2 2	19 7	0 57	13 57	1 17	0 52	1 5	22 39	0 12
8	6 53	4 16	5 7	2 8	0N45	1 57	19 29	0 60	13 42	1 18	0 57	1 5	22 39	0 12
9	7 16	0N 2	4 55	2N13	1 34	1 52	19 50	1 3	13 27	1 18	1 3	1 5	22 39	0 12
10	7 38	4 23	4 30	6 30	2 25	1 46	20 10	1 6	13 11	1 19	1 9	1 5	22 39	0 12
11	8 0	8 35	3 53	10 36	3 16	1 40	20 30	1 9	12 56	1 20	1 14	1 5	22 39	0 12
12	8 22	12 30	3 4	14 18	4 8	1 33	20 50	1 12	12 40	1 20	1 20	1 5	22 39	0 12
13	8 44	15 56	2 7	17 25	5 1	1 26	21 8	1 15	12 24	1 21	1 25	1 5	22 39	0 11
14	9 6	18 41	1 2	19 45	5 54	1 19	21 27	1 18	12 9	1 21	1 31	1 5	22 38	0 11
15	9 28	20 33	0S 7	21 7	6 47	1 11	21 45	1 22	11 53	1 22	1 36	1 5	22 38	0 11
16	9 49	21 23	1 17	21 22	7 41	1 2	22 2	1 25	11 37	1 22	1 42	1 5	22 38	0 11
17	10 11	21 2	2 24	20 25	8 36	0 53	22 19	1 28	11 21	1 23	1 47	1 5	22 38	0 11
18	10 32	19 30	3 24	18 18	9 30	0 44	22 35	1 30	11 4	1 23	1 53	1 5	22 37	0 11
19	10 53	16 49	4 15	15 5	10 24	0 34	22 50	1 33	10 48	1 24	1 58	1 6	22 37	0 11
20	11 14	13 7	4 51	10 57	11 18	0 24	23 5	1 36	10 32	1 24	2 4	1 6	22 37	0 11
21	11 34	8 36	5 10	6 7	12 12	0 14	23 20	1 39	10 15	1 25	2 9	1 6	22 37	0 11
22	11 55	3 31	5 10	0 52	13 5	0 3	23 33	1 42	9 59	1 25	2 15	1 6	22 36	0 10
23	12 15	1S49	4 49	4S29	13 58	0N 8	23 46	1 45	9 42	1 26	2 20	1 6	22 36	0 10
24	12 35	7 4	4 10	9 34	14 49	0 19	23 59	1 47	9 25	1 26	2 26	1 6	22 36	0 10
25	12 55	11 54	3 14	14 3	15 40	0 29	24 11	1 50	9 9	1 27	2 31	1 6	22 35	0 10
26	13 14	15 58	2 6	17 38	16 29	0 40	24 22	1 53	8 52	1 27	2 36	1 6	22 35	0 10
27	13 34	19 0	0 51	20 4	17 16	0 51	24 32	1 55	8 35	1 28	2 42	1 6	22 35	0 10
28	13 53	20 49	0N25	21 15	18 2	1 1	24 42	1 58	8 18	1 28	2 47	1 6	22 34	0 10
29	14 12	21 22	1 37	21 11	18 45	1 11	24 51	2 0	8 1	1 29	2 52	1 6	22 34	0 10
30	14N31	20S43	2N43	19S59	19N27	1N21	25N 0	2N 2	7S44	1S29	2N57	1S 6	22N34	0S10

Day	♅ Decl	♅ Lat	♆ Decl	♆ Lat	♇ Decl	♇ Lat
1	11S24	0N34	20S38	1N35	12N49	17N20
5	11 20	0 34	20 37	1 35	12 51	17 20
9	11 17	0 34	20 36	1 35	12 54	17 20
13	11 13	0 34	20 36	1 35	12 56	17 20
17	11 10	0 34	20 35	1 36	12 58	17 19
21	11 6	0 34	20 34	1 36	12 59	17 18
25	11 3	0 34	20 34	1 36	13 1	17 18
29	10S59	0N34	20S33	1N36	13N 2	17N17

☽ PHENOMENA

d	h	m	
3	12	26	☾
11	16	40	●
19	4	42	☽
25	19	56	○

d	h	° '
1	13	21S30
9	0	0
16	5	21N24
22	16	0
28	23	21S22

d	h	° '
7	14	5N 8
14	22	0
21	12	5S12
27	16	0

VOID OF COURSE ☽

Last Aspect		☽ Ingress		
2	3am 9	2	♑	11am 9
3	10pm 9	4	♒	9pm46
7	3am 5	7	♓	10am17
9	12pm15	9	♈	10pm45
11	4pm40	12	♉	9am34
13	10am33	14	♊	7pm15
16	7pm35	17	♋	2am28
19	5am27	19	♌	7am15
20	2am45	21	♍	9am43
22	7am33	23	♎	10am42
24	8am33	25	♏	11am40
26	11am35	27	♐	2pm20
28	9pm15	29	♑	8pm 9

d	h	
7	16	APOGEE
23	13	PERIGEE

DAILY ASPECTARIAN

Day	Aspect	Time
1 T	☽☌♆	1am 9
	☽⚻♄	2 6
	☽⚻♀	7 3
	☉∥☿	8 11
	☽∠♅	9 29
	☽✶♂	8pm54
2 W	☉△♆	1am46
	☽□☿	3 9
	♂⚼♇	7 45
	☽✶♅	1pm29
	☽⚼♀	1 59
	☉□♄	4 1
	☽□♃	6 5
	☽∥♆	7 39
3 Th	☽□♇	2am 1
	☽∠♂	3 15
	☽⚺♆	9 38
	☽☍♄	10 51
	☉□☽	12pm26
	☽△♀	10 9
4 F	☽∥♀	3am11
	☽⚺♂	10 36
	☿ ♈	12pm29
	☽∠♆	3 8
	♀∠♃	6 54
	☽✶☿	11 24
5 S	☽□♅	0am 1
	☿⚻♅	3 23
	☽✶♃	6 15
	☽∥♂	9 28
	☽△♇	1pm11
	☽∥♇	7 50
	☽✶♆	9 11
	☽⚻♄	10 42
6 Su	☿∥♃	2am31
	☉✶☽	5 32
	☽∥♅	5 59
	☽∠☿	11 4
	☽∠♃	1pm 8
	☽□♀	4 54
	☽⚼♇	7 25
7 M	☿☌♃	1am53
	☽☌♂	3 5
	☽⚼♄	5 10
	☉∥☽	10 16
	☽△♅	12pm22
	☉∠☽	2 40
	♀⚼♇	5 24
	☽⚺♃	8 8
	☽⚺☿	11 7
8 T	☽⚻♇	1am43
	☿∥♃	6 47
	☽□♆	9 49
	☽△♄	11 38
	♂⚼♄	1pm21
	☿☍♇	3 19
	☽∥☿	4 32
	☽∥♃	6 8
	☽⚼♅	6 35
	☉⚺☽	11 42
9 W	☽∥♃	5am42
	☽∥☿	10 30
	☽✶♀	12pm15
	☽⚺♂	7 44
10 Th	☽⚻♅	0am35
	☿∠♀	4 2
	☽☌♃	9 39
	☽☍♇	1pm47
	☿△♆	5 10
	☉∥☽	8 16
	☽∠♀	9 24
	☽△♆	9 48
	☽☌☿	10 42
	☽□♄	11 52
11 F	♂∥♇	1am29
	☽∠♂	3 32
	☿□♄	6 9
	♀∥♆	7 21
	☽∥♅	4pm 0
	☉☌☽	4 40
	♂ ♓	7 16
	♀∠♄	11 39
12 S	☽∥♂	1am 0
	☽∥♇	2 43
	☽⚼♆	3 14
	☽⚺♀	6 1
	☽✶♂	10 52
	☽☍♅	11 29
	☿∠♂	8pm12
	♂△♅	8 32
	☽⚺♃	9 39
13 Su	☽⚻♇	0am24
	☽⚻♆	8 14
	☽✶♄	10 33
	☽⚺☿	8pm 9
	♀ ♊	10 27
14 M	☽∠♃	2am56
	☽⚼♇	5 1
	☉⚺☽	7 26
	♀⚻♅	1pm17
	☽∠♄	3 11
	☽⚻♅	8 36
	☽☌♀	9 22
	☽□♂	11 48
15 T	☽∥♆	0am36
	☽∠☿	5 49
	☽✶♃	7 40
	☽△♇	9 8
	☉∠☽	1pm52
	☽☍♆	4 44
	☽⚺♄	7 16
16 W	☽⚼♅	0am22
	☽✶☿	2pm38
	☉✶☽	7 35
17 Th	☉⚼♆	3am 8
	☽△♅	3 35
	☽∥♆	9 18
	☽⚺♀	9 49
	☽△♂	10 9
	☽□♃	3pm20
	☽□♇	3 39
	♂∥♅	4 48
	♀□♂	7 54
	☽⚻♆	10 58
18 F	☿⚼♆	1am20
	☽☌♄	1 42
	♀∥♄	4 4
	♃☍♇	8 17
	☽⚼♂	2pm14
	☽∠♀	2 50
	☉☌☿	8 56
	☉∥♂	8 59
19 S	☽⚼♆	1am 9
	☉□☽	4 42
	☽□☿	5 27
	☿∥♂	8 7
	☽□♅	8 9
	☉∥♅	4pm56
	☿ ♉	5 21
	☽⚻♂	5 35
	☽✶♀	7 2
	☿∥♅	7 8
	☽✶♇	7 45
	☽△♃	8 24
	☉∥☿	8 34
	☿☍♅	11 1
20 Su	☽∥♇	0am46
	☽△♆	2 45
	♀△♇	3 23
	☽⚺♄	5 40
	☽∥☿	8 22
	☉∥☽	9 44
	☽∥♅	11 6
	☽∥♂	3pm 5
	♀✶♃	3 18
	☉ ♉	5 8
	☽∠♇	8 56
	☽⚼♃	10 2
21 M	☉☍♅	4am 9
	☽∠♄	6 48
	♂⚻♇	8 28
	☽✶♅	10 26
	☉△☽	10 55
	☽△☿	4pm37
	☿∥♇	9 27
	☽⚺♇	9 40
	☽☍♂	10 24
	☽⚻♃	11 12
22 T	☽□♀	1am25
	☽□♆	4 27
	☽∥♃	5 41
	☽✶♄	7 33
	☽∠♅	10 57
	☉⚼☽	1pm14
	♂⚺♃	7 46
	☽⚼☿	9 17
23 W	☽∥♃	2am23
	☿⚻♇	2 53
	☽⚺♅	11 16
	♀☍♆	3pm 7
	☉⚻☽	3 20
	☿⚺♃	6 27
	☽☌♇	10 24
24 Th	☽☍♃	0am47
	☽⚻☿	1 44
	☽⚻♂	1 53
	☿✶♂	3 16
	☽✶♆	5 10
	☽△♀	6 24
	☽□♄	8 33
	☽∥♂	10 41
	☽∥♅	7pm31
25 F	☿⚻♆	1am28
	☽⚼♂	3 43
	☽∠♆	5 39
	☉∥☽	5 57
	☽∥♇	6 5
	☉∥♇	7 37
	☽⚼♀	9 3
	♀⚺♄	11 25
	☽☌♅	12pm 6
	☉☍☽	7 56
	☽⚺♇	11 33
26 S	☿✶♄	2am48
	☽⚻♃	2 52
	☽∥☿	4 31
	☽△♂	5 58
	☽⚺♆	6 31
	☽△♄	10 19
	☽☍☿	11 35
	☽⚻♀	12pm14
	♂□♆	4 4
	☿⚺♀	8 40
	♀⚼♅	10 5
27 Su	☽∠♇	0am48
	☽⚼♃	4 40
	☽⚼♄	12pm 3
	☽⚺♅	2 39
	☽∥♆	7 8
28 M	☉⚻♇	0am23
	☽✶♇	2 46
	☉⚻☽	2 57
	☽△♃	7 15
	☽☌♆	10 9
	☽□♂	12pm44
	☽⚻♄	2 34
	☽∠♅	5 1
	☽☍♀	9 15
29 T	☽⚻☿	1am 6
	☉⚼☽	7 59
	☽✶♅	8pm18
30 W	♂△♄	0am34
	☽∥♆	3 10
	☿⚼♇	6 31
	☽□♇	9 21
	☽⚼☿	9 52
	☽∥☿	2pm 0
	☉△☽	2 11
	☽□♃	3 15
	☽⚺♆	5 15
	☽☍♄	10 25
	☽✶♂	11 40

♈	N	♑
♎	S	♓
° ′	° ′	° ′
0 00	0 00	30 00
10	0 04	50
20	0 08	40
30	0 12	30
40	0 15	20
50	0 19	10
1 00	0 23	29 00
10	0 27	50
20	0 31	40
30	0 35	30
40	0 39	20
50	0 43	10
2 00	0 47	28 00
10	0 51	50
20	0 55	40
30	1 00	30
40	1 04	20
50	1 08	10
3 00	1 12	27 00
10	1 16	50
20	1 20	40
30	1 24	30
40	1 28	20
50	1 32	10
4 00	1 36	26 00
10	1 39	50
20	1 44	40
30	1 48	30
40	1 51	20
50	1 55	10
5 00	1 59	25 00
10	2 03	50
20	2 07	40
30	2 11	30
40	2 15	20
50	2 19	10
6 00	2 23	24 00

♈	N	♑
♎	S	♓
° ′	° ′	° ′
6 00	2 23	24 00
10	2 27	50
20	2 31	40
30	2 35	30
40	2 39	20
50	2 43	10
7 00	2 47	23 00
10	2 51	50
20	2 55	40
30	2 59	30
40	3 03	20
50	3 07	10
8 00	3 11	22 00
10	3 15	50
20	3 19	40
30	3 23	30
40	3 27	20
50	3 31	10
9 00	3 34	21 00
10	3 38	50
20	3 42	40
30	3 46	30
40	3 50	20
50	3 54	10
10 00	3 58	20 00
10	4 02	50
20	4 06	40
30	4 10	30
40	4 14	20
50	4 18	10
11 00	4 22	19 00
10	4 26	50
20	4 29	40
30	4 33	30
40	4 37	20
50	4 41	10
12 00	4 45	18 00

♈	N	♑
♎	S	♓
° ′	° ′	° ′
12 00	4 45	18 00
10	4 49	50
20	4 53	40
30	4 57	30
40	5 01	20
50	5 04	10
13 00	5 08	17 00
10	5 12	50
20	5 16	40
30	5 20	30
40	5 24	20
50	5 28	10
14 00	5 32	16 00
10	5 36	50
20	5 40	40
30	5 43	30
40	5 47	20
50	5 51	10
15 00	5 55	15 00
10	5 59	50
20	6 03	40
30	6 06	30
40	6 10	20
50	6 14	10
16 00	6 18	14 00
10	6 22	50
20	6 26	40
30	6 29	30
40	6 33	20
50	6 37	10
17 00	6 41	13 00
10	6 45	50
20	6 49	40
30	6 52	30
40	6 56	20
50	7 00	10
18 00	7 04	12 00

♈	N	♑
♎	S	♓
° ′	° ′	° ′
18 00	7 04	12 00
10	7 08	50
20	7 12	40
30	7 15	30
40	7 19	20
50	7 23	10
19 00	7 27	11 00
10	7 31	50
20	7 34	40
30	7 38	30
40	7 41	20
50	7 45	10
20 00	7 49	10 00
10	7 53	50
20	7 56	40
30	8 00	30
40	8 03	20
50	8 07	10
21 00	8 11	9 00
10	8 15	50
20	8 19	40
30	8 22	30
40	8 26	20
50	8 30	10
22 00	8 34	8 00
10	8 38	50
20	8 42	40
30	8 45	30
40	8 49	20
50	8 53	10
23 00	8 56	7 00
10	9 00	50
20	9 04	40
30	9 08	30
40	9 12	20
50	9 16	10
24 00	9 19	6 00

♈	N	♑
♎	S	♓
° ′	° ′	° ′
24 00	9 19	6 00
10	9 22	50
20	9 26	40
30	9 30	30
40	9 33	20
50	9 37	10
25 00	9 41	5 00
10	9 45	50
20	9 48	40
30	9 51	30
40	9 55	20
50	9 59	10
26 00	10 02	4 00
10	10 05	50
20	10 09	40
30	10 13	30
40	10 17	20
50	10 21	10
27 00	10 25	3 00
10	10 28	50
20	10 31	40
30	10 35	30
40	10 39	20
50	10 43	10
28 00	10 46	2 00
10	10 49	50
20	10 53	40
30	10 57	30
40	11 01	20
50	11 04	10
29 00	11 07	1 00
10	11 10	50
20	11 14	40
30	11 17	30
40	11 21	20
50	11 25	10
30 00	11 28	0 00

♉	N	♒
♍	S	♌
° ′	° ′	° ′
0 00	11 28	30 00
10	11 31	50
20	11 35	40
30	11 38	30
40	11 41	20
50	11 45	10
1 00	11 49	29 00
10	11 53	50
20	11 57	40
30	12 00	30
40	12 04	20
50	12 08	10
2 00	12 11	28 00
10	12 14	50
20	12 17	40
30	12 21	30
40	12 24	20
50	12 27	10
3 00	12 31	27 00
10	12 35	50
20	12 39	40
30	12 42	30
40	12 45	20
50	12 49	10
4 00	12 52	26 00
10	12 55	50
20	12 58	40
30	13 02	30
40	13 05	20
50	13 08	10
5 00	13 12	25 00
10	13 15	50
20	13 18	40
30	13 22	30
40	13 25	20
50	13 28	10
6 00	13 32	24 00

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° ′	° ′	° ′
6 00	13 32	24 00
10	13 35	50
20	13 38	40
30	13 42	30
40	13 45	20
50	13 48	10
7 00	13 52	23 00
10	13 55	50
20	13 58	40
30	14 02	30
40	14 05	20
50	14 08	10
8 00	14 11	22 00
10	14 14	50
20	14 17	40
30	14 21	30
40	14 24	20
50	14 27	10
9 00	14 30	21 00
10	14 33	50
20	14 36	40
30	14 40	30
40	14 43	20
50	14 46	10
10 00	14 49	20 00
10	14 52	50
20	14 55	40
30	14 58	30
40	15 01	20
50	15 04	10
11 00	15 07	19 00
10	15 10	50
20	15 13	40
30	15 17	30
40	15 20	20
50	15 23	10
12 00	15 26	18 00

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° ′	° ′	° ′
12 00	15 26	18 00
10	15 29	50
20	15 32	40
30	15 36	30
40	15 39	20
50	15 42	10
13 00	15 45	17 00
10	15 48	50
20	15 51	40
30	15 54	30
40	15 57	20
50	16 00	10
14 00	16 03	16 00
10	16 06	50
20	16 09	40
30	16 12	30
40	16 15	20
50	16 18	10
15 00	16 20	15 00
10	16 23	50
20	16 26	40
30	16 29	30
40	16 32	20
50	16 35	10
16 00	16 38	14 00
10	16 41	50
20	16 44	40
30	16 47	30
40	16 50	20
50	16 53	10
17 00	16 55	13 00
10	16 58	50
20	17 01	40
30	17 04	30
40	17 07	20
50	17 10	10
18 00	17 12	12 00

♉	N	♒
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° ′	° ′	° ′
18 00	17 12	12 00
10	17 15	50
20	17 18	40
30	17 21	30
40	17 24	20
50	17 27	10
19 00	17 29	11 00
10	17 32	50
20	17 35	40
30	17 37	30
40	17 39	20
50	17 42	10
20 00	17 45	10 00
10	17 47	50
20	17 51	40
30	17 53	30
40	17 55	20
50	17 58	10
21 00	18 01	9 00
10	18 03	50
20	18 05	40
30	18 08	30
40	18 11	20
50	18 13	10
22 00	18 16	8 00
10	18 19	50
20	18 22	40
30	18 24	30
40	18 26	20
50	18 29	10
23 00	18 32	7 00
10	18 35	50
20	18 38	40
30	18 40	30
40	18 42	20
50	18 45	10
24 00	18 47	6 00

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° ′	° ′	° ′
24 00	18 47	6 00
10	18 49	50
20	18 51	40
30	18 54	30
40	18 56	20
50	18 59	10
25 00	19 01	5 00
10	19 03	50
20	19 06	40
30	19 08	30
40	19 10	20
50	19 13	10
26 00	19 16	4 00
10	19 18	50
20	19 21	40
30	19 23	30
40	19 25	20
50	19 28	10
27 00	19 30	3 00
10	19 32	50
20	19 35	40
30	19 37	30
40	19 39	20
50	19 42	10
28 00	19 44	2 00
10	19 46	50
20	19 48	40
30	19 51	30
40	19 53	20
50	19 55	10
29 00	19 57	1 00
10	19 59	50
20	20 01	40
30	20 03	30
40	20 05	20
50	20 07	10
30 00	20 09	0 00

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° ′	° ′	° ′
0 00	20 09	30 00
10	20 11	50
20	20 13	40
30	20 15	30
40	20 17	20
50	20 19	10
1 00	20 22	29 00
10	20 24	50
20	20 26	40
30	20 28	30
40	20 30	20
50	20 32	10
2 00	20 34	28 00
10	20 36	50
20	20 38	40
30	20 40	30
40	20 42	20
50	20 44	10
3 00	20 46	27 00
10	20 48	50
20	20 50	40
30	20 52	30
40	20 54	20
50	20 55	10
4 00	20 57	26 00
10	20 59	50
20	21 01	40
30	21 03	30
40	21 05	20
50	21 07	10
5 00	21 08	25 00
10	21 10	50
20	21 11	40
30	21 13	30
40	21 15	20
50	21 16	10
6 00	21 18	24 00

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6 00	21 18	24 00
10	21 20	50
20	21 22	40
30	21 24	30
40	21 26	20
50	21 27	10
7 00	21 29	23 00
10	21 31	50
20	21 33	40
30	21 34	30
40	21 35	20
50	21 37	10
8 00	21 39	22 00
10	21 41	50
20	21 43	40
30	21 44	30
40	21 45	20
50	21 47	10
9 00	21 48	21 00
10	21 50	50
20	21 52	40
30	21 53	30
40	21 54	20
50	21 56	10
10 00	21 57	20 00
10	21 59	50
20	22 00	40
30	22 02	30
40	22 03	20
50	22 05	10
11 00	22 06	19 00
10	22 08	50
20	22 09	40
30	22 10	30
40	22 11	20
50	22 13	10
12 00	22 14	18 00

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° ′	° ′	° ′
12 00	22 14	18 00
20	22 17	40
40	22 20	20
13 00	22 22	17 00
20	22 25	40
40	22 28	20
14 00	22 30	16 00
20	22 32	40
40	22 34	20
15 00	22 36	15 00
20	22 38	40
40	22 40	20
16 00	22 42	14 00
20	22 44	40
40	22 47	20
17 00	22 49	13 00
30	22 52	30
18 00	22 54	12 00
30	22 57	30
19 00	23 00	11 00
30	23 02	30
20 00	23 04	10 00
30	23 06	30
21 00	23 08	9 00
30	23 10	30
22 00	23 12	8 00
30	23 14	30
23 00	23 16	7 00
30	23 18	30
24 00	23 19	6 00
30	23 21	30
25 00	23 22	5 00
26 00	23 23	4 00
27 00	23 24	3 00
28 00	23 25	2 00
29 00	23 26	1 00
30 00	23 27	0 00

Time Zones of the World

STANDARD TIME NAME	ABBREV	MERIDIAN	h m
GREENWICH	GMT	0°W	0
WEST AFRICA	WAT	15	1
AZORES	AT	30	2
BRAZIL ZONE 2		45	3
NEWFOUNDLAND	NST	52°W 30'	3:30
ATLANTIC	AST	60	4
EASTERN	EST	75	5
CENTRAL	CST	90	6
MOUNTAIN	MST	105	7
PACIFIC	PST	120	8
YUKON	YST	135	9
ALASKA-HAWAII	AHST	150	10
HAWAIIAN	HST	157°W 30'	10:30
NOME	NT	165	11
BERING	BST	165	11
INT'L DATE LINE		180°W	12

STANDARD TIME NAME	ABBREV	MERIDIAN	h m
CENTRAL EUROPEAN	CET	15°E	1
MIDDLE EUROPE	MET	15	1
EASTERN EUROPEAN	EET	30	2
BAGHDAD	BT	45	3
USSR ZONE 3		60	4
USSR ZONE 4		75	5
INDIAN	IST	82°E 30'	5:30
USSR ZONE 5		90	6
NORTH SUMATRA	NST	97°E 30'	6:30
SOUTH SUMATRA	SST	105	7
JAVA	JT	112°E 30'	7:30
CHINA COAST	CCT	120	8
JAPAN	JST	135	9
SOUTH AUSTRALIA	SAST	142°E 30'	9:30
GUAM	GST	150	10
		165	11
NEW ZEALAND	NZT	180°E	12

Solar-Sidereal Time Correction

MIN	0h m	0h s	1h m	1h s	2h m	2h s	3h m	3h s	4h m	4h s	5h m	5h s	6h m	6h s	7h m	7h s	8h m	8h s	9h m	9h s	10h m	10h s	11h m	11h s	12h m	12h s	13h m	13h s	14h m	14h s	15h m	15h s	16h m	16h s	17h m	17h s	18h m	18h s	19h m	19h s	20h m	20h s	21h m	21h s	22h m	22h s	23h m	23h s	MIN
0	0	0	0	10	0	20	0	30	0	39	0	49	0	59	1	9	1	19	1	29	1	39	1	48	1	58	2	8	2	18	2	28	2	38	2	48	2	57	3	7	3	17	3	27	3	37	3	47	0
1	0	0	0	10	0	20	0	30	0	40	0	49	0	59	1	9	1	19	1	29	1	39	1	49	1	58	2	8	2	18	2	28	2	38	2	48	2	58	3	7	3	17	3	27	3	37	3	47	1
2	0	0	0	10	0	20	0	30	0	40	0	50	0	59	1	9	1	19	1	29	1	39	1	49	1	59	2	8	2	18	2	28	2	38	2	48	2	58	3	8	3	17	3	27	3	37	3	47	2
3	0	0	0	10	0	20	0	30	0	40	0	50	1	0	1	9	1	19	1	29	1	39	1	49	1	59	2	9	2	18	2	28	2	38	2	48	2	58	3	8	3	17	3	27	3	37	3	47	3
4	0	1	0	11	0	20	0	30	0	40	0	50	1	0	1	10	1	20	1	29	1	39	1	49	1	59	2	9	2	19	2	29	2	38	2	48	2	58	3	8	3	18	3	28	3	38	3	48	4
5	0	1	0	11	0	21	0	30	0	40	0	50	1	0	1	10	1	20	1	30	1	39	1	49	1	59	2	9	2	19	2	29	2	39	2	48	2	58	3	8	3	18	3	28	3	38	3	48	5
6	0	1	0	11	0	21	0	31	0	40	0	50	1	0	1	10	1	20	1	30	1	40	1	49	1	59	2	9	2	19	2	29	2	39	2	49	2	58	3	8	3	18	3	28	3	38	3	48	6
7	0	1	0	11	0	21	0	31	0	41	0	50	1	0	1	10	1	20	1	30	1	40	1	50	1	59	2	9	2	19	2	29	2	39	2	49	2	59	3	8	3	18	3	28	3	38	3	48	7
8	0	1	0	11	0	21	0	31	0	41	0	51	1	0	1	10	1	20	1	30	1	40	1	50	1	60	2	9	2	19	2	29	2	39	2	49	2	59	3	9	3	18	3	28	3	38	3	48	8
9	0	1	0	11	0	21	0	31	0	41	0	51	1	1	1	10	1	20	1	30	1	40	1	50	1	60	2	10	2	19	2	29	2	39	2	49	2	59	3	9	3	19	3	28	3	38	3	48	9
10	0	2	0	11	0	21	0	31	0	41	0	51	1	1	1	11	1	20	1	30	1	40	1	50	1	60	2	10	2	20	2	29	2	39	2	49	2	59	3	9	3	19	3	29	3	38	3	48	10
11	0	2	0	12	0	22	0	31	0	41	0	51	1	1	1	11	1	21	1	31	1	40	1	50	2	0	2	10	2	20	2	30	2	40	2	49	2	59	3	9	3	19	3	29	3	39	3	49	11
12	0	2	0	12	0	22	0	32	0	41	0	51	1	1	1	11	1	21	1	31	1	41	1	50	2	0	2	10	2	20	2	30	2	40	2	50	2	59	3	9	3	19	3	29	3	39	3	49	12
13	0	2	0	12	0	22	0	32	0	42	0	51	1	1	1	11	1	21	1	31	1	41	1	51	2	0	2	10	2	20	2	30	2	40	2	50	2	59	3	9	3	19	3	29	3	39	3	49	13
14	0	2	0	12	0	22	0	32	0	42	0	52	1	1	1	11	1	21	1	31	1	41	1	51	2	1	2	10	2	20	2	30	2	40	2	50	2	60	3	10	3	19	3	29	3	39	3	49	14
15	0	2	0	12	0	22	0	32	0	42	0	52	1	2	1	11	1	21	1	31	1	41	1	51	2	1	2	11	2	20	2	30	2	40	2	50	2	60	3	10	3	20	3	29	3	39	3	49	15
16	0	3	0	12	0	22	0	32	0	42	0	52	1	2	1	12	1	21	1	31	1	41	1	51	2	1	2	11	2	21	2	30	2	40	2	50	3	0	3	10	3	20	3	30	3	39	3	49	16
17	0	3	0	13	0	23	0	32	0	42	0	52	1	2	1	12	1	22	1	32	1	41	1	51	2	1	2	11	2	21	2	31	2	40	2	50	3	0	3	10	3	20	3	30	3	40	3	49	17
18	0	3	0	13	0	23	0	33	0	42	0	52	1	2	1	12	1	22	1	32	1	42	1	51	2	1	2	11	2	21	2	31	2	41	2	51	3	0	3	10	3	20	3	30	3	40	3	50	18
19	0	3	0	13	0	23	0	33	0	43	0	52	1	2	1	12	1	22	1	32	1	42	1	52	2	1	2	11	2	21	2	31	2	41	2	51	3	0	3	10	3	20	3	30	3	40	3	50	19
20	0	3	0	13	0	23	0	33	0	43	0	53	1	2	1	12	1	22	1	32	1	42	1	52	2	2	2	11	2	21	2	31	2	41	2	51	3	1	3	11	3	20	3	30	3	40	3	50	20
21	0	3	0	13	0	23	0	33	0	43	0	53	1	3	1	12	1	22	1	32	1	42	1	52	2	2	2	12	2	21	2	31	2	41	2	51	3	1	3	11	3	21	3	30	3	40	3	50	21
22	0	4	0	13	0	23	0	33	0	43	0	53	1	3	1	13	1	22	1	32	1	42	1	52	2	2	2	12	2	22	2	31	2	41	2	51	3	1	3	11	3	21	3	31	3	41	3	50	22
23	0	4	0	14	0	23	0	33	0	43	0	53	1	3	1	13	1	23	1	32	1	42	1	52	2	2	2	12	2	22	2	32	2	41	2	51	3	1	3	11	3	21	3	31	3	41	3	50	23
24	0	4	0	14	0	24	0	34	0	43	0	53	1	3	1	13	1	23	1	33	1	43	1	52	2	2	2	12	2	22	2	32	2	42	2	52	3	1	3	11	3	21	3	31	3	41	3	51	24
25	0	4	0	14	0	24	0	34	0	44	0	53	1	3	1	13	1	23	1	33	1	43	1	53	2	2	2	12	2	22	2	32	2	42	2	52	3	2	3	11	3	21	3	31	3	41	3	51	25
26	0	4	0	14	0	24	0	34	0	44	0	54	1	3	1	13	1	23	1	33	1	43	1	53	2	3	2	12	2	22	2	32	2	42	2	52	3	2	3	12	3	21	3	31	3	41	3	51	26
27	0	4	0	14	0	24	0	34	0	44	0	54	1	4	1	13	1	23	1	33	1	43	1	53	2	3	2	13	2	22	2	32	2	42	2	52	3	2	3	12	3	22	3	31	3	41	3	51	27
28	0	5	0	14	0	24	0	34	0	44	0	54	1	4	1	14	1	23	1	33	1	43	1	53	2	3	2	13	2	23	2	32	2	42	2	52	3	2	3	12	3	22	3	32	3	41	3	51	28
29	0	5	0	15	0	24	0	34	0	44	0	54	1	4	1	14	1	24	1	33	1	43	1	53	2	3	2	13	2	23	2	33	2	42	2	52	3	2	3	12	3	22	3	32	3	42	3	51	29
30	0	5	0	15	0	25	0	34	0	44	0	54	1	4	1	14	1	24	1	34	1	43	1	53	2	3	2	13	2	23	2	33	2	43	2	52	3	2	3	12	3	22	3	32	3	42	3	52	30
31	0	5	0	15	0	25	0	35	0	45	0	54	1	4	1	14	1	24	1	34	1	44	1	54	2	3	2	13	2	23	2	33	2	43	2	53	3	3	3	12	3	22	3	32	3	42	3	52	31
32	0	5	0	15	0	25	0	35	0	45	0	55	1	4	1	14	1	24	1	34	1	44	1	54	2	4	2	13	2	23	2	33	2	43	2	53	3	3	3	13	3	22	3	32	3	42	3	52	32
33	0	5	0	15	0	25	0	35	0	45	0	55	1	5	1	14	1	24	1	34	1	44	1	54	2	4	2	14	2	23	2	33	2	43	2	53	3	3	3	13	3	23	3	32	3	42	3	52	33
34	0	6	0	15	0	25	0	35	0	45	0	55	1	5	1	15	1	24	1	34	1	44	1	54	2	4	2	14	2	24	2	33	2	43	2	53	3	3	3	13	3	23	3	33	3	42	3	52	34
35	0	6	0	16	0	25	0	35	0	45	0	55	1	5	1	15	1	25	1	34	1	44	1	54	2	4	2	14	2	24	2	34	2	43	2	53	3	3	3	13	3	23	3	33	3	43	3	52	35
36	0	6	0	16	0	26	0	35	0	45	0	55	1	5	1	15	1	25	1	35	1	44	1	54	2	4	2	14	2	24	2	34	2	44	2	53	3	3	3	13	3	23	3	33	3	43	3	53	36
37	0	6	0	16	0	26	0	36	0	46	0	55	1	5	1	15	1	25	1	35	1	45	1	55	2	5	2	14	2	24	2	34	2	44	2	54	3	3	3	13	3	23	3	33	3	43	3	53	37
38	0	6	0	16	0	26	0	36	0	46	0	56	1	5	1	15	1	25	1	35	1	45	1	55	2	5	2	14	2	24	2	34	2	44	2	54	3	3	3	13	3	23	3	33	3	43	3	53	38
39	0	6	0	16	0	26	0	36	0	46	0	56	1	6	1	15	1	25	1	35	1	45	1	55	2	5	2	15	2	24	2	34	2	44	2	54	3	4	3	14	3	23	3	33	3	43	3	53	39
40	0	7	0	16	0	26	0	36	0	46	0	56	1	6	1	16	1	25	1	35	1	45	1	55	2	5	2	15	2	25	2	34	2	44	2	54	3	4	3	14	3	24	3	34	3	43	3	53	40
41	0	7	0	17	0	26	0	36	0	46	0	56	1	6	1	16	1	26	1	35	1	45	1	55	2	5	2	15	2	25	2	35	2	44	2	54	3	4	3	14	3	24	3	34	3	44	3	53	41
42	0	7	0	17	0	27	0	36	0	46	0	56	1	6	1	16	1	26	1	36	1	45	1	55	2	5	2	15	2	25	2	35	2	45	2	54	3	4	3	14	3	24	3	34	3	44	3	54	42
43	0	7	0	17	0	27	0	37	0	46	0	56	1	6	1	16	1	26	1	36	1	46	1	55	2	5	2	15	2	25	2	35	2	45	2	54	3	4	3	14	3	24	3	34	3	44	3	54	43
44	0	7	0	17	0	27	0	37	0	47	0	57	1	6	1	16	1	26	1	36	1	46	1	56	2	5	2	15	2	25	2	35	2	45	2	55	3	4	3	14	3	24	3	34	3	44	3	54	44
45	0	7	0	17	0	27	0	37	0	47	0	57	1	7	1	16	1	26	1	36	1	46	1	56	2	6	2	16	2	25	2	35	2	45	2	55	3	5	3	15	3	24	3	34	3	44	3	54	45
46	0	8	0	17	0	27	0	37	0	47	0	57	1	7	1	17	1	26	1	36	1	46	1	56	2	6	2	16	2	26	2	35	2	45	2	55	3	5	3	15	3	25	3	35	3	44	3	54	46
47	0	8	0	18	0	27	0	37	0	47	0	57	1	7	1	17	1	27	1	36	1	46	1	56	2	6	2	16	2	26	2	36	2	45	2	55	3	5	3	15	3	25	3	35	3	45	3	54	47
48	0	8	0	18	0	28	0	37	0	47	0	57	1	7	1	17	1	27	1	37	1	46	1	56	2	6	2	16	2	26	2	36	2	46	2	55	3	5	3	15	3	25	3	35	3	45	3	54	48
49	0	8	0	18	0	28	0	38	0	47	0	57	1	7	1	17	1	27	1	37	1	46	1	56	2	6	2	16	2	26	2	36	2	46	2	55	3	5	3	15	3	25	3	35	3	45	3	55	49
50	0	8	0	18	0	28	0	38	0	48	0	57	1	7	1	17	1	27	1	37	1	47	1	57	2	6	2	16	2	26	2	36	2	46	2	56	3	6	3	15	3	25	3	35	3	45	3	55	50
51	0	8	0	18	0	28	0	38	0	48	0	58	1	8	1	17	1	27	1	37	1	47	1	57	2	7	2	17	2	26	2	36	2	46	2	56	3	6	3	16	3	26	3	35	3	45	3	55	51
52	0	9	0	18	0	28	0	38	0	48	0	58	1	8	1	18	1	27	1	37	1	47	1	57	2	7	2	17	2	27	2	36	2	46	2	56	3	6	3	16	3	26	3	36	3	45	3	55	52
53	0	9	0	19	0	28	0	38	0	48	0	58	1	8	1	18	1	28	1	37	1	47	1	57	2	7	2	17	2	27	2	37	2	46	2	56	3	6	3	16	3	26	3	36	3	46	3	55	53
54	0	9	0	19	0	29	0	38	0	48	0	58	1	8	1	18	1	28	1	38	1	47	1	57	2	7	2	17	2	27	2	37	2	47	2	56	3	6	3	16	3	26	3	36	3	46	3	56	54
55	0	9	0	19	0	29	0	39	0	48	0	58	1	8	1	18	1	28	1	38	1	48	1	57	2	7	2	17	2	27	2	37	2	47	2	57	3	6	3	16	3	26	3	36	3	46	3	56	55
56	0	9	0	19	0	29	0	39	0	49	0	58	1	8	1	18	1	28	1	38	1	48	1	58	2	7	2	17	2	27	2	37	2	47	2	57	3	7	3	16	3	26	3	36	3	46	3	56	56
57	0	9	0	19	0	29	0	39	0	49	0	59	1	9	1	18	1	28	1	38	1	48	1	58	2	8	2	17	2	27	2	37	2	47	2	57	3	7	3	17	3	26	3	36	3	46	3	56	57
58	0	10	0	19	0	29	0	39	0	49	0	59	1	9	1	19	1	28	1	38	1	48	1	58	2	8	2	18	2	28	2	37	2	47	2	57	3	7	3	17	3	27	3	37	3	46	3	56	58
59	0	10	0	20	0	29	0	39	0	49	0	59	1	9	1	19	1	29	1	38	1	48	1	58	2	8	2	18	2	28	2	38	2	47	2	57	3	7	3	17	3	27	3	37	3	47	3	56	59
60	0	10	0	20	0	30	0	39	0	49	0	59	1	9	1	19	1	29	1	39	1	48	1	58	2	8	2	18	2	28	2	38	2	48	2	57	3	7	3	17	3	27	3	37	3	47	3	57	60

