# Primary Directions

## A Predictive Tool of Astrology

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# 1. PROPORTIONAL SEMI-ARCS

## 1.1 Equatorial coordinates

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The term 'primary directions' refers to techniques that use primary motion to predict events. In order to deal with the mathematics of primary directions, we will be using the **equatorial coordinate system**, which enables us to specify the location of any point of the celestial sphere in terms of pertinent values of longitude and latitude. Equatorial longitude (called **right ascension**) is angular distance measured along the equator, going from 0° to 360° as we go eastward from the March equinox point. Equatorial latitude (called **declination**) is angular distance (along the celestial sphere) from the equator, going from 0° to $+90°$ as we go perpendicularly northward and going from 0° to $-90°$ as we go perpendicularly southward.

If you are using the sidereal zodiac, then converting from sidereal ecliptic coordinates to equatorial coordinates involves going from sidereal ecliptic coordinates to tropical ecliptic coordinates and then to equatorial coordinates. Adding the *ayanāṃśa* to a sidereal ecliptic longitude yields its equivalent tropical ecliptic longitude, while tropical ecliptic latitude equals sidereal ecliptic latitude.

Both tropical ecliptic longitude and right ascension are measured from the March equinox point. Going from tropical ecliptic coordinates to equatorial coordinates is a conversion from one system of spherical coordinates to another. Consider a point of the celestial sphere that has tropical ecliptic longitude $\lambda$ and ecliptic latitude $\beta$. Its right ascension $RA$ and declination $\delta$ satisfy the equations

$$\cos\delta \times \cos(RA) = \cos\beta \times \cos\lambda\,,$$

$$\cos\delta \times \sin(RA) = \cos\varepsilon \times \cos\beta \times \sin\lambda - \sin\varepsilon \times \sin\beta\,,$$

$$\sin\delta = \sin\varepsilon \times \cos\beta \times \sin\lambda + \cos\varepsilon \times \sin\beta\,,$$

where the **obliquity** $\varepsilon$ is the angle between the ecliptic plane and the celestial equatorial plane (which is the same as Earth's equatorial plane).

The obliquity is a slowly varying angle for which we will be using the approximation

$$\varepsilon \approx 23°\,26'\,21.406'' - 46.836769'' \times T\,,$$

where $T$ is the signed number of Julian centuries since the epoch J2000.0. A **Julian year** is defined as exactly 365.25 days of 86400 seconds each. The epoch J2000.0 is a particular instant of time that is Saturday, 01 January 2000 at approximately 12:00 UTC. Note that $T$ is positive for dates after the epoch and negative for dates before the epoch.

We find that

$$\delta = \arcsin(\sin\varepsilon \times \cos\beta \times \sin\lambda + \cos\varepsilon \times \sin\beta)\,.$$

On defining the **equinoctial distance**

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$$ED := \arccos\left(\frac{\cos\beta \times \cos\lambda}{\cos\delta}\right),$$

we get

$$RA = \begin{cases} ED & \text{for } \lambda < 180° \\ 360° - ED & \text{for } \lambda > 180°. \end{cases}$$

Note that equinoctial distance is angular distance measured along the equator, going from 0° to 180° as we go eastward or westward from the March equinox point.

### TABLE 1.1: Ecliptic latitudes for aspect copies

| Aspect Copy | $\theta_A$ | $\beta_A/\beta_0$ |
|---|---|---|
| Duodecile | 30° | $+\sqrt{3}/2$ |
| Sextile | 60° | $+1/2$ |
| Square | 90° | 0 |

| Aspect Copy | $\theta_A$ | $\beta_A/\beta_0$ |
|---|---|---|
| Trine | 120° | $-1/2$ |
| Quincunx | 150° | $-\sqrt{3}/2$ |
| Opposition | 180° | $-1$ |

In order to get the ecliptic latitude of an aspect copy, we will use the **Bianchini aspect circle**. On the celestial sphere, this great circle passes through the parent planet's location and intersects the ecliptic at the two points corresponding to the planet's square aspects. In this regard, we will take each square copy to lie on the ecliptic at an intersection point, and we will take the opposition copy to lie at the point that is opposite the parent planet's location. It follows that the ecliptic latitude of an aspect copy having signature angular separation $\theta_A$ is given by

$$\beta_A = \beta_0 \times \cos\theta_A$$

where $\beta_0$ is the ecliptic latitude of the parent planet. TABLE 1.1 presents pertinent results.

## 1.2 Direct and converse primary directions

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Earth's axial rotation gives rise to **primary motion**. From the point of view of an earthbound observer, primary motion is perceived as Earth remaining at rest while the surrounding celestial sphere and everything on it (including the zodiacal belt) rotate about Earth's line of poles. It is useful here to imagine two celestial spheres that occupy the same volume of space – the active sphere and the fixed sphere. The **active sphere** is the celestial sphere undergoing its usual axial rotation according to primary motion. The **fixed sphere** is the celestial sphere as it appeared at a specific time of interest, which could be a birth time or a solar-return time. Primary motion moves the active sphere across the stationary fixed sphere.

From the point of view of an earthbound observer, primary motion causes the zodiacal belt (with the planets attached to it) to rotate backward through fixed houses of the local sky. A **primary direction** is the process of primary motion directing a given point of the active sphere backward through the houses toward a given point of the fixed sphere.

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Each primary direction is associated with a predicted event. One of its two points is called the **significator**, and it indicates the area of life in which the predicted event will occur. The other point is called the **promissor**, and it indicates that which promises (that is, gives grounds for expecting) the predicted event. A primary direction is said to be **direct** if primary motion directs a promissor lying in the active sphere toward a significator lying in the fixed sphere. A primary direction is said to be **traditionally converse** if primary motion directs a significator lying in the active sphere toward a promissor lying in the fixed sphere. A primary direction is said to be **neo-converse** if reversed primary motion (which is a what-if notion) directs a promissor lying in the active sphere toward a significator lying in the fixed sphere.

A primary direction results in an **arc of direction**, which is the circular path along which primary motion has directed the active point (which lies in the active sphere) toward the fixed point (which lies in the fixed sphere). A primary direction is associated with a predicted event, and the angular length of the associated arc of direction is related to the time when the event is predicted to occur.

## 1.3 The proportional semi-arc formula

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The horizon and the meridian are great circles of the celestial sphere. The horizon (which contains the Ascendant and the Descendant) is the boundary between the upper sky (which contains the Midheaven) and the lower sky (which contains the Imum Coeli). Moreover, the meridian (which contains the Midheaven and the Imum Coeli) is the boundary between the eastern sky (which contains the Ascendant) and the western sky (which contains the Descendant).

A **quadrant-house system** uses the horizon and the meridian to divide the local sky into four quadrants: the lower eastern sky (which contains the 1st, 2nd, and 3rd Houses), the lower western sky (which contains the 4th, 5th, and 6th Houses), the upper western sky (which contains the 7th, 8th, and 9th Houses), and the upper eastern sky (which contains the 10th, 11th, and 12th Houses). The varying angular sizes of these quadrants result in houses of unequal angular size. The **cusp** of a house is the boundary that marks the beginning of that house. In a quadrant-house system, the Ascendant lies in the 1st-House cusp, the Descendant lies in the 7th-House cusp, the Midheaven lies in the 10th-House cusp, and the Imum Coeli lies in the 4th-House cusp.

In applying the method of primary directions, we are working with an astrological chart that is cast for a specific time of interest, which could be a birth time or,a solar-return time. For the time of the chart, consider an active-sphere point $A$ and a fixed-sphere point $F$ that lie in the same quadrant. The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a **semi-arc** that extends backward house-wise from one quadrant boundary to the other. The semi-arc of the active point is the path that it follows as the active sphere undergoes primary motion. The semi-arc of the fixed point is the path that it would follow if the fixed sphere were allowed to undergo primary motion. Note that points $A$ and $F$ usually have different semi-arcs. Therefore, whenever we say that point $A$ will move toward point

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$F$, we mean that point $A$ will move along its own semi-arc and get closer to point $F$ (which lies in its own semi-arc).

The angular length of a point's semi-arc is a non-negative quantity that depends on the point's declination $\delta$ and on the chart's geographical latitude $\Phi$ via the **ascensional difference**

$$AD = \arcsin(\tan\delta \times \tan\Phi) .$$

If the point lies in a quadrant of the chart's diurnal hemisphere, then it is part of a **diurnal semi-arc**. If the point lies in a quadrant of the chart's nocturnal hemisphere, then it is part of a **nocturnal semi-arc**. The angular length of a semi-arc is given by

$$SA = \begin{cases} 90° + AD & \text{for a diurnal semi-arc} \\ 90° - AD & \text{for a nocturnal semi-arc} . \end{cases}$$

Because $AD$ is an arcsine value, its range is from $-90°$ to $+90°$. It follows that $SA$ can never be negative.

Each semi-arc extends backward house-wise from one quadrant boundary to the other. If the beginning quadrant boundary is the eastern or western portion of the horizon, then each point lies along its own semi-arc at some angular distance $HD$ away from the horizon. This **horizonal distance** is given by

$$HD = \begin{cases} (OA)_{Asc} - OA & \text{in the upper eastern sky} \\ (OD)_{Dsc} - OD & \text{in the lower western sky} , \end{cases}$$

where $OA = RA - AD$ is the **oblique ascension** and $OD = RA + AD$ is the **oblique descension**. Like right ascension $RA$, oblique ascension and oblique descension are increasing functions of ecliptic longitude. Because points $A$ and $F$ both lie zodiacally behind the horizon, their respective horizonal distances are nonnegative angular quantities.

If the beginning quadrant boundary is the upper or lower portion of the meridian, then each point lies along its own semi-arc at some angular distance $MD$ away from the meridian. This **meridian distance** is given by

$$MD = \begin{cases} (RA)_{MC} - RA & \text{in the upper western sky} \\ (RA)_{IC} - RA & \text{in the lower eastern sky} . \end{cases}$$

Right ascension $RA$ is an increasing function of ecliptic longitude. Because points $A$ and $F$ both lie zodiacally behind the meridian, their respective meridian distances are nonnegative angular quantities.

Let $r$ be the point's **proportional location**, which is ratio of the point's angular distance (whether $HD$ or $MD$) divided by its semi-arc's angular length $SA$. Note that $r$ takes on values from 0 to 1. For the time of the chart, the active point lies zodiacally ahead of the fixed point, and so its proportional location is lesser. That is, we have $r_A < r_F$. As primary motion occurs, the active-point's proportional location increases. A **conjunction** occurs between points $A$ and $F$ whenever their proportional locations become equal. The arc of direction is the angle through which the active point must be moved (via primary motion) along its own semi-arc so that its proportional location goes from the chart value $r_A$ to the conjunction value $r_F$. More specifically, we have

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$$\text{arc of direction} = (r_F - r_A) \times (SA)_A$$

for a primary direction in the quadrant of interest. We will refer to this expression as the **proportional semi-arc formula**.

# 1.4 Directing in the lower eastern sky

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In a suitable astrological chart, consider an active-sphere point $A$ and a fixed-sphere point $F$ that lie in the lower eastern sky (that is, the quadrant consisting of the 1st, 2nd, and 3rd Houses). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a nocturnal semi-arc that extends from the lower meridian (which contains the Imum Coeli) to the eastern horizon (which contains the Ascendant). Each point's angular distance along its own nocturnal semi-arc is given by the its meridian distance $MD$ from the lower meridian. The positive ratios

$$r_A = \frac{(MD)_A}{(SA)_A} = \frac{(RA)_{IC} - (RA)_A}{90° - (AD)_A}, \qquad r_F = \frac{(MD)_F}{(SA)_F} = \frac{(RA)_{IC} - (RA)_F}{90° - (AD)_F}$$

respectively give each point's proportional location along its own nocturnal semi-arc.