Time Correction for Longitude

DEGREES									MINUTES		
°	h	m	°	h	m	°	h	m	'	m	s
1	0	4	61	4	4	121	8	4	1	0	4
2	0	8	62	4	8	122	8	8	2	0	8
3	0	12	63	4	12	123	8	12	3	0	12
4	0	16	64	4	16	124	8	16	4	0	16
5	0	20	65	4	20	125	8	20	5	0	20
6	0	24	66	4	24	126	8	24	6	0	24
7	0	28	67	4	28	127	8	28	7	0	28
8	0	32	68	4	32	128	8	32	8	0	32
9	0	36	69	4	36	129	8	36	9	0	36
10	0	40	70	4	40	130	8	40	10	0	40
11	0	44	71	4	44	131	8	44	11	0	44
12	0	48	72	4	48	132	8	48	12	0	48
13	0	52	73	4	52	133	8	52	13	0	52
14	0	56	74	4	56	134	8	56	14	0	56
15	1	0	75	5	0	135	9	0	15	1	0
16	1	4	76	5	4	136	9	4	16	1	4
17	1	8	77	5	8	137	9	8	17	1	8
18	1	12	78	5	12	138	9	12	18	1	12
19	1	16	79	5	16	139	9	16	19	1	16
20	1	20	80	5	20	140	9	20	20	1	20
21	1	24	81	5	24	141	9	24	21	1	24
22	1	28	82	5	28	142	9	28	22	1	28
23	1	32	83	5	32	143	9	32	23	1	32
24	1	36	84	5	36	144	9	36	24	1	36
25	1	40	85	5	40	145	9	40	25	1	40
26	1	44	86	5	44	146	9	44	26	1	44
27	1	48	87	5	48	147	9	48	27	1	48
28	1	52	88	5	52	148	9	52	28	1	52
29	1	56	89	5	56	149	9	56	29	1	56
30	2	0	90	6	0	150	10	0	30	2	0
31	2	4	91	6	4	151	10	4	31	2	4
32	2	8	92	6	8	152	10	8	32	2	8
33	2	12	93	6	12	153	10	12	33	2	12
34	2	16	94	6	16	154	10	16	34	2	16
35	2	20	95	6	20	155	10	20	35	2	20
36	2	24	96	6	24	156	10	24	36	2	24
37	2	28	97	6	28	157	10	28	37	2	28
38	2	32	98	6	32	158	10	32	38	2	32
39	2	36	99	6	36	159	10	36	39	2	36
40	2	40	100	6	40	160	10	40	40	2	40
41	2	44	101	6	44	161	10	44	41	2	44
42	2	48	102	6	48	162	10	48	42	2	48
43	2	52	103	6	52	163	10	52	43	2	52
44	2	56	104	6	56	164	10	56	44	2	56
45	3	0	105	7	0	165	11	0	45	3	0
46	3	4	106	7	4	166	11	4	46	3	4
47	3	8	107	7	8	167	11	8	47	3	8
48	3	12	108	7	12	168	11	12	48	3	12
49	3	16	109	7	16	169	11	16	49	3	16
50	3	20	110	7	20	170	11	20	50	3	20
51	3	24	111	7	24	171	11	24	51	3	24
52	3	28	112	7	28	172	11	28	52	3	28
53	3	32	113	7	32	173	11	32	53	3	32
54	3	36	114	7	36	174	11	36	54	3	36
55	3	40	115	7	40	175	11	40	55	3	40
56	3	44	116	7	44	176	11	44	56	3	44
57	3	48	117	7	48	177	11	48	57	3	48
58	3	52	118	7	52	178	11	52	58	3	52
59	3	56	119	7	56	179	11	56	59	3	56
60	4	0	120	8	0	180	12	0	60	4	0

Universal to Ephemeris Time Correction (ΔT)

ADD TO UNIVERSAL TIME
ENTRIES FOR JULY 1st

YEAR	SECONDS	YEAR	SECONDS
1860	3	1921	21
1861	3	1922	22
1862	3	1923	22
1863	3	1924	22
1864	2	1925	23
1865	2	1926	23
1866	1	1927	23
1867	1	1928	23
1868	0	1929	23
1869	-1	1930	23
1870	-2	1931	23
1871	-3	1932	24
1872	-5	1933	24
1873	-6	1934	24
1874	-7	1935	24
1875	-7	1936	24
1876	-8	1937	24
1877	-8	1938	24
1878	-8	1939	24
1879	-8	1940	24
1880	-8	1941	25
1881	-8	1942	25
1882	-8	1943	25
1883	-8	1944	26
1884	-8	1945	27
1885	-8	1946	27
1886	-8	1947	28
1887	-8	1948	28
1888	-8	1949	29
1889	-8	1950	29
1890	-8	1951	30
1891	-8	1952	30
1892	-8	1953	31
1893	-8	1954	31
1894	-8	1955	31
1895	-8	1956	32
1896	-7	1957	32
1897	-7	1958	32
1898	-6	1959	33
1899	-5	1960	33
1900	-4	1961	34
1901	-3	1962	34
1902	-1	1963	35
1903	0	1964	35
1904	2	1965	36
1905	3	1966	37
1906	5	1967	38
1907	6	1968	39
1908	8	1969	40
1909	9	1970	41
1910	10	1971	42
1911	12	1972	43
1912	13	1973	44
1913	14	1974	45
1914	15	1975	46
1915	16	1976	47*
1916	17	1977	48*
1917	18	1978	?
1918	19	1979	?
1919	20	1980	?
1920	21	1981	?

*ESTIMATE

1978 48''
1979 50''
1980 51''
1981 52''
1982 53''
1983 54''
1984 55''
1985 55''
1986 56''
1987 57''
1988 56''

Future year values may be obtained from the AFA Mundane Data

SECTION FIVE

AN ACCURATE METHOD OF CALCULATING PLANETS UNUNIFORM IN MOTION

INTERPOLATION COEFFICIENTS

1st AND 2nd ORDER

S	S1	S2	S	S1	S2	S	S1	S2
.00	.00000	.00000						
.01	.00495	.00328	.36	.11520	.06298	.71	.10295	.04427
.02	.00980	.00647	.37	.11655	.06333	.72	.10080	.04301
.03	.01455	.00955	.38	.11780	.06361	.73	.09855	.04172
.04	.01920	.01254	.39	.11895	.06384	.74	.09620	.04040
.05	.02375	.01544	.40	.12000	.06400	.75	.09375	.03906
.06	.02820	.01824	.41	.12095	.06410	.76	.09120	.03770
.07	.03255	.02094	.42	.12180	.06415	.77	.08855	.03631
.08	.03680	.02355	.43	.12255	.06413	.78	.08580	.03489
.09	.04095	.02607	.44	.12320	.06406	.79	.08295	.03346
.10	.04500	.02850	.45	.12375	.06394	.80	.08000	.03200
.11	.04895	.03084	.46	.12420	.06376	.81	.07695	.03052
.12	.05280	.03309	.47	.12455	.06352	.82	.07380	.02903
.13	.05655	.03525	.48	.12480	.06323	.83	.07055	.02751
.14	.06020	.03732	.49	.12495	.06289	.84	.06720	.02598
.15	.06375	.03931	.50	.12500	.06250	.85	.06375	.02444
.16	.06720	.04122	.51	.12495	.06206	.86	.06020	.02288
.17	.07055	.04304	.52	.12480	.06157	.87	.05655	.02130
.18	.07380	.04477	.53	.12455	.06103	.88	.05280	.01971
.19	.07695	.04643	.54	.12420	.06044	.89	.04895	.01811
.20	.08000	.04800	.55	.12375	.05981	.90	.04500	.01650
.21	.08295	.04949	.56	.12320	.05914	.91	.04095	.01488
.22	.08580	.05091	.57	.12255	.05842	.92	.03680	.01325
.23	.08855	.05224	.58	.12180	.05765	.93	.03255	.01161
.24	.09120	.05350	.59	.12095	.05685	.94	.02820	.00996
.25	.09375	.05469	.60	.12000	.05600	.95	.02375	.00831
.26	.09620	.05580	.61	.11895	.05511	.96	.01920	.00666
.27	.09855	.05683	.62	.11780	.05419	.97	.01455	.00500
.28	.10080	.05779	.63	.11655	.05322	.98	.00980	.00333
.29	.10295	.05868	.64	.11520	.05222	.99	.00495	.00167
.30	.10500	.05950	.65	.11375	.05119	1.00	.00000	.00000
.31	.10695	.06025	.66	.11220	.05012			
.32	.10880	.06093	.67	.11055	.04901			
.33	.11055	.06154	.68	.10880	.04787			
.34	.11220	.06208	.69	.10695	.04670			
.35	.11375	.06256	.70	.10500	.04550			

AN ACCURATE METHOD OF CALCULATING

PLANETS PLACES WHEN THEY ARE UNUNIFORM IN MOTION

The use of a modern hand held calculator containing degrees, minutes and seconds plus the interpolation coefficients from Newton's Binomial Interpolation Formula will allow today's astrologer to calculate the Moon especially and other planets very accurately when their motion is ununiform. That is when then they are speeding up or slowing down. An extra convenience in calculating is to use the diurnal motions given in Raphael's Ephemeris.

The technique is to solve for the planets place in the customary manner but then to take the first difference in diurnal motion and multiply by the first coefficient and add that value if the planet is slowing down or subtract if the planet is speeding up. Next we take the second diurnal difference and multiply by the second coefficient and do the opposite. If we added in the first instance we now subtract or if we subtracted in the first case we now add as the exact equation alternates in sign.

EXAMPLE ONE

from Raphael's Ephemeris for 1980 calculate the Moon's exact position at midnight Jan. 10th, when its diurnal motion is increasing. The exact value of 25Lib29′ 04′′ is given in the ephemeris.

Jan.	Moon	D0	D1	D2
10	19Lib28′ 06′′			
11	31Lib33′ 27′′	12° 05′ 21′′		
12	43Lib54′ 46′′	12° 21′ 19′′	15′ 58′′	
13	56Lib36′ 20′′	12° 41′ 34′′	20′ 15′′	4′ 17′′

Calculating in the usual manner

[(31lib33′ 27′′ - 19Lib28′ 06′′) X 0.5] + 19Lib28′ 16′′ = 25Lib30′ 46.5′′

gives results that are in error by 1′ 42.5′′

In The Coefficiency Table, page 53

S = E.G.M.T.I.
S1 = 1st coefficient
S2 = 2nd coefficient

To make the necessary corrections take the first difference in diurnal motion (S1), 15′ 58′′ and multiply by the value corresponding to the E.G.M.T.I. (0.125). 15′ 58′′ X 0.125 = 2′ 00′′. Because the Moon is speeding up and our value has overshot we must subtract. Then 25Lib30′ 46′′ - 2′ 00′′ = 25Lib28′ 46′′. Only off by 17′′. To make a further correction take the 2nd coefficient corresponding to the E.G.M.T.I. = 0.0625 and multiply by the second diurnal difference. 4′ 17′′ X 0.0625 = 16′′. Now we add as the factor always alternates in sign. 25Lib28′ 46′′ + 16′′ = 25Lib29′ 02.0′′. Final figure off by 1′′.

EXAMPLE TWO

From Raphael's Ephemeris for 1980 calculate the Moon's exact position at midnight Jan. 1st, where it is slowing down in motion. The exact value 6Can14′ 44′′ is given in the ephemeris.

Jan.	Moon	D0	D1	D2
1	29Gem43′ 43′′			
2	42Gem41′ 54′′	12° 58′ 11′′		
3	55Gem24′ 24′′	12° 42′ 30′′	15′ 41′′	
4	67Gem51′ 22′′	12° 26′ 58′′	15′ 32′′	9′′

Calculating In The Customary manner

[(42Gem41′ 54′′ - 29Gem43′ 43′′) X 0.5] + 29Gem43′ 43′′ = 6Can12′ 49′′

in error by 1′ 55′′

Again the E.G.M.T.I. = 0.125 so, 15′ 41′′ X 0.125 = 1′ 58′′. Then as the Moon is slowing down we add 1′ 58′′ + 6Can12′ 49′′ = 6Can14′ 47′′. Only off by 3′′. taking the next difference of 9′′ and multiplying by 0.0625 we get 0.6′′. So subtracting 1′′ we get 6Can14′ 46′′ or only off by 2′′.

EXAMPLE THREE

From the ZERO HOUR (midnight) AMERICAN EPHEMERIS for 1980 calculate the Moon's exact position at noon Feb. 7th, where it is speeding up or increasing in motion. The exact value in the ephemeris is 27Lib36′ 49′′.

Feb.	Moon	D0	D1	D2
7	21Lib38′ 46′			
8	33Lib37′ 16′′	11° 58′ 30′′		
9	45Lib47′ 42′	12° 10′ 26′′	11′ 56′′	
10	58Lib14′ 43′′	12° 27′ 01′′	16′ 35′′	4′ 39′′

Calculating in the usual manner

[(33Lib37′ 16′′ - 21Lib38′ 46′′) X 0.5] + 21Lib38′ 46′′ = 27Lib38′ 01′′

In error by 1′ 12′′

Again, the coefficiency table gives an E.G.M.T.I. of 0.5 = 0.125, then 11′ 56′′ X 0.125 = 1′ 30′′. So 27Lib38′ 01′′ minus 1′ 30′′ = 27Lib36′ 31′′. Only off by 18′′. To make a further correction we take 4′ 39′′ X 0.0625 = 17′′ and now add, giving 27Lib36′ 48′′. Only off by 1′′.

EXAMPLE FOUR

From the zero hour American Ephemeris for 1980 calculate the Moon's exact position at noon Feb. 18th where it is slowing down. The exact value of 28Pis55′ 29′′ is given in the ephemeris.

Feb.	Moon	D0	D1	D2
18	21Pis24′ 35′′			
19	36Pis23′ 59′′	14° 58′ 24′′		
20	51Pis10′ 10′′	14° 46′ 11′′	13′ 13′′	
21	65Pis37′ 23′′	14° 27′ 13′′	18′ 58′′	5′ 45′′

Calculating in the usual manner

[(36Pis23′ 59′′ - 21Pis24′ 35′′) X 0.5] + 21Pis24′ 35′′ = 28Pis54′ 17′′

In error by 1′ 12′′

The correction then is 13′ 13′′ X 0.125 = 1′ 39′′ which is to be added. 28Pis54′ 17′′ + 1′ 39′′ = 28Pis55′ 56′′. Only in error by 27′′. Correcting again 5′ 45′′ X 0.0625 = 22′′ which is to be subtracted giving 28Pis55′ 34′′. Only off by 5′′.

EXAMPLE FIVE

From Raphael's Ephemeris calculate the position of Mercury at midnight on Feb.14th when it is decreasing in velocity.

Feb	Mercury	D0	D1	D2
13	10Pis16′			
14	11Pis47′	1° 31′		
15	13Pis14′	1° 27′′	4′	
16	14Pis45′	1° 21′	6′	2′

Calculating in the usual manner

[(11°Pis47′ - 10°Pis16′) X 0.5] + 11° 47′ = 11° 01′ 30′′

Then 4′ X 0.125 = 30′′ to be added. So 11° 01′ 30′′ + 30′′ = 11Pis02′ 00′′. Correcting, 2 X 0.0625 = 7.5′′. 11Pis02′ 00′′ - 7.5′′ = 11Pis01′ 52.5′′.

EXAMPLE SIX

CHART "A"

April	Moon	D0	D1	D2
19	25Can47′ 43′′			
20	39Can49′ 12′′	14° 01′ 29′′		
21	54Can07′ 53′′	14° 18′ 41′′	17′ 12′′	
22	68Can41′ 12′′	14° 33′ 19′′	14′ 38′′	2′ 34′′

[(39Can49′ 12′′ - 25Can47′ 43′′) X 0.2576505] + 25° 47′ 43′′ = 29° 24′ 32′′

To correct this initial calculation we need to interpolate in Newton's values for the one corresponding to the exact E.G.M.T.I.

0.2600000 = 0.09620
0.2576505 =
0.2500000 = 0.09375

$$\frac{0.0076505 \times 0.00245}{0.0100000} = 0.0018744$$

0.09375 + 0.0018744 = 0.0956244

So 17′ 12′′ X 0.0956244 = 1′ 39′′ ans since the Moon is speeding up we must subtract.

29Can24′ 32′′ - 0° 01′ 39′′ = 29Can 22′ 53′′

the next order of correction is

0.2600000 = 0.05580
0.2576505 =
0.2500000 = 0.05469

$$\frac{0.0076506 \times 0.00111}{0.0100000} = 0.0008492$$

0.05469 + 0.0008492 = 0.0555392

So 2′ 34′′ X 0.0555392 = 24′′ then we must add
29Can22′ 23′′ + 24′′ = 29Can22′ 47′′
a much more accurate position for the Moon

CHART "A" 12 HOUR POSITIONS

April	Moon	D0	D1	D2
19	25Can47′ 43′′			
noon	32Can46′ 14′′	6° 58′ 32′′		
20	39Can49′ 12′′	7° 02′ 58′′	4′ 26′′	
noon	46Can56′ 31′′	7° 07′ 19′′	4′ 21′′	5′′

[(32Can46′ 14′′ - 25Can47′ 43′′) X 0.5153009] + 25° 47′ 43′′ = 29° 23′ 23′′

0.5200000 = 0.12480
0.5153009 =
0.5100000 = 0.12945

$$\frac{0.0053009 \times 0.00015}{0.0100000} = 0.0000795$$

So 0.12495 + 0.0000795 = 0.1250295 and 0.1250295 X 4′ 26′′ = 33′′
29Can23′ 23′′ - 33′′ = 29Can22′ 50′′

Since the answer is only 5 seconds off the 2nd order correction would be far too small to bother with.

PLEASE NOTE:

In calculating the 12 hour figures the E.G.M.T.I. is double the 24 hour figure, or can be calculated on the original chart as 12 hours. However since you already have the 24 hour figure you might as well just double it. If the E.G.M.T.I. goes over 12 hours then you must subtract 12 and use the second section of the day in the ephemeris. A little tricky but not that difficult.

SECTION SIX

CALCULATING ASTROLOGICAL LONGITUDE FROM THE RIGHT ASCENSION AND DECLINATION

It now remains to demonstrate how some proof can be given for the previous material. Therefore an accurate method of calculating astrological longitude from the right ascension and declination as given in the American Ephemeris and Nautical Almanac, 1980, is illustrated. Also values for the obliquity of the ecliptic every ten years from 1920 to 1970 are given and every year from 1974 onwards.

Where
R.A. = RIGHT ASCENSION
o.ϵ. = OBLIQUITY OF THE ECLIPTIC
Dec. = DECLINATION
Tan.r = INVERSE TANGENT
Cos. = COSINE
Sin. = SINE

The necessary formula for longitude is,

$$\text{Long.} = \text{Tan.r}\left[\text{Tan.R.A. X Cos.o}\epsilon + \frac{\text{Tan.Dec. X Sin.o}\epsilon}{\text{Cos.R.A.}}\right.$$

A trigonometric formula easily solved on today's hand calculators.

Using the American Ephemeris and Nautical Almanac, Jan. 1, 1980, given at zero hour (midnight).

Moon's right ascension (R.A.) = 5h 31′ 11.364′′
Moon's declination (Dec.) = 18° 33′ 10.21′′
Obliquity of the Ecliptic = 23° 26′ 30.78′′

Where Tan. R.A. = 7.9128717
Cos. o.ϵ. = 0.9174641
Tan. Dec. = 0.3356210
Sin. o.ϵ. = 0.3978187
Cos. R.A. = 0.1253791

Calculate the Moon's celestial longitude in the given formula

$$\text{Long.} = \text{Tan.r.}\left[\text{Tan.R.A. X Cos.o.}\epsilon. + \frac{\text{Tan.Dec. X Sin.o.}\epsilon.}{\text{Cos.R.A.}}\right]$$

$$\text{Long.} = \text{Tan.r.}\left[7.9128717 \text{ X } 0.9174641 + \frac{0.335621 \text{ X } 0.3978187}{0.12537910}\right]$$

Long. = Tan.r. [7.9128717 + 1.06490081]

Long. = Tan.r [8.3246765]

Long. = 83.150178

Long. = 83.150178 (INV. 2nd. DMS-DD) = 83.090064

Long. = (minus 60) 23° 09′ 01′′ = 23Gem09′ 01′′

NOTE: given R.A. 5h 31′ 11.364′′
first convert to °s, ′s, and ′′s. = 5.5198233
then multiply by 15 = 82.797350
then convert to Tan. = 7.9128717
and Cos. = 0.1253791

Using the American Ephemeris and Nautical Almanac Jan. 1, 1980

Given at Noon:

Moon's right ascension (R.A.) = 5h 58′ 51.343′′
Moon's declination (Dec.) = 18° 58′ 47.61′′
Obliquity of the ecliptic (o.ϵ.) = 23° 26′ 30.78′′

Where Tan. R.A. = 200.28360
Cos. o.ϵ. = 0.9174641
Tan. Dec. = 0.3439351
Sin. o.ϵ. = 0.3978187
Cos. R.A. = 0.0049929

Calculate the Moon's celestial longitude in the given formula

$$\text{Long.} = \text{Tan.r.}\left[\text{Tan R.A. X Cos.o.}\epsilon. + \frac{\text{Tan.dec. X Sin.o.}\epsilon.}{\text{Cos.R.A.}}\right.$$

$$\text{Long.} = \text{Tan.r}\left[200.28363 \text{ X } 0.9174641 + \frac{0.3439351 \text{ X } 0.3978187}{0.0049929}\right.$$

Long. = Tan.r [183.75304 + 27.4036761]

Long. = Tan.r [211.156721]

Long. = 89.72866 (INV. 2nd. DMS-DD) = 89.434318

Long. = (minus 60) 29° 43′ 43′′ = 29Gem43′ 43′′

NOTE: given R.A. =5h 58′ 51.343′′
first convert to °s, ′s, and ′′s = 5.9809286
then multiply by 15 = 89.713929
then convert to Tan. = 200.28360
and Cos. = 0.0049929

Up to six hours of right ascension, equal to ninety degrees or the classic right triangle, there is no problem. However beyond that value negative values will be encountered in the second quadrant and also in the third. Therefore after calculating longitude in the given formula, two additional rules should be followed.

RULE 1: If the Cos. R.A. is negative calculate as usual but when arriving at the answer add 180° to the longitude.

RULE 2: If the longitude is outside the range of 0° to 360° or negative, add or subtract 360° to bring the longitude between 0° and 360°. This rule must still be used even if Cos.R.A. is positive since rule 1 and 2 are independent of each other.

These rules assume your calculator calculates the inverse tangent in the range of -90° to +90° which the TI-55 or TI 55-111 and TI-60 does and most calculators do. If a calculator returns inverse Tan. between 0° and 90° and between 270° and 360° the preceeding rules still apply. However some calculators calculate the inverse tangent between 0° and 180°. For these calculators the above rules have to be modified.

SECOND QUADRANT

Calculate the longitude of the Moon at Noon Jan. 7, 1980. Where

Moon's right ascension (R.A.) = 11h 02′ 48.368′′ = 165.7015
Moon's declination (Dec.) = 7° 28′ 06.44′′
Obliquity of the ecliptic (o.ε.) = 23° 26′ 30.78′′

Tan.R.A. = (-0.2548689)
Cos.o.ε. = 0.9174641
Tan.Dec. = 0.1310924
Sin.o.ε. = 0.3978187
Cos.R.A. = (-0.9690222)

$$\text{Long.} = \text{Tan.r}\left[(-0.2548689)\ (0.9174641) + \frac{0.1310924 \times 0.3978187}{(-0.9690222)}\right.$$

Long. = Tan.r (-0.2338331) + (-0.0538182)

Long. = Tan.r (-0.2876513)

Long. = (16.04795) + 180°

Long = 163.95205 = 163° 57′ 07′′ = 13Vir57′ 07′′

SECOND QUADRANT (SECOND EXAMPLE)

Calculate the longitude of the Moon on Jan. 4, 1980 where

Moon's right ascension (R.A.) = 8h 38′ 59.450′′
2nd. DMS-DD. X 15 = 129.74771°
Moon's declination (Dec.) = 16° 25′ 15.77′′
Obliquity of the ecliptic (o.ϵ.) = 23° 26′ 30.78′′

Tan.R.A. = -1.2024671
Cos.o.ϵ. = 0.9174641
Tan.Dec. = 0.2947152
Sin.o.ϵ. = 0.3978187
Cos.R.A. = -0.6394082

$$\text{Long.} = \text{Tan.r}\left[(-1.2024671)(0.9174641) + \frac{0.2947152 \times 0.3978187}{-0.6394082}\right]$$

Long. = Tan.r (-1.2865825)

Long. (-52.143759) Since Cos.R.A. is negative add 180°

Long. = 127.856241° = 127° 51′ 22.2′′ = 7Leo51′ 22.5′′

THIRD QUADRANT

Calculate the Moon's longitude at noon Jan. 12, 1980 where

Moon's right ascension (R.A.) = 14h 51′ 52.567′′
Moon's declination (Dec.) = - 11° 14′ 53.19′′
Obliquity of the ecliptic (o.ϵ.) = 23° 26′ 30.78′′

Tan.R.A. = 0.9315040
Cos.o.ϵ. = 0.9174641
Tan.Dec. = -0.1988780
Sin.o.ϵ. = 0.3978187
Cos.R.A. = -0.7317226

$$\text{Long.} = \text{Tan.r}\left[0.9315041 \times 0.9174641 - \frac{0.198878 \times 0.3978187}{-0.7317226}\right]$$

Long. = Tan.r (0.8546216 + 0.1081248)

Long. = Tan.r(0.9627464)

Long. = 43.912637 (+180) = 223.91264 - 210° = 13Sco54′ 45.5′′

FOURTH QUADRANT

Calculate the longitude of the Moon at noon Jan. 18, 1980 where

Moon's right ascension = 20h 30′ 33.772′′ = 307.64071°
Moon's declination = - 16° 46′ 53.47′′ = - 16.781519
Obliquity of the ecliptic = 23° 26′ 30.78′′ = 23.441883°

Tan.R.A. = - 1.2966197
Cos.o.ϵ. = 0.9174641
Tan.Dec. = - 0.3015659
Sin.o.ϵ. = 0.3978187
Cos.R.A. = 0.6107079

$$\text{Long.} = \text{Tan.r}\left[(-1.29666197) \times (0.9174641) + \frac{(-0.3015659) \times 0.3978187)}{0.6107079}\right.$$

Long. = Tan.r [(-1.189602) + (0.1964418)]

Long. = Tan.r (-1.3860438)

Long. = - 54.190383 + 360° = 305.80962°

Long. = 305° 48′ 34.6′′ = 5Aqu48′ 34.6′′

SIGN	DEGREES	HOURS
ARIES	0 to 30	0 to 2
TAURUS	30 to 60	2 to 4
GEMINI	60 to 90	4 to 6
CANCER	90 to 120	6 to 8
LEO	120 to 150	8 to 10
VIRGO	150 to 180	10 to 12
LIBRA	180 to 210	12 to 14
SCORPIO	210 to 240	14 to 16
SAGITTARIUS	240 to 270	16 to 18
CAPRICORN	270 to 300	18 to 20
AQUARIUS	300 to 330	20 to 22
PISCES	330 to 360	22 to 24

THE OBLIQUITY OF THE ECLIPTIC

1920	23° 26′ 58.89″	Δε
1930	23° 26′ 54.21″	4.68
1940	23° 26′ 49.52″	4.69
1950	23° 26′ 44.84″	4.68
1960	23° 26′ 40.15″	4.69
1970	23° 26′ 35.47″	4.68
1974	23° 26′ 33.59″	1.88
1975	23° 26′ 33.12″	0.47
1976	23° 26′ 32.66″	0.46
1977	23° 26′ 32.19″	0.47
1978	23° 26′ 31.72″	0.47
1979	23° 26′ 31.25″	0.47
1980	23° 26′ 30.78″	0.47
1981	23° 26′ 30.31″	0.47
1982	23° 26′ 29.84″	0.47
1983	23° 26′ 29.37″	0.47
1984	23° 26′ 28.90″	0.47
1985	23° 26′ 28.43″	0.46
1986	23° 26′ 27.96″	0.47
1987	23° 26′ 27.49″	0.45
1988	23° 26′ 27.04″	0.45

The formula for calculating the obliquity of the ecliptic is given by

$$\epsilon = 23^\circ\ 27'\ 8.26'' - 46.837''T - 0.0085''T^2 + 0.0017''T^3$$

Where T is the fraction of a 100th for the particular year. Thus T for 1988 would be 0.88 and T squared would be 0.7744 and T cubed would be 0.681472.

	23° 26′ 68.62″
−	41.21656
−	0.0065824
+	0.0011789
	23° 26′ 27.038″

SECTION SEVEN

THREE ADDITIONAL PRACTICE CHARTS

CHART "B"

Given a birth time of 3:25:48 a.m. Pacific Daylight Time; Aug. 21, 1970; at Thrail Ca. with a latitude of 41N54 and a longitude of 122W29. The Atlas gives a Mean Time correction of - 0:09:56 and hours to Greenwich to be 8:09:56.

Then to correct the latitude 54 ÷ 60 = 0.9 and that correction we store in memory 0. In Michaelsen's American Book of Tables for the sidereal time we find a correction of 1′ 11′′ ÷ 4′ = 0.2958333 which we will store in memory 1. The E.G.M.T.I. ÷ 24 hours = 0.4350579 which we will store in memory 2.

The house cusp correction based on the American Book of Tables will look like the follolwinng.

41N54 corr. 54 ÷ 60 = 0.9

	11	12	1	2	3	10
0:16:00 =	11Tau06.9	19Gem51.8	22can53.3	12Leo14.1	5Vir05.4	4Ari22
0:13:11 =	10Tau19.0	19Gem10.3	22can18.9	11Leo38.8	4Vir25.3	3Ari35.5
0:12:00 =	9Tau58.9	18Gem52.8	22Can04.4	11Leo24.1	4Vir08.4	3Ari16

1:11 = 0.2958333
4:00

To correct the Sun

Aug. 22 Sun = 28:29:29 press 2nd, DMS-DD, = 28.491389 STO 5
Aug. 21 Sun = 27:31:42 press 2nd, DMS-DD, = 27.528333 STO 4

RCL 5 - RCL 4 = 0.963056
0.963056 X RCL 2 = 0.4189849
0.4189846 + RCL 4 = 27.947318
INV, 2nd, DMS-DD = 27.565035

Sun = 27Leo56′ 50′′

To correct the Moon

Aug 22 Moon = 35:20:43 press 2nd, DMS-DD, = 35.345278 STO 5
Aug 21 Moon = 21:18:27 press 2nd, DMS-DD, = 21.3075 STO 4

RCL 5 - RCL 4 = 14.037778
14.037778 X RCL 2 = 6.1072457
6.1072457 - RCL 4 = 27.414746
INV 2nd DMS-DD = 27.245308

Moon = 27Ari24′ 53′′

The Moon

1st order correction

Aug	Moon	D0	D1	D2
21	21Ari18′ 27′			
22	35Ari20′ 43′′	14° 02′ 16′′		
23	48Ari56′ 53′′	13° 36′ 10′′	26′ 06′′	
24	62Ari08′ 05′′	13° 11′ 12′′	24′ 58′′	1′ 08′′

The Moon is slowing down so taking Newton's value for the E.G.M.T.I. 10:26:29

0.4400000 = 0.12320
0.4350579 = (0.1228788)
0.4300000 = 0.12255

0.0050579 X 0.00065 = 0.0003288
0.0100000

26′ 06′′ X 0.1228788 = 3′ 12′′ to be added
27Ari24′ 53′′ + 3′ 12′′ = 27Ari28′ 05′′

The Moon

2nd order correction

10:26:29 = 0.0050579 = 0.50579
0.0100000

0.06413
0.06406
0.00007 X 0.50579 = 0.0000354

0.0000354 + 0.06406 = 0.0641

0.0641 X 1′ 08′′ = 7′′ to be subtracted

27Ari28′ 05′′ - 07′′ = 27Ari27′ 58′′ best value for the moon

Mercury Aug 22 25Vir04′ = 24° 64′
Aug 21 24Vir22 = 24° 22′
42′

42′ X 0.4350579 = 18.272431
18′ + 22 = 24Vir40

Mercury's declination, by inspection there is a difference of 26´.
So 26´´ X 0.4350579 = 11.311505
11´ added = 0S24

Venus Aug. 22 = 14Lib18 = 13Lib78
Aug. 21 = 13Lib16
62

Then 62 X 0.4350579 = 26.973588
adding 27´ = 13lib43

Venus, declination by inspection there is a difference of 29´
So 29 X 0.4350579 = 12.61678
21 + 13 = 34 6S34

Remember you are supposed to be using RCL 2

Aug. 22 Mars = 22Leo14 = 21Leo74
Aug. 21 Mars = 21Leo36
38

Then 38´ X RCL 2 = 16.532199
36´ + 17 = 21Leo55

Mars, declination by inspection a difference of 12´

12 X RCL 2 = 5.2206944
24 - 5 = 15N19

Aug. 22 Jupiter = 0Sco54
Aug. 21 Jupiter = 0Sco45
9

9 X RCL 2 = 3.9155208
45 + 4 = 0Sco49

Jupiter's declination, there is a difference of only three

3 X RCL 2 = 1.3051736
45 + 1 = 10S46

Saturn There is only a difference of 1′
1 X RCL 2 = 0.4350579
so no correction is made
22Tau26′

in the declination there is only a difference of 1′
so no correction is made
16N07

Uranus There is a difference of 4′
4 X RCL 2 = 1.7402315
adding 2 = 6Lib40′

There is a difference of 5′ for 4 days in the declination
5 ÷ 4 = 1.25

Aug 21 = 2S01
Aug 22 = 2S02.25
Aug 23 = 2S03.50
Aug 24 = 2S04.75
Aug 25 = 2S06

1.25 X RCL 2 = 0.5438223
so adding 1 = 2S02

Neptune There is a difference of only 1′
so no correction is made
28Sco09

no difference at all so 18S07

Pluto There is a difference of 2′
2 X RCL 2 = 0.8701157
adding 1 = 26Vir08

in declination there is a difference of 4′ for 4 days
1′ X RCL 2 = 0.4350579 so no correction is made.
15N40

The Sun Aug. 22 declination = 12N20
         Aug. 21 declination = 12N00

         20 X RCL 2 = 8.7011574
         20 - 9 = 11
         12N11

The Moon Aug. 22 declination = 11N59
          Aug. 21 declination = 17N44

          17.44 2nd DMS-DD STO 5
          11.59 2nd DMS-DD STO 4
          RCL 5 - RCL 4 = 5.75
          5.75 X RCL 2 =2.5015828
          + RCL 4 = 14.484916
          INV 2nd DMS-DD = 14N29

For the M.C. and The Asc. use the tables provided on pages 48 and 49.

M.C. = 3Ari36

3Ari40 = 1N28
3Ari36 = ?
3Ari30 = 1N24

6/10 X 4 = 2.4

24 + 2 = 26 1N26

Asc. = 22Can19

22Can 20 = 21N35
22Can 19 = ?
22Can 10 = 21N37

9/10 X 2 = 1.8

37 - 2 35 21N 35

Placidus Table of Houses for Latitudes 0° to 60° North

0h 0m 0s — 0 ♈ 0 — 0° 0' 0°

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

0h 4m 0s — 1 ♈ 5 — 1° 0' 0°

11	12	ASC	2	3	LAT.
3♓13	3♓ 3	0♉55	28♉52	28♌52	0
3 37	4 16	2 55	0♌ 3	29 13	5
4 1	5 32	4 56	1 13	29 35	10
4 27	6 52	7 0	2 23	29 57	15
4 54	8 18	9 8	3 35	0♍19	20
5 0	8 36	9 35	3 50	0 24	21
5 6	8 54	10 2	4 5	0 29	22
5 12	9 13	10 29	4 20	0 33	23
5 18	9 32	10 56	4 35	0 38	24
5 25	9 52	11 24	4 50	0 43	25
5 31	10 12	11 52	5 5	0 48	26
5 38	10 32	12 20	5 21	0 52	27
5 44	10 53	12 49	5 37	0 57	28
5 51	11 14	13 19	5 53	1 2	29
5 58	11 36	13 48	6 9	1 7	30
6 6	11 59	14 19	6 25	1 13	31
6 13	12 22	14 49	6 42	1 18	32
6 21	12 46	15 21	6 59	1 23	33
6 29	13 10	15 53	7 16	1 29	34
6 37	13 35	16 25	7 34	1 34	35
6 45	14 1	16 58	7 52	1 40	36
6 54	14 28	17 32	8 10	1 46	37
7 3	14 56	18 6	8 28	1 51	38
7 12	15 25	18 41	8 47	1 57	39
7 22	15 55	19 17	9 6	2 4	40
7 32	16 26	19 54	9 26	2 10	41
7 43	16 58	20 31	9 46	2 16	42
7 54	17 31	21 10	10 6	2 23	43
8 5	18 6	21 49	10 27	2 30	44
8 17	18 42	22 29	10 49	2 37	45
8 30	19 20	23 11	11 11	2 44	46
8 43	20 0	23 53	11 34	2 51	47
8 57	20 41	24 36	11 57	2 59	48
9 11	21 25	25 21	12 21	3 7	49
9 27	22 11	26 7	12 46	3 15	50
9 43	23 0	26 54	13 11	3 23	51
10 1	23 51	27 43	13 38	3 32	52
10 19	24 46	28 33	14 5	3 41	53
10 39	25 43	29 25	14 33	3 50	54
11 0	26 45	0♌18	15 2	4 0	55
11 23	27 51	1 13	15 32	4 10	56
11 47	29 1	2 10	16 3	4 20	57
12 14	0♍17	3 8	16 35	4 31	58
12 43	1 38	4 9	17 9	4 42	59
13♓15	3♍ 6	5♌12	17♌44	4♍54	60

0h 8m 0s — 2 ♈ 11 — 2° 0' 0°

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

0h 12m 0s — 3 ♈ 16 — 3° 0' 0°

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

0h 16m 0s — 4 ♈ 22 — 4° 0' 0°

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

0h 20m 0s — 5 ♈ 27 — 5° 0' 0°

11	12	ASC	2	3	LAT.
7♓21	6♓50	4♉35	2♌43	3♍ 3	0
7 47	8 5	6 34	3 51	3 23	5
8 14	9 23	8 34	4 58	3 42	10
8 42	10 45	10 36	6 6	4 1	15
9 12	12 12	12 43	7 15	4 21	20
9 19	12 30	13 9	7 29	4 25	21
9 25	12 49	13 35	7 43	4 29	22
9 32	13 8	14 2	7 57	4 33	23
9 38	13 27	14 28	8 12	4 37	24
9 45	13 47	14 55	8 26	4 41	25
9 52	14 7	15 23	8 41	4 45	26
10 0	14 28	15 51	8 56	4 50	27
10 7	14 49	16 19	9 11	4 54	28
10 14	15 10	16 47	9 26	4 58	29
10 22	15 32	17 16	9 41	5 3	30
10 30	15 55	17 45	9 57	5 7	31
10 38	16 18	18 15	10 13	5 12	32
10 47	16 42	18 46	10 29	5 16	33
10 55	17 7	19 16	10 45	5 21	34
11 4	17 32	19 48	11 2	5 26	35
11 14	17 58	20 20	11 19	5 31	36
11 23	18 25	20 52	11 36	5 36	37
11 33	18 52	21 25	11 53	5 41	38
11 43	19 21	21 59	12 11	5 46	39
11 54	19 51	22 33	12 29	5 52	40
12 5	20 21	23 9	12 48	5 57	41
12 16	20 53	23 45	13 6	6 3	42
12 28	21 26	24 21	13 26	6 9	43
12 41	22 1	24 59	13 46	6 14	44
12 54	22 37	25 38	14 6	6 20	45
13 8	23 14	26 17	14 27	6 27	46
13 22	23 53	26 57	14 48	6 33	47
13 37	24 34	27 39	15 10	6 40	48
13 53	25 17	28 21	15 32	6 46	49
14 10	26 2	29 5	15 55	6 53	50
14 28	26 50	29 50	16 19	7 1	51
14 47	27 40	0♍36	16 44	7 8	52
15 7	28 33	1 24	17 9	7 16	53
15 29	29 29	2 13	17 35	7 24	54
15 52	0♎28	3 3	18 2	7 32	55
16 17	1 32	3 55	18 30	7 41	56
16 44	2 39	4 49	18 59	7 50	57
17 13	3 51	5 44	19 29	8 0	58
17 45	5 9	6 41	20 0	8 9	59
18♓20	6♎33	7♍40	20♌33	8♎20	60

0h 24m 0s — 6 ♈ 32 — 6° 0' 0°

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

0h 28m 0s — 7 ♈ 37 — 7° 0' 0°

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

AUGUST 1970

LONGITUDE

Day	Sid. Time	☉	☽	☽ 12 Hour	Mean ☊	True ☊	☿	♀	♂	♃	♄	♅	♆	♇
	h m s	° ' "	° ' "	° ' "	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '
1	20 36 45	8♌ 20 19	24♋ 38 47	0♌ 37 30	4♓ 4	2♓ 54R	1♍ 11	21♍ 55	8♌ 49	28♎ 12	21♉ 35	5♎ 42	28♏ 9R	25♍ 30
2	20 40 42	9 17 45	6♌ 34 37	12 30 24	4 0	2 51	2 40	23 1	9 27	28 18	21 38	5 45	28 8	25 32
3	20 44 38	10 15 11	18 25 6	24 18 59	3 57	2 49	4 8	24 7	10 6	28 25	21 42	5 47	28 8	25 34
4	20 48 35	11 12 38	0♍ 12 21	6♍ 5 31	3 54	2 49D	5 33	25 12	10 44	28 32	21 45	5 50	28 8	25 35
5	20 52 32	12 10 6	11 58 50	17 52 41	3 51	2 49	6 57	26 18	11 23	28 38	21 48	5 52	28 8	25 37
6	20 56 28	13 7 36	23 47 26	29 43 34	3 48	2 50	8 19	27 23	12 1	28 45	21 51	5 55	28 8	25 39
7	21 0 25	14 5 5	5♎ 41 30	11♎ 41 44	3 44	2 51	9 40	28 28	12 39	28 52	21 54	5 58	28 8	25 40
8	21 4 21	15 2 36	17 44 47	23 51 10	3 41	2 53	10 58	29 33	13 18	29 0	21 57	6 0	28 7	25 42
9	21 8 18	16 0 7	0♏ 1 26	6♏ 16 7	3 38	2 54	12 14	0♎ 38	13 56	29 7	22 0	6 3	28 7	25 44
10	21 12 14	16 57 40	12 35 43	19 0 45	3 35	2 54R	13 28	1 42	14 34	29 15	22 3	6 6	28 7D	25 46
11	21 16 11	17 55 13	25 31 40	2♐ 8 51	3 32	2 54	14 40	2 47	15 13	29 22	22 5	6 9	28 7	25 48
12	21 20 7	18 52 47	8♐ 52 38	15 43 12	3 29	2 53	15 50	3 51	15 51	29 30	22 8	6 11	28 7	25 50
13	21 24 4	19 50 22	22 40 38	29 44 53	3 25	2 52	16 57	4 54	16 29	29 38	22 10	6 14	28 7	25 51
14	21 28 1	20 47 58	6♑ 55 43	14♑ 12 44	3 22	2 51	18 3	5 58	17 8	29 46	22 12	6 17	28 8	25 53
15	21 31 57	21 45 35	21 35 21	29 2 49	3 19	2 49	19 5	7 1	17 46	29 54	22 15	6 20	28 8	25 55
16	21 35 54	22 43 13	6♒ 34 12	14♒ 8 27	3 16	2 48	20 5	8 5	18 24	0♏ 2	22 17	6 23	28 8	25 57
17	21 39 50	23 40 52	21 44 27	29 20 58	3 13	2 48D	21 3	9 8	19 3	0 10	22 19	6 26	28 8	25 59
18	21 43 47	24 38 33	6♓ 56 48	14♓ 30 45	3 10	2 48	21 57	10 10	19 41	0 19	22 21	6 29	28 8	26 1
19	21 47 43	25 36 15	22 1 44	29 28 45	3 6	2 48	22 49	11 13	20 19	0 27	22 23	6 32	28 9	26 3
20	21 51 40	26 33 58	6♈ 50 59	14♈ 7 43	3 3	2 49	23 37	12 15	20 57	0 36	22 24	6 35	28 9	26 5
21	21 55 36	27 31 42	21 18 27	28 22 51	3 0	2 49	24 22	13 16	21 36	0 45	22 26	6 38	28 9	26 7
22	21 59 33	28 29 29	5♉ 20 43	12♉ 12 2	2 57	2 49	25 4	14 18	22 14	0 54	22 27	6 42	28 10	26 9
23	22 3 30	29 27 17	18 56 53	25 35 28	2 54	2 49R	25 41	15 19	22 52	1 3	22 29	6 45	28 10	26 11
24	22 7 26	0♍ 25 7	2♊ 8 5	8♊ 35 5	2 50	2 49	26 15	16 20	23 30	1 12	22 30	6 48	28 10	26 13
25	22 11 23	1 22 59	14 56 52	21 13 54	2 47	2 49	26 45	17 21	24 8	1 21	22 31	6 51	28 11	26 15
26	22 15 19	2 20 52	27 26 37	3♋ 35 31	2 44	2 49D	27 10	18 21	24 47	1 30	22 32	6 54	28 11	26 17
27	22 19 16	3 18 48	9♋ 41 2	15 43 39	2 41	2 49	27 30	19 21	25 25	1 40	22 33	6 58	28 12	26 19
28	22 23 12	4 16 45	21 43 47	27 41 53	2 38	2 49	27 46	20 21	26 3	1 49	22 34	7 1	28 13	26 21
29	22 27 9	5 14 43	3♌ 38 20	9♌ 33 30	2 35	2 50	27 56	21 20	26 41	1 59	22 35	7 4	28 13	26 24
30	22 31 5	6 12 44	15 27 46	21 21 28	2 31	2 50	28 0R	22 19	27 19	2 9	22 36	7 8	28 14	26 26
31	22 35 2	7♍ 10 46	27♌ 14 53	3♍ 8 21	2♓ 28	2♓ 50R	27♍ 59	23♎ 17	27♌ 58	2♏ 19	22♉ 36	7♎ 11	28♏ 14	26♍ 28

DECLINATION and LATITUDE

Day	☉ Decl	☽ Decl	☽ Lat	☽ 12 Hr. Decl	☿ Decl	☿ Lat	♀ Decl	♀ Lat	♂ Decl	♂ Lat	♃ Decl	♃ Lat	♄ Decl	♄ Lat
1	18N11	24N24	3N15	22N45	11N37	0N36	3N38	0N27	19N 9	1N 8	9S47	1N 8	15N58	2S16
2	17 56	20 53	2 20	18 48	10 58	0 28	3 8	0 23	18 59	1 8	9 49	1 7	15 59	2 16
3	17 41	16 33	1 19	14 9	10 18	0 19	2 38	0 19	18 48	1 8	9 52	1 7	15 60	2 16
4	17 25	11 38	0 14	8 60	9 39	0 11	2 8	0 14	18 38	1 8	9 [illegible]	1 7	16 0	2 16
5	17 9	6 17	0S50	3 32	8 59	0 2	1 38	0 10	18 28	1 8	9 57	1 7	16 1	2 17
6	16 53	0 44	1 53	2S 5	8 20	0S 7	1 7	0 5	18 17	1 8	9 60	1 7	16 2	2 17
7	16 36	4S54	2 52	7 41	7 42	0 17	0 37	0 1	18 6	1 8	10 3	1 6	16 2	2 17
8	16 20	10 25	3 44	13 4	7 3	0 26	0 7	0S 4	17 55	1 8	10 5	1 6	16 3	2 17
9	16 3	15 38	4 26	18 4	6 25	0 36	0S23	0 9	17 44	1 8	10 8	1 6	16 3	2 17
10	15 45	20 20	4 57	22 24	5 48	0 46	0 53	0 13	17 33	1 8	10 11	1 6	16 4	2 18
11	15 28	24 14	5 14	25 46	5 11	0 56	1 23	0 18	17 22	1 9	10 14	1 5	16 4	2 18
12	15 10	26 58	5 15	27 48	4 34	1 6	1 53	0 23	17·11	1 9	10 17	1 5	16 5	2 18
13	14 52	28 12	4 58	28 9	3 59	1 17	2 23	0 29	16 59	1 9	10 20	1 5	16 5	2 18
14	14 34	27 38	4 23	26 38	3 24	1 27	2 53	0 34	16 48	1 9	10 23	1 5	16 6	2 19
15	14 15	25 9	3 29	23 14	2 49	1 37	3 23	0 39	16 36	1 9	10 26	1 5	16 6	2 19
16	13 57	20 54	2 21	18 13	2 16	1 48	3 53	0 44	16 24	1 9	10 29	1 4	16 6	2 19
17	13 38	15 13	1 1	12 0	1 44	1 59	4 23	0 50	16 12	1 9	10 32	1 4	16 7	2 19
18	13 19	8 36	0N23	5 6	1 13	2 9	4 52	0 55	16 1	1 9	10 35	1 4	16 7	2 19
19	12 59	1 33	1 45	1N59	0 43	2 20	5 22	1 1	15 48	1 9	10 38	1 4	16 7	2 20
20	12 40	5N27	2 58	8 48	0 14	2 30	5 51	1 6	15 36	1 9	10 42	1 4	16 7	2 20
21	12 20	11 39	3 58	14 59	0S13	2 41	6 21	1 12	15 24	1 9	10 45	1 3	16 7	2 20
22	12 0	17 44	4 42	20 13	0 39	2 51	6 50	1 18	15 12	1 9	10 48	1 3	16 8	2 20
23	11 40	22 24	5 9	24 16	1 3	3 1	7 19	1 23	14 59	1 9	10 51	1 3	16 8	2 20
24	11 20	25 47	5 18	26 56	1 26	3 11	7 48	1 29	14 47	1 9	10 55	1 3	16 8	2 21
25	10 59	27 44	5 11	28 10	1 46	3 20	8 17	1 35	14 34	1 9	10 58	1 3	16 8	2 21
26	10 38	28 14	4 49	27 57	2 5	3 30	8 45	1 41	14 21	1 9	11 2	1 2	16 8	2 21
27	10 18	27 19	4 15	26 22	2 21	3 38	9 14	1 47	14 8	1 9	11 5	1 2	16 8	2 21
28	9 57	25 8	3 29	23 37	2 34	3 47	9 42	1 53	13 56	1 9	11 8	1 2	16 8	2 22
29	9 35	21 52	2 35	19 53	2 46	3 54	10 10	1 59	13 43	1 9	11 12	1 2	16 8	2 22
30	9 14	17 43	1 35	15 23	2 54	4 1	10 38	2 5	13 29	1 9	11 15	1 2	16 8	2 22
31	8N53	12N55	0N31	10N20	2S59	4S 8	11S 5	2S12	13N16	1N10	11S19	1N 1	16N 8	2S22

Day	♅ Decl	♅ Lat	♆ Decl	♆ Lat	♇ Decl	♇ Lat
1	1S38	0N41	18S 5	1N42	15N60	15N31
5	1 42	0 41	18 5	1 42	15 56	15 30
9	1 47	0 41	18 6	1 42	15 52	15 29
13	1 51	0 41	18 6	1 41	15 48	15 28
17	1 56	0 41	18 6	1 41	15 44	15 27
21	2 1	0 40	18 7	1 41	15 40	15 26
25	2 6	0 40	18 7	1 41	15 36	15 25
29	2S12	0N40	18S 8	1N40	15N33	15N25

☽ PHENOMENA

d	h	m	
2	5	59	●
10	8	50	☽
17	3	16	○☍
23	20	35	☾
31	22	2	●☌

d	h	° '
6	3	0
13	5	28S15
19	5	0
25	20	28N15

d	h	° '
4	5	0
11	13	5S17
17	17	0
24	1	5N18
31	11	0

VOID OF COURSE ☽

Last Aspect		☽ Ingress		
1	7am11	1	♌	10am45
3	8pm33	3	♍	11pm35
6	8am46	6	♎	12pm33
8	10pm14	8	♏	11pm57
11	4am44	11	♐	8am 8
13	11am35	13	♑	12pm25
15	1pm29	15	♒	1pm31
17	10am 5	17	♓	1pm 2
19	9am51	19	♈	12pm31
21	11am19	21	♉	2pm47
23	4pm43	23	♊	8pm 4
25	11pm26	26	♋	4am58
28	1pm 2	28	♌	4pm39
31	2am 1	31	♍	5am36

d	h	
3	22	APOGEE
17	7	PERIGEE
31	1	APOGEE

DAILY ASPECTARIAN

Day	Aspect	Time
1 S	☽⚹♇	1am43
	☽△♆	7 1
	☽□♃	7 11
	☉∥♆	8 48
	☽⚺♆	3pm 0
	♄∥♇	4 24
	☽⚹♅	10 19
2 Su	☽∠♀	3am12
	☉☌☽	5 59
	☽☌♂	6 9
	☽∠♇	8 1
	☽∥♂	11 31
	☉☌♂	12pm 0
	☽∥♆	3 55
	☉∥☽	5 47
3 M	☽∥♄	2am51
	☽∥♇	3 2
	☽∠♅	4 50
	☽□♄	6 42
	☉⚺♇	7 53
	☽⚺♀	12pm46
	☽⚺♇	2 34
	☿∥♃	2 53
	♂∠♇	6 11
	☽□♆	7 47
	☽⚹♃	8 33
4 T	☿⚺♅	4am49
	☽∥♃	7 49
	♀☌♇	8 40
	☽∥♆	10 22
	☽⚺♅	11 31
	☽☌☿	12pm23
	♀∥♅	8 14
	☽⚺♂	10 42
5 W	☉⚺☽	0am25
	☽∠♃	3 25
	♀∠♂	4 21
	☽∥♅	7pm45
	☽△♄	8 3
	☽∥♀	10 9
6 Th	☽☌♇	3am46
	☽∠♂	6 54
	☽∥♀	7 16
	☽☌♀	8 0
	☽⚹♆	8 46
	☉∠☽	9 32
	☽⚺♃	10 9
	☽∥♅	10 30
	♀⚹♆	4pm25
7 F	☽☌♅	0am33
	♂∥♆	1 24
	☽⚼♄	2 26
	☽⚺☿	8 55
	♀⚺♃	10 8
	☽∥☿	10 49
	☽⚹♂	2pm41
	☽∠☿	2 51
	☉⚹☽	6 12
	☽∥♃	10 34
8 S	☽⚻♄	8am19
	♀ ♎	10 0
	☽⚺♇	3pm39
	☽∠♆	5 58
	☽⚺♆	8 19
	☽☌♃	10 14
	☉∥♄	10 57
9 Su	☽∥♇	1am 7
	☽⚺♀	1 17
	☉∥☽	1 52
	☽∥♄	2 2
	☽∥♂	9 58
	☽⚺♅	11 38
	☽∥♆	12pm 9
	☉∥♇	3 38
	☽∠♇	8 32
10 M	☽⚹☿	1am49
	♆SD	2 23
	☽□♂	3 55
	☽∠♀	8 24
	☉□☽	8 50
	☽∠♅	3pm55
	♆⚺♃	5 14
	☽⚻♄	5 40
11 T	☽⚹♇	0am29
	☽☌♆	4 44
	☽⚺♃	7 3
	☽⚹♀	2pm16
	☽⚹♅	7 13
	♀∥♅	9 30
12 W	☿⚺♂	0am56
	☉∠♀	8 11
	☽∠♃	9 58
	☽△♂	12pm49
	☽□☿	1 17
	☉△☽	6 46
	☽⚻♄	11 8
13 Th	☽□♇	5am26
	☽⚺♆	9 16
	☽⚹♃	11 55
	☽⚼♂	3pm37
	☉⚼☽	9 59
	☽□♀	10 17
	☽□♅	10 56
14 F	☽⚼♄	0am28
	♀☌♅	7 35
	☽∠♆	10 13
	☿∥♀	11 21
	☉∠♅	12pm51
	☽⚻♂	5 31
	☽△☿	7 39
15 S	☉⚻☽	0am18
	☽△♄	1 4
	♀⚼♄	5 12
	☽△♇	7 0
	☽⚹♆	10 32
	☉□♄	12pm36
	☽□♃	1 29
	♃ ♏	5 59
	☽⚼☿	9 29
	☽△♅	11 42
16 Su	☽△♀	2am34
	☽⚼♇	6 58
	☽∥♆	12pm27
	☿∥♆	3 12
	☽☍♂	7 33
	☽∥♂	8 2
	☽∥♄	8 33
	☽∥♇	10 0
	☽⚻☿	10 50
	☽⚼♅	11 31
17 M	☽□♄	0am54
	☉☍☽	3 16
	☽⚼♀	4 2
	☉∥☽	6 21
	☽⚻♇	6 43
	☽□♆	10 5
	♂∥♄	11 45
	☽△♃	1pm25
	☽∥♃	5 7
	☽⚻♅	11 16
18 T	☽⚻♀	5am29
	☿△♄	11 9
	☽∥♀	11 57
	☽⚼♃	1pm24
	☽⚻♂	9 8
	☽∥♅	10 35
19 W	☽⚹♄	0am34
	☽☍☿	1 20
	☽∥☿	3 4
	☉⚻☽	6 8
	☽☍♇	6 29
	☽∥♆	7 12
	☽△♆	9 51
	☉⚺♇	11 33
	☽∥♅	12pm 2
	♂∥♇	1 14
	☽⚻♃	1 43
	☽⚼♂	10 28
	☽☍♅	11 34
20 Th	☽∠♄	0am55
	☽∥♀	1 33
	☉⚼☽	8 19
	☽☍♀	9 33
	☽⚼♆	10 23
	☽∥♃	7pm12
	♀∠♆	9 13
21 F	☽△♂	0am30
	☉∥☽	1 16
	☽⚺♄	1 54
	♂∠♅	2 0
	☽⚺☿	5 27
	☽⚺♇	8 10
	☉△☽	11 19
	☽⚻♆	11 37
	☽∥♂	1pm17
	☽∥♇	2 53
	☉□♆	3 42
	☽☍♃	4 14
	☽∥♄	4 52
22 S	☽∥☿	1am46
	☽⚺♅	2 21
	☽⚼☿	8 39
	♂□♄	8 56
	☽⚼♇	10 11
	☽⚻♀	5pm 0
23 Su	☽⚼♅	5am 3
	☽☌♄	6 22
	☽□♂	7 25
	☽△☿	12pm44
	☽△♇	1 7
	☉ ♍	1 34
	☽☍♆	4 43
	☉□☽	8 35
	☽⚻♃	10 15
	☿☌♇	10 24
	☽⚼♀	10 24
24 M	☽△♅	8am42
	☉⚹♃	11pm 5
25 T	☉∥♃	0am57
	☽⚼♃	2 42
	☽△♀	4 57
	☽⚺♄	2pm30
	☽⚹♂	6 33
	☽□♇	9 45
	☽□☿	11 26
26 W	☽⚻♆	1am27
	☿∥♅	4 34
	☽△♃	8 1
	☉⚹☽	10 23
	☽□♅	6pm36
	☽∠♄	7 48
27 Th	☽∠♂	1am31
	☽⚼♆	6 58
	☉∠☽	6pm40
	☽□♀	8 58
28 F	☽⚹♄	1am41
	☉∥♀	7 13
	☽⚺♂	9 10
	☽⚹♇	9 20
	♂⚺♇	12pm17
	☽⚹☿	12 19
	☽△♆	1 2
	☽□♃	8 36
29 S	☉⚺☽	3am32
	☽⚹♅	6 59
	☽∠♇	3pm46
	☽∠☿	6 59
	☽∥♆	9 44
30 Su	♀⚻♄	6am57
	☿SR	7 26
	☽∥♄	8 14
	☽∥♇	11 19
	☽∠♅	1pm38
	☽□♄	2 32
	☽⚹♀	3 13
	☽∥♂	10 14
	☽⚺♇	10 24
31 M	☉⚺♅	0am11
	☿⚺♂	0 54
	☽⚺☿	1 30
	☽☌♂	1 32
	☽□♆	2 1
	☽∥♃	7 23
	☽∥♀	7 51
	☽⚹♃	10 27
	♂□♆	10 46
	♀∥♃	1pm56
	☉∥☽	7 54
	☽⚺♅	8 20
	☉☌☽	10 2

1 CHART "B" (Name)

2 AUG 21 1970 (Month) (Day) (Year)

3 Place THRAIL CA.

4 Latitude 41N54

5 Longitude 122W29

DOMINANT FACTOR

6 Time of Birth 3:25:48 a.m. (Daylight Saving)

7 Correction for Standard Time (-)1:00:00

8 Time of Birth 2:25:48 (Standard Time)

9 Correction for Mean Time (-) 0:09:56

10 Local Mean Time of Birth, A.M or PM 2:15:52

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+)2:15:52

14 Sidereal Time 21:55:36 (Noon) ZERO HOUR

15 AMER. EPH.

16 24:11:28

17 L.M.T. Interval

18 S. T. (Uncorrected) 0:11:28

19 Correction, 9.86s per h. for E.G.M.T. Int. (+)0:01:43

20 Sidereal Time 0:13:11 (Of Birth)

SECOND KEY PROBLEM

21 ~~Standard~~ L.M. Time of Birth 2:15:52

22 Hrs. E. or W. of Greenwich 8:09:56

23 E.G.M.T. 10:25:48

24 Noon 12:00

25 E.G.M.T.

26 E.G.M.T. Interval (+)10:25:48 (Indicate plus or minus)

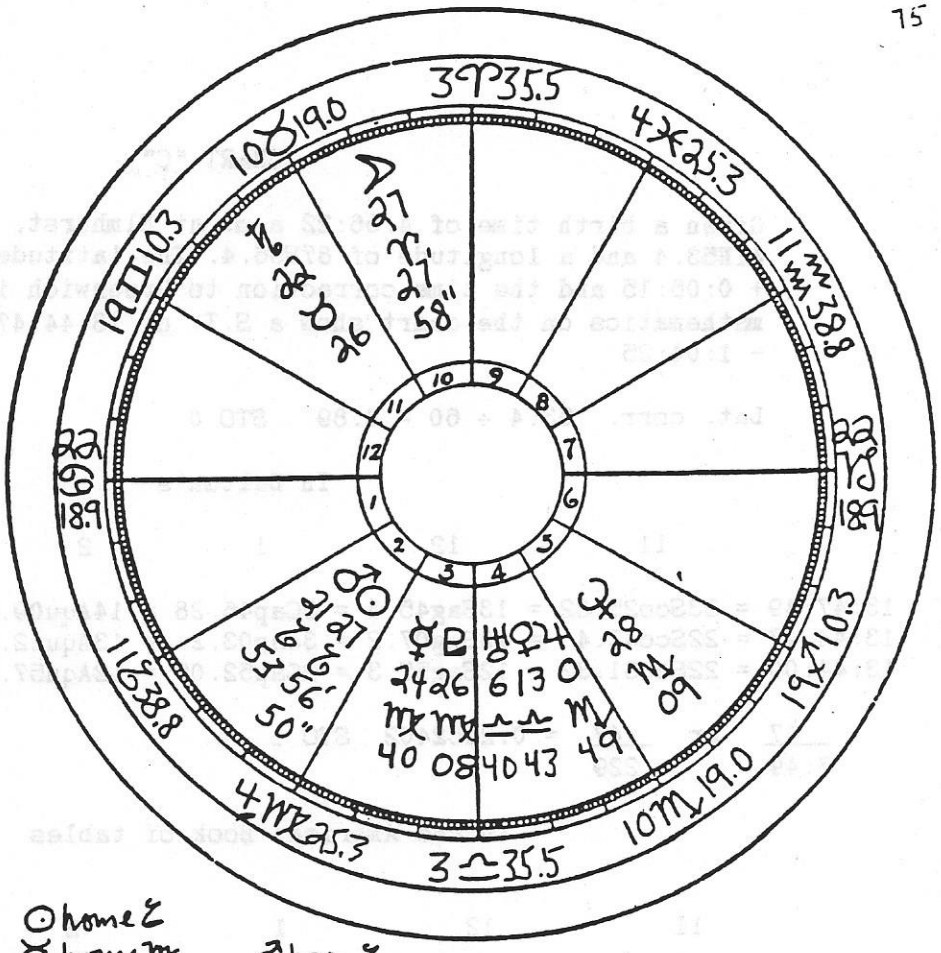
(+)ΔT = (+) 10:26:29

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date MAR. 14, 1970 (Including year)

AMER. BOOK OF TABLES



☉ home ♌
☿ home ♍ ♂ har ♌ ♄ inhar ♍
♀ home ♎ ♄ har ♎

Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
3 MC ASC	5	2	3 MC	3	2	2 ASC	4	4	2
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**
4	4	2	1	3	3	3	2	6	0

Declinations	EMAN 1·2 2·8 3·0 ASPECTS	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	MR.
12N11	☉		△	·	∠	☍	✶	□	·	□	⚻	·	·	
14N29	☽			⚻	☍	P△	☍	·	·	⚻	⚻	·	□	
0S24	☿				·	·	·	△	☍	✶	☍	☍	✶	
6S33	♀					·	·	·	☍	∠	·	☍	□	⚷
15N19	♂						·	P□	∠	□	P.	☐	⚻	
10S46	♃							·	·	⚻	·	⚻	□	
16N07	♄									☐	☍	P△	∠	✶
2S02	♅										·	☍	☍	·
18S07	♆											✶	△	△
15N40	♇												☍	✶
1N26	MC													·
21N35	ASC													

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
☽	♀	♄	Planet
♈	♍	♈	Sign
10	3	10	House

STUDENT CHART No. 2

CHART "C"

Given a birth time of 4:56:22 a.m. at Elmhurst, Il. with a latitude of 41N53.4 and a longitude of 87W56.4. The latitude correction is + 0:08:15 and the time correction to Greenwich is 5:51:45. The mathematics on the chart show a S.T. of 13:44:47 and an E.G.M.T.I. of - 1:04:25

Lat. corr. 53.4 ÷ 60 = 0.89 STO 0

In Dalton's

11	12	1	2	3	10
13:47:49 = 23Sco25.32	= 13Sag45.3	= 3Cap46.28	= 14Aqu09.3	= 26Pis12	= 29Lib00
13:44:47 = 22Sco42.4	= 13Sag07.2	= 3cap03.2	= 13Aqu12.1	= 25Pis14.8	= 28Lib12.3
13:44:00 = 22Sco31.32	= 12Sag57.3	= 2Cap52.07	= 12Aqu57.3	= 25Pis00	= 28Lib00

$\frac{47}{3:49}$ or $\frac{47}{229}$ = 0.2052402 STO 1

In the American Book of tables

11	12	1	2	3	10
13:48:00 = 23Sco30.32	= 13Sag50.97	= 3Cap48.18	= 14Aqu12.97	= 26Pis15.11	= 29Lib03
13:44:47 = 22Sco44.9	= 13Sag10.0	= 3Cap03.1	= 13Aqu13.5	= 25Pis14.1	= 28Lib12.3
13:44:00 = 22Sco36.32	= 12Sag59.97	= 2Cap52.07	= 12Aqu58.08	= 24Pis59.22	= 28Lib00

$\frac{47}{4:00}$ or $\frac{47}{240}$ = 0.1958333

American Astrology

11	12	1	2	3
13:48:00 = 23Sco30.754	= 13Sag51.103	= 3Cap48.625	= 14Aqu12.803	= 26Pis14.632
13:44:47 = 22Sco45.2	= 13Sag09.7	= 3Cap03.1	= 13Aqu13.0	= 25Pis14.3
13:44:00 = 22Sco36.543	= 12Sag59.67	= 2Cap52.003	= 12Aqu58.447	= 24Pis59.576

$\frac{47}{4:00}$ or $\frac{47}{240}$ = 0.1958333

10
29Lib02′ 48″
28Lib12′ 07″
27Lib59′ 46″ (28Lib12.1)

In Raphael's
(1975)

Sun Jan. 31 = 10:59:02 2nd DMS-DD = 10.983889 STO 5
Sun Jan. 30 = 9:58:07 2nd DMS-DD = 9.9686111 STO 4

RCL 5 - RCL 4 = 1.0152778
1.015278 X RCL 2 = 0.0454172 STO 6
RCL 5 - RCL 6 = 10.938472
10.938472 INV 2nd DMS-DD = 10.56185

Sun = 10Aqu56′ 19′′

Sun's δ Jan 31 = 17S29
Sun's δ Jan 30 = 17S45
16 X RCL 2 = 0.7157407 δ = 17S30

The Moon Jan. 31 = 35:19:58 2nd DMS-DD = 35.332778 STO 5
The Moon Jan. 30 = 20:36:36 2nd DMS-DD = 20.61 STO 4

RCL 5 - RCL 4 = 14.722778
14.722778 X RCL 2 = 0.6586057 STO 6
RCL 5 - RCL 6 = 34.674172
INV 2nd DMS-DD = 34.402702

Moon = 4Lib40′ 27′′

Correction for ununiform or non-linear motion

	D0	D1	D2
Jan. 31	14° 18′ 01′′		
Feb. 1	13° 50′ 46′′	27′ 15′′	
Feb. 2	13° 24′ 28′′	26′ 18′′	57′′

1st order correction

0.0500000 = 0.02375
0.0447338 = 0.0213539
0.0400000 = 0.01920

0.0047338 X 0.00455 = 0.0021539
0.0100000

0.0213539 X 27′ 15′′ = 0° 00′ 35′′
4° 40′ 27′′ + 35′′ = 4° 41′ 02′′

2nd order correction

0.0500000 = 0.01254
0.0447338 = 0.0168128
0.0400000 = 0.01544

0.0047338 X 0.0029 = 0.0013728
0.0100000

0.0168128 X 57'' = 0.00002662
0.00002662 INV 2nd DMS-DD = 0.0000958
4° 41' 02'' - 01'' = 4° 41' 01''
Moon = 4Lib41 01

Moon's declination (δ)

Jan 31 = 6S15 2nd DMS-DD = 6.25 STO 5
Jan 30 = 0S50 2nd DMS-DD = 0.8333333 = STO 4
RCL 5 - RCL 4 = 5.4166667
5.4166667 X RCL 2 = 0.2423081
0.2423081 INV 2nd DMS-DD = 0.1432309
6S15 - 14 = 6S01

Mercury Jan 31 = 25° 20'
Jan 30 = 25° 27'
07

7' X RCL 2 = 0.3131366 no correction Mercury = 25Aqu20R

Mercury's declination shows a motion of only 14'

14 X RCL 2 = 0.6262731
11S12 + 1 = 11S13

Venus Jan 31 = 1° 33'
Jan 30 = 0° 18
1° 15

1° 15° 2nd DMS-DD = 1.25
1.25 X RCL 2 = 0.0559172
0.0559172 INV 2nd DMS-DD = 0° 03'
1° 33' - 3' = 1Pis30