Let's now consider the special case of the fixed point being the Ascendant. Because the Ascendant lies at the end of its own semi-arc, we have

$$1 = r_{Asc} = \frac{(RA)_{IC} - (RA)_{Asc}}{90° - (AD)_{Asc}} \;\Rightarrow\; (RA)_{IC} - (RA)_{Asc} = 90° - (AD)_{Asc}$$

$$\Rightarrow\; (RA)_{IC} = (OA)_{Asc} + 90°.$$

From Section 1.3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_{Asc} - r_A) \times (SA)_A = [1 - \frac{(RA)_{IC} - (RA)_A}{90° - (AD)_A}] \times [90° - (AD)_A]$$

$$= \{\frac{[90° - (AD)_A] - [(OA)_{Asc} + 90°] + (RA)_A}{90° - (AD)_A}\} \times [90° - (AD)_A]$$

$$= 90° - (AD)_A - (OA)_{Asc} - 90° + (RA)_A = [(RA)_A - (AD)_A] - (OA)_{Asc},$$

and so

$$\text{arc of direction} = (OA)_A - (OA)_{Asc}$$

for a primary direction having the Ascendant as the fixed point.

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# 1.5 Directing in the upper western sky

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In a suitable astrological chart, consider an active-sphere point $A$ and a fixed-sphere point $F$ that lie in the upper western sky (that is, the quadrant consisting of the 7th, 8th, and 9th Houses). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a diurnal semi-arc that extends from the upper meridian (which contains the Midheaven) to the lower horizon (which contains the Descendant). Each point's angular distance along its own diurnal semi-arc is given by its meridian distance $MD$ from the upper meridian. The positive ratios

$$r_A = \frac{(MD)_A}{(SA)_A} = \frac{(RA)_{MC} - (RA)_A}{90° + (AD)_A}\,, \qquad r_F = \frac{(MD)_F}{(SA)_F} = \frac{(RA)_{MC} - (RA)_F}{90° + (AD)_F}$$

respectively give each point's proportional location along its own diurnal semi-arc.

Let's now consider the special case of the fixed point being the Descendant. Because the Descendant lies at the far endpoint of its own semi-arc, we have

$$1 = r_{Dsc} = \frac{(RA)_{MC} - (RA)_{Dsc}}{90° + (AD)_{Dsc}} \;\Rightarrow\; (RA)_{MC} - (RA)_{Dsc} = 90° + (AD)_{Dsc}$$

$$\Rightarrow\; (RA)_{MC} = (OD)_{Dsc} + 90°\,.$$

From Section 1.3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_{Dsc} - r_A) \times (SA)_A = [1 - \frac{(RA)_{MC} - (RA)_A}{90° + (AD)_A}] \times [90° + (AD)_A]$$

$$= \{\frac{[90° + (AD)_A] - [(OD)_{Dsc} + 90°] + (RA)_A}{90° + (AD)_A}\} \times [90° + (AD)_A]$$

$$= 90° + (AD)_A - (OD)_{Dsc} - 90° + (RA)_A = [(RA)_A + (AD)_A] - (OD)_{Dsc}\,,$$

and so

$$\text{arc of direction} = (OD)_A - (OD)_{Dsc}$$

for a primary direction having the Descendant as the fixed point.

# 1.6 Directing in the upper eastern sky

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In a suitable astrological chart, consider an active-sphere point $A$ and a fixed-sphere point $F$ that lie in the upper eastern sky (that is, the quadrant consisting of the 10th, 11th, and 12th Houses). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

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The active and fixed points each have a diurnal semi-arc that extends from the eastern horizon (which contains the Ascendant) to the upper meridian (which contains the Midheaven). Each point's angular distance along its own diurnal semi-arc is given by its horizonal distance $HD$ from the eastern horizon. The positive ratios

$$r_A = \frac{(HD)_A}{(SA)_A} = \frac{(OA)_{Asc} - (OA)_A}{90° + (AD)_A}\,, \qquad r_F = \frac{(HD)_F}{(SA)_F} = \frac{(OA)_{Asc} - (OA)_F}{90° + (AD)_F}$$

respectively give each point's proportional location along its own diurnal semi-arc.

Let's now consider the special case of the fixed point being the Midheaven. Because the Midheaven lies at the far endpoint of its own semi-arc, we have

$$1 = r_{MC} = -\frac{(OA)_{MC} - (OA)_{Asc}}{90° + (AD)_{MC}} \;\Rightarrow\; (OA)_{MC} - (OA)_{Asc} = -(AD)_{MC} - 90°$$

$$\Rightarrow\; (OA)_{Asc} = (RA)_{MC} + 90°\,.$$

From Section 1.3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_{MC} - r_A) \times (SA)_A = [1 - \frac{(OA)_{Asc} - (OA)_A}{90° + (AD)_A}] \times [90° + (AD)_A]$$

$$= \{\frac{[90° + (AD)_A] - [(RA)_{MC} + 90°] + (OA)_A}{90° + (AD)_A}\} \times [90° + (AD)_A]$$

$$= 90° - (RA)_{MC} - 90° + (AD)_A + (OA)_A = [(OA)_A + (AD)_A] - (RA)_{MC}\,,$$

and so

$$\text{arc of direction} = (RA)_A - (RA)_{MC}$$

for a primary direction having the Midheaven as the fixed point.

# 1.7 Directing in the lower western sky

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In a suitable astrological chart, consider an active-sphere point $A$ and a fixed-sphere point $F$ that lie in the lower western sky (that is, the quadrant consisting of the 4th, 5th, and 6th Houses). The active point lies zodiacally ahead of the fixed point, and so primary motion will direct the active point toward the fixed point.

The active and fixed points each have a nocturnal semi-arc that extends from the lower horizon (which contains the Descendant) to the lower meridian (which contains the Imum Coeli). Each point's angular distance along its own nocturnal semi-arc is given by its horizonal distance $HD$ from the lower horizon. The positive ratios

$$r_A = \frac{(HD)_A}{(SA)_A} = \frac{(OD)_{Dsc} - (OD)_A}{90° - (AD)_A}\,, \qquad r_F = \frac{(HD)_F}{(SA)_F} = \frac{(OD)_{Dsc} - (OD)_F}{90° - (AD)_F}$$

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respectively give each point's proportional location along its own nocturnal semi-arc.

Let's now consider the special case of the fixed point being the Imum Coeli. Because the Imum Coeli lies at the far endpoint of its own semi-arc, we have

$$1 = r_{IC} = -\frac{(OD)_{IC} - (OD)_{Dsc}}{90° - (AD)_{IC}} \;\Rightarrow\; (OD)_{IC} - (OD)_{Dsc} = (AD)_{IC} - 90°$$

$$\Rightarrow\; (OD)_{Dsc} = (RA)_{IC} + 90°\,.$$

From Section 1.3, the proportional semi-arc formula yields the expression

$$\text{arc of direction} = (r_{IC} - r_A) \times (SA)_A = [1 - \frac{(OD)_{Dsc} - (OD)_A}{90° - (AD)_A}] \times [90° - (AD)_A]$$

$$= \{\frac{[90° - (AD)_A] - [(RA)_{IC} + 90°] + (OD)_A}{90° - (AD)_A}\} \times [90° - (AD)_A]$$

$$= 90° - (AD)_A - (RA)_{IC} - 90° + (OD)_A = [(OD)_A - (AD)_A] - (RA)_{IC}\,,$$

and so

$$\text{arc of direction} = (RA)_A - (RA)_{IC}$$

for a primary direction having the Imum Coeli as the fixed point.

# 1.8 Time-keys

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A primary direction is associated with a predicted event, and the angular length of the associated arc of direction is related to the time when the event is predicted to occur. In order to convert the angular length into the prediction time, we need a time-key. In this section, we will examine time-keys that pertain to natal and solar-return charts. Here are the pertinent hyperlinks:

1.8.1 The Ptolemy time-key
1.8.2 The Naibod time-key
1.8.3 The Ptolemy-Naibod midpoint time-key
1.8.4 The LR time-key

Let's move on!

Let's become familiar with some basics of time measurement. The **second** is the basic unit of time measurement. One **minute** is 60 seconds, and one **hour** is 60 minutes. A **sidereal day** is the time taken by Earth to complete a single rotation relative to the fixed stars, and it consists of approximately 23 hours, 56 minutes, and 4.0905 seconds (which is about 1436.068175 minutes). A sidereal day is a few minutes short of a **mean solar day**, which is the time taken by Earth to complete a single rotation and to advance about one degree along its orbital path about Sun. A mean solar day is exactly 24 hours, and it is the basis of the 24-hour civil day.

A **sidereal year** is the time taken by Earth to complete its orbit about Sun relative to the fixed stars, and it consists of 365 mean solar days, 6 hours, 9 minutes, and 9.8 seconds (which is about

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365.256363 mean solar days). A **mean tropical year** is the time taken by Earth to complete its annual cycle of seasons, and it consists of 365 mean solar days, 5 hours, 48 minutes, and 45.1 seconds (which is about 365.242189 mean solar days).

### 1.8.1 THE PTOLEMY TIME-KEY

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The Ptolemy time-key is useful when applying the method of primary directions to a natal chart. Earth's axial rotation gives rise to primary motion. Earth takes one sidereal day (about 1436.068175 minutes) to rotate by 360° about its axis. As Earth makes its daily axial rotation, it rotates at an angular rate of about

$$\frac{360\ deg}{1436.068175\ min} \approx \frac{1\ deg}{3.98907826\ min},$$

and so it takes Earth about 3.98907826 minutes to longitudinally rotate by 01°.

The **Ptolemy time-key** (named after the Hellenistic astrologer Claudius Ptolemy) is the notion that one degree of Earth's axial rotation corresponds to one tropical year of age. Therefore, according to the Ptolemy time-key, each degree of the arc of direction corresponds to one tropical year of age. Moreover, every addition of about 3.98907826 minutes to the birth time symbolically advances the natal chart by one tropical year of age.

### 1.8.2 THE NAIBOD TIME-KEY

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The Naibod time-key is useful when applying the method of primary directions to a natal chart. From the point of view of an earthbound observer, Earth takes one mean tropical year (about 365.242189 mean solar days) to revolve by 360° about Sun. As Earth makes its yearly orbit, it moves at an angular rate of

$$\frac{360\ deg}{365.242189\ days} \approx \frac{0.985647362\ deg}{1\ day} \approx \frac{00°\ 59'\ 08.33050''}{1\ day}.$$

We may view Earth's yearly 360° orbit as a sequence of nearly 365.242189 steps, each step being about $0.985647362\ deg$.

Earth's axial rotation gives rise to primary motion. Let's liken Earth's daily axial rotation to its yearly orbital motion about Sun. More specifically, let's view Earth's daily 360° axial rotation as a sequence of nearly 365.242189 steps, each step being about $0.985647362\ deg$. The **Naibod time-key** (named after the 16th-century German astrologer Valentine Naibod) is the notion that $0.985647362\ deg$ (or $00°\ 59'\ 08.33050''$) of Earth's axial rotation corresponds to one tropical year of age. Therefore, according to the Naibod time-key, each $0.985647362\ deg$ of the arc of direction corresponds to one tropical year of age. In this regard, we find that

$$\frac{1\ yr\ of\ age}{0.985647362\ deg} \approx \frac{1.01456164\ yrs\ of\ age}{1\ deg},$$

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and so each degree of the arc of direction corresponds to about 1.01456164 tropical years of age.