Declination Jan 31 = 12S21
Jan 30 = 12S49
28

28 X RCL 2 = 1.25254631 12S21 - 1 = 12S20

Mars Jan 31 7Cap07
Jan 30 6Cap23
44

44 X RCL 2 = 1.968287 7Cap07 - 2 = 7Cap05

Jan 31 23S48
Jan 30 23S50
02

2 X RCL 2 = 0.0894676 no correction 23S48

Jupiter Jan 31 19Pis14
Jan 30 19Pis01
13

13 X RCL 2 = 0.5815394

19Pis13

Jan 31 5S17
Jan 29 5S27
10 10 ÷ 2 = 5

Jan 31 5S17
Jan 30 5S22
5

5 X RCL 2 = 0.223669 no correction 5S17

Saturn Jan 31 13Can29
Jan 30 13Can33
4

4 X RCL 2 = 0.1789352 no correction 13Can29

Jan 31 22N25
Jan 29 22N24 obviously no correction 22N25

Uranus Jan 31 2Sco28
Jan 30 2Sco27
01 obviously no correction

no change in declination for several days 11S49

Neptune Jan 31 11Sag19
Jan 30 11Sag17
02

2 X RCL 2 = 0.0894676 no correction 11Sag19

Jan 31 1N32
Jan 29 1N32 no correction 1N32

Pluto page 39 Jan 31 9Lib09R
Jan 21 9Lib14R
5 5 ÷ 10 = 0.5

obviously no correction 9Lib09R

Jan 31 12N02
Jan 21 11N55
07 7 ÷ 10 = 0.7

obviously no correction 12N02

From the declination tables page 36,37

M.C. 28Lib20 = 10S53
28Lib12 = ?
28Lib10 = 10S49
4

2 X 4 = 0.8
10

28Lib12 = 10S50

ASC. 4Cap00 = 23S23
3Cap03 = ?
3Cap00 = 23S24
01

obviously no correction 23S24

81

SID. T. / ARC	H. M. S. 18 28 52 / 202° 18′.0 } ♎ 24°					H. M. S. 18 32 38 / 203° 9′.6 } ♎ 25°					H. M. S. 18 36 25 / 204° 6′.3 } ♎ 26°					H. M. S. 18 40 13 / 205° 3′.2 } ♎ 27°					H. M. S. 18 44 0 / 206° 0′.1 } ♎ 28°					H. M. S. 18 47 49 / 206° 57′.2 } ♎ 29°				
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓
°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°
22	22.1	16.8	11 22	15.2	21.0	23.0	17.7	12 16	16.3	22.1	23.9	18.5	13 11	17.3	23.2	24.7	19.4	14 6	18.4	24.3	25.6	20.3	15 2	19.4	25.4	26.5	21.1	15 58	20.5	26.5
23	21.9	5	10 53	0	0	22.8	4	11 47	0	1	7	2	12 42	1	2	6	1	13 37	1	3	5	0	14 33	2	4	4	20.8	15 29	3	5
24	8	2	10 23	14.7	20.9	7	1	11 18	15.8	1	6	17.9	12 12	16.8	1	5	18.8	13 7	17.9	2	4	19.6	14 3	18.9	4	3	5	14 59	0	5
25	7	15.9	9 53	4	9	6	16.8	10 47	5	0	5	6	11 42	6	1	4	5	12 37	6	2	2	3	13 33	7	4	1	2	14 29	19.8	4
26	6	6	9 22	2	9	4	5	10 17	2	0	23.3	3	11 11	3	1	2	2	12 6	4	2	1	0	13 2	4	3	0	19.9	13 58	5	4
27	21.4	3	8 51	13.9	9	22.3	1	9 45	0	0	2	0	10 40	0	23.1	1	17.8	11 35	1	24.2	0	18.7	12 31	2	25.3	25.9	5	13 26	3	26.4
28	3	0	8 19	6	8	2	15.8	9 13	14.7	21.9	1	16.7	10 8	15.7	1	23.9	5	11 3	16.8	2	24.8	4	11 58	17.9	3	7	2	12 54	0	4
29	2	14.6	7 46	3	20.8	0	5	8 40	4	9	22.9	3	9 35	4	0	8	2	10 30	5	1	7	0	11 25	6	3	6	18.9	12 21	18.7	4
30	0	3	7 12	0	8	21.9	2	8 7	1	9	8	0	9 1	1	0	7	16.8	9 56	2	1	5	17.7	10 51	3	3	4	5	11 47	4	4
31	20.9	0	6 38	12.7	7	8	14.8	7 32	13.8	8	6	15.7	8 27	14.8	0	5	5	9 22	15.9	24.1	4	3	10 17	0	25.2	25.3	2	11 13	1	4
32	7	13.6	6 3	3	7	6	5	6 57	4	8	5	3	7 51	5	22.9	23.4	1	8 46	6	1	24.3	0	9 41	16.7	2	1	17.8	10 37	17.8	26.4
33	6	3	5 27	0	6	5	1	6 21	1	21.8	22.4	14.9	7 15	2	9	2	15.8	8 10	3	1	1	16.6	9 5	4	2	0	4	10 1	5	3
34	4	12.9	4 50	11.7	20.6	21.3	13.8	5 44	12.8	7	2	6	6 38	13.9	9	1	4	7 33	0	0	0	2	8 28	1	2	24.8	1	9 23	2	3
35	20.3	6	4 13	3	6	2	4	5 6	4	7	.1	2	6 0	5	8	22.9	0	6 55	14.6	24.0	23.8	15.9	7 49	15.7	25.2	7	16.7	8 45	16.8	3
36	1	2	3 34	10.9	5	0	0	4 27	0	7	21.9	13.8	5 21	1	8	8	14.6	6 16	2	0	6	5	7 10	3	1	5	3	8 5	5	3
37	0	11.8	2 54	5	5	20.9	12.6	3 47	11.6	6	7	4	4 41	12.7	22.8	6	2	5 35	13.8	0	5	1	6 30	0	1	3	15.9	7 25	1	26.3
38	19.8	4	2 13	1	4	7	2	3 6	2	21.6	6	0	4 0	3	7	4	13.8	4 54	4	0	3	14.7	5 48	14.6	1	2	5	6 43	15.7	3
39	7	0	1 31	9.6	20.4	5	11.8	2 24	10.8	5	4	12.6	3 17	11.9	7	2	4	4 11	0	23.9	1	2	5 5	2	25.1	0	1	5 59	4	2
40	5	10.6	0 48	2	4	4	4	1 40	4	5	2	2	2 33	5	7	1	0	3 27	12.6	9	22.9	13.8	4 20	13.8	0	23.8	14.6	5 15	0	2
41	3	1	0 3	8.7	4	3	10.9	0 55	9.9	4	0	11.7	1 48	0	6	21.9	12.5	2 41	1	9	7	4	3 35	4	0	6	2	4 29	14.6	2
42	1	9.7	♐ 29 17	2	3	1	5	0 9	4	4	20.8	3	1 1	10.5	22.6	7	1	1 54	11.6	9	5	12.9	2 48	12.9	0	4	13.7	3 41	1	26.2
43	18.9	2	28 30	7.7	3	19.9	0	♐ 29 21	8.9	21.3	6	10.8	0 13	0	5	5	11.6	1 5	1	8	3	4	1 59	4	24.9	2	3	2 52	13.6	2
44	7	8.7	27 41	1	20.2	7	9.5	28 32	4	3	4	3	♐ 29 23	9.5	5	3	1	0 15	10.6	23.8	1	11.9	1 8	11.9	9	0	12.8	2 1	1	1
45	5	3	26 50	6.5	1	5	1	27 41	7.8	2	2	9.8	28 32	8.9	5	1	10.6	♐ 29 24	1	8	21.9	4	0 16	4	9	22.8	3	1 9	12.6	1
46	3	7.8	25 58	0	1	3	8.6	26 48	2	2	0	3	27 39	3	4	20.8	1	28 30	9.5	7	7	10.9	♐ 29 22	10.8	8	6	11.8	0 14	0	1
47	1	3	25 4	5.4	0	1	0	25 54	6.6	21.1	19.8	8.8	26 44	7.7	22.4	6	9.6	27 34	8.9	7	6	4	28 26	2	8	4	2	♐ 29 18	11.4	26.1
48	17.9	6.8	24 8	4.7	19.9	18.9	7.5	24 57	5.9	1	6	3	25 47	1	4	4	1	26 37	3	23.6	4	9.9	27 28	9.6	24.8	2	10.7	28 19	10.8	0
49	7	3	23 10	0	9	7	6.9	23 58	2	0	4	7.8	24 48	6.4	3	2	8.6	25 37	7.6	6	2	3	26 27	8.9	7	21.9	1	27 18	1	0
50	5	5.7	22 10	3.3	8	4	4	22 58	4.5	0	2	2	23 46	5.7	3	0	0	24 35	6.9	5	20.9	8.7	25 25	2	7	7	9.5	26 14	9.4	0
51	2	1	21 7	2.5	7	2	5.8	21 55	3.7	20.9	18.9	6.6	22 42	4.9	22.2	19.7	7.4	23 31	1	5	6	1	24 20	7.4	6	4	8.9	25 9	8.7	25.9
52	0	4.5	20 2	1.6	19.6	17.9	2	20 49	2.8	9	7	0	21 36	1	1	4	6.8	22 24	5.3	23.4	3	7.5	23 12	6.6	24.6	1	3	24 0	7.9	9
53	16.8	3.9	18 55	0.7	5	6	4.6	19 41	1.9	8	5	5.4	20 27	3.2	1	2	1	21 14	4.4	3	1	6.8	22 1	5.7	5	20.9	7.6	22 49	0	9
54	5	2	17 45	♑ 29.7	4	3	3.9	18 30	0.9	7	2	4.7	19 16	2.2	0	0	5.4	20 1	3.4	3	19.8	1	20 48	4.7	5	6	6.9	21 35	6.0	8
55	2	2.5	16 32	28.6	3	0	2	17 17	♑ 29.8	6	17.9	0	18 1	1.1	21.9	18.7	4.7	18 46	2.3	2	5	5.4	19 31	3.6	5	3	2	20 17	4.9	8
56	15.9	1.8	15 17	27.4	2	16.7	2.5	16 0	28.6	4	5	3.3	16 43	♑ 29.9	8	3	0	17 27	1.1	1	1	4.7	18 12	2.4	4	0	5.4	18 56	3.7	8

Placidus Table of Houses for Latitudes 0° to 60° North

13h 20m 0s	21 ♎ 38	200° 0' 0"		
11	12	ASC	2	3
22♏25	20♐49	18♑28	17♒33	19♓ 7
21 52	19 30	16 32	16 36	18 59
21 20	18 11	14 32	15 35	18 50
20 47	16 50	12 26	14 30	18 41
20 12	15 26	10 12	13 19	18 31
20 5	15 8	9 44	13 4	18 29
19 58	14 51	9 15	12 49	18 27
19 51	14 33	8 46	12 33	18 25
19 44	14 15	8 16	12 17	18 23
19 36	13 57	7 46	12 0	18 21
19 29	13 38	7 16	11 43	18 18
19 21	13 19	6 44	11 26	18 16
19 14	13 0	6 13	11 8	18 13
19 6	12 41	5 40	10 50	18 11
18 58	12 21	5 7	10 31	18 8
18 50	12 1	4 33	10 11	18 6
18 42	11 41	3 58	9 51	18 3
18 33	11 20	3 22	9 30	18 0
18 25	10 59	2 46	9 8	17 57
18 16	10 37	2 9	8 46	17 55
18 7	10 15	1 30	8 23	17 51
17 58	9 52	0 51	7 58	17 48
17 49	9 29	0 11	7 33	17 45
17 39	9 5	29♐29	7 7	17 42
17 30	8 41	28 47	6 40	17 38
17 20	8 16	28 3	6 11	17 34
17 9	7 50	27 17	5 42	17 31
16 59	7 24	26 31	5 10	17 27
16 48	6 57	25 43	4 38	17 23
16 36	6 29	24 53	4 3	17 18
16 25	6 0	24 2	3 27	17 14
16 13	5 30	23 9	2 48	17 9
16 1	5 0	22 14	2 7	17 4
15 48	4 28	21 18	1 24	16 59
15 34	3 55	20 19	0 38	16 53
15 21	3 21	19 18	29♑49	16 47
15 6	2 45	18 15	28 56	16 41
14 51	2 9	17 9	28 0	16 34
14 36	1 31	16 2	26 59	16 27
14 19	0 51	14 51	25 53	16 19
14 2	0 9	13 38	24 41	16 11
13 45	29♏26	12 21	23 22	16 2
13 26	28 41	11 2	21 56	15 53
13 6	27 53	9 39	20 20	15 43
12♏46	27♏ 4	8♌14	18♑33	15♓32

13h 24m 0s	22 ♎ 42	201° 0' 0"			
11	12	ASC	2	3	LAT.
23♏23	21♐44	19♑24	18♒34	20♓12	0
22 51	20 25	17 29	17 37	20 5	5
22 18	19 6	15 29	16 38	19 57	10
21 44	17 44	13 23	15 34	19 49	15
21 10	16 20	11 9	14 24	19 40	20
21 2	16 2	10 41	14 9	19 38	21
20 55	15 45	10 12	13 54	19 36	22
20 48	15 27	9 43	13 39	19 34	23
20 41	15 9	9 14	13 23	19 32	24
20 33	14 50	8 43	13 6	19 30	25
20 26	14 32	8 13	12 50	19 28	26
20 18	14 13	7 41	12 33	19 26	27
20 10	13 54	7 9	12 15	19 24	28
20 2	13 34	6 37	11 57	19 22	29
19 54	13 14	6 3	11 38	19 19	30
19 46	12 54	5 29	11 19	19 17	31
19 38	12 34	4 54	10 59	19 14	32
19 29	12 13	4 19	10 38	19 12	33
19 21	11 51	3 42	10 17	19 9	34
19 12	11 29	3 5	9 55	19 7	35
19 3	11 7	2 26	9 32	19 4	36
18 53	10 44	1 47	9 8	19 1	37
18 44	10 21	1 6	8 43	18 58	38
18 34	9 57	0 24	8 17	18 55	39
18 24	9 32	29♑41	7 50	18 52	40
18 14	9 7	28 57	7 22	18 49	41
18 4	8 41	28 12	6 52	18 45	42
17 53	8 14	27 25	6 21	18 42	43
17 42	7 47	26 36	5 49	18 38	44
17 30	7 19	25 46	5 15	18 34	45
17 19	6 50	24 54	4 39	18 30	46
17 7	6 20	24 1	4 0	18 25	47
16 54	5 49	23 6	3 20	18 21	48
16 41	5 16	22 8	2 37	18 16	49
16 27	4 43	21 9	1 51	18 11	50
16 13	4 9	20 7	1 2	18 6	51
15 59	3 33	19 3	0 10	18 0	52
15 43	2 56	17 57	29♓14	17 54	53
15 28	2 17	16 48	28 13	17 48	54
15 11	1 37	15 37	27 7	17 41	55
14 54	0 55	14 22	25 56	17 33	56
14 36	0 11	13 5	24 37	17 26	57
14 16	29♐25	11 45	23 11	17 17	58
13 56	28 37	10 21	21 35	17 8	59
13♏35	27♏46	8♌54	19♑48	16♓58	60

13h 28m 0s	23 ♎ 46	202° 0' 0"		
11	12	ASC	2	3
24♏22	22♐39	20♑20	19♒35	21♓17
23 49	21 20	18 25	18 39	21 11
23 16	20 0	16 26	17 41	21 4
22 42	18 39	14 21	16 38	20 57
22 7	17 14	12 6	15 29	20 49
21 59	16 56	11 38	15 15	20 47
21 52	16 39	11 10	15 0	20 45
21 45	16 21	10 41	14 45	20 43
21 37	16 2	10 11	14 29	20 42
21 30	15 44	9 41	14 13	20 40
21 22	15 25	9 10	13 56	20 38
21 14	15 6	8 39	13 40	20 36
21 6	14 47	8 7	13 22	20 34
20 58	14 27	7 34	13 4	20 32
20 50	14 7	7 0	12 46	20 30
20 42	13 47	6 26	12 27	20 28
20 34	13 26	5 51	12 7	20 26
20 25	13 5	5 15	11 47	20 24
20 16	12 44	4 39	11 26	20 21
20 7	12 22	4 1	11 4	20 19
19 58	11 59	3 22	10 41	20 17
19 49	11 36	2 42	10 18	20 14
19 39	11 13	2 2	9 53	20 11
19 29	10 48	1 20	9 27	20 9
19 19	10 24	0 36	9 1	20 6
19 9	9 58	29♑52	8 33	20 3
18 58	9 32	29 6	8 4	20 0
18 47	9 5	28 19	7 33	19 57
18 36	8 37	27 30	7 1	19 53
18 24	8 9	26 39	6 27	19 50
18 12	7 40	25 47	5 51	19 46
18 0	7 9	24 53	5 13	19 42
17 47	6 38	23 57	4 33	19 38
17 34	6 5	22 59	3 51	19 34
17 20	5 32	21 59	3 5	19 29
17 6	4 57	20 57	2 17	19 25
16 51	4 20	19 52	1 25	19 20
16 36	3 43	18 45	0 29	19 14
16 19	3 4	17 36	29♒29	19 9
16 3	2 23	16 23	28 23	19 2
15 45	1 40	15 8	27 12	18 56
15 26	0 55	13 49	25 53	18 49
15 7	0 9	12 28	24 27	18 41
14 47	29♐20	11 2	22 51	18 33
14♏25	28♏29	9♌34	21♒ 4	18♓24

13h 32m 0s	24 ♎ 50	203° 0' 0"		
11	12	ASC	2	3
25♏21	23♐34	21♑17	20♒36	22♓23
24 47	22 15	19 22	19 42	22 17
24 13	20 55	17 23	18 44	22 11
23 39	19 33	15 18	17 43	22 4
23 4	18 8	13 4	16 35	21 57
22 56	17 50	12 36	16 21	21 56
22 49	17 33	12 7	16 6	21 54
22 41	17 15	11 38	15 51	21 53
22 34	16 56	11 9	15 36	21 51
22 26	16 38	10 38	15 20	21 50
22 19	16 19	10 8	15 4	21 48
22 11	16 0	9 36	14 47	21 46
22 3	15 40	9 4	14 30	21 45
21 55	15 21	8 31	14 12	21 43
21 46	15 1	7 58	13 54	21 41
21 38	14 40	7 23	13 35	21 39
21 29	14 19	6 48	13 16	21 37
21 21	13 58	6 12	12 56	21 35
21 12	13 36	5 35	12 35	21 33
21 3	13 14	4 58	12 13	21 31
20 53	12 51	4 19	11 51	21 29
20 44	12 28	3 39	11 28	21 27
20 34	12 4	2 58	11 4	21 25
20 24	11 40	2 15	10 38	21 22
20 14	11 15	1 32	10 12	21 20
20 3	10 49	0 47	9 45	21 17
19 53	10 23	0 1	9 16	21 15
19 42	9 56	29♐13	8 45	21 12
19 30	9 28	28 24	8 14	21 9
19 18	8 59	27 33	7 40	21 6
19 6	8 29	26 40	7 5	21 3
18 54	7 59	25 46	6 27	20 59
18 41	7 27	24 49	5 48	20 56
18 27	6 54	23 51	5 5	20 52
18 13	6 20	22 50	4 20	20 48
17 59	5 45	21 47	3 32	20 44
17 43	5 8	20 42	2 41	20 39
17 28	4 30	19 34	1 45	20 35
17 11	3 50	18 23	0 45	20 30
16 54	3 9	17 10	29♒40	20 24
16 36	2 26	15 53	28 29	20 19
16 17	1 40	14 34	27 11	20 12
15 57	0 53	13 11	25 45	20 6
15 37	0 4	11 44	24 9	19 59
15♏15	29♏11	10♌14	22♒22	19♓51

13h 36m 0s	25 ♎ 53	204° 0' 0"		
11	12	ASC	2	3
26♏19	24♐30	22♑13	21♒37	23♓28
25 45	23 10	20 19	20 44	23 23
25 11	21 50	18 21	19 48	23 18
24 36	20 28	16 16	18 47	23 12
24 0	19 2	14 2	17 41	23 6
23 53	18 45	13 34	17 27	23 5
23 46	18 27	13 5	17 12	23 4
23 38	18 8	12 36	16 58	23 2
23 30	17 50	12 7	16 43	23 1
23 23	17 31	11 36	16 27	23 0
23 15	17 13	11 6	16 11	22 58
23 7	16 53	10 34	15 55	22 57
22 59	16 34	10 2	15 38	22 55
22 50	16 14	9 29	15 20	22 54
22 42	15 54	8 55	15 3	22 52
22 34	15 33	8 21	14 44	22 51
22 25	15 12	7 46	14 25	22 49
22 16	14 51	7 10	14 5	22 47
22 7	14 29	6 33	13 45	22 46
21 58	14 7	5 55	13 24	22 44
21 48	13 44	5 16	13 2	22 42
21 39	13 20	4 35	12 39	22 40
21 29	12 56	3 54	12 15	22 38
21 19	12 32	3 12	11 50	22 36
21 9	12 7	2 28	11 24	22 34
20 58	11 41	1 43	10 57	22 32
20 47	11 14	0 56	10 28	22 29
20 36	10 47	0 8	9 58	22 27
20 24	10 19	29♑18	9 27	22 25
20 12	9 49	28 27	8 54	22 22
20 0	9 19	27 34	8 19	22 19
19 47	8 48	26 39	7 42	22 16
19 34	8 16	25 42	7 3	22 13
19 20	7 43	24 43	6 21	22 10
19 6	7 9	23 41	5 36	22 7
18 51	6 33	22 38	4 49	22 3
18 36	5 56	21 32	3 57	21 59
18 20	5 17	20 23	3 2	21 55
18 3	4 37	19 11	2 3	21 51
17 46	3 55	17 57	0 58	21 46
17 27	3 11	16 39	29♒47	21 41
17 8	2 25	15 18	28 30	21 36
16 48	1 37	13 54	27 4	21 30
16 27	0 47	12 27	25 29	21 24
16♏ 4	29♎54	10♌55	23♒41	21♓17

13h 40m 0s	26 ♎ 57	205° 0' 0"			
11	12	ASC	2	3	LAT.
27♏17	25♐25	23♑10	22♒39	24♓33	0
26 43	24 5	21 17	21 47	24 29	5
26 8	22 45	19 20	20 52	24 25	10
25 33	21 22	17 14	19 52	24 20	15
24 57	19 56	15 0	18 47	24 15	20
24 50	19 39	14 32	18 33	24 14	21
24 42	19 21	14 4	18 19	24 13	22
24 34	19 2	13 34	18 5	24 12	23
24 27	18 44	13 5	17 50	24 11	24
24 19	18 25	12 35	17 35	24 10	25
24 11	18 6	12 4	17 19	24 8	26
24 3	17 47	11 32	17 3	24 7	27
23 55	17 27	11 0	16 46	24 6	28
23 46	17 7	10 27	16 29	24 5	29
23 38	16 47	9 53	16 12	24 3	30
23 29	16 26	9 19	15 53	24 2	31
23 21	16 5	8 44	15 35	24 1	32
23 12	15 44	8 7	15 15	23 59	33
23 2	15 22	7 30	14 55	23 58	34
22 53	14 59	6 52	14 34	23 56	35
22 44	14 36	6 13	14 13	23 55	36
22 34	14 13	5 32	13 50	23 53	37
22 24	13 48	4 51	13 26	23 52	38
22 14	13 24	4 8	13 2	23 50	39
22 3	12 58	3 24	12 36	23 48	40
21 52	12 32	2 39	12 10	23 46	41
21 41	12 5	1 52	11 41	23 44	42
21 30	11 38	1 3	11 12	23 42	43
21 18	11 9	0 13	10 41	23 40	44
21 6	10 40	29♑21	10 8	23 38	45
20 53	10 10	28 28	9 34	23 36	46
20 40	9 38	27 32	8 57	23 33	47
20 27	9 6	26 35	8 18	23 31	48
20 13	8 32	25 35	7 37	23 28	49
19 59	7 57	24 33	6 53	23 25	50
19 44	7 21	23 29	6 6	23 22	51
19 28	6 44	22 22	5 15	23 19	52
19 12	6 5	21 12	4 20	23 16	53
18 55	5 24	20 0	3 21	23 12	54
18 37	4 41	18 44	2 17	23 8	55
18 18	3 57	17 26	1 7	23 4	56
17 59	3 11	16 4	29♑50	23 0	57
17 38	2 22	14 38	28 24	22 55	58
17 16	1 31	13 9	26 49	22 50	59
16♏54	0♎37	11♌36	25♑ 3	22♓44	60

13h 44m 0s	28 ♎ 0	206° 0' 0"		
11	12	ASC	2	3
28♏15	26♐20	24♑ 6	23♒41	25♓38
27 40	25 0	22 14	22 50	25 35
27 6	23 40	20 16	21 56	25 32
26 30	22 17	18 12	20 57	25 28
25 54	20 51	15 59	19 54	25 24
25 46	20 33	15 31	19 40	25 23
25 39	20 15	15 2	19 26	25 22
25 31	19 57	14 33	19 12	25 21
25 23	19 38	14 3	18 57	25 21
25 15	19 19	13 33	18 43	25 20
25 7	19 0	13 2	18 27	25 19
24 59	18 41	12 31	18 11	25 18
24 51	18 21	11 58	17 55	25 17
24 42	18 1	11 25	17 38	25 16
24 34	17 40	10 52	17 21	25 15
24 25	17 20	10 17	17 3	25 14
24 16	16 58	9 42	16 45	25 13
24 7	16 37	9 5	16 26	25 11
23 58	16 14	8 28	16 6	25 10
23 48	15 52	7 50	15 45	25 9
23 39	15 29	7 10	15 24	25 8
23 29	15 5	6 30	15 2	25 7
23 19	14 41	5 48	14 39	25 5
23 8	14 16	5 5	14 15	25 4
22 58	13 50	4 21	13 49	25 2
22 47	13 24	3 35	13 23	25 1
22 35	12 57	2 48	12 55	24 59
22 24	12 29	1 59	12 26	24 58
22 12	12 0	1 9	11 56	24 56
22 0	11 30	0 16	11 23	24 54
21 47	11 0	29♑22	10 49	24 53
21 34	10 28	28 26	10 13	24 51
21 20	9 55	27 28	9 35	24 49
21 6	9 22	26 28	8 54	24 46
20 51	8 46	25 25	8 10	24 44
20 36	8 10	24 20	7 24	24 42
20 20	7 32	23 12	6 34	24 39
20 4	6 52	22 2	5 40	24 37
19 46	6 11	20 48	4 41	24 34
19 28	5 28	19 32	3 37	24 31
19 9	4 43	18 12	2 28	24 27
18 49	3 56	16 49	1 11	24 24
18 28	3 6	15 22	29♒46	24 20
18 6	2 15	13 52	28 12	24 16
17♏43	1♎20	12♑18	26♒25	24♓11

13h 48m 0s	29 ♎ 3	207° 0' 0"		
11	12	ASC	2	3
29♏13	27♐15	25♑ 3	24♒42	26♓44
28 38	25 55	23 11	23 53	26 41
28 3	24 35	21 15	23 0	26 39
27 27	23 12	19 11	22 3	26 36
26 50	21 45	16 57	21 1	26 33
26 43	21 27	16 29	20 47	26 32
26 35	21 9	16 1	20 34	26 32
26 27	20 51	15 32	20 20	26 31
26 19	20 32	15 2	20 5	26 30
26 11	20 13	14 32	19 51	26 30
26 3	19 54	14 1	19 36	26 29
25 55	19 34	13 30	19 20	26 28
25 46	19 15	12 57	19 4	26 28
25 38	18 54	12 24	18 48	26 27
25 29	18 34	11 50	18 31	26 26
25 20	18 13	11 16	18 13	26 25
25 11	17 51	10 40	17 55	26 24
25 2	17 30	10 4	17 37	26 24
24 53	17 7	9 26	17 17	26 23
24 43	16 45	8 48	16 57	26 22
24 33	16 21	8 8	16 36	26 21
24 23	15 57	7 28	16 14	26 20
24 13	15 33	6 46	15 51	26 19
24 3	15 8	6 3	15 28	26 18
23 52	14 42	5 18	15 3	26 17
23 41	14 15	4 32	14 37	26 16
23 29	13 48	3 44	14 10	26 15
23 18	13 20	2 55	13 41	26 13
23 6	12 51	2 4	13 11	26 12
22 53	12 21	1 12	12 39	26 11
22 40	11 50	0 17	12 6	26 9
22 27	11 18	29♑21	11 30	26 8
22 13	10 45	28 22	10 52	26 6
21 59	10 11	27 21	10 12	26 5
21 44	9 35	26 18	9 29	26 3
21 28	8 58	25 12	8 43	26 1
21 12	8 20	24 3	7 53	25 59
20 55	7 40	22 52	7 0	25 57
20 38	6 58	21 38	6 2	25 55
20 20	6 15	20 20	4 59	25 53
20 0	5 29	18 59	3 50	25 50
19 40	4 41	17 35	2 34	25 48
19 19	3 51	16 7	1 10	25 45
18 56	2 58	14 35	29♑36	25 42
18♏32	2♎ 3	12♑59	27♒50	25♓38

Midheaven (M.C. or 10th Cusp)			
Sidereal Time	13h	44m	0s
Right Ascension	206°	0′	0″
Geocentric Longitude	♎ 27°	59′	46″

11	12	Ascendant	2	3	NORTH Geographic Latitude
♏ ° ′	♐ ° ′	♑ ° ′	♒ ° ′	♓ ° ′	°
22 57.5	13 50.0	4 20.9	13 49.4	25 2.4	40
22 46.6	13 23.7	3 35.2	13 23.1	25 1.0	41
22 35.3	12 56.7	2 47.9	12 55.4	24 59.4	42
22 23.8	12 28.8	1 59.2	12 26.3	24 57.8	43
22 11.8	12 0.1	1 8.8	11 55.7	24 56.1	44
21 59.5	11 30.5	0 16.6	11 23.5	24 54.4	45
21 46.8	10 59.9	29 ♐ 22.4	10 49.4	24 52.6	46
21 33.6	10 28.2	28 26.5	10 13.3	24 50.6	47
21 20.0	9 55.5	27 28.3	9 35.0	24 48.5	48
21 5.9	9 21.6	26 28.0	8 54.1	24 46.4	49
20 51.2	8 46.4	25 25.3	8 10.6	24 44.2	50
20 36.0	8 9.8	24 20.2	7 23.9	24 41.8	51
20 20.2	7 31.8	23 12.5	6 33.8	24 39.2	52
20 3.6	6 52.3	22 1.9	5 39.6	24 36.5	53
19 46.4	6 11.0	20 48.6	4 41.1	24 33.7	54
19 28.3	5 28.0	19 32.1	3 37.4	24 30.6	55
19 9.3	4 43.0	18 12.4	2 27.8	24 27.3	56
18 49.4	3 55.9	16 49.2	1 11.2	24 23.8	57
18 28.4	3 6.4	15 22.6	29 ♑ 46.5	24 19.9	58
18 6.4	2 14.6	13 52.1	28 12.0	24 15.8	59
17 43.0	1 20.1	12 17.7	26 25.6	24 11.3	60
5	6	Descendant	8	9	SOUTH Geographic Latitude

Midheaven (M.C. or 10th Cusp)			
Sidereal Time	1h	44m	0s
Right Ascension	26°	0′	0″
Geocentric Longitude	♈ 27°	59′	46″

Midheaven (M.C. or 10th Cusp)			
Sidereal Time	13h	48m	0s
Right Ascension	207°	0′	0″
Geocentric Longitude	♎ 29°	2′	48″

11	12	Ascendant	2	3
♏ ° ′	♐ ° ′	♑ ° ′	♒ ° ′	♓ ° ′
23 51.9	14 41.9	5 18.0	15 3.0	26 16.8
23 40.9	14 15.4	4 32.0	14 37.1	26 15.7
23 29.5	13 48.1	3 44.5	14 9.8	26 14.5
23 17.8	13 20.0	2 55.4	13 41.2	26 13.3
23 5.6	12 51.1	2 4.6	13 11.1	26 12.0
22 53.2	12 21.1	1 12.0	12 39.4	26 10.7
22 40.2	11 50.2	0 ♐ 17.4	12 5.7	26 9.4
22 26.9	11 18.3	29 20.9	11 30.2	26 7.9
22 13.0	10 45.2	28 22.2	10 52.4	26 6.4
21 58.7	10 11.0	27 21.2	10 12.1	26 4.7
21 43.9	9 35.4	26 17.9	9 29.0	26 3.1
21 28.4	8 58.4	25 12.1	8 42.9	26 1.3
21 12.3	8 20.0	24 3.5	7 53.4	25 59.3
20 55.5	7 40.0	22 52.1	6 59.9	25 57.3
20 37.9	6 58.2	21 37.8	6 1.9	25 55.2
20 19.6	6 14.6	20 20.3	4 58.9	25 52.9
20 0.2	5 29.0	18 59.5	3 49.9	25 50.4
19 40.0	4 41.2	17 35.1	2 34.0	25 47.8
19 18.7	3 51.1	16 7.1	1 ♑ 9.8	25 44.9
18 56.2	2 58.6	14 35.2	29 36.0	25 41.8
18 32.5	2 3.2	12 59.3	27 50.1	25 38.4
5	6	Descendant	8	9

Midheaven (M.C. or 10th Cusp)			
Sidereal Time	1h	48m	0s
Right Ascension	27°	0′	0″
Geocentric Longitude	♈ 29°	2′	48″

NEW MOON—January 12, 10*h.* 20*m. a.m.*

D M	Neptune. Lat.	Neptune. Dec.	Herschel. Lat.	Herschel. Dec.	Saturn. Lat.	Saturn. Dec.	Jupiter. Lat.	Jupiter. Dec.	Mars. Lat.	Mars. Dec.	
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1 N31	20 S 31	0 N32	11 S 38	0 S 24	22 N 6	1 S 10	7 S 36	0 S 13	22 S 51	22 S 56
3	1 31	20 31	0 32	11 39	0 24	22 8	1 10	7 28	0 14	23 1	23 6
5	1 31	20 32	0 32	11 40	0 24	22 9	1 9	7 20	0 15	23 10	23 15
7	1 32	20 32	0 32	11 41	0 23	22 10	1 9	7 11	0 16	23 19	23 23
9	1 32	20 33	0 32	11 42	0 23	22 12	1 9	7 2	0 18	23 26	23 30
11	1 32	20 33	0 32	11 43	0 23	22 13	1 8	6 54	0 19	23 33	23 36
13	1 32	20 34	0 32	11 44	0 23	22 14	1 8	6 45	0 21	23 39	23 41
15	1 32	20 34	0 32	11 45	0 23	22 16	1 8	6 35	0 22	23 44	23 46
17	1 32	20 34	0 33	11 46	0 22	22 17	1 8	6 26	0 23	23 48	23 49
19	1 32	20 35	0 33	11 46	0 22	22 18	1 7	6 16	0 25	23 51	23 52
21	1 32	20 35	0 33	11 47	0 22	22 19	1 7	6 7	0 26	23 53	23 53
23	1 32	20 36	0 33	11 48	0 22	22 21	1 7	5 57	0 27	23 54	23 54
25	1 32	20 36	0 33	11 48	0 21	22 22	1 7	5 47	0 29	23 54	23 53
27	1 32	20 36	0 33	11 48	0 21	22 23	1 7	5 37	0 30	23 53	23 52
29	1 32	20 37	0 33	11 49	0 21	22 24	1 6	5 27	0 32	23 51	23 S 50
31	1 N32	20 S 37	0 N33	11 S 49	0 S 21	22 N25	1 S 6	5 S 17	0 S 33	23 S 48	

D M	D W	Sidereal Time	☉ Long.	☉ Dec.	☽ Long.	☽ Lat.	☽ Dec.	MIDNIGHT ☽ Long.	MIDNIGHT ☽ Dec.
		H. M. S.	° ′ ″	° ′	° ′ ″	° ′	° ′	° ′ ″	° ′
1	W	18 42 4	10♑26 36	23 S 2	26♌35 15	5 S 4	7 N53	3♍56 54	5 N14
2	Th	18 46 1	11 27 44	22 57	11♍15 5	5 12	2 N32	18 29 9	0 S 11
3	F	18 49 58	12 28 53	22 51	25 38 40	5 1	2 S 52	2♎43 18	5 29
4	S	18 53 54	13 30 2	22 45	9♎42 54	4 31	8 0	16 37 26	10 23
5	☽	18 57 51	14 31 11	22 39	23 26 56	3 46	12 37	0♏11 35	14 39
6	M	19 1 47	15 32 21	22 32	6♏51 34	2 50	16 29	13 27 10	18 5
7	Tu	19 5 44	16 33 30	22 25	19 58 39	1 46	19 27	26 26 19	20 32
8	W	19 9 40	17 34 40	22 17	2♐50 27	0 S 38	21 21	9♐11 19	21 53
9	Th	19 13 37	18 35 50	22 9	15 29 13	0 N31	22 9	21 44 21	22 7
10	F	19 17 33	19 37 0	22 0	27 56 56	1 37	21 49	4♑7 11	21 15
11	S	19 21 30	20 38 10	21 51	10♑15 14	2 37	20 26	16 21 15	19 23
12	☽	19 25 27	21 39 19	21 42	22 25 23	3 30	18 7	28 27 47	16 40
13	M	19 29 23	22 40 28	21 32	4♒28 35	4 12	15 3	10♒27 56	13 17
14	Tu	19 33 20	23 41 37	21 22	16 26 1	4 43	11 24	22 23 2	9 25
15	W	19 37 16	24 42 45	21 11	28 19 13	5 2	7 20	4♓14 51	5 12
16	Th	19 41 13	25 43 52	21 0	10♓10 14	5 7	3 S 1	16 5 43	0 S 48
17	F	19 45 9	26 44 59	20 49	22 1 42	5 0	1 N26	27 58 38	3 N38
18	S	19 49 6	27 46 5	20 37	3♈57 0	4 39	5 50	9♈57 18	7 59
19	☽	19 53 2	28 47 10	20 24	16 0 8	4 5	10 4	22 6 3	12 4
20	M	19 56 59	29♑48 14	20 12	28 15 40	3 20	13 59	4♉29 37	15 45
21	Tu	20 0 56	0♒49 18	19 59	10♉48 29	2 25	17 22	17 12 52	18 47
22	W	20 4 52	1 50 21	19 45	23 43 19	1 20	20 0	0♊20 20	20 58
23	Th	20 8 49	2 51 22	19 31	7♊4 17	0 N10	21 39	13 55 28	22 1
24	F	20 12 45	3 52 23	19 17	20 54 1	1 S 4	22 4	27 59 52	21 45
25	S	20 16 42	4 53 23	19 3	5♋12 49	2 16	21 4	12♋32 23	20 2
26	☽	20 20 38	5 54 21	18 48	19 57 53	3 21	18 38	27 28 24	16 55
27	M	20 24 35	6 55 19	18 33	5♌2 51	4 14	14 54	12♌39 57	12 37
28	Tu	20 28 32	7 56 16	18 17	20 18 19	4 49	10 9	27 56 32	7 30
29	W	20 32 28	8 57 12	18 1	5♍33 10	5 4	4 N46	13♍6 55	1 N58
30	Th	20 36 25	9 58 7	17 45	20 36 36	4 57	0 S 50	28 1 12	3 S 35
31	F	20 40 21	10♒59 2	17 S 29	5♎19 58	4 S 30	6 S 15	12♎32 21	8 S 48

FIRST QUARTER—January 20, 3*h.* 14*m. p.m.*

FULL MOON—January 27, 3*h.* 9*m. p.m.*

D M	Venus. Lat.	Venus. Dec.	Mercury. Lat.	Mercury. Dec.	☽ Node.	Mutual Aspects
	° ′	° ′	° ′	° ′	° ′	
1	1 S 15	22 S 32	2 S 7	24 S 21	8♐34	1. ☉ ☌ Ψ.
3	1 17	22 7	2 9	23 54	8 28	2. ☉ ☍ ♂. ☿ ∠ Ψ. ♂ ▽ ♄.
5	1 20	21 40	2 8	23 21	8 21	3. ☿ ☍ ♄. ☿ ∠ Ψ.
7	1 23	21 10	2 6	22 41	8 15	4. ☉ ✶ ♃. ☿ ☐ Ψ.
9	1 25	20 37	2 2	21 56	8 8	5. ☿ ⊥ ♂. ☽ ☍ ♂. ☿ ∠ ♃.
11	1 27	20 2	1 55	21 4	8 2	6. ☉ ☌ ♄. ☿ ∠ Ψ.
13	1 29	19 25	1 46	20 8	7 56	7. ☉ ☍ Ψ. ☿ ☐ ☽.
15	1 30	18 46	1 34	19 6	7 49	8. ☉ ☽ ☿. ☿ ∠ ♃. ☽ ♄.
17	1 31	18 4	1 19	18 0	7 43	9. ☉ ☽ ♄. ☿ ☽ Ψ. ♂ Q ♇.
19	1 32	17 20	1 0	16 51	7 37	10. ☿ ☐ Ψ. ♃ △ ♄.
21	1 33	16 35	0 38	15 41	7 30	11. ☽ Stat. 12. ☿ ☽ Ψ.
23	1 33	15 47	0 S 12	14 33	7 24	13. ☿ ∠ ♂. ⊥ ♃. △ ♇.
25	1 33	14 58	0 N18	13 28	7 18	14. ☿ △ ♇. ☿ ✶ Ψ.
27	1 33	14 7	0 50	12 31	7 11	15. ☿ ∠ ♂. ⊥ ♃. ✶ Ψ.
29	1 33	13 15	1 25	11 44	7 5	17. ☉ ☍ Ψ. ♂ Q ♃.
31	1 S 32	12 S 21	2 N 0	11 S 12	6♐59	20. ☿ ☌ ♀. [☐ Ψ.
						22. ☿ ☌ ♀. ± ♄. ☽ ± ♄. ♃
						23. ☉ ∠ ♃. ☐ Ψ.
						24. ☿ Q Ψ.
						25. ☿ Q Ψ. ♀ ☐ ♇. ♂ ✶ Ψ.
						26. ☿ ☐ ♇. 28. ☿ P ♇.
						29. ☉ △ ♇. ☿ P Ψ. ♀ ☐ ♄.
						30. ☿ Stat.
						31. ☉ ✶ Ψ. ♂ Q ♃.

D M	Ψ Long.	♅ Long.	♄ Long.	♃ Long.	♂ Long.	♀ Long.	☿ Long.	Lunar Aspects ☉	♇	Ψ	♅	♄	♃	♂	♀	☿
	° ′	° ′	° ′	° ′	° ′	° ′	° ′									
1	10♐27	1♏54	15♒50	13♓24	15♐19	24♑0	17♑51	☐	∠		✶	∠				☐
2	10 29	1 56	15 ♑45	13 34	16 2	25 16	19 29	△	☌	☐	∠	✶	☍	☐	☐	
3	10 31	1 57	15 40	13 44	16 45	26 31	21 7				☌			△	△	
4	10 33	1 59	15 35	13 55	17 28	27 46	22 46	☐	♂	✶		☐				
☽	10 35	2 1	15 30	14 5	18 12	29♑2	24 24			∠			☐	✶	☐	☐
6	10 37	2 3	15 25	14 16	18 55	0♒17	26 2		☌	☌	♂		∠			
7	10 39	2 4	15 20	14 27	19 38	1 32	27 41	✶	∠			△	△			
8	10 41	2 6	15 15	14 38	20 21	2 47	29♑19	∠			☌	☐			✶	✶
9	10 43	2 7	15 10	14 49	21 5	4 2	0♒57	☌	✶	♂	∠		☐	♂	∠	∠
10	10 45	2 9	15 6	15 0	21 48	5 18	2 35				✶					☌
11	10 46	2 10	15 1	15 11	22 31	6 33	4 13		☐	☌		☍	✶		☌	
☽	10 48	2 12	14 56	15 22	23 15	7 48	5 50	♂		∠				☌		
13	10 50	2 13	14 51	15 34	23 58	9 3	7 26		△		☐		∠	∠	♂	♂
14	10 52	2 14	14 46	15 45	24 42	10 18	9 1			✶			☌			
15	10 54	2 16	14 41	15 57	25 25	11 33	10 35	☌	☐		△	☐		✶		
16	10 55	2 17	14 36	16 8	26 9	12 48	12 7	∠		☐		△			☌	☌
17	10 57	2 18	14 31	16 20	26 53	14 4	13 37	✶			☐		♂	☐		
18	10 59	2 19	14 27	16 32	27 36	15 19	15 4		☍						∠	∠
☽	11 1	2 20	14 22	16 44	28 20	16 34	16 29			△		☐	☌		✶	✶
20	11 2	2 21	14 17	16 56	29 4	17 49	17 50	☐		☐	☍		∠	△		
21	11 4	2 22	14 12	17 8	29♐48	19 4	19 7					✶		☐		
22	11 5	2 23	14 8	17 20	0♑31	20 19	20 19		☐			∠	✶		☐	☐
23	11 7	2 23	14 3	17 33	1 15	21 34	21 26	△	△		☍					
24	11 9	2 24	13 59	17 45	1 59	22 49	22 26	☐				☌	☐		△	△
25	11 10	2 25	13 54	17 57	2 43	24 4	23 19		☐			△		☍	☐	☐
☽	11 12	2 25	13 50	18 10	3 27	25 19	24 3			☐			♂	△		
27	11 13	2 26	13 46	18 23	4 11	26 34	24 39	☍	✶	△	☐			☐		
28	11 14	2 26	13 41	18 35	4 55	27 49	25 6		∠				☌		☐	☍
29	11 16	2 27	13 37	18 48	5 39	29♒4	25 22		☌	☐	✶	∠		△	☍	
30	11 17	2 27	13 33	19 1	6 23	0♓18	25 ♑27	☐			∠	✶	☍			
31	11♐19	2♏28	13♒29	19♓14	7♑7	1♓33	25♒20	△	♂	✶	☌			☐		☐

LAST QUARTER—January 4, 7*h.* 4*m. p.m.*

DISTANCES APART OF ALL ☌'s AND ☍'s. IN 1975.

Note: The Distances Apart are in Declination. ♇ = Pluto

JANUARY

2	☽ ☍ ♃	3pm53	5 53
4	☽ ☌ ♇	11am11	19 36
6	☽ ☌ ♅	3 19	3 30
6	☉ ☍ ♄	9 25	0 23
9	☽ ☌ ♆	2 53	1 26
9	☽ ☌ ♂	11pm23	1 0
11	☽ ☍ ♄	9 17	2 35
12	☽ ☌ ☉	10am20	3 24
13	☽ ☌ ☿	6pm49	5 55
13	☽ ☌ ♀	10 14	5 44
17	☽ ☌ ♃	0am17	5 44
18	☽ ☍ ♇	10pm34	19 38
20	☿ ☌ ♀	8am10	0 40
20	☽ ☍ ♅	7pm53	3 23
22	☿ ☌ ♀	10am55	1 4
23	☽ ☍ ♆	7pm 6	1 19
25	☽ ☍ ♂	7am38	2 32
26	☽ ☌ ♄	2 8	2 34
27	☽ ☍ ☉	3pm 9	4 11
28	☽ ☍ ☿	7 41	3 31
29	☽ ☍ ♀	0am50	5 58
30	☽ ☍ ♃	9 24	5 36
31	☽ ☌ ♇	6pm20	19 39

FEBRUARY

2	☽ ☌ ♅	10am14	3 17
5	☽ ☌ ♆	9 45	1 13
7	☽ ☌ ♂	10pm36	3 31
7	☽ ☍ ♄	11 21	2 34
8	☉ ☌ ☿	8am44	3 27
8	♂ ☍ ♄	10 12	0 58
10	☽ ● ☿	5pm47	0 57
11	☽ ☌ ☉	5am17	4 35
13	☽ ☌ ♀	9 21	5 44
13	☽ ☌ ♃	6pm37	5 26
15	☽ ☍ ♇	4am18	19 39
17	☽ ☍ ♅	2 53	3 9
17	♀ ☌ ♃	8pm25	0 8
20	☽ ☍ ♆	4am55	1 3
22	☽ ☌ ♄	10 12	2 40
23	☽ ☍ ♂	5 29	4 29
24	☽ ☍ ☿	8 12	2 58
26	☽ ☍ ☉	1 15	4 39
27	☽ ☍ ♃	6 16	5 19
27	☽ ☍ ♀	10pm33	4 48
28	☽ ☌ ♇	3am30	19 41

MARCH

1	☽ ☌ ♅	6pm21	3 5
2	♀ ☍ ♇	9am31	15 6
4	☽ ● ♆	4pm52	0 56
7	☽ ☍ ♄	3am12	2 47
8	☽ ☌ ♂	11pm55	5 10
10	☽ ☌ ☿	0 32	5 40
12	☽ ☌ ☉	11 47	4 23
13	☽ ☌ ♃	1 49	5 9
14	☽ ☍ ♇	8am55	19 41
15	☽ ☌ ♀	5pm56	3 7
16	☽ ☍ ♅	7am29	3 0
19	☽ ☍ ♆	11 45	0 48
21	♀ ☍ ♅	6 55	0 35
21	☽ ☌ ♄	5pm52	2 57
22	☉ ☌ ♃	1am42	0 59
24	☽ ☍ ♂	2 29	5 44
25	☽ ☍ ☿	11pm25	6 44
27	☽ ☍ ♃	4am 7	5 3
27	☽ ☍ ☉	10 36	3 53
27	☽ ☌ ♇	1pm29	19 43
29	☽ ☌ ♅	3am27	2 59

MARCH—continued

29	☉ ☍ ♇	5am12	15 55
29	☽ ☍ ♀	9pm14	1 12

APRIL

1	☽ ● ♆	1am 9	0 43
3	☽ ☍ ♄	10 51	3 6
7	☿ ☌ ♃	1 54	0 52
7	☽ ☌ ♂	3 5	6 1
8	☿ ☍ ♇	3pm19	14 10
10	☽ ☌ ♃	9am39	4 55
10	☽ ☍ ♇	1pm47	19 44
10	☽ ☌ ☿	10 41	5 9
11	☽ ☌ ☉	4 39	3 5
12	☽ ☍ ♅	11am29	3 0
14	☽ ☌ ♀	9pm22	1 19
15	☽ ☍ ♆	4 43	0 40
18	☽ ☌ ♄	1am41	3 16
18	♃ ☍ ♇	8 9	14 53
18	☉ ☌ ☿	8pm57	0 33
19	☿ ☍ ♅	11 1	0 8
21	☉ ☍ ♅	4am 8	0 32
21	☽ ☍ ♂	10pm24	6 8
23	♀ ☍ ♆	3 8	3 20
23	☽ ☌ ♇	10 24	19 45
24	☽ ☍ ♃	0am47	4 49
25	☽ ☌ ♅	0pm 4	3 2
25	☽ ☍ ☉	7 55	2 10
26	☽ ☍ ☿	11am35	1 6
28	☽ ● ♆	10 10	0 39
28	☽ ☍ ♀	9pm16	4 28
30	☽ ☍ ♄	10 25	3 24

MAY

6	☽ ☌ ♂	7am14	6 1
7	☽ ☍ ♇	7pm48	19 43
8	☽ ☌ ♃	5am39	4 42
9	☽ ☍ ♅	4pm26	3 5
11	☽ ☌ ●	7am 5	0 58
11	☿ ☍ ♆	0pm 9	4 2
12	☽ ☍ ♆	9 50	0 41
13	☽ ☌ ☿	1am34	3 33
14	☽ ☌ ♀	5pm54	5 29
15	☽ ☌ ♄	11am 0	3 32
20	☽ ☍ ♂	5pm18	5 42
21	☽ ☌ ♇	5am15	19 40
21	☽ ☍ ♃	6pm45	4 36
22	☽ ☌ ♅	7 5	3 7
24	♀ ☌ ♄	9am 4	2 41
25	☽ ☍ ☉	5 51	0 14
25	☽ ● ♆	6pm33	0 43
26	☽ ☍ ☿	5 14	2 57
28	☽ ☍ ♄	0 27	3 39
28	☽ ☍ ♀	8 49	6 33
30	♂ ☍ ♇	2am39	15 9

JUNE

1	☉ ☍ ♆	1pm 8	1 35
4	☽ ☍ ♇	3am 6	19 34
4	☽ ☌ ♂	11 8	5 16
5	☽ ☌ ♃	0 52	4 27
5	☽ ☍ ♅	10pm55	3 8
9	☽ ☍ ♆	4am22	0 45
9	☽ ☌ ☉	6pm49	1 34
9	☽ ☌ ☿	9 20	1 10
10	☉ ☌ ☿	6 13	3 5
11	☽ ☌ ♄	10 48	3 45
13	☽ ☌ ♀	6am24	6 46

JUNE—continued

16	♂ ☌ ♃	2pm11	0 25
17	☽ ☌ ♇	10am41	19 26
18	☽ ☍ ♃	9 23	4 19
18	☽ ☍ ♂	11 14	4 40
19	☽ ☌ ♅	0 23	3 7
22	☽ ● ♆	1 17	0 46
22	☽ ☍ ☿	10 32	3 9
23	☽ ☍ ☉	4pm54	2 40
25	☽ ☍ ♄	3am10	3 50
27	☽ ☍ ♀	2pm25	6 5
28	♂ ☍ ♅	9 43	1 3

JULY

1	☽ ☍ ♇	11am13	19 15
2	☽ ☌ ♃	5pm47	4 11
3	☽ ☍ ♅	6am41	3 3
3	☽ ☌ ♂	1pm13	4 2
6	☽ ☍ ♆	0 22	0 45
7	☽ ● ☿	1 27	0 27
9	☽ ☌ ☉	4am10	3 41
9	☽ ☌ ♄	1pm 7	3 56
12	☽ ☌ ♀	7am14	4 28
14	☽ ☌ ♇	4pm35	19 4
15	☉ ☌ ♄	2 48	0 2
15	☽ ☍ ♃	8 47	4 4
16	☽ ☌ ♅	5am37	2 58
17	☽ ☍ ♂	3 59	3 2
19	☽ ● ♆	6 28	0 43
22	☽ ☍ ☿	5 38	4 18
22	☽ ☍ ♄	5pm15	4 2
23	☽ ☍ ☉	5am28	4 19
25	☿ ☌ ♄	8 48	0 48
26	☽ ☍ ♀	0pm23	2 8
28	☽ ☍ ♇	7 33	18 51
30	☽ ☌ ♃	6am32	3 56
30	☽ ☍ ♅	3pm 6	2 50

AUGUST

1	☉ ☌ ☿	9am19	1 38
1	☽ ☌ ♂	11 53	1 59
2	☽ ☍ ♆	8pm57	0 36
6	☽ ☌ ♄	4am59	4 10
7	☽ ☌ ☉	11 57	4 40
8	☽ ☌ ☿	0 1	6 22
9	☽ ● ♀	7 15	0 36
11	☽ ☌ ♇	0 42	18 41
12	☽ ☍ ♃	5 33	3 52
12	☽ ☌ ♅	0pm42	2 42
14	☽ ☍ ♂	6 56	1 1
15	☽ ● ♆	11am24	0 30
17	☿ ☌ ♀	10 44	7 40
19	☽ ☍ ♄	6 5	4 17
21	☽ ☍ ☉	7pm48	4 41
22	☽ ☍ ♀	0 56	2 50
23	☽ ☍ ☿	2 34	4 35
25	☽ ☍ ♇	3am41	18 29
26	☽ ☌ ♃	1pm38	3 49
26	☽ ☍ ♅	11 38	2 32
27	☉ ☌ ♀	1 11	7 52
30	♂ ☍ ♆	2am21	0 28
30	☽ ☍ ♆	5 5	0 20
30	☽ ● ♂	5 13	0 8

SEPTEMBER

2	☽ ☌ ♄	8pm42	4 27
4	☽ ☌ ♀	9 38	3 9
5	☽ ☌ ☉	7 19	4 26

SEPTEMBER—cont.

5	☿ ☌ ♇	7pm37	16 22
7	☽ ☌ ♇	11am34	18 23
7	☽ ☌ ☿	2pm59	1 39
8	☽ ☍ ♃	0 30	3 51
8	☽ ☌ ♅	10 50	2 25
11	☽ ● ♆	5 56	0 13
12	☽ ☍ ♂	6am35	1 4
15	☽ ☍ ♄	5pm35	4 35
17	☽ ☍ ♀	8 22	1 32
20	☽ ☍ ☉	11am50	3 53
20	☿ ☍ ♃	7pm30	4 38
21	☽ ☍ ♇	11am42	18 17
22	☽ ☌ ♃	3pm18	3 54
22	☽ ☍ ☿	5 37	0 58
23	☽ ☍ ♅	8am19	2 16
26	☽ ☍ ♆	0pm20	0 3
27	☽ ☌ ♂	2 40	2 9
30	☽ ☌ ♄	10am17	4 45

OCTOBER

2	☽ ● ♀	8am32	0 56
2	☉ ☌ ♇	11pm12	15 0
4	☿ ☍ ♃	3 36	4 26
5	☽ ☌ ♇	0am 8	18 15
5	☽ ☌ ☉	3 23	3 8
5	☽ ☌ ☿	4pm55	5 10
5	☽ ☍ ♃	6 20	4 1
6	☽ ☌ ♅	11am40	2 11
9	☽ ● ♆	3 13	0 3
9	☉ ☌ ☿	11 27	1 46
10	☽ ☍ ♂	11 56	2 58
13	☽ ☍ ♄	4 4	4 52
13	☉ ☍ ♃	2pm59	1 30
16	☿ ☌ ♇	0am 0	14 48
16	☽ ☍ ♀	3 20	2 55
18	☽ ☍ ☿	6pm45	4 11
18	☽ ☍ ♇	8 2	18 16
19	☽ ☌ ♃	2 23	4 8
20	☽ ☍ ☉	5am 6	2 7
20	☽ ☍ ♅	5pm35	2 5
21	☿ ☌ ♇	7am29	13 38
23	☽ ☍ ♆	7pm15	0 9
25	☽ ☌ ♂	0 3	3 50
26	☉ ☌ ♅	9 5	0 27
27	☽ ☌ ♄	8 1	4 58
29	☿ ☍ ♃	3am43	0 30
31	☽ ☌ ♀	4 57	4 16

NOVEMBER

1	☽ ☌ ♇	0pm25	18 18
1	☽ ☍ ♃	11 31	4 14
2	☽ ☌ ☿	10am11	4 10
3	☽ ☌ ♅	1 25	2 2
3	☽ ☌ ●	1pm 5	1 0
5	☽ ● ♆	2 49	0 12
7	☽ ☍ ♂	5am32	4 29
8	☿ ☌ ♅	3pm 7	0 58
9	☽ ☍ ♄	1 38	5 2
14	☽ ☍ ♀	6 11	4 45
15	☽ ☍ ♇	4am56	18 21
15	☽ ☌ ♃	3pm13	4 17
17	☽ ☍ ♅	3am50	1 58
18	☽ ☍ ☿	9 45	0 40
18	☽ ☍ ☉	10pm28	0 22
19	♀ ☌ ♇	9 2	13 39
20	☽ ☍ ♆	3am 8	0 15
21	☽ ☌ ♂	4pm26	5 5
23	♀ ☍ ♃	9 31	0 21

DISTANCES APART OF ALL ☌'s AND ☍'s IN 1975.

Note: The Distances Apart are in Declination. ♇ = Pluto

NOVEMBER—cont.

24	☽ ☌ ♄	1am56	5 3
28	☉ ☌ ☿	9pm21	0 41
28	☽ ☌ ♇	10 17	18 25
29	☽ ☍ ♃	4am43	4 17
29	☽ ☌ ♀	3pm45	4 24
30	☽ ☌ ♅	1 46	1 54

DECEMBER

2	☿ ☌ ♆	8am 9	2 30
3	☽ ☌ ☉	0 50	1 39
3	☽ ● ♆	2 59	0 17
3	☽ ☌ ☿	5 17	3 0
4	☽ ☍ ♂	6 16	5 24
4	☉ ☌ ♆	7 22	1 28
6	☽ ☍ ♄	9pm57	5 2
10	☿ ☍ ♂	8 54	0 52
11	♀ ☌ ♅	7 4	1 38

DECEMBER—cont.

12	☽ ☍ ♇	2pm13	18 28
12	☽ ☌ ♃	9 1	4 11
14	☽ ☍ ♅	2 52	1 49
14	☽ ☍ ♀	9 46	3 21
15	☉ ☍ ♂	2 0	2 47
17	☽ ☍ ♆	0 49	0 20
18	☽ ☌ ♂	7am 7	5 30
18	☽ ☍ ☉	2pm40	2 57

DECEMBER—cont.

19	☽ ☍ ☿	0pm58	5 58
21	☽ ☌ ♄	6am 0	4 59
26	☽ ☌ ♇	5 10	18 30
26	☽ ☍ ♃	11 15	4 1
27	☽ ☌ ♅	11pm 6	1 42
29	☽ ☌ ♀	9am27	1 45
30	☽ ● ♆	1pm32	0 24
30	☽ ☍ ♂	1 34	5 25

TIME WHEN THE SUN AND MOON ENTER THE ZODIACAL SIGNS IN 1975.

JANUARY

1	☽ ♍	5pm34
3	☽ ♎	7 23
5	☽ ♏	11 39
8	☽ ♐	6am41
10	☽ ♑	3pm59
13	☽ ♒	3am 4
15	☽ ♓	3pm24
18	☽ ♈	4am 4
20	☽ ♉	3pm21
20	☉ ♒	4 37
22	☽ ♊	11 23
25	☽ ♋	3am20
27	☽ ♌	4 0
29	☽ ♍	3 15
31	☽ ♎	3 15

FEBRUARY

2	☽ ♏	5am55
4	☽ ♐	0pm11
6	☽ ♑	9 43
9	☽ ♒	9am17
11	☽ ♓	9pm46
14	☽ ♈	10am23
16	☽ ♉	10pm 9
19	☉ ♓	6am51
19	☽ ♊	7 34
21	☽ ♋	1pm19
23	☽ ♌	3 13
25	☽ ♍	2 38
27	☽ ♎	1 39

MARCH

1	☽ ♏	2pm35
3	☽ ♐	7 8
6	☽ ♑	4am41
8	☽ ♒	3pm10
11	☽ ♓	3am50
13	☽ ♈	4pm19
16	☽ ♉	3am53
18	☽ ♊	1pm43
20	☽ ♋	8 48
21	☉ ♈	5am57
23	☽ ♌	0 32
25	☽ ♍	1 21
27	☽ ♎	0 52
29	☽ ♏	1 9
31	☽ ♐	4 12

APRIL

2	☽ ♑	11am 9
4	☽ ♒	9pm46
7	☽ ♓	10am17
9	☽ ♈	10pm45
12	☽ ♉	9am54
14	☽ ♊	7pm14
17	☽ ♋	2am27
19	☽ ♌	7 14
20	☉ ♉	5pm 8
21	☽ ♍	9am43
23	☽ ♎	10 42
25	☽ ♏	11 40
27	☽ ♐	2pm21
29	☽ ♑	8 10

MAY

2	☽ ♒	5am35
4	☽ ♓	5pm35
7	☽ ♈	6am 3
9	☽ ♉	5pm 3
12	☽ ♊	1am45
14	☽ ♋	8 8
16	☽ ♌	0pm39
18	☽ ♍	3 46
20	☽ ♎	6 6
21	☉ ♊	4 24
22	☽ ♏	8 27
24	☽ ♐	11 52
27	☽ ♑	5am32
29	☽ ♒	2pm11

JUNE

1	☽ ♓	1am33
3	☽ ♈	2pm 2
6	☽ ♉	1am19
8	☽ ♊	9 49
10	☽ ♋	3pm21
12	☽ ♌	6 45
14	☽ ♍	9 12
16	☽ ♎	11 42
19	☽ ♏	3am 0
21	☽ ♐	7 36
22	☉ ♋	0 27
23	☽ ♑	1pm57
25	☽ ♒	10 34
28	☽ ♓	9am34
30	☽ ♈	10pm 3

JULY

3	☽ ♉	9am54
5	☽ ♊	6pm58
8	☽ ♋	0am24
10	☽ ♌	2 50
12	☽ ♍	3 56
14	☽ ♎	5 23
16	☽ ♏	8 24
18	☽ ♐	1pm21
20	☽ ♑	8 47
23	☽ ♒	5am57
23	☉ ♌	11 23
25	☽ ♓	4pm59
28	☽ ♈	5am28
30	☽ ♉	5pm53

AUGUST

2	☽ ♊	4am 2
4	☽ ♋	10 17
6	☽ ♌	0pm44
8	☽ ♍	0 54
10	☽ ♎	0 52
12	☽ ♏	2 31
14	☽ ♐	7 1
17	☽ ♑	2am26
19	☽ ♒	0pm10
21	☽ ♓	11 33
23	☉ ♍	6 24
24	☽ ♈	0 3
27	☽ ♉	0am45
29	☽ ♊	11 54
31	☽ ♋	7pm34

SEPTEMBER

2	☽ ♌	11pm 8
4	☽ ♍	11 30
6	☽ ♎	10 39
8	☽ ♏	10 47
11	☽ ♐	1am42
13	☽ ♑	8 13
15	☽ ♒	5pm52
18	☽ ♓	5am33
20	☽ ♈	6pm 8
23	☽ ♉	6am44
23	☉ ♎	3pm55
25	☽ ♊	6 13
28	☽ ♋	3am 7
30	☽ ♌	8 20

OCTOBER

2	☽ ♍	10am 3
4	☽ ♎	9 39
6	☽ ♏	9 10
8	☽ ♐	10 37
10	☽ ♑	3pm30
13	☽ ♒	0am10
15	☽ ♓	11 41
18	☽ ♈	0 21
20	☽ ♉	0pm44
22	☽ ♊	11 52
24	☉ ♏	1am 7
25	☽ ♋	8 57
27	☽ ♌	3pm20
29	☽ ♍	6 46
31	☽ ♎	7 55

NOVEMBER

2	☽ ♏	8pm 9
4	☽ ♐	9 11
7	☽ ♑	0am46
9	☽ ♒	8 1
11	☽ ♓	6pm43
14	☽ ♈	7am18
16	☽ ♉	7pm38
19	☽ ♊	6am14
21	☽ ♋	2pm36
22	☉ ♐	10 32
23	☽ ♌	8 43
26	☽ ♍	1am 5
28	☽ ♎	3 48
30	☽ ♏	5 37

DECEMBER

2	☽ ♐	7am34
4	☽ ♑	10 59
6	☽ ♒	5pm14
9	☽ ♓	2am53
11	☽ ♈	3pm 7
14	☽ ♉	3am39
16	☽ ♊	2pm12
18	☽ ♋	9 49
21	☽ ♌	2am54
22	☉ ♑	11 46
23	☽ ♍	6 28
25	☽ ♎	9 28
27	☽ ♏	0pm28
29	☽ ♐	3 54
31	☽ ♑	8 18

THE POSITION OF PLUTO (♇) IN 1975.

Date		Long.	Lat.	Dec.	Date		Long.	Lat.	Dec.	Date		Long.	Lat.	Dec.
		° ′	° ′	° ′			° ′	° ′	° ′			° ′	° ′	° ′
Jan.	1	9♎14	16 N46	11 N45	May	11	6♎50	17 N13	13 N 5	Sept.	18	8♎34	16N20	11N 36
	11	9 15	16 52	11 50		21	6℞40	17 9	13 5		28	8 57	16 20	11 27
	21	9 ℞14	16 57	11 55		31	6 33	17 4	13 3	Oct.	8	9 21	16 20	11 18
	31	9 9	17 3	12 2	June	10	6 30	16 59	13 0		18	9 44	16 21	11 11
Feb.	10	9 0	17 8	12 10		20	6D29	16 54	12 56		28	10 6	16 23	11 4
	20	8 49	17 12	12 18		30	6 32	16 49	12 50	Nov.	7	10 27	16 26	10 58
Mar.	2	8 36	17 16	12 26	July	10	6 38	16 44	12 43		17	10 46	16 30	10 54
	12	8 21	17 18	12 35		20	6 47	16 39	12 35		27	11 3	16 34	10 52
	22	8 5	17 20	12 42		30	7 0	16 34	12 26	Dec.	7	11 17	16 39	10 51
Apr.	1	7 48	17 20	12 48	Aug.	9	7 14	16 30	12 16		17	11 29	16 44	10 51
	11	7 32	17 20	12 55		19	7 32	16 27	12 6		27	11 37	16 50	10 54
	21	7 16	17 18	13 0		29	7 51	16 24	11 56		31	11♎39	16N52	10N55
May	1	7♎ 2	17N16	13N 3	Sept.	8	8♎12	16N22	11N46					

1 CHART "C" (Name)
2 JAN 31 1975 (Month) (Day) (Year)
3 Place ELMHURST IL.
4 Latitude 41N53.4
5 Longitude 87W56.4

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
7 Correction for Standard Time
8 Time of Birth (Standard Time) 4:56:22
9 Correction for Mean Time (+) 0:08:15
10 Local Mean Time of Birth, A.M or P.M. 5:04:37

FIRST KEY PROBLEM

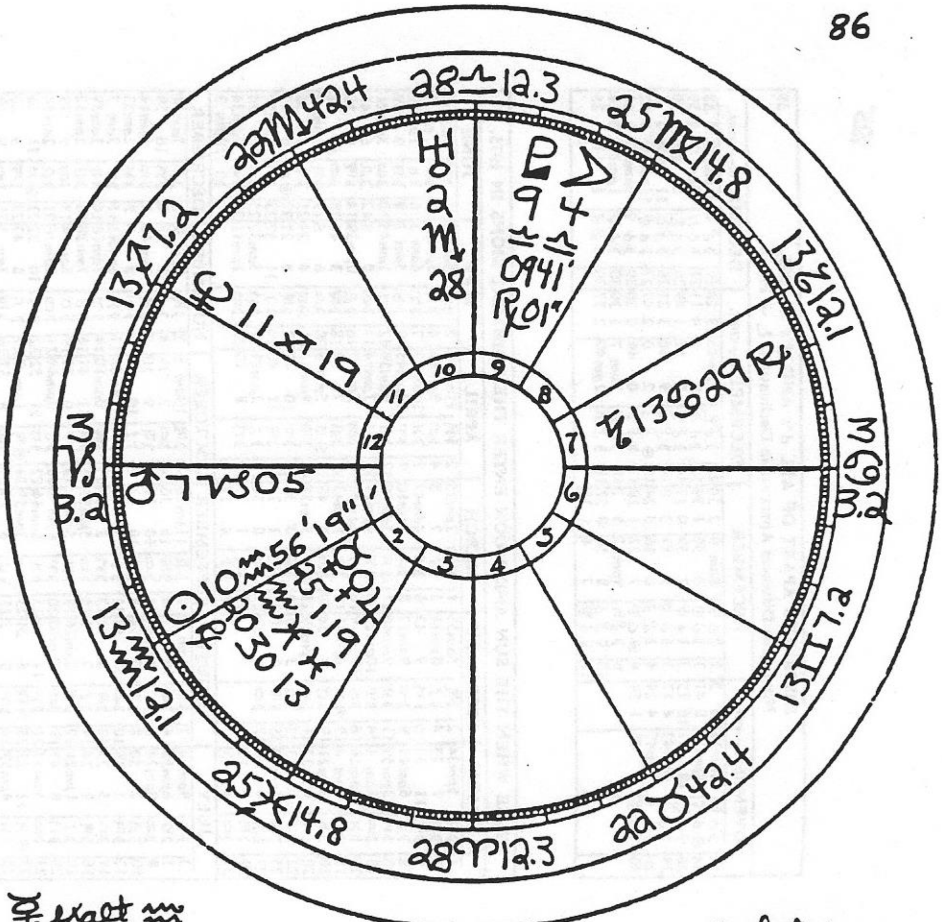
11 Noon 11:59:60 12:00
12 Local Mean Time 5:04:37
13 L.M.T. Interval (-) 6:55:23
14 Sidereal Time (Noon) 20:40:21
15 RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 13:44:58
19 Correction, 9.86s per h. for E.G.M.T. Int. (-) 0:00:11
20 Sidereal Time (Of Birth) 13:44:47

SECOND KEY PROBLEM

21 Standard L.M. Time of Birth 5:04:37
22 Hrs. E. or W. of Greenwich 5:51:45
23 E.G.M.T. 10:56:22
24 Noon 11:59:60 12:00
25 E.G.M.T. 10:56:22
26 E.G.M.T. Interval (Indicate plus or minus) (-) 1:03:38
(+ΔT) = (-) 1:04:25

ADDITIONAL FACTORS

27 Constant Log
28 Limiting Date (Including year) Feb. 16, 1975
DALTON'S T. of H.



♀ exalt ♓ ♂ exalt ♑ ♆ exalt ♐. ♃ home ♓ ♇ in har ♎ ☉ detri ♒ ♄ detri ♋

MOV.	FIX.	MUT.	FIRE	EARTH	AIR	WATER	ANG.	SUC.	CAD.
4 MC ASC	3	3	1	1 ASC	4 MC	4	4	4	2
PER.	**COMP.**	**PUB.**	**LIFE**	**WEALTH**	**ASSOC.**	**PSY.**	**ABOVE**	**EAST**	**RET.**
5	1	4	4	4	2	0	5	7	2

Declinations		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	M.P.
17S30	☉		△	☌	·	⊻	·	⊼	□	⚹	△	·	·	
6S01	☽			·	·	□	P.	□	⊻	·	☌	·	□	♄
11S13	☿				☌	∠	·	P□	P△	·	P□	P△	·	
12S20	♀					⚹	·	P□	P△	·	P.	△	⚹	
23S48	♂						·	☍	⚹	·	□	·	P☌	♅
5S17	♃							△	P□	□	·	·	·	♆
22N25	♄								·	⊼	□	·	P☍	
11S49	♅									·	·	☌	⚹	
20S37	♆										⚹	∠	·	
12N02	♇											·	□	
10S50	MC												⚹	
23S24	ASC													

EMAN 1·1 2·3 3·6 ASPECTS

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
♅	♀	♂	Planet
♎	♓	♑	Sign
1	2	1	House

CHART "D"

Given a birth time of 10:43:58 B.S.T. June 22, 1970 London, England and using St, Paul's Cathedral coordinates, latitude 51N31 and longitude 0W06 will give a mean time correction of - 24´´ and a time correction to Greenwich 0f 24´´. British Standard Time requires a one hour minus correction.

Great care needs to be exercised with British charts as there were many changes in time especially during war when Double Standard Time was used and there has been many changes in the standard meridian back and forth from 15W to 0W. 1970 was probably a 15W year. Other parts of the British Isles also differ from England.

American Astrology Tables of Houses
Rice

51N31 31 ÷ 60 = 0.5166667

	11	12	1	2	3	10
3:48:00 =	7can15.64 =	10Leo17.87 =	6Vir47.24 =	27Vir36.12 =	24Lib44.07 =	29Tau12 48
3:44:13 =	6Can24.85 =	9Leo33.61 =	6Vir 7.25 =	26Vir50.78 =	23lib52.71 =	28Tau18 07
3:44:00 =	6Can21.95 =	9Leo31.07 =	6Vir 5.25 =	26Vir48.18 =	23Lib49.77 =	28Tau14 59

13 ÷ 4:00 or 13 ÷ 240 = 0.0541667

The American Book of Tables
Michaelsen's

	11	12	1	2	3	10
3:48:00 =	7Can15.4 =	10Leo17.5 =	6Vir47.3 =	27Vir36 =	24Lib43.9 =	29Tau13
3:44:13 =	6can24.8 =	9Leo33.5 =	6Vir 7.6 =	26Vir51 =	23Lib52.8 =	28Tau18.1
3:44:00 =	6Can21.9 =	9Leo31.0 =	6Vir 5.3 =	26Vir48 =	23Lib49.9 =	28Tau15

13 ÷ 4:00 or 13 ÷ 240 = 0.0541667

Spherical Basis of Astrology
Dalton's

	11	12	1	2	3	10
3:47:06 =	7Can00 =	10Leo 9.5 =	6Vir38.3 =	27Vir24 =	24Lib32.9 =	29Tau00
3:44:13 =	6Can22.5 =	9Leo36.2 =	6Vir 7.7 =	26Vir50.7 =	23Lib55.4 =	28Tau18.3
3:42:57 =	6Can06.0 =	9Leo21.5 =	5Vir54.3 =	26Vir36 =	23Lib38.9 =	28Tau00

1:16 ÷ 4:09 or 76 ÷ 249 = 0.3052209

Chart "D" con't

Michaelsen's American Ephemeris

E.G.M.T.I. 9:44:39 2nd DMS-DD = 9.7441667 ÷ 24 = 0.4060069 STO 2

Sun June 23 = 1Can07 26 2nd DMs-DD = 1.1238889 STO 5
Sun June 22 = 0Can10 12 2nd DMS-DD = 0.17 STO 4

RCL 5 - RCL 4 = 0.9538889
0.9538889 X RCL2 = 0.3872855
0.3872855 + RCL 4 = 0.5572855
INV 2nd DMS-DD = 0.3326228
Sun = 0Can 33 26

Sun's declination changes by only one minute, no correction = 23N27

Moon June 23 = 18Aqu58 21 2nd DMS-DD = 18.9725 STO 5
Moon June 22 = 4Aqu17 24 2nd DMS-DD = 4.29 STO 4

RCL 5 - RCL 4 = 14.6825
14.6825 X RCL 2 = 5.961197
5.961197 + RCL 4 = 10.251197
INV 2nd DMS-DD = 10.150431
Moon = 10Aqu15 04

1st order correction

June 22 Moon = 4:17:24
June 23 Moon = 18:58:21 14:40:57
June 24 Moon = 33:29:17 14:30:56 0.10:01
June 25 Moon = 47:46:39 14:17:22 0.13:34 0:03:33

The Moon is slowing down in motion

0.4100000 = 0.12095
0.4060069 = 0.1205707
0.4000000 = 0.12000

0.0060069 X 0.00095 = 0.0005707
0.0100000

0.1205707 X 0° 10′ 01′′ = 0° 01′ 13′′

1′ 13′′ added to the Moon = 10Aqu16′ 17′′

Chart "D" con't

2nd order correction

0.4100000 = 0.06110
0.4060069 = 0.061098
0.4000000 = 0.06400

0.0060069 X 0.00290 = 0.062258
0.0100000

0.062258X 0° 03′ 33′′ = 0° 00′ 13′′

13′′ subtracted from the new moon position = 10Aqu16 04

Moon's declination June 23 = 16S27
June 22 = 21S42
5 15

5° 15′ 2nd DMS-DD = 5.25 X RCL 2 = 2.1315365 inv 2nd DMS-DD = 2° 08′
21S42 - 2° 08′ = 19S34

And now for something new, a correction for the declination

June 22	21S42			
June 23	16S27	5° 15′		
June 24	10S20	6° 07′	52′	
June 25	3S46	6° 34′	27′	25′

0.1205707 X 0° 52′ = 6′ 16′′
added to 19S42 = 19S48′ 16′′

The 2nd order correction only gives two seconds to be subtracted.

0.4100000 = 0.06410
0.4060069 = 0.06400601
0.4000000 = 0.06400

0.0060069 X 0.00010 = 0.0000601
0.0100000

25′′ 2nd DMS-DD = 0.0069444 X 0.06400601 = 0.0004445
INV 2nd DMS-DD = 0° 00′ 02′′

Moon's declination = 19S48′ 14′′

As you can see most times a 2nd order correction is unnecessary.