It takes Earth about 3.98907826 minutes to longitudinally rotate by 01°, and so

$$0.985647362\ deg \times \frac{3.98907826\ min}{1\ deg} \approx 3.93182447\ min$$

is the time taken by Earth to longitudinally rotate by about $0.985647362\ deg$ (or 00° 59′ 08.33050″). Therefore, according to the Naibod time-key, every addition of about 3.93182447 minutes to the birth time symbolically advances the natal chart by one tropical year of age.

## 1.8.3 THE PTOLEMY-NAIBOD MIDPOINT TIME-KEY

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The **Ptolemy-Naibod midpoint time-key** is the average of the Ptolemy and Naibod time-keys. According to the Ptolemy time-key, each degree of the arc of direction corresponds to one tropical year of age. According to the Naibod time-key, each $0.985647362\ deg$ of the arc of direction corresponds to one tropical year of age. We find that

$$\frac{(1 + 0.985647362)\ deg}{2} \approx 0.992823681\ deg \approx 00°\ 59'\ 34.16525'',$$

and so according to the Ptolemy-Naibod midpoint time-key, each $0.992823681\ deg$ of the arc of direction corresponds to one tropical year of age. In this regard, we find that

$$\frac{1\ yr\ of\ age}{0.992823681\ deg} \approx \frac{1.00722819\ yrs\ of\ age}{1\ deg},$$

and so each degree of the arc of direction corresponds to about 1.00722819 tropical years of age.

It takes Earth about 3.98907826 minutes to longitudinally rotate by 01°, and so

$$0.992823681\ deg \times \frac{3.98907826\ min}{1\ deg} \approx 3.96045136\ min$$

is the time taken by Earth to longitudinally rotate by about $0.992823681\ deg$ (or 00° 59′ 34.16525″). Therefore, according to the Ptolemy-Naibod midpoint time-key, every addition of about 3.96045136 minutes to the birth time symbolically advances the natal chart by one tropical year of age.

## 1.8.4 THE SR TIME-KEY

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Primary motion is related to Earth's axial rotation, which has a time rate of

$$\frac{360\ deg}{1436.068175\ min} \approx \frac{1\ deg}{3.98907826\ min}.$$

Solar returns are related to Earth's orbital motion about Sun, which has a time rate of

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$$\frac{360\ deg}{365.242189\ days} \approx \frac{1\ deg}{1.01456164\ days}.$$

The **SR time-key** is the notion that one degree of Earth's axial rotation corresponds to one degree of Earth's orbital motion. Therefore, according to the SR time-key, each degree of the arc of direction corresponds to about 1.01456164 mean solar days of age.

Every addition of about 3.98907826 minutes to the SR time symbolically advances the SR chart by about 1.01456164 mean solar days of age. We find that

$$\frac{3.98907826\ min}{1.01456164\ days\ of\ age} \approx \frac{3.93182447\ min}{1\ day\ of\ age},$$

and so every addition of about 3.93182447 minutes to the SR time symbolically advances the SR chart by one mean solar day of age.

# 1.9 Finding primary directions

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Regarding the Ptolemy and Naibod time-keys, we see that the native's life at $A$ tropical years of age is revealed by what is happening astrologically when they are about $(4 \times A)$ minutes old. For example, the native's life at age 90 is revealed by an astrological chart that is cast for when the native is about 360 minutes old. If we take age 90 to be the human life span, then we can examine the native's entire life based on what is happening astrologically during the first 360 minutes (or 6 hours) after their birth.

Provided that **secondary motion** (that is, apparent movement along the zodiac) is negligible, we may view primary motion as causing the zodiacal belt (with the planets attached to it) to rotate backward through fixed houses of the local sky. During the 6-hour time period after birth, primary motion directs the planets into major aspects with the angles (that is, the Ascendant, the Descendant, the Midheaven, and the Imum Coeli). These major planet-to-angle aspects are primary directions.

We will limit our attention to primary directions involving major planet-to-angle aspects. As previously found in Section 1.8.3, according to the Ptolemy-Naibod midpoint time-key, every addition of about 3.96045136 minutes to the birth time symbolically advances the natal chart by one tropical year of age. This fact gives rise to the following fast and easy method for looking for natal-related primary directions:

> **Technique #PD1:** In order to examine the native's life around $A$ tropical years of age, cast symbolic charts for about $(3.96045136 \times A)$ minutes before and after the birth time. In these symbolic charts, look for major planet-to-angle aspects, taking the margin of inexactness to be about 01°. These major aspects are primary directions that each predict an event to occur in the native's life around $A$ tropical years of age.

The primary directions that are shown in the pre-birth symbolic chart are neo-converse. The primary directions that are shown in the post-birth symbolic chart are direct. The essence of this

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fast and easy method is presented by astrologer Anthony Louis in his blog post *Fast and Easy Primary Directions* (20 July 2019).

As previously found in Section 1.8.4, every addition of about 3.93182447 minutes to the SR time symbolically advances the SR chart by one mean solar day of age. This fact gives rise to the following fast and easy method for looking for SR-related primary directions:

> **Technique #PD2:** In order to examine the native's life around $D$ mean solar days after the SR date, cast symbolic charts for about $(3.93182447 \times D)$ minutes before and after the SR time. In these symbolic charts, look for major planet-to-angle aspects, taking the margin of inexactness to be about 01°. These major aspects are primary directions that each predict an event to occur in the native's life around $D$ days after the SR date.

The primary directions that are shown in the pre-SR symbolic chart are neo-converse. The primary directions that are shown in the post-SR symbolic chart are direct.

The accuracy of Techniques #PD1 and #PD2 depends on having negligible secondary motion. Moon moves at an average longitudinal speed of

$$13^\circ\, 10'35''per\ day \approx \frac{13.1763889\ deg}{24\ hr}$$

as it undergoes secondary motion along the celestial sphere. Therefore, during a 6-hour time period, Moon moves longitudinally by

$$\frac{13.1763889\ deg}{24\ hr} \times 6\ hr \approx 3.29409723\ deg \approx 03^\circ\, 17'\, 39'' ,$$

which is significant secondary motion. Therefore, we do not expect our techniques to work very well for Moon for a 6-hour period after the chart time.

Mercury is the fastest of the remaining planets. Mercury moves at an average longitudinal speed of

$$01^\circ\, 23'\, 00''\ per\ day \approx \frac{1.38333333\ deg}{24\ hr}$$

as it undergoes secondary motion along the celestial sphere. Therefore, during a 6-hour time period, Mercury moves longitudinally by

$$\frac{1.38333333\ deg}{24\ hr} \times 6\ hr \approx 0.345833333\ deg \approx 00^\circ\, 20'\, 45'' ,$$

which is about one third of a degree. On taking this amount to be negligible, our techniques work very well for each planet (other than Moon) for a 6-hour period after the chart time.

For Technique #PD2, a 6-hour real-time period corresponds to

$$D \approx \frac{360\ min}{3.93182447\ min/(days\ of\ age)} \approx 91.5605472\ days\ of\ age$$

of symbolic time, which is about 3 months. Note that one quarter of a tropical year is

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$$\frac{365.242189\ days}{4} \approx 91.3105473\ days\ ,$$

and so Technique #PD2 is valid if the value of $D$ lies in the first quarter of the SR year. For greater values of $D$, we may adapt Technique #PD2 for use with an SR-related chart that is cast for a suitable quarter of the SR year. For values of $D$ lying in the second quarter of the SR year, we would use an SRQ2 chart, which is cast for when Sun makes a dexter square to its natal location. For values of $D$ lying in the third quarter of the SR year, we would use an SRQ3 chart, which is cast for when Sun makes an opposition to its natal location. For values of $D$ lying in the fourth quarter of the SR year, we would use an SRQ4 chart, which is cast for when Sun makes a sinister square to its natal location.

**IMPORTANT COMMENTS:** Techniques #PD1 and #PD2 are tools that enable us to cast astrological charts that help us to visually find primary directions involving major planet-to-angle aspects. These techniques work well whenever secondary motion is negligible.

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# 2. My Great Spiritual Event

## 2.1 Introduction

[Back to TOC]

The astrological charts in this book are based on data provided by the websites Astrodienst (https://www.astro.com/horoscope) and Astro-Seek.com (https://www.astro-seek.com).

In this book, we will be using the tropical zodiac, Porphyry houses primarily, and whole-sign houses secondarily. As a quadrant-house system, the **Porphyry house system** uses the horizon and the meridian to divide the sky into four quadrants, each containing three houses. Moreover, the three Porphyry houses within a given quadrant are equal in angular expanse. The **whole-sign house system** is an ecliptic-based house system in which each house is tied to a single sign.

Regarding the Porphyry house system, we will be using the denotation 'PH*n*' to mean 'Porphyry House *n*' and the denotation 'PC*n*' to refer to its cusp. Note that PC1 contains the Ascendant, PC4 contains the Imum Coeli, PC7 contains the Descendant, and PC10 contains the Midheaven. The even-numbered, nonangular house cusps (that is, PC2, PC6, PC8, and PC12) have the same sign degree. Moreover, the odd-numbered, nonangular house cusps (that is, PC3, PC5, PC9, and PC11) have the same sign degree.

Regarding the whole-sign house system, we will be using the denotation 'WS*n*' to mean 'whole-sign House *n*'. In the whole-sign house system, WS1 is tied to the **rising sign** (that is, the sign of the Ascendant), WS7 is tied to the sign of the Descendant, but WS10 and WS4 are not always tied respectively to the signs of the Midheaven and the Imum Coeli.

## 2.2 Natal-related primary directions

[Back to TOC]

In May 1997, I went to Nigeria in order to get initiated into *Ifá*, which is a traditional African system of spiritual cultivation. The prominent day of my initiation period was Thursday, 22 May 1997. In this section, we will use Technique #PD1 (of Section 1.9) together with hindsight in order to see how my spiritual initiation shows up astrologically with respect to my natal chart (Figure 2.2.0).

By Thursday, 22 May 1997 (the prominent initiation day), I had lived through 11 leap days (namely, those of 1956, 1960, 1964, 1968, 1972, 1976, 1980, 1984, 1988, 1992, and 1996). It follows that during my initiation period, my tropical age was about

$$\frac{[(11 \times 366) + (31 \times 365) + 23 + 30 + 22]\ days}{365.242189\ days/yr} \approx 42.2076104\ yrs\ .$$

On applying Technique #PD1 for $A \approx 42.2076104$, we get

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$$(3.96045136 \times A)\ min \approx 167.161188\ min \approx 2\ hr + 47\ min + 10\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 2.2.0).