Chart "D" con't

Mercury June 23 = 15Gem28
June 22 = 13Gem38
1 50

110 X RCL 2 = 44.660764
13Gem38 + 45 = 14Gem23

decl. June 23 = 21N43
June 22 = 21N19
24

24 X RCL 2 = 9.7441667
10 + 21N19 = 21N29

Venus June 23 = 7Leo22
June 22 = 6Leo11
1 11

71 X RCL 2 = 28.826493
6Leo11 + 29 = 6Leo40

decl. June 23 = 20N17
June 22 = 20N35
18

18 X RCL 2 = 7.308125
20N35 - 7 = 20N28

Mars June 23 = 13Can37 = 12Can97
June 22 = 12Can58
39

39 x RCl 2 = 15.83471 16 + 58 = 74 13Can14

decl. June 23 = 23N46
June 22 = 23N49
03

3 X RCL 2 = 1.2180208
23N49 - 1 = 23N48

Jupiter June 23 = 26Lib04
June 22 = 26Lib04 no correction necessary 26Lib04R

Jupiter's decl. June 23 = 8S52
June 22 = 8S51
1

1 X RCL 2 = 0.4060069 no correction necessary 8S51

Saturn June 23 = 18Tau18
June 22 = 18Tau11
07

7 X RCL 2 = 2.8420486
3 + 18Tau11 = 18Tau14

decl June 23 = 15N12
decl June 22 = 15N10
02

2 X RCL 2 = 0.8120139
1 + 15N10 = 15N11

Uranus June 23 = 4Lib42
June 22 = 4Lib42 no correction necessary 4Lib42

decl. June 25 = 1S14
June 21 = 1S13
4 = 01 0.25′ per day

June 23 = 1S13.5
June 22 = 1S13.25
.25 no correction necessary

Neptune June 23 = 28Vir41R
June 22 = 28Vir43R
02

2 X RCL 2 = 0.8120139
28Vir43R - 1 = 28Vir42R

decl. June 25 = 18S10
June 21 = 18S11
4 = 01

as in Uranus no correction necessary

Pluto June 23 = 24Vir46
June 22 = 24Vir45
01

1 X RCL2 = 0.4060069 no correction necessary 24Vir45

decl. June 25 = 16N30
June 21 = 16N33
4 03 0.75 per day

June 23 = 16N31.5
June 22 = 16N33.75
2.25

2.25 X RCL 2 = 0.9135156
16N33.75 - 0.9 = 32.85 16N33

From page 36,37 declination Tables

The M.C. (28Tau18)

28Tau20 = 19N48
28tau18 = ?
28Tau10 = 19N46

8 X 02 = 1.6
10

19N46 + 2 = 19N48

The Asc. (6Vir05)

6Vir00 = 9N19
6Vir05 = ?
6Vir10 = 9N16

5 X 03 = 1.5
10

9N19 - 1.5 = 9N17.5

Midheaven (M.C. or 10th Cusp)					NORTH Geographic Latitude	Midheaven (M.C. or 10th Cusp)				
Sidereal Time			3h 44m 0s			Sidereal Time			3h 48m 0s	
Right Ascension			56° 0′ 0″			Right Ascension			57° 0′ 0″	
Geocentric Longitude			♉ 28° 14′ 59″			Geocentric Longitude			♉ 29° 12′ 49″	
11	12	Ascendant	2	3		11	12	Ascendant	2	3
♋	♌	♍	♍	♎		♋	♌	♍	♍	♎
° ′	° ′	° ′	° ′	° ′	°	° ′	° ′	° ′	° ′	° ′
2 50.8	4 52.8	2 56.1	26 29.5	25 5.4	40	3 45.4	5 43.5	3 43.6	27 22.1	26 2.5
3 5.5	5 13.9	3 11.3	26 31.0	24 59.8	41	4 0.1	6 4.2	3 58.3	27 23.2	25 56.6
3 20.7	5 35.3	3 26.6	26 32.5	24 53.9	42	4 15.2	6 25.4	4 13.2	27 24.4	25 50.5
3 36.5	5 57.3	3 42.2	26 34.0	24 48.0	43	4 31.0	6 47.2	4 28.3	27 25.4	25 44.4
3 52.9	6 19.9	3 58.0	26 35.5	24 41.8	44	4 47.3	7 9.4	4 43.7	27 26.6	25 38.0
4 9.9	6 43.0	4 14.0	26 37.1	24 35.6	45	5 4.3	7 32.2	4 59.2	27 27.8	25 31.6
4 27.7	7 6.8	4 30.2	26 38.7	24 29.1	46	5 22.0	7 55.7	5 15.0	27 29.0	25 24.8
4 46.2	7 31.2	4 46.8	26 40.3	24 22.4	47	5 40.4	8 19.7	5 31.1	27 30.2	25 18.0
5 5.6	7 56.3	5 3.6	26 41.9	24 15.7	48	5 59.7	8 44.5	5 47.4	27 31.4	25 10.9
5 25.9	8 22.2	5 20.6	26 43.7	24 8.6	49	6 19.9	9 10.0	6 4.0	27 32.8	25 3.6
5 47.2	8 48.8	5 38.1	26 45.5	24 1.3	50	6 41.1	9 36.3	6 20.9	27 34.1	24 56.0
6 9.7	9 16.4	5 55.9	26 47.2	23 53.8	51	7 3.5	10 3.4	6 38.2	27 35.4	24 48.2
6 33.4	9 44.8	6 14.0	26 49.1	23 46.0	52	7 27.0	10 31.4	6 55.7	27 36.8	24 40.2
6 58.4	10 14.2	6 32.5	26 50.9	23 38.0	53	7 51.9	11 0.2	7 13.7	27 38.2	24 31.9
7 25.0	10 44.5	6 51.3	26 52.9	23 29.6	54	8 18.2	11 30.2	7 32.0	27 39.7	24 23.2
7 53.3	11 16.0	7 10.6	26 54.8	23 21.0	55	8 46.3	12 1.1	7 50.7	27 41.2	24 14.2
8 23.5	11 48.7	7 30.4	26 56.9	23 11.9	56	9 16.3	12 33.3	8 9.9	27 42.7	24 4.8
8 55.9	12 22.6	7 50.6	26 59.0	23 2.5	57	9 48.5	13 6.6	8 29.5	27 44.2	23 55.0
9 30.8	12 57.8	8 11.3	27 1.2	22 52.7	58	10 23.1	13 41.3	8 49.6	27 45.9	23 44.9
10 8.6	13 34.6	8 32.6	27 3.4	22 42.5	59	11 0.5	14 17.3	9 10.3	27 47.5	23 34.3
10 49.7	14 12.8	8 54.5	27 5.7	22 31.7	60	11 41.2	14 54.9	9 31.4	27 49.3	23 23.1
5	6	Descendant	8	9	SOUTH Geographic Latitude	5	6	Descendant	8	9
Midheaven (M.C. or 10th Cusp)						Midheaven (M.C. or 10th Cusp)				
Sidereal Time			15h 44m 0s			Sidereal Time			15h 48m 0s	
Right Ascension			236° 0′ 0″			Right Ascension			237° 0′ 0″	
Geocentric Longitude			♏ 28° 14′ 59″			Geocentric Longitude			♏ 29° 12′ 49″	

Placidus Table of Houses for Latitudes 0° to 60° North

3h 44m 0s				56° 0' 0"
		28 ♉ 15		
11	12	ASC	2	3
26♓20	24♋ 6	23♌41	25♍38	28♎ 0
27 0	25 20	24 53	25 45	27 40
27 40	26 33	26 3	25 51	27 20
28 22	27 46	27 11	25 57	27 0
29 6	29 2	28 18	26 3	26 40
29 16	29 17	28 31	26 5	26 36
29 25	29 33	28 45	26 6	26 32
29 34	29 49	28 58	26 7	26 27
29 44	0♌ 5	29 11	26 8	26 23
29 54	0 21	29 25	26 10	26 19
0♌ 4	0 37	29 38	26 11	26 14
0 14	0 54	29 52	26 12	26 10
0 24	1 10	0♍ 6	26 13	26 5
0 35	1 27	0 19	26 15	26 1
0 46	1 44	0 33	26 16	25 56
0 57	2 2	0 47	26 17	25 52
1 8	2 19	1 1	26 18	25 47
1 20	2 37	1 15	26 20	25 42
1 32	2 56	1 29	26 21	25 37
1 44	3 14	1 43	26 22	25 32
1 57	3 33	1 57	26 24	25 27
2 10	3 52	2 12	26 25	25 22
2 23	4 12	2 26	26 27	25 16
2 37	4 32	2 41	26 28	25 11
2 51	4 53	2 56	26 29	25 5
3 5	5 14	3 11	26 31	25 0
3 21	5 35	3 27	26 32	24 54
3 36	5 57	3 42	26 34	24 48
3 53	6 20	3 58	26 36	24 42
4 10	6 43	4 14	26 37	24 36
4 28	7 7	4 30	26 39	24 29
4 46	7 31	4 47	26 40	24 23
5 6	7 56	5 4	26 42	24 16
5 26	8 22	5 21	26 44	24 9
5 47	8 49	5 38	26 45	24 1
6 10	9 16	5 56	26 47	23 54
6 33	9 45	6 14	26 49	23 46
6 58	10 14	6 32	26 51	23 38
7 25	10 45	6 51	26 53	23 30
7 53	11 16	7 11	26 55	23 21
8 24	11 49	7 30	26 57	23 12
8 56	12 23	7 51	26 59	23 3
9 31	12 58	8 11	27 1	22 53
10 9	13 35	8 33	27 3	22 42
10♋50	14♌13	8♍54	27♎ 6	22♎32

3h 48m 0s				57° 0' 0"	
		29 ♉ 13			
11	12	ASC	2	3	LAT.
27♓15	25♋ 3	24♌42	26♍44	29♎ 3	0
27 55	26 16	25 54	26 49	28 42	5
28 35	27 28	27 2	26 53	28 22	10
29 17	28 42	28 8	26 58	28 1	15
0♌ 2	29 56	29 13	27 3	27 40	20
0 11	0♌12	29 26	27 3	27 36	21
0 20	0 27	29 39	27 4	27 32	22
0 29	0 43	29 52	27 5	27 27	23
0 39	0 59	0♍ 5	27 6	27 23	24
0 49	1 15	0 18	27 7	27 18	25
0 59	1 31	0 31	27 8	27 14	26
1 9	1 47	0 44	27 9	27 9	27
1 19	2 4	0 58	27 10	27 5	28
1 30	2 20	1 11	27 11	27 0	29
1 41	2 37	1 24	27 12	26 55	30
1 52	2 54	1 38	27 13	26 50	31
2 3	3 12	1 51	27 14	26 45	32
2 15	3 30	2 5	27 15	26 40	33
2 27	3 48	2 19	27 16	26 35	34
2 39	4 6	2 32	27 17	26 30	35
2 51	4 25	2 46	27 18	26 25	36
3 4	4 44	3 0	27 19	26 19	37
3 18	5 3	3 15	27 20	26 14	38
3 31	5 23	3 29	27 21	26 8	39
3 45	5 43	3 44	27 22	26 3	40
4 0	6 4	3 58	27 23	25 57	41
4 15	6 25	4 13	27 24	25 51	42
4 31	6 47	4 28	27 25	25 44	43
4 47	7 9	4 44	27 27	25 38	44
5 4	7 32	4 59	27 28	25 32	45
5 22	7 56	5 15	27 29	25 25	46
5 40	8 20	5 31	27 30	25 18	47
6 0	8 45	5 47	27 31	25 11	48
6 20	9 10	6 4	27 33	25 4	49
6 41	9 36	6 21	27 34	24 56	50
7 3	10 3	6 38	27 35	24 48	51
7 27	10 31	6 56	27 37	24 40	52
7 52	11 0	7 14	27 38	24 32	53
8 18	11 30	7 32	27 40	24 23	54
8 46	12 1	7 51	27 41	24 14	55
9 16	12 33	8 10	27 43	24 5	56
9 49	13 7	8 30	27 44	23 55	57
10 23	13 41	8 50	27 46	23 45	58
11 1	14 17	9 10	27 48	23 34	59
11♋41	14♌55	9♍31	27♎49	23♎23	60

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

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

4h 0m 0s				60° 0' 0"
		2 ♊ 5		
11	12	ASC	2	3
0♌ 0	27♋55	27♌49	30♍ 0	2♎11
0 40	29 6	28 55	0♎ 0	1 49
1 20	0♌16	29 58	30♏ 0	1 26
2 2	1 28	0♍59	0♎ 0	1 4
2 46	2 40	1 58	30♏ 0	0 41
2 56	2 53	2 10	30 0	0 36
3 5	3 10	2 22	30 0	0 31
3 14	3 25	2 34	30 0	0 26
3 24	3 41	2 46	30 0	0 22
3 34	3 56	2 58	30 0	0 17
3 44	4 12	3 10	0♎ 0	0 12
3 54	4 27	3 22	0 0	0 7
4 4	4 43	3 34	0 0	0 1
4 14	5 0	3 47	0 0	29♎56
4 25	5 16	3 59	0 0	29 51
4 36	5 33	4 11	0 0	29 46
4 47	5 50	4 23	30♏ 0	29 40
4 59	6 7	4 36	30 0	29 35
5 11	6 24	4 48	30 0	29 29
5 23	6 42	5 1	30 0	29 23
5 35	7 0	5 14	30 0	29 18
5 48	7 18	5 27	0♎ 0	29 12
6 1	7 37	5 40	0 0	29 6
6 15	7 56	5 53	0 0	29 0
6 29	8 15	6 6	0 0	28 53
6 43	8 35	6 20	30♏ 0	28 47
6 58	8 56	6 33	30 0	28 40
7 14	9 17	6 47	30 0	28 33
7 30	9 38	7 1	30 0	28 26
7 47	10 0	7 15	0♎ 0	28 19
8 4	10 22	7 29	0 0	28 12
8 22	10 45	7 44	0 0	28 4
8 41	11 9	7 59	30♏ 0	27 56
9 1	11 33	8 14	30 0	27 48
9 22	11 58	8 29	0♎ 0	27 40
9 44	12 24	8 45	0 0	27 31
10 7	12 51	9 1	30♏ 0	27 22
10 31	13 19	9 17	30 0	27 13
10 57	13 47	9 34	0♎ 0	27 3
11 25	14 17	9 51	0 0	26 53
11 54	14 47	10 9	30♏ 0	26 43
12 25	15 19	10 26	0♎ 0	26 32
12 59	15 52	10 45	30♏ 0	26 21
13 35	16 26	11 3	0♎ 0	26 9
14♋14	17♌ 1	11♍23	30♏ 0	25♎57

4h 4m 0s				61° 0' 0"	
		3 ♊ 3			
11	12	ASC	2	3	LAT.
0♌55	28♋52	28♌52	1♎ 5	3♏13	0
1 35	0♌ 3	29 56	1 4	2 50	5
2 15	1 13	0♍57	1 2	2 27	10
2 57	2 23	1 56	1 1	2 4	15
3 41	3 35	2 54	0 59	1 41	20
3 50	3 50	3 5	0 59	1 36	21
4 0	4 5	3 17	0 59	1 31	22
4 9	4 20	3 28	0 58	1 26	23
4 19	4 35	3 40	0 58	1 21	24
4 28	4 50	3 52	0 58	1 16	25
4 38	5 5	4 3	0 57	1 11	26
4 48	5 21	4 15	0 57	1 5	27
4 59	5 37	4 27	0 57	1 0	28
5 9	5 53	4 39	0 56	0 55	29
5 20	6 9	4 50	0 56	0 49	30
5 31	6 25	5 2	0 56	0 44	31
5 42	6 42	5 14	0 55	0 38	32
5 53	6 59	5 26	0 55	0 33	33
6 5	7 16	5 38	0 55	0 27	34
6 17	7 34	5 51	0 54	0 21	35
6 30	7 52	6 3	0 54	0 15	36
6 42	8 10	6 15	0 54	0 9	37
6 56	8 28	6 28	0 53	0 3	38
7 9	8 47	6 41	0 53	29♎56	39
7 23	9 6	6 54	0 53	29 50	40
7 37	9 26	7 7	0 52	29 43	41
7 52	9 46	7 20	0 52	29 36	42
8 8	10 6	7 33	0 52	29 29	43
8 24	10 27	7 47	0 51	29 22	44
8 41	10 49	8 0	0 51	29 15	45
8 58	11 11	8 14	0 50	29 7	46
9 16	11 34	8 28	0 50	28 59	47
9 35	11 57	8 43	0 50	28 51	48
9 55	12 21	8 57	0 49	28 43	49
10 15	12 46	9 12	0 49	28 34	50
10 37	13 11	9 27	0 48	28 25	51
11 0	13 38	9 43	0 48	28 16	52
11 24	14 5	9 59	0 47	28 7	53
11 50	14 33	10 15	0 47	27 57	54
12 17	15 2	10 31	0 46	27 46	55
12 46	15 32	10 48	0 46	27 36	56
13 17	16 3	11 5	0 45	27 25	57
13 50	16 35	11 23	0 45	27 13	58
14 26	17 9	11 41	0 44	27 1	59
15♋ 5	17♌44	12♍ 0	0♎44	26♎48	60

4h 8m 0s				62° 0' 0"
		4 ♊ 0		
11	12	ASC	2	3
1♋50	29♋49	29♌54	2♎11	4♏16
2 30	0♌56	0♍56	2 8	3 52
3 10	2 9	1 56	2 4	3 28
3 52	3 19	2 53	2 1	3 5
4 36	4 30	3 49	1 58	2 40
4 45	4 45	4 0	1 58	2 35
4 55	4 59	4 12	1 57	2 30
5 4	5 14	4 23	1 56	2 25
5 14	5 29	4 34	1 56	2 20
5 23	5 44	4 45	1 55	2 15
5 33	5 59	4 56	1 55	2 10
5 43	6 15	5 8	1 54	2 4
5 53	6 30	5 19	1 53	1 59
6 4	6 46	5 31	1 53	1 53
6 15	7 2	5 42	1 52	1 48
6 25	7 18	5 54	1 51	1 42
6 37	7 35	6 5	1 51	1 36
6 48	7 51	6 17	1 50	1 31
7 0	8 8	6 28	1 49	1 25
7 12	8 26	6 40	1 49	1 19
7 24	8 43	6 52	1 48	1 12
7 37	9 1	7 4	1 47	1 6
7 50	9 19	7 16	1 47	1 0
8 3	9 38	7 29	1 46	0 53
8 17	9 57	7 41	1 45	0 47
8 32	10 16	7 54	1 45	0 40
8 46	10 36	8 6	1 44	0 33
9 2	10 56	8 19	1 43	0 25
9 18	11 17	8 32	1 42	0 18
9 34	11 38	8 46	1 41	0 10
9 52	12 0	8 59	1 41	0 3
10 10	12 22	9 13	1 40	29♎54
10 28	12 45	9 27	1 39	29 46
10 48	13 9	9 41	1 38	29 38
11 9	13 33	9 55	1 37	29 29
11 30	13 58	10 10	1 36	29 20
11 53	14 24	10 25	1 35	29 10
12 17	14 51	10 40	1 35	29 0
12 42	15 18	10 56	1 34	28 50
13 9	15 47	11 11	1 33	28 39
13 38	16 16	11 28	1 32	28 28
14 9	16 47	11 44	1 31	28 17
14 42	17 19	12 1	1 29	28 5
15 17	17 52	12 19	1 28	27 52
15♋56	18♌26	12♍37	1♎27	27♎39

4h 12m 0s				63° 0' 0"
		4 ♊ 57		
11	12	ASC	2	3
2♋45	0♌47	0♍57	3♎16	5♏18
3 25	1 57	1 57	3 11	4 53
4 5	3 5	2 55	3 7	4 29
4 47	4 14	3 50	3 2	4 5
5 31	5 25	4 45	2 57	3 40
5 40	5 39	4 55	2 57	3 35
5 49	5 54	5 6	2 56	3 30
5 59	6 8	5 17	2 55	3 24
6 8	6 23	5 28	2 54	3 19
6 18	6 38	5 39	2 53	3 14
6 28	6 53	5 50	2 52	3 8
6 38	7 8	6 1	2 51	3 3
6 48	7 24	6 12	2 50	2 57
6 58	7 39	6 23	2 49	2 52
7 9	7 55	6 34	2 48	2 46
7 20	8 11	6 45	2 47	2 40
7 31	8 27	6 56	2 46	2 34
7 43	8 44	7 7	2 45	2 28
7 54	9 1	7 19	2 44	2 22
8 6	9 18	7 30	2 43	2 16
8 18	9 35	7 42	2 42	2 10
8 31	9 53	7 53	2 41	2 3
8 44	10 11	8 5	2 40	1 57
8 58	10 29	8 17	2 39	1 50
9 11	10 48	8 29	2 38	1 43
9 26	11 7	8 41	2 37	1 36
9 40	11 26	8 53	2 36	1 29
9 56	11 46	9 6	2 35	1 21
10 12	12 7	9 18	2 33	1 14
10 28	12 27	9 31	2 32	1 6
10 45	12 49	9 44	2 31	0 58
11 3	13 11	9 57	2 30	0 50
11 22	13 33	10 11	2 29	0 41
11 41	13 57	10 24	2 27	0 32
12 2	14 21	10 38	2 26	0 23
12 23	14 45	10 52	2 25	0 14
12 46	15 11	11 7	2 23	0 4
13 10	15 37	11 21	2 22	29♎54
13 35	16 4	11 36	2 20	29 43
14 2	16 32	11 52	2 19	29 32
14 30	17 1	12 7	2 17	29 21
15 0	17 31	12 23	2 16	29 9
15 33	18 2	12 40	2 14	28 56
16 8	18 34	12 57	2 12	28 44
16♋46	19♌ 8	13♍14	2♎11	28♎30

SID. T. H. M. S. 3 30 35 / ARC 52° 38'.8 } ♉ 25°	H. M. S. 3 34 42 / 53° 40'.5 } ♉ 26°	H. M. S. 3 38 49 / 54° 42'.3 } ♉ 27°	H. M. S. 3 42 57 / 55° 44'.4 } ♉ 28°	H. M. S. 3 47 6 / 56° 46'.6 } ♉ 29°	H. M. S. 3 51 16 / 57° 48'.9 } ♊ 0°

H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♋	♌	♌	♍	♎	♋	♌	♍	♍	♎
°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°	°	°	° ′	°	°
22	26.3	26.5	25 43	22.8	23.1	27.3	27.5	26 39	23.7	24.1	28.2	28.4	27 35	24.8	25.1	29.2	29.4	28 31	25.7	26.2	0.1	0.3	29 27	26.8	27.3	1.1	1.2	0 23	27.8	28.3
23	5	8	25 58	8	0	4	7	26 53	8	0	4	7	27 48	8	1	3	6	28 44	8	1	3	5	29 40	8	2	2	5	0 36	8	3
24	6	27.1	26 12	8	22.9	6	28.0	27 7	8	0	5	9	28 2	8	0	5	9	28 58	8	1	4	8	29 53	8	1	4	7	0 49	8	2
25	8	4	26 27	9	9	8	3	27 21	9	23.9	7	29.2	28 16	8	24.9	7	0.2	29 11	8	0	6	1.1	0 6	8	1	6	2.0	1 2	8	1
26	27.0	6	26 42	9	8	9	6	27 36	9	8	9	5	28 30	24.9	9	8	4	29 25	8	25.9	8	3	0 19	26.8	0	7	3	1 15	8	0
27	2	9	26 56	23.0	7	28.1	8	27 50	9	8	29.0	8	28 44	9	8	♋	7	29 38	25.9	9	1.0	6	0 33	9	26.9	9	5	1 27	27.8	27.9
28	3	28.2	27 11	0	7	3	29.1	28 5	24.0	7	2	♌	28 58	9	7	0.2	1.0	29 52	9	8	1	9	0 46	9	8	2.1	8	1 40	8	9
29	5	5	27 26	0	22.6	5	4	28 19	0	6	4	0.3	29 12	25.0	7	4	3	0 6	9	7	3	2.1	0 59	9	7	2	3.1	1 53	9	8
30	7	8	27 41	1	5	6	7	28 34	0	23.6	6	6	29 26	0	24.6	5	5	0 20	9	25.6	5	4	1 13	26.9	7	4	4	2 6	9	7
31	9	29.1	27 56	1	5	8	♌	28 48	1	5	8	9	29 41	0	5	7	8	0 33	26.0	5	7	7	1 26	9	26.6	6	6	2 19	9	27.6
32	28.1	4	28 11	23.2	4	29.0	0.3	29 3	1	4	♋	1.2	29 55	0	4	9	2.1	0 47	0	5	9	3.0	1 40	9	5	8	9	2 33	27.9	5
33	3	7	28 26	2	3	2	6	29 18	24.1	3	0.2	5	0 9	1	3	1.1	4	1 1	0	4	2.1	3	1 54	27.0	4	3.0	4.2	2 46	9	4
34	5	♌	28 42	2	22.2	4	9	29 33	2	23.2	3	8	0 24	25.1	24.3	3	7	1 16	0	25.3	2	6	2 7	0	3	2	5	2 59	9	3
35	7	0.4	28 57	3	2	6	1.2	29 48	2	2	5	2.1	0 39	1	2	5	3.0	1 30	1	2	4	9	2 21	0	26.2	4	8	3 13	9	27.2
36	9	7	29 13	3	1	8	6	0 3	2	1	7	5	0 54	2	1	7	4	1 44	26.1	1	6	4.2	2 36	0	1	6	5.1	3 26	28.0	2
37	29.1	1.0	29 29	23.4	0	♋	9	0 19	3	0	1.0	8	1 9	2	0	9	7	1 59	1	0	9	6	2 50	0	0	8	4	3 40	0	1
38	3	4	29 45	4	21.9	0.2	2.2	0 34	24.3	22.9	2	3.1	1 24	2	23.9	2.1	4.0	2 14	1	24.9	3.1	9	3 4	27.1	0	4.0	7	3 54	0	0
39	5	7	0 1	5	8	5	5	0 50	4	8	4	5	1 39	25.3	8	4	4	2 29	2	8	3	5.2	3 18	1	25.9	3	6.0	4 8	0	26.9
40	8	2.1	0 17	5	8	7	9	1 6	4	8	6	8	1 55	3	8	6	7	2 44	26.2	7	5	6	3 33	1	8	5	4	4 22	0	8
41	♋	5	0 34	23.6	7	1.0	3.2	1 22	5	7	9	4.2	2 11	3	7	8	5.1	2 59	2	6	8	9	3 48	1	7	7	8	4 37	28.0	7
42	0.3	9	0 51	6	6	2	6	1 38	5	22.6	2.2	6	2 26	4	23.6	3.1	5	3 15	3	24.5	4.1	6.3	4 3	2	6	5.0	7.1	4 51	1	6
43	5	3.3	1 8	7	21.5	5	4.0	1 55	24.6	5	4	5.0	2 43	25.4	5	4	8	3 30	3	4	3	7	4 18	27.2	4	3	5	5 6	1	5
44	8	7	1 25	7	5	8	4	2 12	6	4	7	4	2 59	5	4	7	6.2	3 46	26.3	4	6	7.0	4 34	2	25.3	6	9	5 21	1	26.4
45	1.1	4.1	1 43	23.8	4	2.1	8	2 29	6	3	3.0	7	3 16	5	4	9	5	4 2	4	3	9	4	4 49	2	3	8	8.3	5 36	1	3
46	4	4	2 0	8	3	4	5.2	2 46	7	22.3	3	6.1	3 33	5	23.3	4.2	9	4 19	4	24.2	5.2	8	5 5	3	2	6.1	7	5 52	28.1	2
47	7	8	2 18	9	21.2	7	7	3 4	7	2	6	5	3 50	25.6	1	6	7.3	4 35	4	1	5	8.2	5 21	3	1	4	9.1	6 7	2	1
48	2.1	5.3	2 37	9	1	3.0	6.1	3 22	24.8	1	9	9	4 7	6	0	9	7	4 52	26.5	0	8	6	5 38	27.3	0	8	5	6 23	2	0
49	4	7	2 56	24.0	1	3	6	3 40	8	0	4.3	7.3	4 25	7	22.9	5.2	8.1	5 10	5	23.9	6.1	9.0	5 55	3	24.8	7.1	9	6 39	2	25.9
50	8	6.2	3 15	1	0	7	7.0	3 59	9	21.9	7	8	4 43	7	8	6	6	5 27	6	8	5	4	6 12	4	7	5	10.3	6 56	2	7
51	3.1	7	3 34	1	20.9	4.0	5	4 18	9	8	5.0	8.3	5 1	25.8	7	9	9.1	5 45	6	7	8	9	6 29	4	6	8	7	7 13	28.2	6
52	5	7.2	3 54	2	8	4	8.0	4 37	25.0	7	4	8	5 20	8	6	6.3	6	6 3	26.6	6	7.2	10.4	6 47	27.4	5	8.1	11.1	7 30	3	5
53	9	7	4 15	24.2	7	8	5	4 57	0	6	8	9.3	5 39	8	22.5	7	10.1	6 22	7	23.4	6	9	7 5	5	24.3	5	6	7 48	3	25.4
54	4.4	8.2	4 35	3	6	5.3	9.0	5 17	1	5	6.2	8	5 59	9	4	7.2	6	6 41	7	3	8.1	11.4	7 23	5	2	9.0	12.1	8 5	3	2
55	9	7	4 57	4	4	8	5	5 38	2	3	7	10.3	6 19	26.0	2	7	11.1	7 0	8	1	6	9	7 42	6	0	5	6	8 24	4	0
56	5.4	9.3	5 18	4	3	6.3	10.1	5 59	2	2	7.2	9	6 40	0	1	8.2	6	7 20	8	0	9.1	12.4	8 1	6	23.9	10.0	13.1	8 42	4	24.9

JUNE 1970

LONGITUDE

Day	Sid. Time h m s	☉ ° ' "	☽ ° ' "	☽ 12 Hour ° ' "	Mean ☊ ° '	True ☊ ° '	☿ ° '	♀ ° '	♂ ° '	♃ ° '	♄ ° '	♅ ° '	♆ ° '	♇ ° '
1	16 36 15	10♊ 5 41	2♉ 12 56	8♉ 56 16	7♓ 17	7♓ 16R	16♉ 41	11♋ 17	29♊ 9	26♎ 49R	15♉ 47	4♎ 43R	29♏ 14R	24♍ 41R
2	16 40 12	11 3 11	15 36 52	22 14 30	7 14	7 7	17 24	12 29	29 49	26 45	15 54	4 42	29 12	24 41
3	16 44 8	12 0 41	28 49 0	5♊ 20 11	7 11	6 55	18 12	13 40	0♋ 28	26 41	16 1	4 42	29 11	24 41
4	16 48 5	12 58 11	11♊ 47 52	18 11 57	7 8	6 42	19 3	14 52	1 8	26 38	16 9	4 41	29 9	24 41
5	16 52 1	13 55 39	24 32 21	0♋ 49 3	7 5	6 30	19 58	16 4	1 48	26 35	16 16	4 41	29 7	24 41D
6	16 55 58	14 53 6	7♋ 2 6	13 11 57	7 1	6 18	20 56	17 15	2 27	26 31	16 23	4 40	29 6	24 41
7	16 59 55	15 50 32	19 17 47	25 20 53	6 58	6 9	21 58	18 27	3 7	26 28	16 30	4 40	29 4	24 41
8	17 3 51	16 47 57	1♌ 21 14	7♌ 19 14	6 55	6 2	23 3	19 38	3 47	26 25	16 37	4 40	29 3	24 41
9	17 7 48	17 45 21	13 15 21	19 10 6	6 52	5 57	24 11	20 49	4 26	26 23	16 44	4 40	29 1	24 41
10	17 11 44	18 42 44	25 4 2	0♍ 57 46	6 49	5 55	25 22	22 1	5 6	26 20	16 51	4 39	29 0	24 41
11	17 15 41	19 40 6	6♍ 51 56	12 47 12	6 46	5 55D	26 37	23 12	5 45	26 18	16 58	4 39	28 58	24 41
12	17 19 37	20 37 28	18 44 14	24 43 45	6 42	5 55R	27 55	24 23	6 25	26 16	17 5	4 39D	28 57	24 41
13	17 23 34	21 34 47	0♎ 46 25	6♎ 52 54	6 39	5 55	29 16	25 34	7 4	26 14	17 12	4 39	28 55	24 42
14	17 27 31	22 32 6	13 3 49	19 19 45	6 36	5 53	0♊ 40	26 45	7 43	26 12	17 19	4 39	28 54	24 42
15	17 31 27	23 29 24	25 41 13	2♏ 8 39	6 33	5 49	2 7	27 56	8 23	26 11	17 25	4 40	28 52	24 42
16	17 35 24	24 26 42	8♏ 42 22	15 22 33	6 30	5 43	3 37	29 7	9 2	26 9	17 32	4 40	28 51	24 42
17	17 39 20	25 23 58	22 9 15	29 2 23	6 27	5 34	5 9	0♌ 18	9 41	26 8	17 39	4 40	28 50	24 43
18	17 43 17	26 21 14	6♐ 1 39	13♐ 6 39	6 23	5 24	6 45	1 29	10 21	26 7	17 45	4 40	28 48	24 43
19	17 47 13	27 18 29	20 16 44	27 31 13	6 20	5 14	8 24	2 40	11 0	26 6	17 52	4 41	28 47	24 44
20	17 51 10	28 15 44	4♑ 49 13	12♑ 9 48	6 17	5 4	10 6	3 50	11 39	26 5	17 58	4 41	28 45	24 44
21	17 55 6	29 12 58	19 32 0	26 54 51	6 14	4 56	11 50	5 1	12 18	26 5	18 5	4 41	28 44	24 45
22	17 59 3	0♋ 10 12	4♒ 17 24	11♒ 38 49	6 11	4 51	13 38	6 11	12 58	26 4	18 11	4 42	28 43	24 45
23	18 3 0	1 7 26	18 58 21	26 15 20	6 7	4 47	15 28	7 22	13 37	26 4D	18 18	4 42	28 41	24 46
24	18 6 56	2 4 39	3♓ 29 17	10♓ 39 48	6 4	4 47D	17 21	8 32	14 16	26 4	18 24	4 43	28 40	24 46
25	18 10 53	3 1 52	17 46 39	24 49 39	6 1	4 47	19 16	9 43	14 55	26 4	18 30	4 44	28 39	24 47
26	18 14 49	3 59 5	1♈ 48 45	8♈ 43 57	5 58	4 48R	21 14	10 53	15 34	26 5	18 36	4 44	28 38	24 48
27	18 18 46	4 56 19	15 35 19	22 22 54	5 55	4 47	23 14	12 3	16 13	26 5	18 43	4 45	28 36	24 48
28	18 22 42	5 53 32	29 6 51	5♉ 47 15	5 52	4 45	25 16	13 13	16 52	26 6	18 49	4 46	28 35	24 49
29	18 26 39	6 50 45	12♉ 24 13	18 57 51	5 48	4 40	27 20	14 23	17 31	26 7	18 55	4 47	28 34	24 50
30	18 30 35	7♋ 47 59	25♉ 28 15	1♊ 55 27	5♓ 45	4♓ 34	29♊ 26	15♌ 33	18♋ 10	26♎ 8	19♉ 1	4♎ 48	28♏ 33	24♍ 50

DECLINATION and LATITUDE

Day	☉ Decl	☽ Decl	☽ Lat	☽ 12 Hr. Decl	☿ Decl	☿ Lat	♀ Decl	♀ Lat	♂ Decl	♂ Lat	♃ Decl	♃ Lat	♄ Decl	♄ Lat
1	21N58	16N 6	4N 7	18N40	13N14	3S45	24N40	1N43	24N22	0N55	9S 2	1N24	14N32	2S 8
2	22 6	20 58	4 40	23 0	13 27	3 44	24 35	1 44	24 22	0 56	9 1	1 23	14 34	2 8
3	22 14	24 44	4 57	26 7	13 42	3 42	24 29	1 45	24 22	0 56	9 0	1 23	14 36	2 8
4	22 21	27 9	4 59	27 48	13 59	3 39	24 23	1 46	24 22	0 56	8 59	1 23	14 38	2 8
5	22 29	28 5	4 46	28 0	14 17	3 35	24 15	1 48	24 22	0 56	8 58	1 23	14 40	2 8
6	22 35	27 34	4 19	26 47	14 36	3 31	24 8	1 49	24 22	0 57	8 57	1 22	14 42	2 8
7	22 41	25 41	3 40	24 18	14 57	3 26	23 59	1 50	24 21	0 57	8 56	1 22	14 43	2 8
8	22 47	22 40	2 52	20 47	15 19	3 20	23 50	1 51	24 21	0 57	8 56	1 22	14 45	2 8
9	22 53	18 43	1 57	16 28	15 42	3 13	23 40	1 51	24 20	0 58	8 55	1 22	14 47	2 8
10	22 58	14 4	0 57	11 33	16 5	3 6	23 29	1 52	24 19	0 58	8 54	1 21	14 49	2 8
11	23 2	8 55	0S 5	6 12	16 30	2 59	23 18	1 53	24 17	0 58	8 54	1 21	14 51	2 8
12	23 7	3 25	1 8	0 35	16 55	2 51	23 6	1 54	24 16	0 58	8 53	1 21	14 53	2 9
13	23 11	2S16	2 8	5S 8	17 21	2 42	22 54	1 54	24 14	0 59	8 53	1 21	14 55	2 9
14	23 14	7 59	3 4	10 47	17 48	2 33	22 41	1 55	24 12	0 59	8 52	1 20	14 57	2 9
15	23 17	13 32	3 52	16 10	18 14	2 24	22 27	1 55	24 10	0 59	8 52	1 20	14 58	2 9
16	23 20	18 40	4 30	20 58	18 41	2 14	22 13	1 55	24 7	0 59	8 52	1 20	15 0	2 9
17	23 22	23 3	4 55	24 50	19 8	2 4	21 58	1 56	24 5	0 60	8 51	1 20	15 2	2 9
18	23 24	26 17	5 3	27 20	19 35	1 53	21 43	1 56	24 2	0 60	8 51	1 19	15 4	2 9
19	23 25	27 57	4 52	28 5	20 2	1 42	21 27	1 56	23 59	1 0	8 51	1 19	15 5	2 9
20	23 26	27 44	4 23	26 54	20 28	1 31	21 10	1 56	23 56	1 0	8 51	1 19	15 7	2 9
21	23 26	25 35	3 37	23 50	20 54	1 20	20 53	1 56	23 53	1 1	8 51	1 18	15 9	2 9
22	23 27	21 42	2 35	19 13	21 19	1 8	20 35	1 55	23 49	1 1	8 51	1 18	15 10	2 10
23	23 26	16 27	1 23	13 29	21 43	0 57	20 17	1 55	23 46	1 1	8 52	1 18	15 12	2 10
24	23 26	10 20	0 7	7 5	22 6	0 45	19 58	1 55	23 42	1 1	8 52	1 18	15 14	2 10
25	23 24	3 46	1N 9	0 27	22 27	0 33	19 39	1 54	23 38	1 2	8 52	1 17	15 15	2 10
26	23 23	2N51	2 19	6N 5	22 48	0 22	19 19	1 53	23 33	1 2	8 53	1 17	15 17	2 10
27	23 21	9 13	3 20	12 12	23 6	0 10	18 59	1 53	23 29	1 2	8 53	1 17	15 18	2 10
28	23 19	15 2	4 9	17 39	23 23	0N 1	18 39	1 52	23 24	1 2	8 54	1 17	15 20	2 10
29	23 16	20 3	4 43	22 10	23 37	0 12	18 17	1 51	23 20	1 2	8 54	1 16	15 21	2 10
30	23N13	24N 0	5N 1	25N32	23N49	0N23	17N56	1N50	23N15	1N 3	8S55	1N16	15N23	2S11

Day	♅ Decl	♅ Lat	♆ Decl	♆ Lat	♇ Decl	♇ Lat
1	1S12	0N44	18S17	1N45	16N42	15N56
5	1 12	0 43	18 16	1 44	16 41	15 55
9	1 12	0 43	18 15	1 44	16 39	15 53
13	1 12	0 43	18 14	1 44	16 37	15 51
17	1 12	0 43	18 12	1 44	16 35	15 49
21	1 13	0 43	18 11	1 44	16 33	15 47
25	1 14	0 42	18 10	1 44	16 30	15 46
29	1S15	0N42	18S 9	1N44	16N27	15N44

☽ PHENOMENA

d	h	m	
4	2	22	●
12	4	7	☽
19	12	28	○
26	4	2	☾

d	h	°	'
5	3	28N	6
12	14	0	
19	10	28S	6
25	14	0	

3	15	5N	0
10	22	0	
17	23	5S	3
24	2	0	
30	17	5N	5

VOID OF COURSE ☽

Last Aspect	☽ Ingress
3 0am40	3 ♊ 2am10
5 3am52	5 ♋ 10am26
7 7pm24	7 ♌ 9pm17
10 7am59	10 ♍ 10am 2
12 8pm38	12 ♎ 10pm28
15 4am38	15 ♏ 8am 2
17 11am37	17 ♐ 1pm39
19 12pm28	19 ♑ 4pm 5
21 2pm56	21 ♒ 5pm 1
23 4pm 0	23 ♓ 6pm12
25 6pm31	25 ♈ 8pm53
27 6pm37	28 ♉ 1am35
30 5am42	30 ♊ 8am25

d	h	
9	20	APOGEE
21	18	PERIGEE

DAILY ASPECTARIAN

Day	Aspect	Time
1 M	☽∥♇	2am45
	♂⚻♆	2 50
	☽⚻♅	4 27
	☽∥♆	10 10
	☽⚼♇	1pm20
	☉⚺☽	3 10
	☽✶♀	5 48
	☽∠♂	10 29
2 T	☽☌♄	0am32
	☽☌☿	3 26
	☉∥☽	6 40
	♂ ♋	6 51
	☽⚼♅	7 23
	☉⚼♃	4pm25
	☽△♇	4 26
	☽⚻♃	8 8
	☽∥♂	9 19
	☽∥♀	10 12
	☽∠♀	11 43
3 W	☽☍♆	0am40
	☽⚺♂	3 12
	♀⚼♆	9 54
	☽△♅	10 48
	☽⚼♃	11pm41
4 Th	♀∥♂	0am23
	♂∠♄	0 27
	☉☌☽	2 22
	☽⚺♀	6 20
	☽⚺♄	8 13
	☽⚺☿	2pm39
	☿⚼♅	4 44
5 F	☽□♇	0am16
	♇SD	2 32
	☽△♃	3 52
	♀✶♄	4 32
	☽⚻♆	8 44
	☽∠♄	12pm59
	☽☌♂	2 39
	☽□♅	7 26
	☽∠☿	9 41
6 S	☿∥♄	6am54
	☽⚼♆	1pm45
	☉⚺☽	4 37
	☽✶♄	6 26
	☽☌♀	10 8
7 Su	☽✶☿	5am47
	☽✶♇	10 40
	☽∥♂	11 57
	☽□♃	2pm11
	☽∥♀	3 13
	☉⚺♄	6 48
	☽△♆	7 24
	☉∥☽	11 9
8 M	☉∠☽	0am58
	☽⚺♂	5 9
	☽✶♅	6 39
	☽∠♇	4pm46
9 T	☽∥♆	2am35
	☽□♄	7 8
	♂□♅	8 12
	☉✶☽	9 56
	☿△♇	10 10
	☽∥♇	11 4
	☽∠♅	1pm 0
	☽∠♂	1 17
	☽∥☿	2 43
	☽⚺♀	5 5
	☽∥♄	8 20
	☽⚺♇	11 18
10 W	☽□☿	0am42
	☽✶♃	2 35
	☽□♆	7 59
	☿⚻♃	6pm 9
	☽⚺♅	7 31
	☽✶♂	9 36
11 Th	☽∥♃	0am 6
	☽∠♀	3 1
	☿∥♇	7 35
	☽∠♃	8 58
	☽△♄	8pm38
	☉∥♀	11 39
12 F	☉□☽	4am 7
	♀✶♇	6 7
	☽∥♅	9 28
	♅SD	9 35
	☽☌♇	11 55
	☽✶♀	12pm33
	☽⚺♃	3 1
	☿☍♆	6 9
	☽∥♅	7 30
	☽✶♆	8 21
	☽△☿	8 38
13 S	☽⚼♄	2am50
	☽☌♅	7 39
	☿ ♊	12pm46
	♀□♃	1 2
	☽□♂	1 8
14 Su	☽∠♆	1am36
	☽∥♃	3 46
	☽⚼☿	5 38
	☽⚻♄	8 13
	☉△☽	7pm32
	☽⚺♇	10 9
	☿∥♆	10 53
15 M	☽☌♃	0am55
	☽□♀	4 38
	☽⚺☿	5 56
	☽∥♄	6 31
	☽⚻☿	1pm28
	☽∥♇	1 59
	☽⚺♅	4 37
	♀△♆	6 35
	☽∥☿	9 45
16 T	☽∥♆	0am 7
	☽△♂	0 38
	☉⚻☽	1 27
	☽∠♇	1 49
	☉□♇	6 38
	☽☍♄	3pm58
	☿△♅	4 27
	♀ ♌	5 50
	☽∥♀	5 56
	☽∠♅	7 37
17 W	☉∥☽	1am59
	☽✶♇	4 29
	☽⚼♂	4 40
	☉⚻☽	6 6
	☽∥♂	6 36
	☽⚺♃	6 57
	☽☌♆	11 37
	☽△♀	8pm30
	☉△♃	6 5
	☽✶♅	9 41
18 Th	☽☍☿	1am24
	☽⚻♂	7 41
	☽∠♃	8 37
	☽⚼♀	7pm15
	☽⚻♄	7 56
19 F	☽□♇	7am23
	☽✶♃	9 39
	☉☍☽	12pm28
	☽⚺♆	2 3
	☽⚼♄	8 57
	☽⚻♀	10 15
	☽□♅	11 46
20 S	☽⚻☿	9am47
	☽☍♂	11 41
	☉⚻♆	12pm10
	☿⚼♃	1 40
	☽∠♆	2 35
	♀✶♅	5 17
	☽△♄	9 37
	☿∥♀	11 57
21 Su	☽△♇	8am29
	☿⚺♂	10 0
	☽□♃	10 38
	☽∥♂	11 55
	☽⚼♆	1pm30
	☉∥☽	2 23
	☽✶☿	2 56
	☉⚻☽	4 50
	☉ ♋	7 43
22 M	☽△♅	0am40
	☽∥☿	1 49
	☽☍♀	3 22
	☽∥♀	5 54
	☽⚼♇	5 55
	☽⚻♂	2pm48
	☽∥♆	4 38
	☽△☿	5 25
	☉⚼☽	7 0
	☽□♄	10 53
	☽∥♇	11 44
23 T	☽⚼♅	1am12
	♂⚼♆	2 46
	☽∥♄	5 8
	☽⚺♇	9 32
	♃SD	9 44
	☽△♃	11 42
	☽□☿	4pm 0
	☽⚼♂	4 39
	☉△☽	9 29
24 W	☽⚻♅	2am 3
	☽∥♃	5 28
	☽⚻♀	9 11
	☽⚼♃	12pm41
	☿⚺♄	2 0
	☽△♂	6 56
25 Th	☽✶♄	1am14
	♀∠♇	1 30
	☽□☿	2 56
	☽∥♅	9 11
	☽☍♇	11 56
	☽⚼♀	12pm52
	☉∠♄	1 20
	☽⚻♃	2 8
	☽∥♅	6 6
	☽△♆	6 31
26 F	☽∠♄	3am 7
	☉□☽	4 2
	☽☍♅	5 4
	☽△♀	5pm13
	☉□♅	12
	☽⚼♆	8 31
	☽∥♃	10 43
27 S	☽□♂	1am10
	☽⚺♄	5 32
	☽✶☿	3pm54
	☽⚺♇	4 19
	☽☍♃	6 37
	☿□♇	6 39
	☉∥☿	6 46
	☽⚻♆	11 3
28 Su	☽∥♄	1am20
	☿∥♂	2 6
	☽∥♇	6 25
	☿△♃	9 45
	☽⚻♅	10 10
	☉✶☽	1pm 8
	☽∥☿	2 26
	☽∥♀	3 41
	☽⚼♇	7 19
	☽∠♆	11 52
29 M	☽□♀	3am57
	♀∥♆	9 6
	☽✶♂	9 51
	☽☌♄	12pm 0
	☽⚼♅	1 31
	☿⚻♆	1 56
	☉∥☽	6 39
	☉∠☽	6 40
	☽∥♂	6 54
	☽∥☿	10 38
	☽△♇	10 50
30 T	☽⚻♃	1am14
	☽☌☿	5 42
	☿ ♋	6 23
	☽⚺♆	8 49
	☽∠♂	3pm 6
	☽△♅	5 23

1 CHART "D"
(Name)

2 JUNE 22 1970
(Month) (Day) (Year)

3 Place LONDON, ENGLAND

4 Latitude 51N31

5 Longitude 0W06
ST. PAUL'S CATHEDRAL

DOMINANT FACTOR

6 Time of Birth 10:43:58
(Daylight Saving)

7 Correction for Standard Time (-)1:00:00

8 Time of Birth 9:43:58
(Standard Time)

9 Correction for Mean Time (-) 0:00:24

10 Local Mean Time of Birth, A.M or ~~P.M.~~ 9:43:34

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+)9:43:34

14 Sidereal Time 17:59:03
(Noon) ZERO HOUR

15 AMER. EPH.

16 26:102:37

17 L.M.T. Interval

18 S. T. (Uncorrected) 3:42:37

19 Correction, 9.86s per h. for E.G.M.T. Int. (+) 0:01:36

20 Sidereal Time 3:44:13
(Of Birth)

SECOND KEY PROBLEM

21 ~~Standard~~ L.M. Time of Birth 9:43:34

22 Hrs. E. or W. of Greenwich (+)0:00:24

23 E.G.M.T. 9:43:58

24 Noon 12:00

25 E.G.M.T.

26 E.G.M.T. Interval (+)9:43:58
(Indicate plus or minus)

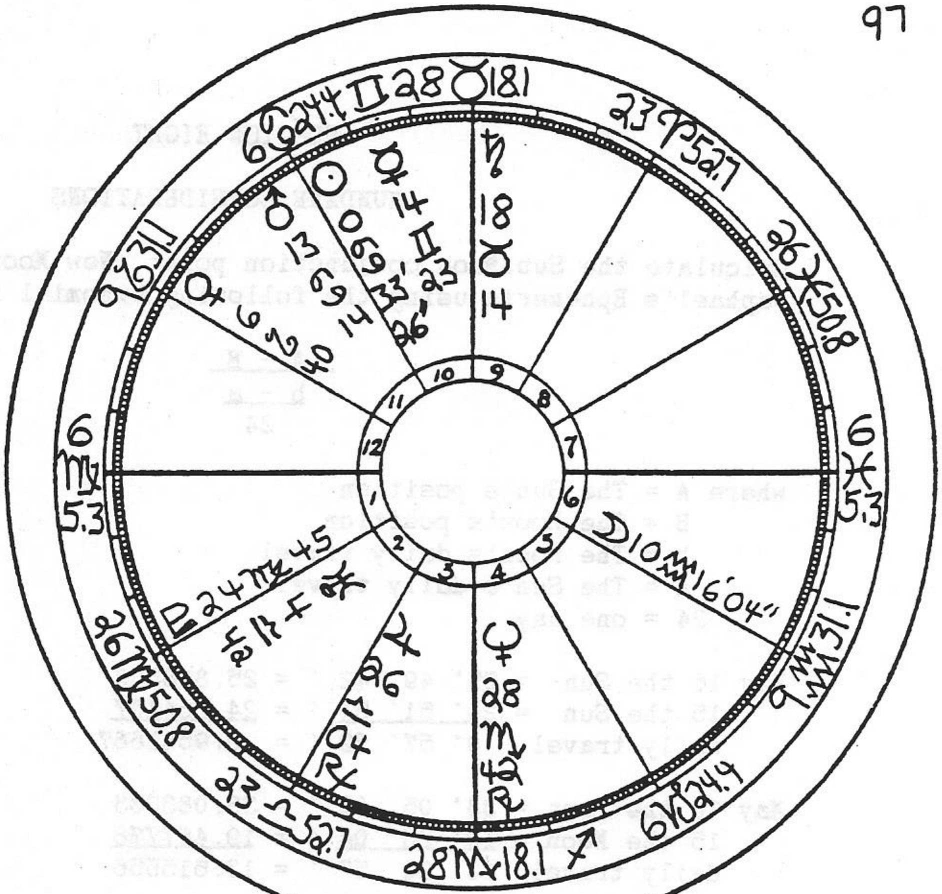
(+)ΔT = (+) 9:44:39

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date JAN. 26, 1970
(Including year)

AMER. ASTA. T. of H. (Rice)



☿ home II ♅ har ♎ ♂ fall ♋ ♀ inhar ♋

MOV.	FIX.	MUT.	FIRE	EARTH	AIR	WATER	ANG.	SUC.	CAD.
4	4 MC	2 ASC	1	2 MC ASC	4	3	4	3	3
PER.	**COMP.**	**PUB.**	**LIFE**	**WEALTH**	**ASSOC.**	**PSY.**	**ABOVE**	**EAST**	**RET.**
3	2	5	2	4	3	1	5	7	2

Declinations EMAN 1.4 2.5 3.1 **ASPECTS**

Declinations		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	M.R.
23N27	☉		⚼	·	·	P ☌	△	∠	□	⚻	□	⊻	✶	
19S48	☽			△	P ☍	·	·	□	△	·	⚼	P.	·	♄
21N29	☿				·	⊻	⚼	·	△	·	·	·	□	
20N28	♀					·	·	·	✶	△	∠	P.	⊻	
23N48	♂						·	✶	·	⚼	·	∠	·	
8S51	♃							·		⊻	⊻	⚻	P ∠	
15N11	♄								⚼	☍	△	☌	·	
1S13	♅									✶	☌	△	⊻	
18S11	♆										✶	☍	□	
16N33	♇											△	·	
19N48	MC												□	
9N18	ASC													

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
MC ☉	♃	♂	Planet
♋	♎	♋	Sign
10	3	4	House

SECTION EIGHT

MUNDANE CONSIDERATIONS

Calculate the Sun, Moon conjunction point (New Moon) on May 15th, 1988 from Raphael's Ephemeris using the following binomial formula.

$$\frac{\frac{A - B}{b - a}}{24}$$

where A = The Sun's position
B = The Moon's position
b = The Moon's daily travel
a = The Sun's daily travel
24 = one day

May 16 the Sun = 25° 49′ 42′′ = 25.828333
15 the Sun = 24° 51′ 51′′ = 24.864167
daily travel 0° 57′ 52′′ = 0.9641667

May 16 the Moon = 33° 05′ 00′′ = 33.083333
15 the Moon = 19° 28′ 04′′ = 19.467778
daily travel 13° 36′ 57′′ = 13.615556

$$\frac{\frac{A - B}{b - a}}{24} = \frac{24° 51′ 51′′ - 19° 28′ 04′′}{\frac{13° 36′ 57′′ - 0° 57′ 52′′}{24}} = \frac{24.864167 - 19.467778}{\frac{13.615556 - 0.9641667}{24}}$$

$$= \frac{5.396389}{\frac{12.651389}{24}} = \frac{5.396389}{0.5271412} = 10.237084 \text{ INV 2nd DMS-DD} = 10h\ 14′\ 14′′$$

Since you are using a Noon time ephemeris the time is 10:14:14 p.m. or 22H 14′ 14′′ GMT. When ÷ 24 and using the time as a E.G.M.T.I. we get,

Sun = 25° 16′ 3156′′
Moon = 25° 16′ 3182′′

Only a difference of 0.26′′

22:14:14 GMT
\- 5:08:02 time to Wash. D.C.
17:06:12 time to erect chart (2:06:12 p.m. LMT)

Calculate the Sun, Moon conjunction point (New Moon) on July 13, 1988 using the zero hour American Ephemeris.

$$\frac{A - B}{\frac{b-a}{24}}$$

where A = Sun's position
B = Moon's position
b = Moon's daily travel
a = Sun's daily travel
24 = one day

July 14 the Sun = 21° 46′ 24″ = 21.773333
13 the Sun = 20° 49′ 09″ = 20.819167
daily travel 0° 57′ 15″ = 0.9541667

July 14 the Moon = 22° 45′ 56″ = 22.765556
13 the Moon = 10° 23′ 15″ = 10.3875
daily travel 12° 22′ 41″ = 12.378056

$$\frac{A - B}{\frac{b-a}{24}} = \frac{20° 49′ 09″ - 10° 23′ 15″}{12° 22′ 41″ - 0° 57′ 15″} = \frac{20.819167 - 10.3875}{12.378056 - 0.9541667}$$

$$= \frac{10.431667}{\frac{11.423889}{24}} = \frac{10.431667}{0.4759954} = 21.915479 \text{ INV 2nd DMS-DD} = 21h\ 54′\ 56″ \text{ GMT}$$

21:54:56 GMT
5:08:02 time to Wash. D.C.
16:46:54 Wash. D.C. LMT to erect the chart

In calculating Cycle Charts for Mundane Astrology; it is necessary to make reference to what is now called the Astronomical Almanac, and interpolate between stated declinations to determine the time to erect the chart. The calculation of the Jupiter Cycle Chart for Mar. 13, 1987 is given.

Mar. 15 = + 0° 09′ 56.76″
Mar. 14 = + 0° 04′ 11.43″
Mar. 13 = − 0° 01′ 33.74″
Mar. 12 = − 0° 07′ 18.72″

Mar. 14 + 0° 04′ 11.43″ = 0 hours
we need ± 0° 00′ 00.00″ = ? hours
Mar. 13 − 0° 01′ 33.74″ = 0 hours
1 33.74 X 24 hours = 6.5178318 = 6:31:04 GMT
5 45.17

6:31:04 GMT
5:08:02 time to Wash. D.C.
1:23:02 time to erect the chart Wash. D.C. LMT

Mars Nov. 19, 1988 + 0° 13′ 35.63′′
18 + 0° 04′ 41.64′′
17 - 0° 04′ 01.64′′
16 - 0° 12′ 33.88′′

Nov. 18 + 0° 04′ 41.64′′ = 0 hours
we need ± 0° 00′ 00.00′′ = ? hours
Nov. 17 - 0° 04′ 01.64′′ = 0 hours
4 01.64 X 24 = 11.082709 = 11:04:58 GMT
8 43.28

11:04:53 = 10:64:58 GMT
5:08:02 time to Wash. D.C.
5:56:56 time to erect the chart Wash. D.C. LMT

THE SOLAR INGRESS, THE VERNAL EQUINOX, 1st POINT OF ARIES, SPRING 1988

Mar. 22 + 0° 37′ 53.0′′
21 + 0° 14′ 10.8′′
20 - 0° 09′ 32.4′′
19 - 0° 33′ 16.4′′

Mar. 21 + 0° 14′ 10.8′′ = 0 hours
we need ± 0° 00′ 00.0′′ = ? hours
Mar. 20 - 0° 09° 32.4′′ = 0 hours
9 32.4 X 24 hours = 9.6526138 = 9:39:09
23 43.2

9:39:09 GMT
5:08:02 time to Wash, D.C.
4:31:07 time to erect the chart Wash. D.C. LMT

MUNDANE CHART CALCULATIONS

THE CHURCH OF LIGHT

MUNDANE CALCULATIONS

In all astrological calculations relating to chart erection there is only one system used and that is the one of interpolating between two columns of figures. The interpolation is performed in either a table of Houses, an Ephemeris or the Astronomical Almanac. I am simply repeating what has been said and amply demonstrated in previous pages. The same applies to Mundane calculations. After the interpolation is set up any mathematical means may be used to solve for the unknown. And again the most expeditious method is to use the hand calculator. Here use is made of a hand held calculator that presents the capability of calculating in degrees, minutes and seconds, and rendering previously very difficult calculations to simplicity itself.

The declinations necessary are obtained before 1980 in the American Ephemeris and Nautical Almanac and since 1980 in the Astronomical Almanac, both being U.S. Government publications and obtainable throught the U.S. Government Printing Office or any large library.

SOLAR INGRESS 1988

0 hours DYNAMICAL TIME

Mar. 22 = + 0° 37′ 53.0′′
Mar. 21 = + 0° 14′ 10.8′′
Mar. 20 = - 0° 09′ 32.4′′
Mar. 19 = - 0° 33′ 16.4′′

Mar. 21, + 0° 14′ 10.8′′ = 0 hours
we need, ± 0° 00′ 00.0′′ = ?
Mar. 20, - 0° 09′ 32.4′′ = 0 hours

9 32.4 × 24
23 43.2

= 9.6526138 hrs. = 9h 39′ 09.41′′ A.M. G.M.T.

Subtracting the time to Wash. D.C.

9:39:09
5:08:02
4:31:07

Mar. 20 4:31:07 A.M. L.M.T. Wash. D.C.

1 SOLAR INGRESS (Name)

2 MAR. 20 1988 (Month) (Day) (Year)

3 Place WASH. D.C.

4 Latitude 38N53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)

Correction for
7 Standard Time

8 Time of Birth (Standard Time)

Correction for
9 Mean Time

Local Mean Time of
10 Birth. A.M or P.M. 4:31:07

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+) 4:31:07

14 Sidereal Time 11:50:58
(Noon) ZERO HOUR

15 AMER. EPH.

16

17 L.M.T. Interval

18 S. T. (Uncorrected) 16:22:05

Correction, 9.86s per h. for (+) 0:01:35
19 E.G.M.T. Int.

20 Sidereal Time 16:23:40
(Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth

Hrs. E. or
22 W. of Greenwich

23 E.G.M.T.

24 Noon 12:00

25 E.G.M.T.

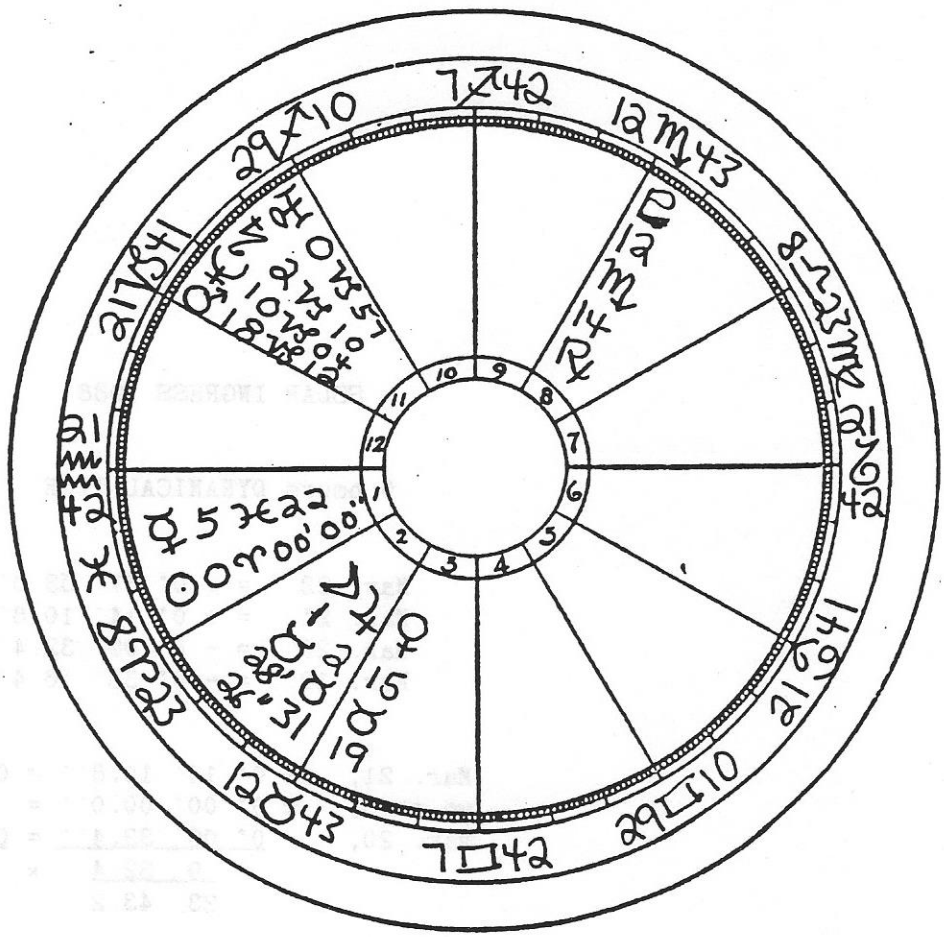
26 E.G.M.T. Interval (+) 9:39:09
(Indicate plus or minus)

(+) ΔT = (+) 9:40:05

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date
(Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.

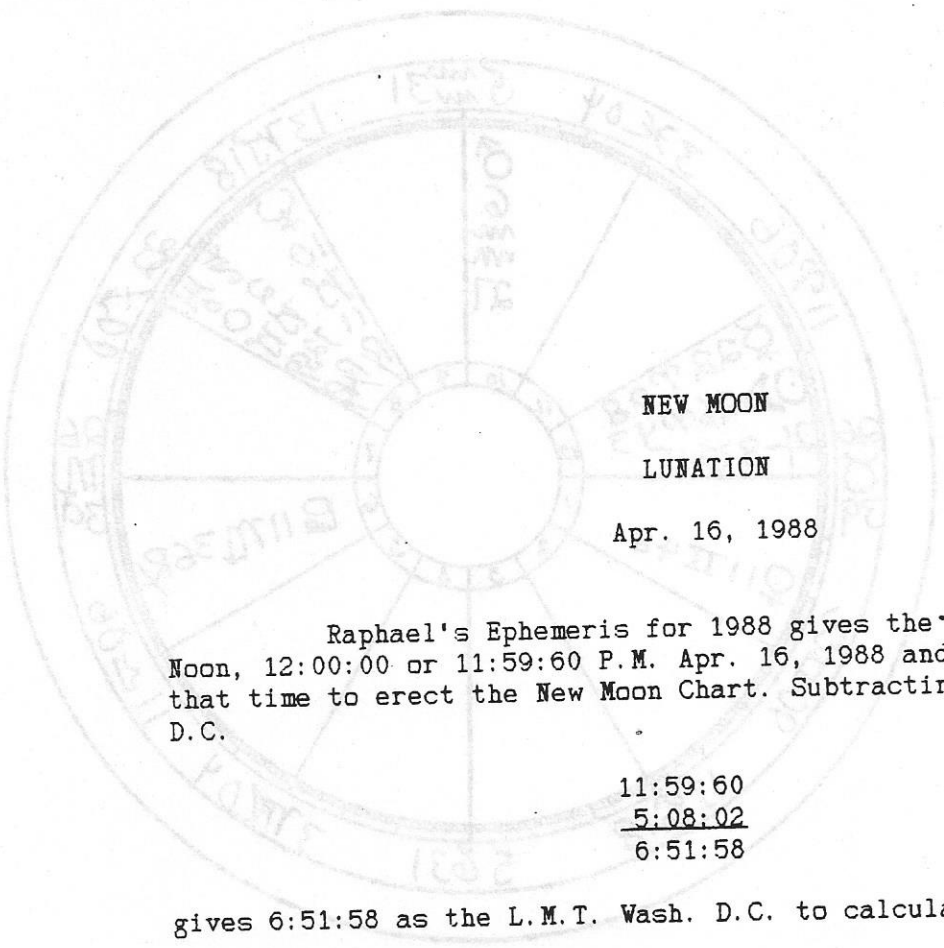
Per.	Comp.	Pub.	Life	Wealth	Assoc.	Psy.	Above	East	Ret.

Declinations	ASPECTS													
		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC	
	☉													
	☽													
	☿													
	♀													
	♂													
	♃													
	♄													
	♅													
	♆													
	♇													
	MC													
	ASC													

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
			Planet
			Sign
			House



NEW MOON

LUNATION

Apr. 16, 1988

Raphael's Ephemeris for 1988 gives the time of New Moon as Noon, 12:00:00 or 11:59:60 P.M. Apr. 16, 1988 and as is customary I use that time to erect the New Moon Chart. Subtracting the time to Wash. D.C.

11:59:60
5:08:02
6:51:58

gives 6:51:58 as the L.M.T. Wash. D.C. to calculate the planets places.

An interesting observation is that if one calculates the Sun at 12:00:56 in the 24 hour row the answer is 26° 42′ 38.82′′ and if one calculates the Moon in the 12 hour row at 0:00:56 the answer is 26° 42′ 39.3′′, which is about as accurate an answer one can expect. The question of ununiform motion in the Moon is ignored.

1 NEW MOON

2 APR. 16 1988 (Name) (Month) (Day) (Year)

3 Place WASH D.C.

4 Latitude 38N53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

Correction for
7 Standard Time _____

8 Time of Birth _____ (Standard Time)

Correction for
9 Mean Time _____

Local Mean Time of
10 Birth, A.M or ~~P.M.~~ 6:51:58

FIRST KEY PROBLEM

11 Noon _____ 12:00

12 Local Mean Time _____

13 L.M.T. Interval (+) 6:51:58

14 Sidereal Time 13:37:25

15 ~~(Noon)~~ ZERO HOUR AMER. EPH.

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) 20:29:23

Correction, 9.86s per h. for
19 E.G.M.T. Int. (+) 0:01:58

20 Sidereal Time 20:31:21 (Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth _____

Hrs. E. or
22 W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

25 E.G.M.T. 12:00:00

26 E.G.M.T. Interval (+) 12:00:00 (Indicate plus or minus)

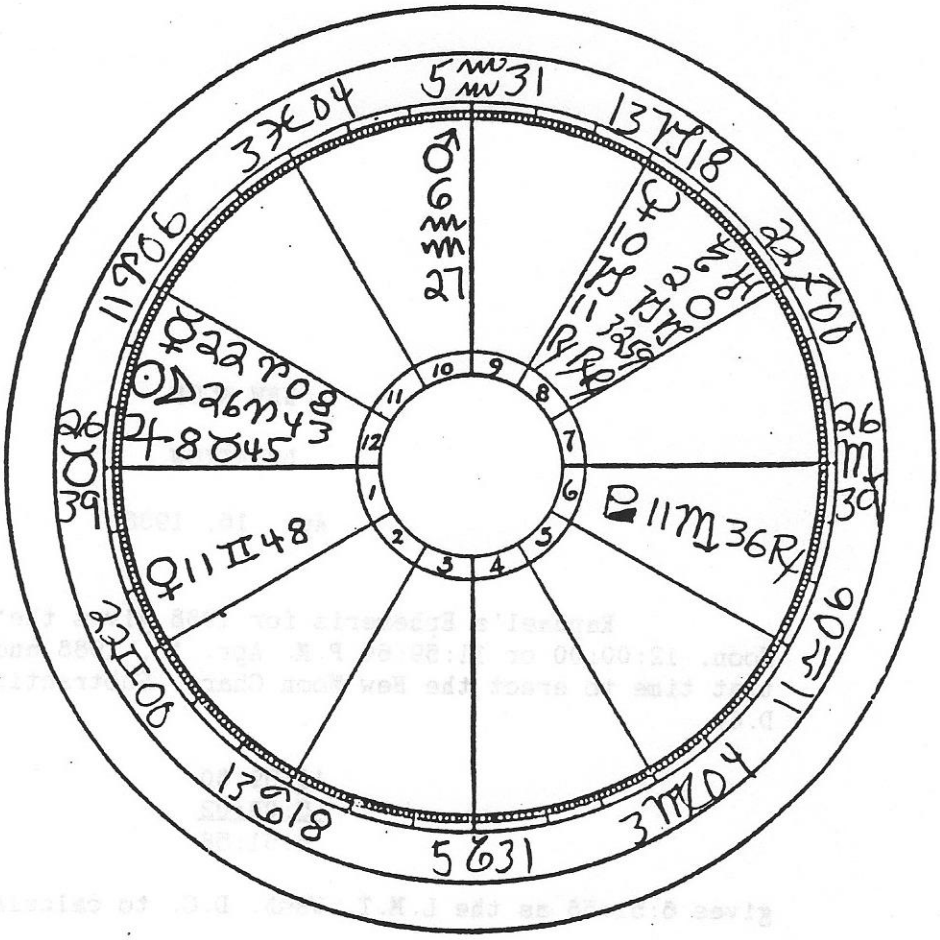
(+) ΔT = 12:00:57

ADDITIONAL FACTORS

27 Constant Log _____

28 Limiting Date _____ (Including year)

AMER. EPH. B. of T.



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**

Declinations

ASPECTS

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S)

MC	
ASC	

	Dominant	Best	Worst
Planet			
Sign			
House			

In 1987 the declinations for a portion of Mars are given at 0h Dynamic Time as follows:

Jan. 11 = + 0° 27′ 19.59″
Jan. 10 = + 0° 29′ 32.37″
Jan. 9 = - 0° 08′ 15.74″
Jan. 8 = - 0° 26′ 04.59″

Since we need to know the time when the planet is at 0° 00′ 00.00″ declination the interpolation is as follows.

Jan. 10	+ 0° 09′ 32.37″	=	0 hours
we need	± 0° 00′ 00.00″	=	?
Jan. 9	- 0° 08′ 15.74″	=	0 hours
	8 15.74	X	24 hours
	17 48.11		

= 11.139077 hours = 11h 08′ 20.68″ G.M.T.

Subtracting the time to Wash. D.C. gives.

11 08 20.68
5 08 02.00
6 00 18.68

Jan. 9 = 6h 00′ 19″ L.M.T. Wash D.C.

1 MARS CYCLE CHART

2 JAN 9 1987 (Name) (Month) (Day) (Year)

3 Place WASH. D.C.

4 Latitude 38N 53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)

7 Correction for Standard Time

8 Time of Birth (Standard Time)

9 Correction for Mean Time

10 Local Mean Time of Birth, A.M or PM 6:00:19

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+) 6:00:19

14 Sidereal Time 7:12:00 (Noon) ZERO HOUR

15 AMER. EPH.

16

17 L.M.T. Interval

18 S. T. (Uncorrected) 13:12:19

19 Correction, 9.86s per h. for E.G.M.T. Int. (+) 0:01:50

20 Sidereal Time 13:14:09 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth

22 Hrs. E. or W. of Greenwich

23 E.G.M.T.

24 Noon 12:00

25 E.G.M.T.

26 E.G.M.T. Interval (+) 11:08:21 (Indicate plus or minus)

(+) ΔT = (+) 11:09:18

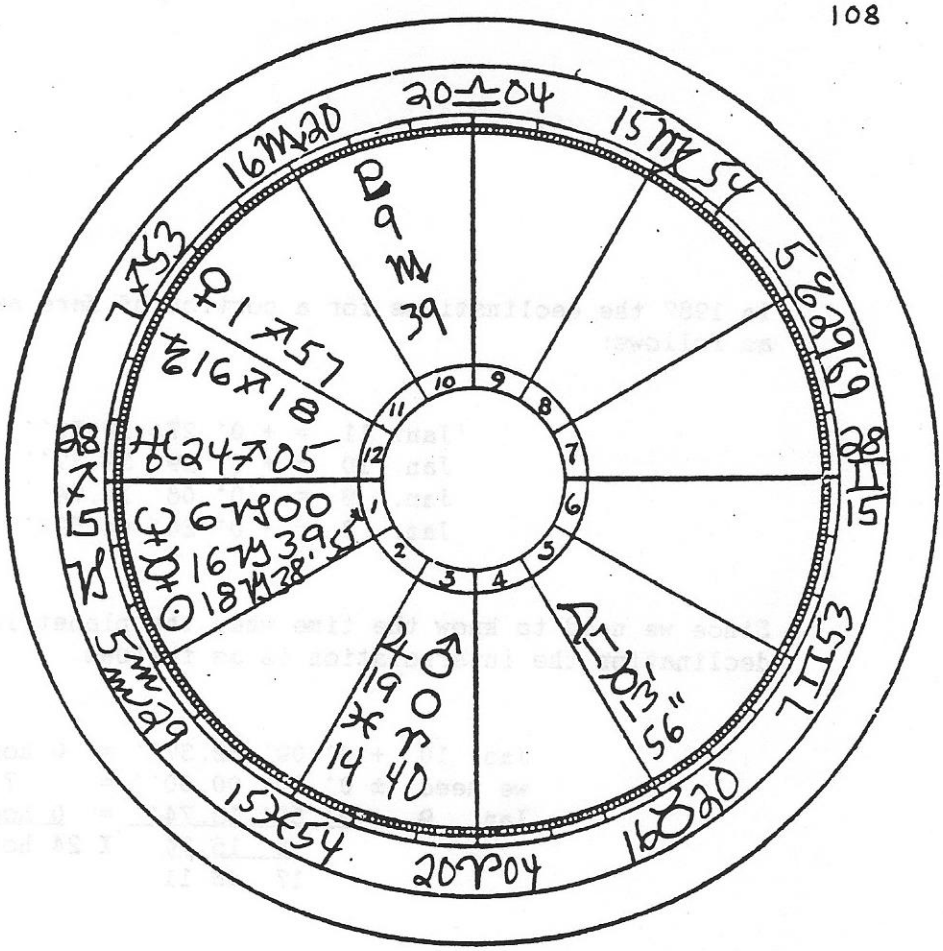
ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date (Including year)

AMER. BOOK OF TABLES

STUDENT CHART No. 2



MOV.	FIX.	MUT.	FIRE	EARTH	AIR	WATER	ANG.	SUC.	CAD.

PER.	COMP.	PUB.	LIFE	WEALTH	ASSOC.	PSY.	ABOVE	EAST	RET.

Declinations

ASPECTS

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S)

MC	
ASC	

Dominant	Best	Worst	
			Planet
			Sign
			House

MARS 1988

Nov. 19, = + 0° 13′ 35.63′′
Nov. 18, = + 0° 04′ 41.64′′
Nov. 17, = - 0° 04′ 01.64′′
Nov. 16, = - 0° 12′ 33.88′′

Nov. 17	+ 0° 04′ 41.64′′	=	0 hours
we need	± 0° 00′ 00.00′′	=	?
Nov. 16	- 0° 04′ 01.64′′	=	0 hours
	4 01.64	×	24
	8 43.28		

= 11.082709 hours = 11h 04′ 57.75′′ G.M.T.

Subtracting the time to Wash. D.C.