## FIGURE 2.2.0: My natal chart

| | | | | |
|---|---|---|---|---|
| Ma 07:11<br>(PC12) 21:22<br>WS12 TA | (PC11) 13:08<br>WS11 AR | (PC10) 04:53<br>Su 17:21<br>WS10 PI | Ve 04:28<br>(PC9) 13:08<br>Me 20:02<br>WS9 AQ | (PC8) 21:22<br>WS8 CP |
| (PC1) 29:37<br>WS1 GE | **Aakhut Em Bak**<br>Natal Chart (Tropical Zodiac)<br>Tuesday, 08 MAR 1955 at 11:15 CST<br>Chicago, IL (41° 51′ N; 87° 39′ W) | | | (PC7) 29:37<br>WS7 SA |
| Ju 19:59 R<br>(PC2) 21:22<br>Ur 23:50 R<br>WS2 CN | (PC3) 13:08<br>Pl 25:02 R<br>WS3 LE | (PC4) 04:53<br>Mo 18:08<br>WS4 VI | (PC5) 13:08<br>Ne 27:51 R<br>WS5 LI | Sa 21:07 R<br>(PC6) 21:22<br>WS6 SC |

Let's continue applying Technique #PD1 by casting pertinent pre-birth and post-birth symbolic charts. Here are the pertinent hyperlinks:

2.2.1 The pre-birth symbolic chart
2.2.2 The post-birth symbolic chart

Let's move on!

## 2.2.1 THE PRE-BIRTH SYMBOLIC CHART

[Back to Section 2.2]

For the pre-birth symbolic chart (FIGURE 2.2.1), we subtract the chart-change term (2 hours, 47 minutes, and 10 seconds) from my birth time (Tuesday, 08 March 1955 at 11:15 CST), thereby getting 08:27:50 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, there is a Uranus-PC4 conjunction. This aspect is a neo-converse primary direction.

Let's look at the Uranus-PC4 conjunction. For Uranus, we find the following:

> **Uranus in Cancer:** Uranus is nobly expressed whenever one takes insightful action in order to open the way for wholesome change. At her best, feminine Cancer safeguards those who are near and dear. Natal Uranus lies in the intersection of PH2 and Cancer WS2, both houses referring to supportive persons or things. Pre-birth Uranus lies in the intersection of PH4 (a

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secure footing) and Cancer WS3 (community). In light of the foregoing, Uranus refers to my spiritual initiation as being supportive to my efforts to secure a good footing in life for myself and others.

The Uranus-PC4 conjunction appears in the pre-birth symbolic chart, and it refers to a blending of the agendas of Uranus and PC4 (a secure footing).

## FIGURE 2.2.1: Pre-birth symbolic chart

| | | | | |
|---|---|---|---|---|
| (PC12) 05:15<br>WS12 AR | Su 17:14<br>WS11 PI | Ve 04:20<br>Me 19:56<br>(PC11) 29:07<br>WS10 AQ | (PC10) 22:59<br>WS9 CP | (PC8) 05:15<br>(PC9) 29:07<br>WS8 SA |
| Ma 07:06<br>(PC1) 11:23<br>WS1 TA | **Aakhut Em Bak**<br>Pre-Birth Symbolic Chart (Tropical)<br>Tuesday, 08 MAR 1955 at 08:27:50 CST<br>Chicago, IL (41° 51′ N; 87° 39′ W) | | | (PC7) 11:23<br>Sa 21:07 R<br>WS7 SC |
| (PC2) 05:15<br>(PC3) 29:07<br>WS2 GE | Ju 19:59 R<br>(PC4) 22:59<br>Ur 23:50 R<br>WS3 CN | Pl 25:03 R<br>(PC5) 29:07<br>WS4 LE | Mo 16:38<br>WS5 VI | (PC6) 05:15<br>Ne 27:51 R<br>WS6 LI |

Let's use Technique #PD1 to get a prediction date for my spiritual initiation. In the pre-birth symbolic chart, the Uranus-PC4 conjunction is a conjunction between Uranus and the Imum Coeli (in PC4). Let's examine this conjunction in the absence of secondary motion. Uranus's natal ecliptic longitude is 113° 50′ 43″. The Imum Coeli's ecliptic longitude takes on this value at about 08:31:24 CST on my birth date. From 08:31:24 CST (the conjunction moment) to 11:15 CST (my birth moment), the chart-time difference is

$$\text{elapsed time} = 2\ hr + 43\ min + 36\ sec = 163.600000\ min\ .$$

On making use of Technique #PD1, this chart-time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1\ yr\ of\ age}{3.96045136\ min} \times 163.600000\ min \approx 41.3084230\ yrs$$

$$= 41\ yrs + (0.3084230\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 41\ yrs + 112.649092\ days\ .$$

Therefore, according to Technique #PD1, the neo-converse Uranus-PC4 conjunction predicts an event to occur about 113 days after Friday, 08 March 1996 (Day 68 of 1996; my 41st birthday), which is on Saturday, 29 June 1996 (Day 181 of 1996). This prediction date is 327 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

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## 2.2.2 THE POST-BIRTH SYMBOLIC CHART

[Back to Section 2.2]

For the post-birth symbolic chart (FIGURE 2.2.2), we add the chart-change term (2 hours, 47 minutes, and 10 seconds) to my birth time (Tuesday, 08 March 1955 at 11:15 CST), thereby getting 14:02:10 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Mercury-PC10 sextile, a Venus-PC7 conjunction, and a Jupiter-PC10 square. These aspects are direct primary directions.

### FIGURE 2.2.2: Post-birth symbolic chart

| | | | | |
|---|---|---|---|---|
| Ju 19:59 R<br>Ur 23:50 R<br><br>WS12 CN | (PC12) 29:41<br><br>WS11 GE | Ma 07:15<br>(PC11) 24:56<br><br>WS10 TA | (PC10) 20:11<br><br>WS9 AR | Su 17:28<br>(PC9) 24:56<br><br>WS8 PI |
| (PC1) 04:25<br>Pl 25:02 R<br>(PC2) 29:41<br><br>WS1 LE | **Aakhut Em Bak**<br>Post-Birth Symbolic Chart (Tropical)<br>Tuesday, 08 MAR 1955 at 14:02:10 CST<br>Chicago, IL (41° 51′ N; 87° 39′ W) | | | (PC7) 04:25<br>Ve 04:36<br>Me 20:08<br>(PC8) 29:41<br>WS7 AQ |
| Mo 19:39<br>(PC3) 24:56<br><br>WS2 VI | (PC4) 20:11<br>Ne 27:51 R<br><br>WS3 LI | Sa 21:07 R<br>(PC5) 24:56<br><br>WS4 SC | (PC6) 29:41<br><br>WS5 SA | <br><br><br>WS6 CP |

Regarding the direct primary directions, we will limit our attention to the Mercury-PC10 sextile. For Mercury, we find the following:

> **Mercury in Aquarius:** Mercury is the natural representative of clever action, speech, and expertise. At his best, masculine Aquarius is unselfish and makes improvements for the common good. Natal Mercury is the lord of PH1 (the native) and PH4 (a secure footing), and it lies in the intersection of PH9 and Aquarius WS9, both houses referring to spiritual know-how. Post-birth Mercury is the lord of PH3 (community) and PH12 (trying situations), and it lies in the intersection of PH7 and Aquarius WS7, both houses referring to partnerships. In light of the foregoing, Mercury refers to me as using spiritual know-how to secure a good footing in life for myself and others.

The Mercury-PC10 sextile appears in the post-birth chart, and it refers to Mercury as being helpful to PC10 (achieving something significant; gaining prestige).

Let's use Technique #PD1 to get a prediction date for my spiritual initiation. In the post-birth symbolic chart, the Mercury-PC10 sextile is a conjunction between Mercury's sinister-sextile copy

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(MSSC) and the Midheaven (in PC10). Let's examine this conjunction in the absence of secondary motion. MSSC's natal ecliptic longitude is 20° 02′ 20″. The Midheaven's ecliptic longitude takes on this value at about 14:01:37 CST on my birth date. From 11:15 CST (my birth moment) to 14:01:37 CST (the conjunction moment), the chart-time difference is

$$\text{elapsed time} = 2\ hr + 46\ min + 37\ sec \approx 166.616667\ min\ .$$

On making use of Technique #PD1, this chart-time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1\ yr\ of\ age}{3.96045136\ min} \times 166.616667\ min \approx 42.0701208\ yrs$$

$$= 42\ yrs + (0.0701208\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 42\ yrs + 25.6110745\ days\ .$$

Therefore, according to Technique #PD1, the direct Mercury-PC10 sextile predicts an event to occur about 26 days after Saturday, 08 March 1997 (Day 67 of 1997; my 42nd birthday), which is on Thursday, 03 April 1997 (Day 93 of 1997). This prediction date is 49 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

# 2.3 The direct Mercury-PC10 sextile

[Back to TOC]

In Section 2.2, we found that my spiritual initiation shows up astrologically as the natal-related Mercury-PC10 sextile. The Mercury-PC10 sextile is a direct primary direction in which Mercury's sinister-sextile copy (MSSC) is the active promissor and the Midheaven (in PC10) is the fixed significator.

In the natal chart (FIGURE 2.2.0), both MSSC and the Midheaven lie in the upper eastern sky. From Section 1.6, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC}\ ,$$

where the subscript $P$ refers to the promissor. Here are hyperlinks that pertain to calculating the arc of direction:

2.3.1 Calculating the obliquity
2.3.2 Dealing with the promissor
2.3.3 Dealing with the significator
2.3.4 Getting the prediction date

Let's move on!

## 2.3.1 CALCULATING THE OBLIQUITY

[Back to Section 2.3]

Let's calculate the pertinent obliquity value. Between my birth time (Tuesday, 08 March 1955 at 11:15 CST, or 17:15 UTC) and the epoch J2000.0 (Saturday, 01 January 2000 at approximately 12:00 UTC), the elapsed time in Julian years is approximately

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$$\frac{[(11 \times 366) + (34 \times 365) - (\frac{5.25}{24} + 8 + 28 + 30)]\ days}{365.25\ days/yr} \approx 44.8180185\ yrs\ ,$$

and so the signed number of Julian centuries since the epoch J2000.0 is

$$T \approx -\frac{44.8180185\ yrs}{100\ yrs} = -0.448180185\ .$$

On making use of the obliquity formula in Section 1.1, we get

$$\varepsilon \approx 23^\circ\ 26'\ 21.406'' - 46.836769'' \times (-0.448180185)$$

$$\approx 23^\circ\ 26'\ 21.406'' + 20.9913118'' = 23^\circ\ 26'\ 42.3973118'' \approx 23.44511^\circ\ .$$

Note that $T$ is positive for dates after the epoch and negative for dates before the epoch.

## 2.3.2 DEALING WITH THE PROMISSOR

[Back to Section 2.3]

Let's use pertinent formulas of Section 1.1 to deal with Jupiter's dexter-square copy (JDSC). In the natal chart (FIGURE 2.2.0), Mercury is at Aquarius 20° 02′ 20″ with an ecliptic latitude of $-00^\circ\ 16'\ 29''$. MSSC is at Aries 20° 02′ 20″ with a Bianchini ecliptic latitude of $(-00^\circ\ 16'\ 29'') \times \cos 60^\circ = -00^\circ\ 08'\ 14.5''$. Therefore, we have

$$\lambda_P = 20^\circ\ 02'\ 20'' \approx 20.03889^\circ\ , \qquad \beta_P = -00^\circ\ 08'\ 14.5'' \approx -0.13736^\circ\ .$$

We find that MSSC's declination is

$$\delta_P = \arcsin(\sin\varepsilon \times \cos\beta_P \times \sin\lambda_P + \cos\varepsilon \times \sin\beta_P)$$

$$\approx \arcsin[\sin 23.44511^\circ \times \cos(-0.13736^\circ) \times \sin 20.03889^\circ$$

$$+ \cos 23.44511^\circ \times \sin(-0.13736^\circ)]$$

$$\approx +7.70852^\circ\ .$$

The equinoctial distance here is

$$(ED)_P = \arccos(\frac{\cos\beta_P \times \cos\lambda_P}{\cos\delta_P}) \approx \arccos[\frac{\cos(-0.13736) \times \cos 20.03889^\circ}{\cos(+7.70852^\circ)}]$$

$$\approx 18.55392^\circ\ .$$

Because $\lambda_P < 180^\circ$, we get $(RA)_P = (ED)_P \approx 18.55392^\circ$ as MSSC's right ascension.

## 2.3.3 DEALING WITH THE SIGNIFICATOR

[Back to Section 2.3]

Let's use pertinent formulas of Section 1.1 to deal with the Midheaven. In the natal chart (FIGURE 2.2.0), the Midheaven is at Pisces 04° 53′ 20″ with an ecliptic latitude of 0° exactly. Therefore, we have

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$$\lambda_{MC} = 334° 53' 20'' \approx 334.88889° , \qquad \beta_{MC} = 0° .$$

We find that the Midheaven's declination is

$$\delta_{MC} = \arcsin(\sin\varepsilon \times \cos\beta_{MC} \times \sin\lambda_{MC} + \cos\varepsilon \times \sin\beta_{MC})$$
$$\approx \arcsin(\sin 23.44511° \times \cos 0° \times \sin 334.88889° + \cos 23.44511° \times \sin 0°)$$
$$\approx -9.72074° .$$

The equinoctial distance here is

$$(ED)_{MC} = \arccos(\frac{\cos\beta_{MC} \times \cos\lambda_{MC}}{\cos\delta_{MC}}) \approx \arccos[\frac{\cos 0° \times \cos 334.88889°}{\cos(-9.72074°)}]$$
$$\approx 23.26664° .$$

Because $\lambda_{MC} > 180°$, we get $(RA)_{MC} = 360° - (ED)_{MC} \approx 336.73336°$ as the Midheaven's right ascension.

## 2.3.4 GETTING THE PREDICTION DATE

[Back to Section 2.3]

For the direct Mercury-PC10 sextile, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC} \approx 18.55392° - 336.73336° = -318.17944°$$
$$\equiv -318.17944° + 360° = 41.82056° .$$

Note that this difference must be positive because MSSC is zodiacally ahead of the Midheaven. According to the Ptolemy-Naibod midpoint time-key, the arc here indicates

$$41.82056\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 42.12285\ yrs\ of\ age$$
$$= 42\ yrs + (0.12285\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 42\ yrs + 44.87000\ days ,$$

and so the direct Mercury-PC10 sextile predicts an event to occur about 45 days after Saturday, 08 March 1997 (Day 67 of 1997; my 42nd birthday), which is on Tuesday, 22 April 1997 (Day 112 of 1997). This prediction date is 30 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

Our calculation of the arc of direction has been performed **in mundo**, which means that we have taken ecliptic latitude into account. Some astrologers perform this calculation **in zodaico**, which means that they don't take ecliptic latitude into account. Ignoring ecliptic latitude amounts to taking all $\beta$-values to be 0°.

On performing in-zodiaco calculations for MSSC, we find that

$$\delta_P = \arcsin(\sin\varepsilon \times \sin\lambda_P) \approx +7.83573° ,$$

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$$(RA)_P = (ED)_P = \arccos(\frac{\cos\lambda_P}{\cos\delta_P}) \approx 18.50163° .$$

On performing in-zodiaco calculations for the Midheaven, we get the corresponding in-mundo results because we truly have $\beta_{MC} = 0°$.

For the direct Mercury-PC10 sextile in zodaico, we get

$$\text{arc of direction} = (RA)_P - (RA)_{MC} \approx 18.50163° - 336.73336° = -318.23173°$$
$$\equiv -318.23173° + 360° = 41.76827° .$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$41.76827\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 42.07018\ yrs\ of\ age$$
$$= 42\ yrs + (0.07018\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 42\ yrs + 25.63270\ days ,$$

and so direct Mercury-PC10 sextile predicts an event to occur about 26 days after Saturday, 08 March 1997 (Day 67 of 1997; my 42nd birthday), which is on Thursday, 03 April 1997 (Day 93 of 1997). This prediction date is 49 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day). Note that Technique #PD1 and the in-zodiaco calculations have yielded the same prediction date.

## 2.4 SR-related primary directions

[Back to TOC]

In May 1997, I went to Nigeria in order to get initiated into *Ifá*, which is a traditional African system of spiritual cultivation. The prominent day of my initiation period was Thursday, 22 May 1997. Having found pertinent natal-related primary directions in Section 2.2, it is now legitimate to look for pertinent SR-related primary directions. In this section, we will use Technique #PD2 (of Section 1.9) together with hindsight in order to see how my spiritual initiation shows up astrologically with respect to my 1997 solar-return chart.

On Saturday, 08 March 1997, I reached age 42. Sun reached its natal ecliptic longitude (347° 21′ 51″) on Friday, 07 March 1997 at 15:44:30 CST (the SR time). FIGURE 2.4a presents my 1997 SR chart. From the SR date to Thursday, 22 May 1997 (my prominent initiation day), there are 76 mean solar days. On applying Technique #PD2 for $D = 76$, we get

$$(3.93182447 \times D)\ min \approx 298.818660\ min \approx 4\ hr + 58\ min + 49\ sec$$

as the chart-change term with respect to the SR chart (FIGURE 2.4.0).

Let's continue applying Technique #PD2 by casting pertinent pre-SR and post-SR symbolic charts. Here are the pertinent hyperlinks:

2.4.1 The pre-SR symbolic chart
2.4.2 The post-SR symbolic chart

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Let’s move on!

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## FIGURE 2.4.0: My 1997 SR chart

| | | | | |
|---|---|---|---|---|
| (PC12) 21:39<br>WS12 CN | (PC11) 19:07<br>WS11 GE | (PC10) 16:35<br>WS10 TA | Sa 07:23<br>(PC9) 19:07<br>WS9 AR | Mo 01:07<br>Ve 10:54<br>Me 13:58<br>Su 17:21<br>WS8 PI |
| (PC1) 24:11<br>WS1 LE | **Aakhut Em Bak**<br>Solar-Return Chart for Age 42 (Tropical)<br>Friday, 07 MAR 1997 at 15:44:30 CST<br>Chicago, IL (41° 51′ N; 87° 39′ W) | | | Ur 06:57<br>Ju 10:17<br>(PC7) 24:11<br>WS7 AQ |
| (PC2) 21:39<br>WS2 VI | Ma 00:19 R<br>(PC3) 19:07<br>WS3 LI | (PC4) 16:35<br>WS4 SC | Pl 05:36 st<br>(PC5) 19:07<br>WS5 SA | (PC6) 21:39<br>Ne 29:09<br>WS6 CP |

### 2.4.1 THE PRE-SR SYMBOLIC CHART

[Back to Section 2.4]

For the pre-SR symbolic chart (FIGURE 2.4.1), we subtract the chart-change term (4 hours, 58 minutes, and 49 seconds) from the SR time (Friday, 07 March 1997 at 15:44:30 CST), thereby getting 10:45:41 CST on the SR date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Moon-PC10 conjunction. This aspect is a neo-converse primary direction.

Let's look at the Moon-PC10 conjunction. For Moon, we find the following:

> **Moon:** Moon is the natural representative of nurturers and stages of change. SR Moon lies in the intersection of PH7 (partnerships) and Pisces WS8 (an ending that facilitates transformation). At her best, feminine Pisces is resilient and shows kindly concern for others. Pre-SR Moon lies in the intersection of PH10 (achieving something significant; gaining prestige) and Aquarius WS9 (spiritual know-how). At his best, masculine Aquarius is unselfish and makes improvements for the common good. In light of the foregoing, Moon refers to me as partnering with others in order to bring forth spiritual transformation for the common good.

The Moon-PC10 conjunction appears in the pre-SR symbolic chart, and it refers to Moon as being helpful to PC10 (achieving something significant; gaining prestige).

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## FIGURE 2.4.1: Pre-SR symbolic chart

| | | | | |
|---|---|---|---|---|
| (PC12) 13:59<br>WS12 TA | Sa 07:22<br>(PC11) 05:29<br>WS11 AR | Ve 10:39<br>Me 13:35<br>Su 17:09<br>WS10 PI | Ur 06:56<br>Ju 10:14<br>(PC10) 26:59<br>Mo 27:59<br>WS9 AQ | (PC8) 13:59<br>Ne 29:08<br>WS8 CP |
| (PC1) 22:28<br>WS1 GE | **Aakhut Em Bak**<br>Pre-SR Symbolic Chart (Tropical)<br>Friday, 07 MAR 1997 at 10:45:41 CST<br>Chicago, IL (41° 51′ N; 87° 39′ W) | | | Pl 05:36 st<br>(PC7) 22:28<br>WS7 SA |
| (PC2) 13:59<br>WS2 CN | (PC3) 05:29<br>(PC4) 26:59<br>WS3 LE | WS4 VI | Ma 00:24 R<br>(PC5) 05:29<br>WS5 LI | (PC6) 13:59<br>WS6 SC |

Let's use Technique #PD2 to get a prediction date for my spiritual initiation. The Moon-PC10 conjunction is a conjunction between Moon and the Midheaven (in PC10). Let's examine this conjunction in the absence of secondary motion. Moon's SR ecliptic longitude is 331° 07′ 58″. The Midheaven's ecliptic longitude takes on this value at about 11:01:29 CST on the SR date. From 11:01:29 CST (the conjunction moment) to 15:44:30 CST (the SR moment), the chart-time difference is

$$\text{elapsed time} = 4\ hr + 43\ min + 1\ sec \approx 283.016667\ min\ .$$

On making use of Technique #PD2, this chart-time difference corresponds to an age difference of

$$\text{elapsed age} \approx \frac{1\ day\ of\ age}{3.93182447\ min} \times 283.016667\ min \approx 71.9810025\ days\ .$$

Therefore, according to Technique #PD2, the neo-converse Moon-PC10 conjunction predicts an event to occur about 72 days after Friday, 07 March 1997 (Day 66 of 1997; the SR date), which is on Sunday, 18 May 1997 (Day 138 of 1997). This prediction date is 4 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

## 2.4.2 THE POST-SR SYMBOLIC CHART

[Back to Section 2.4]

For the post-SR symbolic chart, we add the chart-change term (4 hours, 58 minutes, and 49 seconds) to the SR time (Friday, 07 March 1997 at 15:44:30 CST), thereby getting 20:43:19 CST on the SR date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find nothing.

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# 2.5 The converse Moon-PC10 conjunction

[Back to TOC]

In Section 2.4, we found that my spiritual initiation shows up astrologically as the SR-related Moon-PC10 conjunction. The Moon-PC10 conjunction is a converse primary direction in which Moon is the promissor and the Midheaven (in PC10) is the significator. In the SR chart (FIGURE 2.4.0), both Moon and the Midheaven lie in the upper western sky.

If we take the Moon-PC10 conjunction to be traditionally converse, then the Midheaven is the active significator and Saturn is the fixed promissor. From Sections 1.3 and 1.5, we find that

$$\text{arc of direction} = (r_P - r_{MC}) \times (SA)_{MC}$$

where $(SA)_{MC} = 90° + (AD)_{MC}$ and

$$r_P = \frac{(RA)_{MC} - (RA)_P}{90° + (AD)_P}, \qquad r_{MC} = \frac{(RA)_{MC} - (RA)_{MC}}{90° + (AD)_{MC}} = 0\,.$$

It follows that

$$\text{arc of direction} = [(RA)_{MC} - (RA)_P] \times \frac{90° + (AD)_{MC}}{90° + (AD)_P}.$$

Note that the subscript $P$ refers to the promissor.