11 04 57.75 = 10 64 57.75
5 08 02
5 56 55.75

Nov. 17, 5h 56′ 56′′

1 MARS CYCLE CHART (Name)

2 NOV. 17 1988 (Month) (Day) (Year)

3 Place WASH. D.C.

4 Latitude 38N53.3

5 Longitude 77W00.6

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

7 Correction for Standard Time _____

8 Time of Birth _____ (Standard Time)

9 Correction for Mean Time _____

10 Local Mean Time of Birth, A.M or P.M. 5:56:56

FIRST KEY PROBLEM

11 Noon _____ 12:00

12 Local Mean Time _____

13 L.M.T. Interval (+)5:56:56

14 Sidereal Time 3:45:05 (Noon) ZERO HOUR

15 _____

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) 9:42:01

19 Correction, 9.86s per h. for E.G.M.T. Int. (+)0:01:49

20 Sidereal Time 9:43:50 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth _____

22 Hrs. E. or W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

25 E.G.M.T. _____

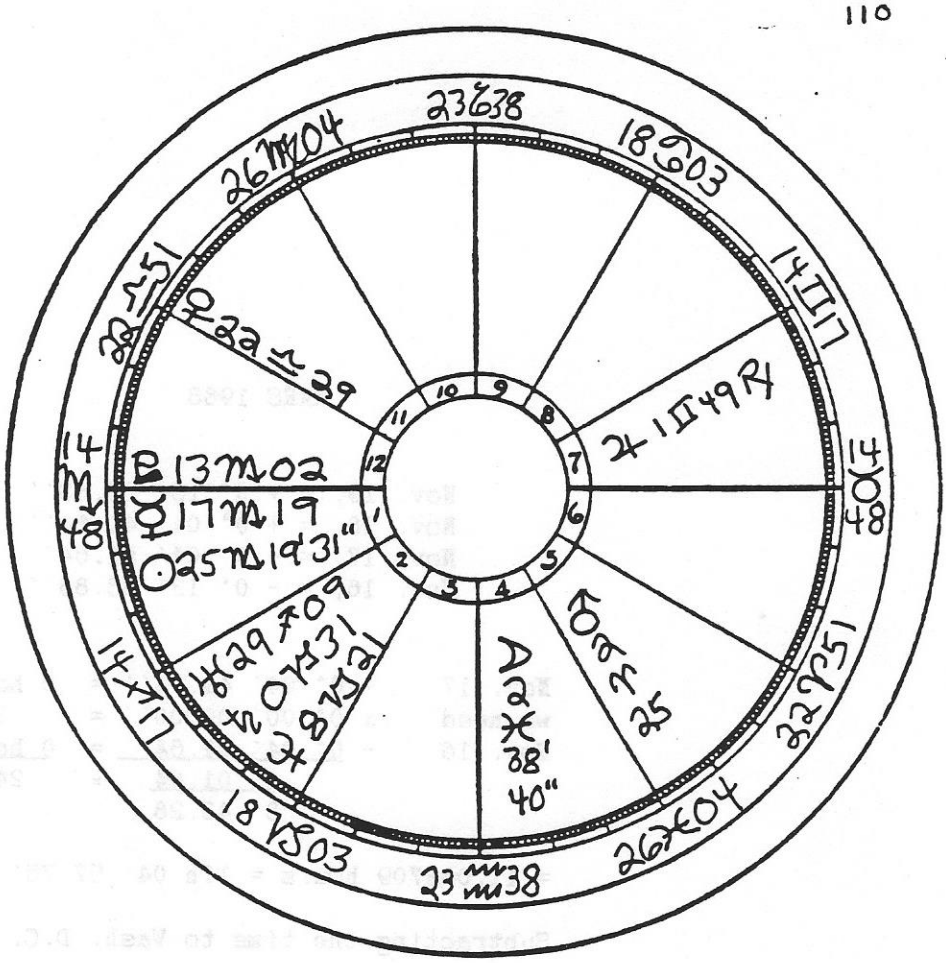
26 E.G.M.T. Interval (+)11:04:58 (Indicate plus or minus)

(+)ΔT = (+) 11:05:54

ADDITIONAL FACTORS

27 Constant Log _____

28 Limiting Date _____ (Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.

Per.	Comp.	Pub.	Life	Wealth	Assoc.	Psy.	Above	East	Ret.

Declinations

ASPECTS

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S)

MC

ASC

Dominant	Best	Worst	
			Planet
			Sign
			House

JUPITER 1987

Mar. 15 = + 0° 09′ 56.76′′
Mar. 14 = + 0° 04′ 11.43′′
Mar. 13 = - 0° 01′ 33.74′′
Mar. 12 = - 0° 07′ 18.72′′

Mar. 14	+ 0° 04′ 11.43′′	=	0 hours
we need	± 0° 00′ 00.00′′	=	?
Mar. 13	- 0° 01′ 33.74′′	=	0 hours
	1 33.74	×	24 hours
	5 45.17		

= 6.5178318 hours = 6h 31′ 04.19′′ G.M.T.

Subtracting the time to Wash. D.C.

6 31 04.19
5 08 02.00
1 23 02.19

Mar. 13, 1h 23′ 02′′ L.M.T. Wash. D.C.

1 JUPITER CYCLE CHART (Name)

2 MAR (Month) 13 (Day) 1987 (Year)

3 Place WASH D.C.

4 Latitude 38N53.3

5 Longitude 77W00.6

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

Correction for
7 Standard Time _____

8 Time of Birth _____ (Standard Time)

Correction for
9 Mean Time _____

Local Mean Time of
10 Birth, A.M or ~~P.M~~ 1:23:02

FIRST KEY PROBLEM

11 Noon _____ 12:00

12 Local Mean Time _____

13 L.M.T. Interval (+) 1:23:02

14 Sidereal Time 11:20:23 (Noon) ZERO HOUR

15 AMER. EPH.

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) 12:43:25

Correction, 9.86s per h. for
19 E.G.M.T. Int. (+) 0:01:04

20 Sidereal Time 12:44:29 (Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth _____

Hrs. E. or
22 W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

25 E.G.M.T. _____

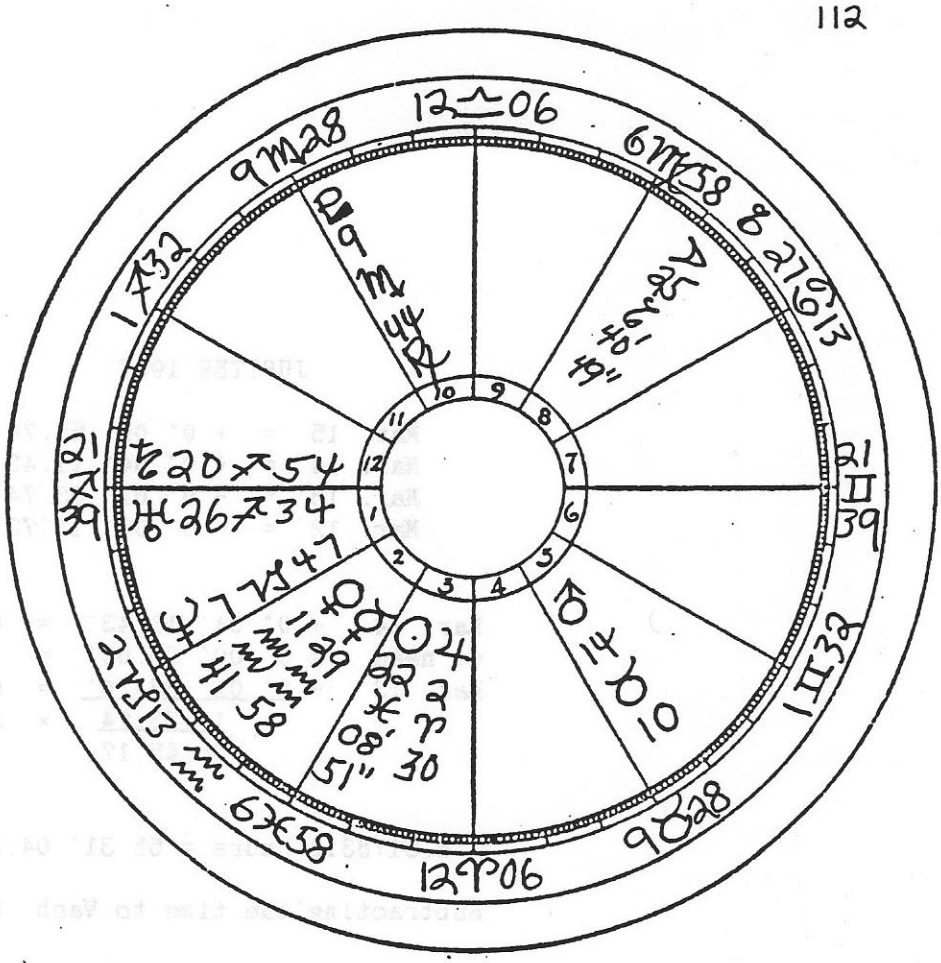
26 E.G.M.T. Interval (+) 6:31:04 (Indicate plus or minus)

(+)ΔT = (+) 6:32:01

ADDITIONAL FACTORS

27 Constant Log _____

28 Limiting Date _____ (Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.

Per.	Comp.	Pub.	Life	Wealth	Assoc.	Psy.	Above	East	Ret.

Declinations

ASPECTS

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S)

MC	
ASC	

	Dominant	Best	Worst
Planet			
Sign			
House			

SATURN 1981 0h Ephemeris Time

Apr. 1	+ 0° 01′ 53.31″
Mar. 31	+ 0° 00′ 02.14″
Mar. 30	- 0° 01′ 49.53″
Mar. 29	- 0° 03′ 41.65″

Mar. 31	+ 0° 00′ 02.14″	=	0 hours
we need	± 0° 00′ 00.00″	=	?
Mar. 30	- 0° 01′ 49.53″	=	0 hours

1 49.53 × 24

1 51.67

= 23.540073 hours = 23h 32′ 24.26″ G.M.T.

Subtracting the time to Wash. D.C.

23h 32′ 24.26″
5 08 02
18 24 22.26

Mar. 30, 18:24:22 L.M.T. Wash. D.C. (6:24:22 P.M.)

1 SATURN CYCLE CHART (Name)

2 MAR 30 1981 (Month) (Day) (Year)

3 Place WASH D.C.

4 Latitude 38 N 53.3

5 Longitude 77 W 0.6

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

7 Correction for Standard Time _____

8 Time of Birth _____ (Standard Time)

9 Correction for Mean Time _____

10 Local Mean Time of Birth, ~~A.M.~~ or P.M. 6:24:22

FIRST KEY PROBLEM

11 Noon 12:00:00 12:00

12 Local Mean Time 6:24:22

13 L.M.T. Interval (+) 18:24:22

14 Sidereal Time 12:29:11 (Noon) ZERO HOUR

15 AMER. EPH.

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) 6:53:33

19 Correction, 9.86s per h. for E.G.M.T. Int. (+) 0:03:52

20 Sidereal Time 6:57:25 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth _____

22 Hrs. E. or W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

25 E.G.M.T. _____

26 E.G.M.T. Interval (+) 23:32:24 (Indicate plus or minus)

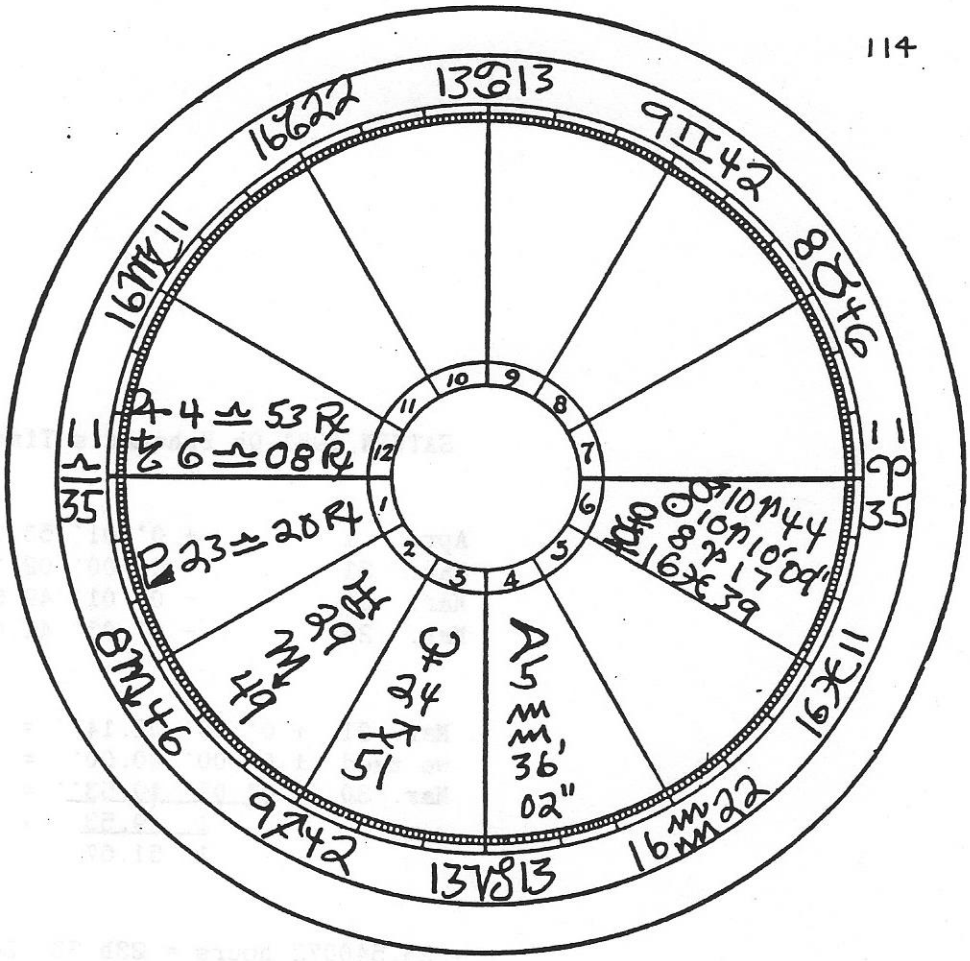
(+) ΔT = (+) 23:33:16

ADDITIONAL FACTORS

AMER BOOK OF TABLES

27 Constant Log _____

28 Limiting Date _____ (Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**

Declinations — **ASPECTS**

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S): MC ____ ASC ____

	Dominant	Best	Worst
Planet			
Sign			
House			

URANUS 1969 0h EPHEMERIS TIME

Mar. 28 = + 0° 01′ 03.21″
Mar. 27 = + 0° 00′ 01.69″
Mar. 26 = − 0° 01′ 00.00″
Mar. 25 = − 0° 02′ 01.82″

Mar. 27	+ 0° 00′ 01.69″	=	0 hours
we need	± 0° 00′ 00.00″	=	?
Mar. 26	− 0° 01′ 00.00″	=	0 hours
	1 00.00	×	24
	1 01.69		

= 23.342519 hours = 23h 20′ 33.07″

= 11.342519 P.M. = 11:20:33.07 P.M. G.M.T.

Subtracting the time to Wash. D.C.

	11:20:33	
	5:08:02	
Mar. 26	6:12:31	P.M. L.M.T. Wash. D.C.

1 URANUS CYCLE CHART

2 MAR. (Month) 26 (Day) 1969 (Year)

3 Place WASH. D.C.

4 Latitude 38N53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth _____ (Daylight Saving)

7 Correction for Standard Time _____

8 Time of Birth _____ (Standard Time)

9 Correction for Mean Time _____

10 Local Mean Time of Birth, ~~AM~~ or P.M. 6:12:31

FIRST KEY PROBLEM

11 Noon 12:00:00 12:00

12 Local Mean Time (+)6:12:31

13 L.M.T. Interval (+)18:12:31

14 Sidereal Time 12:13:03

15 (Noon) ZERO HOUR AMER. EPH.

16 _____

17 L.M.T. Interval _____

18 S. T. (Uncorrected) 6:25:34

19 Correction, 9.86s per h. for (+)0:03:50 E.G.M.T. Int. _____

20 Sidereal Time 6:29:24 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth _____

22 Hrs. E. or W. of Greenwich _____

23 E.G.M.T. _____

24 Noon _____ 12:00

25 E.G.M.T. _____

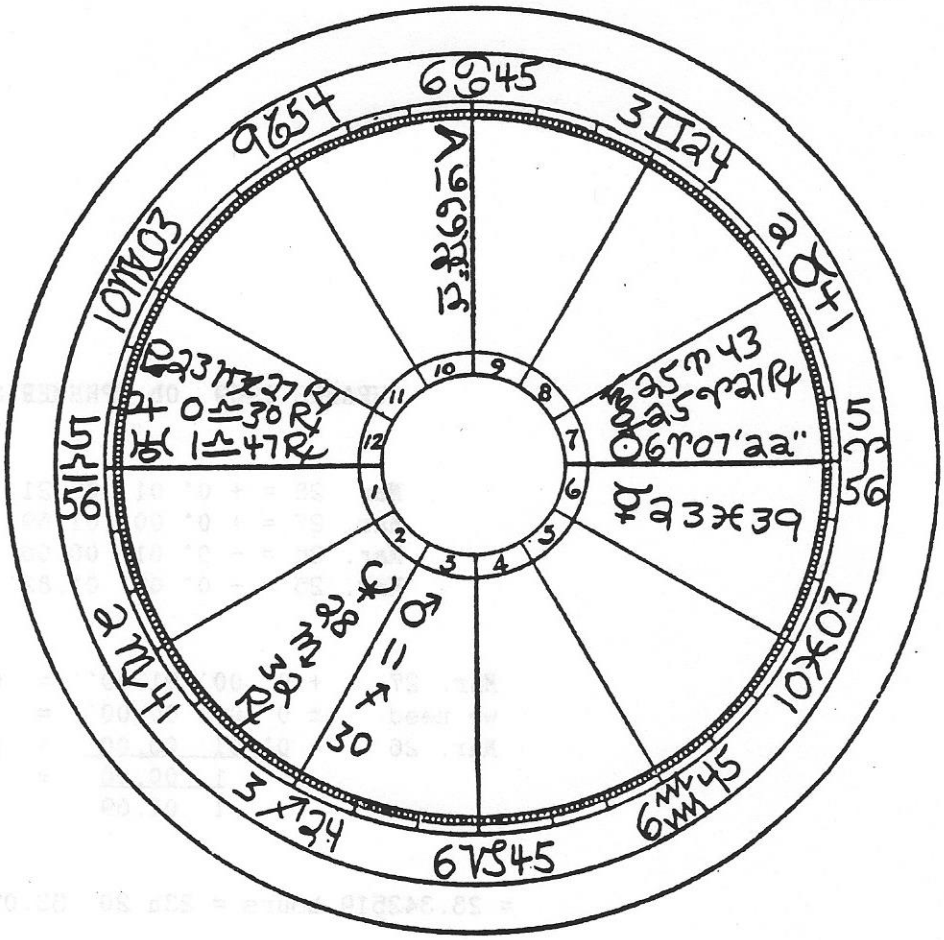
26 E.G.M.T. Interval (+)23:20:33 (Indicate plus or minus)

(+)ΔT = (+)23:21:13

ADDITIONAL FACTORS

27 Constant Log _____

28 Limiting Date _____ (Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
Per.	**Comp.**	**Pub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**

Declinations

ASPECTS

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) or SLOW (S)

MC	
ASC	

	Dominant	Best	Worst	
				Planet
				Sign
				House

NEPTUNE 1944 0h Universal Time

Mar. 9 = + 0° 00′ 51.6″
Mar. 8 = + 0° 00′ 12.8″
Mar. 7 = - 0° 00′ 25.9″
Mar. 6 = - 0° 01′ 04.4″

Mar. 8,	+ 0° 00′ 12.8″	=	0 hours	
we need	± 0° 00′ 00.0″	=	?	
Mar. 7,	- 0° 00′ 25.9″	=	0 hours	
	25.9	×	24	
	38.7			

= 16.062016 = 16h 03′ 43.26″ G.M.T.

Subtracting the time to Wash. D.C.

16:03:43 = 15:63:43
5:08:02
10:55:41

Mar. 7 10:55:41 A.M. L.M.T. Wash. D.C.

1 NEPTUNE CYCLE CHART

2 MAR. (Month) 7 (Day) 1944 (Year)

3 Place WASH. D.C.

4 Latitude 38N53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)

Correction for
7 Standard Time

8 Time of Birth (Standard Time)

Correction for
9 Mean Time

Local Mean Time of
10 Birth, A.M or P.M. 10:55:41

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+) 10:55:41

14 Sidereal Time 10:58:21

15 (Noon) ZERO HOUR AMER. EPH.

16

17 L.M.T. Interval

18 S. T. (Uncorrected) 21:54:02

Correction, 9.86s per h. for (+) 0:02:38
19 E.G.M.T. Int.

20 Sidereal Time 21:56:40
(Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth

Hrs. E. or
22 W. of Greenwich

23 E.G.M.T.

24 Noon 12:00

25 E.G.M.T.

26 E.G.M.T. Interval (+) 16:03:43
(Indicate plus or minus)

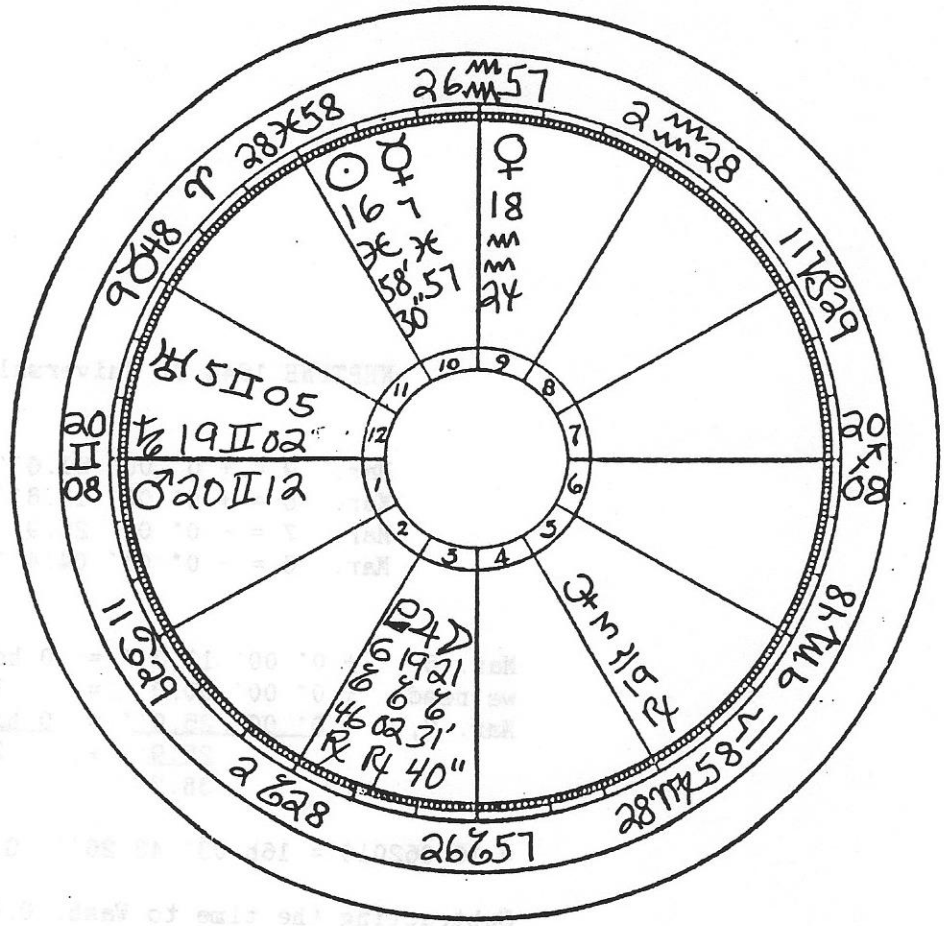
(+)ΔT = (+) 16:04:09

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date
(Including year)

AMER. EPH. B. of T.



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.
Per.	**Comp.**	**Fub.**	**Life**	**Wealth**	**Assoc.**	**Psy.**	**Above**	**East**	**Ret.**

Declinations — **ASPECTS**

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
☉												
☽												
☿												
♀												
♂												
♃												
♄												
♅												
♆												
♇												
MC												
ASC												

FAST (F) OF SLOW (S)

MC	
ASC	

	Dominant	Best	Worst
Planet			
Sign			
House			

PLUTO 1988

Mar. 10 = + 0° 04′ 48.39′′
Mar. 5 = + 0° 01′ 40.39′′
Feb. 29 = - 0° 01′ 21.18′′
Feb. 24 = - 0° 04′ 14.63′′

note 5 day intervals

Mar 5,	+ 0° 01′ 40.39′′	=	0 hours
we need	± 0° 00′ 00.00′′	=	?
Feb. 29,	- 0° 01′ 21.18′′	=	0 hours
	1 21.18	×	120
	2 61.57		

= 53.652035 hours = 53h 39′ 07.33′′

Minus 48 hours (2 days) = 5:39:07 G.M.T.

Subtracting the time to Wash. D.C.

	5:39:07	
	5:08:02	
Mar. 2,	0.31:05	L.M.T. Wash. D.C.

1 PLUTO CYCLE

2 MAR. 2 1988
(Month) (Day) (Year) (Name)

3 Place WASH. D.C.

4 Latitude 38N53.3

5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth
(Daylight Saving)

7 Correction for Standard Time

8 Time of Birth
(Standard Time)

9 Correction for Mean Time

10 Local Mean Time of Birth. A.M or P.M. 0:31:05

FIRST KEY PROBLEM

11 Noon 12:00

12 Local Mean Time

13 L.M.T. Interval (+) 0:31:05

14 Sidereal Time 10:40:00
(Noon) ZERO HOUR

15 AMER. EPH.

16

17 L.M.T. Interval

18 S. T. (Uncorrected) 11:11:05

19 Correction, 9.86s per h. for E.G.M.T. Int. (+) 0:00:56

20 Sidereal Time 11:12:01
(Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth

22 Hrs. E. or W. of Greenwich

23 E.G.M.T.

24 Noon 12:00

25 E.G.M.T.

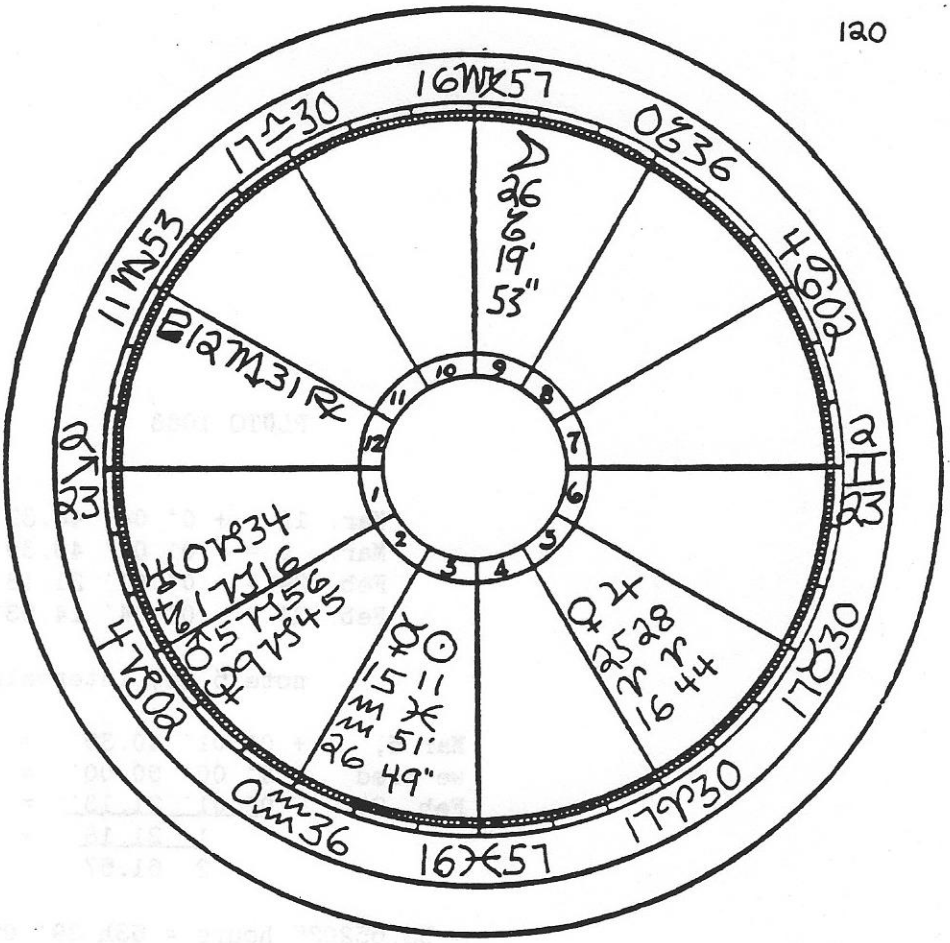
26 E.G.M.T. Interval (+) 5:39:07
(Indicate plus or minus)

(+) ΔT = (+) 5:40:04

ADDITIONAL FACTORS

27 Constant Log

28 Limiting Date
(Including year)



Mov.	Fix.	Mut.	Fire	Earth	Air	Water	Ang.	Suc.	Cad.

Per.	Comp.	Pub.	Life	Wealth	Assoc.	Psy.	Above	East	Ret.

ASPECTS

Declinations		☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	MC	ASC
	☉												
	☽												
	☿												
	♀												
	♂												
	♃												
	♄												
	♅												
	♆												
	♇												
	MC												
	ASC												

FAST (F) or SLOW (S)

MC	
ASC	

	Dominant	Best	Worst
Planet			
Sign			
House			

NOTE

THE FOLLOWING PAGES, 122 and 123, ARE FOR THE BENEFIT OF USERS OF RAPHAEL'S EPHEMERIS AS THE MATH IS DONE USING THAT EPHEMERIS.

1 NEPTUNE CYCLE CHART (Name)
2 MAR. 7 1944 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for 7 Standard Time
8 Time of Birth (Standard Time)
Correction for 9 Mean Time
Local Mean Time of 10 Birth, A.M or P.M. 10:55:41

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 10:55:41
13 L.M.T. Interval (-) 1:04:19
14 Sidereal Time 23:00:19
15 (Noon) RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 21:56:00
19 Correction, 9.86s per h. for E.G.M.T. Int. (+) 0:00:40
20 Sidereal Time 21:56:40 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T. 16:03:43
24 Noon (-) 12:00:00 12:00
25 E.G.M.T. 4:03:43
26 E.G.M.T. Interval (+) 4:03:43 (Indicate plus or minus)

1 SOLAR INGRESS (Name)
2 MAR. 20 1988 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for 7 Standard Time
8 Time of Birth (Standard Time)
Correction for 9 Mean Time
Local Mean Time of 10 Birth, A.M or P.M. 4:31:07

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 4:31:07
13 L.M.T. Interval (-) 7:28:53
14 Sidereal Time 23:52:56
15 (Noon) RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 16:24:03
19 Correction, 9.86s per h. for E.G.M.T. Int. (-) 0:00:23
20 Sidereal Time 16:23:40 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T.
24 Noon 11:59:60 12:00
25 E.G.M.T. (-) 9:39:09
26 E.G.M.T. Interval (-) 2:20:51 (Indicate plus or minus)

1 NEW MOON (Name)
2 APR. 16 1988 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for 7 Standard Time
8 Time of Birth (Standard Time)
Correction for 9 Mean Time
Local Mean Time of 10 Birth, A.M or P.M. 6:51:58

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 6:51:58
13 L.M.T. Interval (-) 25:08:02
14 Sidereal Time 1:39:23
15 (Noon) RAPHAEL'S
S.T.+24 16 25:39:23
17 L.M.T. Interval (-) 5:08:02
18 S. T. (Uncorrected) 20:31:21
19 Correction, 9.86s per h. for E.G.M.T. Int. 0:00:00
20 Sidereal Time 20:31:21 (Of Birth)

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T.
24 Noon 12:00
25 E.G.M.T.
26 E.G.M.T. Interval 0:00:00 (Indicate plus or minus)

1 PLUTO CYCLE CHART (Name)
2 MAR. 2 1988 (Month) (Day) (Year)
3 Place WASH D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
7 Correction for Standard Time
8 Time of Birth (Standard Time)
9 Correction for Mean Time
10 Local Mean Time of Birth, A.M or P.M. 0:31:05

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 0:31:05
13 L.M.T. Interval (+)11:28:55
14 Sidereal Time 22:41:58
15 (Noon) RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 11:13:03
19 Correction, 9.86s per h. for E.G.M.T. Int. (−)0:01:02
20 Sidereal Time (Of Birth) 11:12:01

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T.
24 Noon 11:59:60 12:00
25 E.G.M.T. 5:39:07
26 E.G.M.T. Interval (+)6:20:53 (Indicate plus or minus)

1 SATURN CYCLE CHART (Name)
2 MAR 30 1981 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
7 Correction for Standard Time
8 Time of Birth (Standard Time)
9 Correction for Mean Time
10 Local Mean Time of Birth, A.M or P.M. 6:24:22

FIRST KEY PROBLEM

11 Noon 12:00
12 Local Mean Time
13 L.M.T. Interval (+) 6:24:22
14 Sidereal Time 0:31:09
15 (Noon) RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 6:55:31
19 Correction, 9.86s per h. for E.G.M.T. Int. (+)0:01:54
20 Sidereal Time (Of Birth) 6:57:25

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T. 23:32:24
24 Noon 12:00:00 12:00
25 E.G.M.T. 11:32:24
26 E.G.M.T. Interval (+)11:32:24 (Indicate plus or minus)

1 URANUS CYCLE CHART (Name)
2 MAR. 26 1969 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
7 Correction for Standard Time
8 Time of Birth (Standard Time)
9 Correction for Mean Time
10 Local Mean Time of Birth, A.M or P.M. 6:12:31

FIRST KEY PROBLEM

11 Noon 12:00
12 Local Mean Time
13 L.M.T. Interval (+) 6:12:31
14 Sidereal Time 0:15:01
15 (Noon) RAPHAEL'S
16
17 L.M.T. Interval
18 S. T. (Uncorrected) 6:27:32
19 Correction, 9.86s per h. for E.G.M.T. Int. (+)0:01:52
20 Sidereal Time (Of Birth) 6:29:24

SECOND KEY PROBLEM

21 Standard Time of Birth
22 Hrs. E. or W. of Greenwich
23 E.G.M.T. 23:20:33
24 Noon 12:00:00 12:00
25 E.G.M.T. 11:20:33
26 E.G.M.T. Interval (+)11:20:33 (Indicate plus or minus)

1 MARS CYCLE CHART (Name)
2 JAN 9 1987 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for
7 Standard Time
8 Time of Birth (Standard Time)
Correction for
9 Mean Time
Local Mean Time of
10 Birth. A.M or P.M. 6:00:19

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 6:00:19
13 L.M.T. Interval (-) 5:59:41
14 Sidereal Time 19:13:58
15 (Noon) RAPHAEL'S
16 18:73:58
17 L.M.T. Interval (-) 5:59:41
18 S. T. (Uncorrected) 13:14:17
Correction. 9.86s per h. for
19 E.G.M.T. Int. (-) 10:00:08
20 Sidereal Time 13:14:09 (Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth
Hrs. E. or
22 W. of Greenwi
23 E.G.M.T.
24 Noon 11:59:60 12:00
25 E.G.M.T. 11:08:21
26 E.G.M.T. Interval (-) 0:51:39
(Indicate plus or minus)

JUPITER CYCLE CHART (Name)
2 MAR 13 1987 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 00.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for
7 Standard Time
8 Time of Birth (Standard Time)
Correction for
9 Mean Time
Local Mean Time of
10 Birth. A.M or P.M. 1:23:02

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 1:23:02
13 L.M.T. Interval (-) 10:36:58
14 Sidereal Time 23:22:21
15 (Noon) RAPHAEL'S
16 22:81:81
17 L.M.T. Interval (-) 10:36:58
18 S. T. (Uncorrected) 12:45:23
Correction. 9.86s per h. for
19 E.G.M.T. Int. (-) 10:00:14
20 Sidereal Time 12:44:29 (Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth
Hrs. E. or
22 W. of Greenwich
23 E.G.M.T.
24 Noon 11:59:60 12:00
25 E.G.M.T. 6:31:04
26 E.G.M.T. Interval (-) 5:28:56
(Indicate plus or minus)

1 MARS CYCLE CHART (Name)
2 NOV. 17 1988 (Month) (Day) (Year)
3 Place WASH. D.C.
4 Latitude 38N53.3
5 Longitude 77W 0.6

DOMINANT FACTOR

6 Time of Birth (Daylight Saving)
Correction for
7 Standard Time
8 Time of Birth (Standard Time)
Correction for
9 Mean Time
Local Mean Time of
10 Birth. A.M or P.M. 5:56:56

FIRST KEY PROBLEM

11 Noon 11:59:60 12:00
12 Local Mean Time 5:56:56
13 L.M.T. Interval (-) 6:03:04
14 Sidereal Time 15:47:03
15 (Noon) RAPHAEL'S
16 15:46:63
17 L.M.T. Interval (-) 6:03:04
18 S. T. (Uncorrected) 9:43:59
Correction. 9.86s per h. for
19 E.G.M.T. Int. (-) 10:00:09
20 Sidereal Time 9:43:50 (Of Birth)

SECOND KEY PROBLEM

Standard
21 Time of Birth
Hrs. E. or
22 W. of Greenwich
23 E.G.M.T.
24 Noon 11:59:60 12:00
25 E.G.M.T. 11:04:58
26 E.G.M.T. Interval (-) 0:55:02
(Indicate plus or minus)

CHURCH of LIGHT

DECLARATION OF PRINCIPLES

The Church of Light is a religious, altruistic association. We consider all humanity as equal in the higher sense, and utilize our resources for the purpose of assisting each individual to fulfill his of her part in the Divine Plan. Our Hermetic Philosophy indicates that each soul is responsible for its spiritual progress. Our lessons provide the best information possible for the attainment of true spirituality and happiness on the physical plane and on each higher plane of progress.

There cannot be two orders of Truth in the Universe. Therefore, we deny that there is any antagonism between true Science and true Religion. We accept but one book as infallible in interpreting the Will of Deity. That is the Book if Nature. We worship but one Religion, which is also a Science. It is Nature's Laws.

Our members are under no obligation to accept our teachings. We encourage them to investigate all existing religious and occult organizations, and our course on Evolution of Religion gives details on how our philosophy relates to many of the religions of the world today.

We teach the family and the marriage relationship are the most powerful aid in building the spiritual body. It is through the sacrifices of the parents for the children that they give up selfishness and then transfer that love to higher planes of work. Our course, *Ancient Masonry*, gives more detail about this process, as well as the courses on *Spiritual Alchemy* and *Occultism Applied to Daily Life.*

Our view of the reason for existence upon the earth is discussed in the books, *Astrological Signatures* and *Organic Alchemy.* We know from tradition and scientific experiments that the soul and personality survive the transition called death and live on higher planes of existence. This is outlined in the book, *The Next Life.* We also have lessons on healing and alchemy.

Our philosophy is grounded in two basic studies: The **Golden Key** of Astrology and the **Silver Key** of the Sacred Tarot. Only with a thorough knowledge of these two keys may the sanctuary of Nature's Temple be opened. Astrology is the science of finding and utilizing the natural

potentialities as indicated by the planetary chart of birth. It becomes a religion when it shows the individual how these natural tendencies can be utilized for the benefit of all humanity and furtherance of the purposes of Deity. This is why we are called the Religion of the Stars.

The Sacred Tarot is the pictorial form by which the ancients recorded the facts they ascertained regarding spiritual science and universal law. It is the one standard text-book on universal symbolism, and is the esoteric presentation of the Hermetic Philosophy providing each neophyte with many sources of meditations and inspiration.

The Religion of the Stars is dedicated to the unfoldment of the Universal Plan for this Aquarian Age. A Nine Point Plan provides the framework for this work. The Nine Point Plan is:

That everyone should have:

Freedom from Want

Freedom from Fear

Freedom of Expression

Freedom of Religion

That to obtain these in proper measure, people must have the freedom to become familiar with:

Facts of Astrology

Facts of Induced Emotion

Facts of Extrasensory Perception

Facts of Directed Thinking

And that:

Instead of working to take all that he can for himself, each must learn to find pleasure in Contributing His Utmost to Universal Welfare.

The Church of Light teachings are presented in 21 courses covering 21 Branches of Occult Science. The courses have study questions in the back of each book. Upon becoming a member, you will receive a final exam for each course. After passing the final exam, a manuscript will be sent. The manuscripts contain information on the safest method of developing higher states of consciousness, as well as other information of value to the neophyte.