If we take the Moon-PC10 conjunction to be neo-converse, then we look at the what-if situation of reversed primary motion directing an active promissor (Moon) toward a fixed significator (the Midheaven). In this what-if situation, the arc of direction extends from Moon toward the Midheaven, and its angular length is the meridian distance $(RA)_{MC} - (RA)_P$. That is, we have

$$\text{arc of direction} = (RA)_{MC} - (RA)_P\,,$$

where the subscript $P$ refers to the promissor. The Moon-PC10 conjunction appearing in the pre-SR symbolic chart (FIGURE 2.4.1) is a neo-converse primary direction.

Here are hyperlinks that pertain to calculating the arc of direction:

2.5.1 Calculating the obliquity
2.5.2 Dealing with the promissor
2.5.3 Dealing with the significator
2.5.4 Getting the prediction date

Let's move on!

## 2.5.1 CALCULATING THE OBLIQUITY

[Back to Section 2.5]

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Let's calculate the pertinent obliquity value. Between the SR time (Friday, 07 March 1997 at 15:44:30 CST, or 21:44:30 UTC) and the epoch J2000.0 (Saturday, 01 January 2000 at approximately 12:00 UTC), the elapsed time in Julian years is approximately

$$\frac{[3 \times 365 - (\frac{9.75}{24} + 7 + 28 + 30)]\ days}{365.25\ days/yr} \approx 2.81887406\ yrs\ ,$$

and so the signed number of Julian centuries since the epoch J2000.0 is

$$T \approx -\frac{2.81887406\ yrs}{100\ yrs} = -0.281887406\ .$$

On making use of the obliquity formula in Section 1.1, we get

$$\varepsilon \approx 23^\circ\ 26'\ 21.406'' - 46.836769'' \times (-0.281887406)$$

$$\approx 23^\circ\ 26'\ 21.406'' + 13.2026953'' = 23^\circ\ 26'\ 34.6086953'' \approx 23.44295^\circ\ .$$

Note that $T$ is positive for dates after the epoch and negative for dates before the epoch.

## 2.5.2 DEALING WITH THE PROMISSOR

[Back to Section 2.5]

Let's use pertinent formulas of Section 1.1 to deal with Moon. In the SR chart (FIGURE 2.4.0), Moon is at Pisces 01° 07′ 58″ with an ecliptic latitude of +02° 27′ 11″. Therefore, we have

$$\lambda_P = 331^\circ\ 07'\ 58'' \approx 331.13278^\circ\ , \qquad \beta_P = +02^\circ\ 27'\ 11'' \approx +2.45306^\circ\ .$$

We find that Moon's declination is

$$\delta_P = \arcsin(\sin\varepsilon \times \cos\beta_P \times \sin\lambda_P + \cos\varepsilon \times \sin\beta_P)$$

$$\approx \arcsin[\sin 23.44295^\circ \times \cos(+2.45306^\circ) \times \sin 331.13278^\circ$$

$$+ \cos 23.44295^\circ \times \sin(+2.45306^\circ)]$$

$$\approx -8.77901^\circ\ .$$

The equinoctial distance here is

$$(ED)_P = \arccos(\frac{\cos\beta_P \times \cos\lambda_P}{\cos\delta_P}) \approx \arccos[\frac{\cos(+2.45306^\circ) \times \cos 331.13278^\circ}{\cos(-8.77901^\circ)}]$$

$$\approx 27.71026^\circ\ .$$

Because $\lambda_P > 180^\circ$, we get $(RA)_P = 360^\circ - (ED)_P \approx 332.28974^\circ$ as Moon's right ascension. My geographic latitude of birth is $\Phi = 41^\circ\ 51'\ N = +41.85^\circ$. We find that

$$(AD)_P = \arcsin(\tan\delta_P \times \tan\Phi) \approx \arcsin[\tan(-8.77901^\circ) \times \tan(+41.85^\circ)]$$

$$\approx -7.95075^\circ$$

is Moon's ascensional difference.

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## 2.5.3 DEALING WITH THE SIGNIFICATOR

[Back to Section 2.5]

Let's use pertinent formulas of Section 1.1 to deal with the Midheaven. In the SR chart (FIGURE 2.4.0), the Midheaven is at Taurus 16° 35′ 07″ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{MC} = 46° 35′ 07″ \approx 46.58528° , \qquad \beta_{MC} = 0° .$$

We find that the Midheaven's declination is

$$\delta_{MC} = \arcsin(\sin\varepsilon \times \cos\beta_{MC} \times \sin\lambda_{MC} + \cos\varepsilon \times \sin\beta_{MC})$$
$$\approx \arcsin(\sin 23.44295° \times \cos 0° \times \sin 46.58528° + \cos 23.44295° \times \sin 0°)$$
$$\approx +16.79733° .$$

The equinoctial distance here is

$$(ED)_{MC} = \arccos(\frac{\cos\beta_{MC} \times \cos\lambda_{MC}}{\cos\delta_{MC}}) \approx \arccos[\frac{\cos 0° \times \cos 46.58528°}{\cos(+16.79733°)}]$$
$$\approx 44.11821° .$$

Because $\lambda_{MC} < 180°$, we get $(RA)_{MC} = (ED)_{MC} \approx 44.11821°$ as the Midheaven's right ascension. My geographic latitude of birth is $\Phi = 41° 51′ N = +41.85°$. We find that

$$(AD)_{MC} = \arcsin(\tan\delta_{MC} \times \tan\Phi) \approx \arcsin[\tan(+16.79733°) \times \tan(+41.85°)]$$
$$\approx 15.68656°$$

is the Midheaven's ascensional difference.

## 2.5.4 GETTING THE PREDICTION DATE

[Back to Section 2.5]

For the converse Moon-PC10 conjunction, we find that

$$(RA)_{MC} - (RA)_P \approx 44.11821° - 332.28974° = -288.17153°$$
$$\equiv -288.17153° + 360° = 71.82847° .$$

Note that this difference must be positive because the Midheaven is zodiacally ahead of Moon.

If we take the Moon-PC10 conjunction to be traditionally converse, then

$$\text{arc of direction} = [(RA)_{MC} - (RA)_P] \times \frac{90° + (AD)_{MC}}{90° + (AD)_P}$$
$$\approx 71.82847° \times \frac{90° + 15.68656°}{90° + (-7.95075°)} \approx 92.52131° .$$

According to the SR time-key, this arc indicates

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$$92.52131\ deg \times \frac{1.01456164\ days\ of\ age}{1\ deg} \approx 93.86857\ days\ of\ age\ ,$$

and so the traditionally converse Moon-PC10 conjunction predicts an event to occur about 94 days after Friday, 07 March 1997 (Day 66 of 1997; the SR date), which is on Monday, 09 June 1997 (Day 160 of 1997). This prediction date is 18 days after Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

If we take the Moon-PC10 conjunction to be neo-converse, then

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \approx 71.82847°\ .$$

According to the SR time-key, this arc indicates

$$71.82847\ deg \times \frac{1.01456164\ days\ of\ age}{1\ deg} \approx 72.87441\ days\ of\ age\ ,$$

and so the neo-converse Moon-PC10 conjunction predicts an event to occur about 73 days after Friday, 07 March 1997 (Day 66 of 1997; the SR date), which is on Monday, 19 May 1997 (Day 139 of 1997). This prediction date is 3 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day).

On performing in-zodiaco calculations for Moon, we find that

$$\delta_P = \arcsin(\sin\varepsilon \times \sin\lambda_P) \approx -11.07348°\ ,$$

$$(ED)_P = \arccos(\frac{\cos\lambda_P}{\cos\delta_P}) \approx 26.82931°\ , \qquad (RA)_P = 360° - (ED)_P \approx 333.17069°\ ,$$

$$(AD)_P = \arcsin(\tan\delta_P \times \tan\Phi) \approx -10.09576°\ .$$

On performing in-zodiaco calculations for the Midheaven, we get the corresponding in-mundo results because we truly have $\beta_{MC} = 0°$.

For the neo-converse Moon-PC10 conjunction in zodiaco, we get

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \approx 44.11821° - 333.17069°$$

$$\approx -289.05248° \equiv -289.05248° + 360° = 70.94752°\ .$$

According to the SR time-key, this arc indicates

$$70.94752\ deg \times \frac{1.01456164\ days\ of\ age}{1\ deg} \approx 71.98063\ days\ of\ age\ ,$$

and so the neo-converse Moon-PC10 conjunction predicts an event to occur about 72 days after Friday, 07 March 1997 (Day 66 of 1997; the SR date), which is on Sunday, 18 May 1997 (Day 138 of 1997). This prediction date is 4 days before Thursday, 22 May 1997 (Day 142 of 1997; my prominent initiation day). Note that Technique #PD2 and the in-zodiaco calculations have yielded the same prediction date.

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# 3. BIRTH-TIME RECTIFICATION

## 3.1 Getting some primary directions

[Back to TOC]

The verb 'rectify' means 'to make right'. **Birth-time rectification** is the process of adjusting the native's birth time so that suitable planetary patterns coincide with actual life events. In this regard, we will be taking 'suitable planetary patterns' to mean major planet-to-angle primary directions according to Technique #PD1 of Section 1.9.

### FIGURE 3.1: King's natal chart again

| | | | | |
|---|---|---|---|---|
| Ur 03:57<br>(PC12) 08:36<br><br>WS12 AR | (PC11) 03:24<br>Ve 10:33<br>Mo 19:35<br><br>WS11 PI | Me 11:45<br><br>WS10 AQ | (PC9) 03:24<br>Su 25:08<br>(PC10) 28:12<br><br>WS9 CP | (PC8) 08:36<br>Sa 25:21<br><br>WS8 SA |
| Ju 01:10<br>(PC1) 13:48<br><br>WS1 TA | **Martin Luther King Jr.**<br>Natal Chart (Tropical Zodiac)<br>Tuesday, 15 JAN 1929 at 12:00 CST<br>Atlanta, GA (33° 45′ N; 84° 23′ W) | | | (PC7) 13:48<br><br>WS7 SC |
| (PC2) 08:36<br>Ma 21:53 R<br><br>WS2 GE | (PC3) 03:24<br>Pl 17:08 R<br>(PC4) 28:12<br><br>WS3 CN | WS4 LE | Ne 00:53 R<br>(PC5) 03:24<br><br>WS5 VI | (PC6) 08:36<br><br>WS6 LI |

FIGURE 3.1 presents the natal chart of Martin Luther King Jr., who was a civil-rights leader who campaigned against racial injustice in America. In order to rectify King's birth time, we will consider three particular events in his life: Event #K1 (King's wedding day in 1953), Event #K2 (King's DC speech in 1963), and Event #K3 (King's passing in 1968). We will look for how these events show up astrologically via major planet-to-angle primary directions.

Here are the pertinent hyperlinks:

3.1.1 Event #K1 (King's wedding day in 1953)
3.1.2 Event #K2 (King's DC speech in 1963)
3.1.3 Event #K3 (King's passing in 1968)

Let's move on!

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### 3.1.1 EVENT #K1 (King's wedding day in 1953)

[Back to Section 3.1]

On Thursday, 18 June 1953, Martin Luther King Jr. married Coretta Scott, who would later become a civil-rights leader in her own right. By this date, King had lived through 6 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, and 1952). It follows that on his wedding day, King's tropical age was about

$$\frac{[(6 \times 366) + (18 \times 365) + 16 + 28 + 31 + 30 + 31 + 18]\ days}{365.242189\ days/yr}$$

$$\approx 24.4221513\ yrs\ .$$

On applying Technique #PD1 for $A \approx 24.4221513$, we get

$$(3.96045136 \times A)\ min \approx 96.7227423\ min \approx 1.61204571\ hrs$$

$$\approx 1\ hr + 36\ min + 43\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1).

For the pre-birth symbolic chart, we subtract the chart-change term (1 hour, 36 minutes, and 43 seconds) from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 10:23:17 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find nothing.

For the post-birth symbolic chart, we add the chart-change term (1 hour, 36 minutes, and 43 seconds) to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 13:36:43 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Mercury-PC1 trine and a Mars-PC10 trine. These aspects are direct primary directions.

### 3.1.2 EVENT #K2 (King's DC speech in 1963)

[Back to Section 3.1]

On Wednesday, 28 August 1963, Martin Luther King Jr. delivered his famous "I Have A Dream" speech during the March on Washington for Jobs and Freedom. By this date, King had lived through 8 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, 1952, 1956, and 1960). It follows that on the date of his speech, King's tropical age was about

$$\frac{[(8 \times 366) + (26 \times 365) + 16 + 28 + 31 + 30 + 31 + 30 + 31 + 28]\ days}{365.242189\ days/yr}$$

$$\approx 34.6153878\ yrs\ .$$

On applying Technique #PD1 for $A \approx 34.6153878$, we get

$$(3.96045136 \times A)\ min \approx 137.092560\ min \approx 2.28487600\ hrs$$

$$\approx 2\ hr + 17\ min + 6\ sec$$

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as the chart-change term with respect to the natal chart (FIGURE 3.1).

For the pre-birth symbolic chart, we subtract the chart-change term (2 hours, 17 minutes, and 6 seconds) from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 09:42:54 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Saturn-PC10 conjunction. This aspect is a neo-converse primary direction.

For the post-birth symbolic chart, we add the chart-change term (2 hours, 17 minutes, and 6 seconds) to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 14:17:06 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Mars-PC1 conjunction. This aspect is a direct primary direction.

### 3.1.3 EVENT #K3 (King's passing in 1968)

[Back to Section 3.1]

By Thursday, 04 April 1968 (the date of King's passing), King had lived through 10 leap days (namely, those of 1932, 1936, 1940, 1944, 1948, 1952, 1956, 1960, 1964, and 1968). It follows that on the date of his passing, King's tropical age was about

$$\frac{[(9 \times 366) + (30 \times 365) + 16 + 29 + 31 + 4]\ days}{365.242189\ days/yr} \approx 39.2178134\ yrs\ .$$

On applying Technique #PD1 for $A \approx 39.2178134$, we get

$$(3.96045136 \times A)\ min \approx 155.320242\ min \approx 2.58867071\ hrs$$

$$\approx 2\ hr + 35\ min + 19\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1).

For the pre-birth symbolic chart, we subtract the chart-change term (2 hours, 35 minutes, and 19 seconds) from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 09:24:41 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Mars-PC4 conjunction and a Pluto-PC1 trine. These aspects are neo-converse primary directions.

For the post-birth symbolic chart, we add the chart-change term (2 hours, 35 minutes, and 19 seconds) to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), thereby getting 14:35:19 CST on the birth date. In this symbolic chart, we are looking for major planet-to-angle aspects having a margin of inexactness of about 01°. In this regard, we find a Saturn-PC7 conjunction. This aspect is a direct primary direction.

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# 3.2 Getting some data

[Back to TOC]

In this section, we will perform in-mundo calculations for the primary directions found in Section 3.1. Here are the pertinent hyperlinks:

3.2.1 Event #K1 (The direct Mercury-PC1 trine)
3.2.2 Event #K1 (The direct Mars-PC10 trine)
3.2.3 Event #K2 (The neo-converse Saturn-PC10 conjunction)
3.2.4 Event #K2 (The direct Mars-PC1 conjunction)
3.2.5 Event #K3 (The neo-converse Mars-PC4 conjunction)
3.2.6 Event #K3 (The neo-converse Pluto-PC1 trine)
3.2.7 Event #K3 (The direct Saturn-PC7 conjunction)

Let's move on!

## 3.2.1 EVENT #K1 (The direct Mercury-PC1 trine)

[Back to Section 3.2]

In Section 3.1, we found that Event #K1 (King's wedding in 1953) shows up astrologically as the natal-related Mercury-PC1 trine. The Mercury-PC1 trine is a direct primary direction in which Mercury's sinister-trine copy (MSTC) is the active promissor and the Ascendant (in PC1) is the fixed significator.

In the natal chart (FIGURE 3.1), both MSTC and the Ascendant lie in the lower eastern sky. From Section 1.4, we find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc}\,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. Between King's birth time (Tuesday, 15 January 1929 at 12:00 CST, or 18:00 UTC) and the epoch J2000.0 (Saturday, 01 January 2000 at approximately 12:00 UTC), the elapsed time in Julian years is approximately

$$\frac{[(17\times 366)+(54\times 365)-(\frac{6}{24}+14)]\;days}{365.25\;days/yr} \approx 70.9589322\;yrs\,,$$

and so the signed number of Julian centuries since the epoch J2000.0 is

$$T \approx -\frac{70.9589322\;yrs}{100\;yrs} = -0.709589322\,.$$

On making use of the obliquity formula in Section 1.1, we get

$$\varepsilon \approx 23^\circ\,26'\,21.406'' - 46.836769'' \times (-0.709589322)$$

$$\approx 23^\circ\,26'\,21.406'' + 33.2348712'' = 23^\circ\,26'\,54.6408712'' \approx 23.44851^\circ\,.$$

Note that $T$ is positive for dates after the epoch and negative for dates before the epoch.

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Secondly, let's use pertinent formulas of Section 1.1 to deal with Mercury's sinister-trine copy (MSTC). In the natal chart (FIGURE 3.1), Mercury is at Aquarius 11° 45′ 19″ with an ecliptic latitude of $-01° 24′ 05″$. MSTC is at Gemini 11° 45′ 19″ with a Bianchini ecliptic latitude of $(-01° 24′ 05″) \times \cos 120° = +00° 42′ 2.5″$. Therefore, we have

$$\lambda_P = 71° 45′ 19″ \approx 71.75528° , \qquad \beta_P = +00° 42′ 2.5″ \approx +0.70069° .$$

We find that MSTC's declination is

$$\delta_P = \arcsin(\sin\varepsilon \times \cos\beta_P \times \sin\lambda_P + \cos\varepsilon \times \sin\beta_P)$$
$$\approx \arcsin[\sin 23.44851° \times \cos(+0.70069°) \times \sin 71.75528°$$
$$+ \cos 23.44851° \times \sin(+0.70069°)]$$
$$\approx +22.89921° .$$

The equinoctial distance here is

$$(ED)_P = \arccos(\frac{\cos\beta_P \times \cos\lambda_P}{\cos\delta_P}) \approx \arccos[\frac{\cos(+0.70069) \times \cos 71.75528°}{\cos(+22.89921°)}]$$
$$\approx 70.13318° .$$

Because $\lambda_P < 180°$, we get $(RA)_P = (ED)_P \approx 70.13318°$ as MSTC's right ascension. King's geographic latitude of birth is $\Phi = 33° 45′ N = +33.75°$. For MSTC's ascensional difference, we get

$$(AD)_P = \arcsin(\tan\delta_P \times \tan\Phi) \approx \arcsin[\tan(+22.89921°) \times \tan(+33.75°)]$$
$$\approx 16.39387° ,$$

and so

$$(OA)_P = (RA)_P - (AD)_P \approx 70.13318° - 16.39387° = 53.73931°$$

is MSTC's oblique ascension.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Ascendant. In the natal chart (FIGURE 3.1), the Ascendant is at Taurus 13° 48′ 38″ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{Asc} = 43° 48′ 38″ \approx 43.81056° , \qquad \beta_{Asc} = 0° .$$

We find that

$$\delta_{Asc} \approx +15.99025° , \qquad (RA)_{Asc} = (ED)_{Asc} \approx 41.35091° ,$$
$$(AD)_{Asc} = 11.03882° , \qquad (OA)_{Asc} \approx 30.31209°$$

for the Ascendant.

Fourthly, for the direct Mercury-PC1 trine, we find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc} \approx 53.73931° - 30.31209° = 23.42722° .$$

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According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$23.42722\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 23.59656\ yrs\ of\ age$$

$$= 23\ yrs + (0.59656\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 23\ yrs + 217.88888\ days\ ,$$

and so the direct Mars-PC10 trine predicts an event to occur about 218 days after Tuesday, 15 January 1952 (Day 15 of 1952; King's 23rd birthday), which is on Wednesday, 20 August 1952 (Day 233 of 1952). This prediction date is 302 days before Thursday, 18 June 1953 (Day 169 of 1953; King's wedding day).

On applying Technique #PD1 for $A \approx 24.71058$, we get

$$(3.96045136 \times A)\ min \approx 97.86505\ min \approx 1\ hr + 37\ min + 52\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1). On adding this term to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 13:37:52 CST (or $13.63108\ hrs$ CST) on the birth date.

## 3.2.2 EVENT #K1 (The direct Mars-PC10 trine)

[Back to Section 3.2]

In Section 3.1, we found that Event #K1 (King's wedding in 1953) shows up astrologically as the natal-related Mars-PC10 trine. The Mars-PC10 trine is a direct primary direction in which Mars's dexter-trine copy (MDTC) is the active promissor and the Midheaven (in PC10) is the fixed significator.

In the natal chart (FIGURE 3.1), both MDTC and the Midheaven lie in the upper eastern sky. From Section 1.6, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC}\ ,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Mars's dexter-trine copy (MDTC). In the natal chart (FIGURE 3.1), Mars is at Gemini 21° 53′ 50″ with an ecliptic latitude of $+03°\ 26′\ 17″$. MDTC is at Aquarius 21° 53′ 50″ with a Bianchini ecliptic latitude of $(+03°\ 26′\ 17″) \times \cos 120° = -01°\ 43′\ 8.5″$. Therefore, we have

$$\lambda_P = 321°\ 53′\ 50″ \approx 321.89722°\ , \qquad \beta_P = -01°\ 43′\ 8.5″ \approx -1.71903°\ .$$

We find that

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$$\delta_P \approx +15.84045^\circ\,, \qquad (ED)_P \approx 35.15486^\circ\,,$$
$$(RA)_P = 360^\circ - (ED)_P \approx 324.84514^\circ$$

for Mars's dexter-trine copy.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Midheaven. In the natal chart (FIGURE 3.1), the Midheaven is at Capricorn 28° 12′ 25″ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{MC} = 298^\circ\,12'\,25'' \approx 298.20694^\circ\,, \qquad \beta_{MC} = 0^\circ\,.$$

We find that

$$\delta_{MC} \approx -20.52828^\circ\,, \qquad (ED)_{MC} \approx 59.68811^\circ\,,$$
$$(RA)_{MC} = 360^\circ - (ED)_{MC} \approx 300.31189^\circ$$

for the Midheaven.

Fourthly, for the direct Mars-PC10 trine, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC} \approx 324.84514^\circ - 300.31189^\circ = 24.53325^\circ\,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$24.53325\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 24.71058\ yrs\ of\ age$$
$$= 24\ yrs + (0.71058\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 24\ yrs + 259.53380\ days\,,$$

and so the direct Mars-PC10 trine predicts an event to occur about 260 days after Thursday, 15 January 1953 (Day 15 of 1953; King's 24th birthday), which is on Friday, 02 October 1953 (Day 275 of 1953). This prediction date is 106 days after Thursday, 18 June 1953 (Day 169 of 1953; King's wedding day).

On applying Technique #PD1 for $A \approx 24.71058$, we get

$$(3.96045136 \times A)\ min \approx 97.86505\ min \approx 1\ hr + 37\ min + 52\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1). On adding this term to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 13:37:52 CST (or $13.63108\ hrs$ CST) on the birth date.

## 3.2.3 EVENT #K2 (The neo-converse Saturn-PC10 conjunction)

[Back to Section 3.2]

In Section 3.1, we found that Event #K2 (King's DC speech in 1963) shows up astrologically as the natal-related Saturn-PC10 conjunction. The Saturn-PC10 conjunction is a converse primary direction in which Saturn is the promissor and the Midheaven (in PC10) is the significator.

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In the natal chart (FIGURE 3.1), both Saturn and the Midheaven lie in the upper western sky. On taking the Saturn-PC10 conjunction to be neo-converse, we look at the what-if situation of reversed primary motion directing an active promissor (Saturn) toward a fixed significator (the Midheaven). In this what-if situation, the arc of direction extends from Saturn toward the Midheaven, and its angular length is the meridian distance $(RA)_{MC} - (RA)_P$. That is, we have

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Saturn. In the natal chart (FIGURE 3.1), Saturn is at Sagittarius 25° 21′ 07″ with an ecliptic latitude of $+01° 09′ 56″$. Therefore, we have

$$\lambda_P = 265° 21′ 07″ \approx 265.35194° \,, \qquad \beta_P = +01° 09′ 56″ = +1.16556° \,.$$

We find that

$$\delta_P \approx -22.20196° \,, \qquad (ED)_P \approx 95.02015° \,,$$
$$(RA)_P = 360° - (ED)_P \approx 264.97985°$$

for Saturn.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Midheaven. As previously found in Section 3.2.2, we have $(RA)_{MC} \approx 300.31189°$.

Fourthly, for the neo-converse Saturn-PC10 conjunction, we find that

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \approx 300.31189° - 264.97985° = 35.33204° \,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$35.33204\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 35.58743\ yrs\ of\ age$$

$$= 35\ yrs + (0.58743\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 35\ yrs + 214.55422\ days \,,$$

and so the neo-converse Saturn-PC10 conjunction predicts an event to occur about 215 days after Wednesday, 15 January 1964 (Day 15 of 1964; King's 35th birthday), which is on Monday, 17 August 1964 (Day 230 of 1964). This prediction date is 355 days after Wednesday, 28 August 1963 (Day 240 of 1963; the date of King's DC speech).

On applying Technique #PD1 for $A \approx 35.58743$, we get

$$(3.96045136 \times A)\ min \approx 140.94229\ min \approx 2\ hr + 20\ min + 57\ sec$$

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as the chart-change term with respect to the natal chart (FIGURE 3.1). On subtracting this term from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 09:39:03 CST (or 9.65096 $hrs$ CST) on the birth date.

## 3.2.4 EVENT #K2 (The direct Mars-PC1 conjunction)

[Back to Section 3.2]

In Section 3.1, we found that Event #K2 (King's DC speech in 1963) shows up astrologically as the natal-related Mars-PC1 conjunction. The Mars-PC1 conjunction is a direct primary direction in which Mars is the active promissor and the Ascendant (in PC1) is the fixed significator.

In the natal chart (FIGURE 3.1), both Mars and the Ascendant lie in the lower eastern sky. From Section 1.4, we find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc}\,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Mars. In the natal chart (FIGURE 3.1), Mars is at Gemini 21° 53′ 50″ with an ecliptic latitude of +03° 26′ 17″. Therefore, we have

$$\lambda_P = 81°\,53'\,50'' \approx 81.89722°\,, \qquad \beta_P = +03°\,26'\,17'' \approx +3.43806°\,.$$

We find that

$$\delta_P \approx +26.63212°\,, \qquad (RA)_P = (ED)_P \approx 80.94429°\,.$$

King's geographic latitude of birth is $\Phi = 33°\,45'\,N = +33.75°$. We find that

$$(AD)_P \approx 19.57665°\,, \qquad (OA)_P = (RA)_P - (AD)_P \approx 61.36764°$$

for Mars.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Ascendant. As previously found in Section 3.2.1, we have $(OA)_{Asc} \approx 30.31209°$.

Fourthly, for the direct Mars-PC1 conjunction, we find that

$$\text{arc of direction} = (OA)_P - (OA)_{Asc} \approx 61.36764° - 30.31209° = 31.05555°\,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$31.05555\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 31.28003\ yrs\ of\ age$$

$$= 31\ yrs + (0.28003\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 31\ yrs + 102.27877\ days\,,$$

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and so the direct Mars-PC1 conjunction predicts an event to occur about 102 days after Friday, 15 January 1960 (Day 15 of 1960; King's 31st birthday), which is on Tuesday, 26 April 1960 (Day 117 of 1960). This prediction date is 1219 days before Wednesday, 28 August 1963 (Day 240 of 1963; the date of King's DC speech). This prediction date is very bad, and so we will ignore the direct Mars-PC1 conjunction.

## 3.2.5 EVENT #K3 (The neo-converse Mars-PC4 conjunction)

[Back to Section 3.2]

In Section 3.1, we found that Event #K3 (King's passing in 1968) shows up astrologically as the natal-related Mars-PC4 conjunction. The Mars-PC4 conjunction is a converse primary direction in which Mars is the promissor and the Imum Coeli (in PC4) is the significator.

In the natal chart (FIGURE 3.1), both Mars and PC4 lie in the lower eastern sky. On taking the Mars-PC4 conjunction to be neo-converse, we look at the what-if situation of reversed primary motion directing an active promissor (Mars) toward a fixed significator (the Imum Coeli). In this what-if situation, the arc of direction extends from Mars toward the Imum Coeli, and its angular length is the meridian distance $(RA)_{IC} - (RA)_P$. That is, we have

$$\text{arc of direction} = (RA)_{IC} - (RA)_P \, .$$

Note that the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Mars. As previously found in Section 3.2.4, we have $(RA)_P \approx 80.94429°$.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Imum Coeli. As previously found in Section 3.2.2, we have $(RA)_{MC} \approx 300.31189°$ for the Midheaven. Because the Midheaven and the Imum Coeli are opposite points of the celestial sphere, we get

$$(RA)_{IC} = (RA)_{MC} - 180° \approx 120.31189°$$

for the Imum Coeli.

Fourthly, for the neo-converse Mars-PC4 conjunction, we find that

$$\text{arc of direction} = (RA)_{IC} - (RA)_P \approx 120.31189° - 80.94429° = 39.36760° \, .$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$39.36760 \; deg \times \frac{1.00722819 \; yrs \; of \; age}{1 \; deg} \approx 39.65216 \; yrs \; of \; age$$

$$= 39 \; yrs + (0.65216 \; yr \times \frac{365.242189 \; days}{1 \; yr}) \approx 39 \; yrs + 238.19635 \; days \, ,$$

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and so the neo-converse Mars-PC4 conjunction predicts an event to occur about 238 days after Monday, 15 January 1968 (Day 15 of 1968; King's 39th birthday), which is on Monday, 09 September 1968 (Day 253 of 1968). This prediction date is 158 days after Thursday, 04 April 1968 (Day 95 of 1968; the date of King's passing).

On applying Technique #PD1 for $A \approx 39.65216$, we get

$$(3.96045136 \times A)\ min \approx 157.04045\ min \approx 2\ hr + 37\ min + 2\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1). On subtracting this term from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 09:22:58 CST (or $09.38266\ hrs$ CST) on the birth date.

## 3.2.6 EVENT #K3 (The neo-converse Pluto-PC1 trine)

[Back to Section 3.2]

In Section 3.1, we found that Event #K3 (King's passing in 1968) shows up astrologically as the natal-related Pluto-PC1 trine. The Pluto-PC1 trine is a converse primary direction in which Pluto's dexter-trine copy (PDTC) is the promissor and the Ascendant (in PC1) is the significator.

In the natal chart (FIGURE 3.1), both PDTC and the Ascendant lie in the upper eastern sky. On taking the Pluto-PC1 trine to be neo-converse, we look at the what-if situation of reversed primary motion directing an active promissor (PDTC) toward a fixed significator (the Ascendant). In this what-if situation, the arc of direction extends from PDTC toward the Ascendant, and its angular length is the horizonal distance $(OA)_{Asc} - (OA)_P$. That is, we have

$$\text{arc of direction} = (OA)_{Asc} - (OA)_P\ ,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Pluto's dexter-trine copy (PDTC). In the natal chart (FIGURE 3.1), Pluto is at Cancer 17° 08′ 21″ with an ecliptic latitude of $-00°\ 38'\ 15''$. PDTC is at Pisces 17° 08′ 21″ with a Bianchini ecliptic latitude of $(-00°\ 38'\ 15'') \times \cos 120° = +00°\ 19'\ 7.5''$. Therefore, we have

$$\lambda_P = 347°\ 08'21'' \approx 347.13917°\ , \qquad \beta_P = +00°\ 19'7.5'' = +0.31875°\ .$$

We find that

$$\delta_P \approx -4.78784°\ , \qquad (ED)_P \approx 11.95455°\ ,$$
$$(RA)_P = 360° - (ED)_P \approx 348.04545°\ .$$

King's geographic latitude of birth is $\Phi = 33°\ 45'\ N = +33.75°$. We find that

$$(AD)_P \approx -3.20828°\ , \qquad (OA)_P = (RA)_P - (AD)_P \approx 351.25373°$$

for Pluto's dexter-trine copy.

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Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Ascendant. As previously found in Section 3.2.1, we have $(OA)_{Asc} \approx 30.31209°$.

Fourthly, for the neo-converse Pluto-PC1 trine, we find that

$$\text{arc of direction} = (OA)_{Asc} - (OA)_P \approx 30.31209° - 351.25373° = -320.94164°$$
$$\equiv -320.94164° + 360° = 39.05836°\,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$39.05836\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 39.34068\ yrs\ of\ age$$

$$= 39\ yrs + (0.34068\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 39\ yrs + 124.43071\ days\,,$$

and so the neo-converse Pluto-PC1 trine predicts an event to occur about 124 days after Monday, 15 January 1968 (Day 15 of 1968; King's 39th birthday), which is on Saturday, 18 May 1968 (Day 139 of 1968). This prediction date is 44 days after Thursday, 04 April 1968 (Day 95 of 1968; the date of King's passing).

On applying Technique #PD1 for $A \approx 39.34068$, we get

$$(3.96045136 \times A)\ min \approx 155.80685\ min \approx 2\ hr + 35\ min + 48\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1). On subtracting this term from King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 09:24:12 CST (or $09.40322\ hrs$ CST) on the birth date.

## 3.2.7 EVENT #K3 (The direct Saturn-PC7 conjunction)

[Back to Section 3.2]

In Section 3.1, we found that Event #K3 (King's passing in 1968) shows up astrologically as the natal-related Saturn-PC7 conjunction. The Saturn-PC7 conjunction is a direct primary direction in which Saturn is the active promissor and the Descendant (in PC7) is the fixed significator.

In the natal chart (FIGURE 3.1), both Saturn and the Descendant lie in the upper western sky. From Section 1.5, we find that

$$\text{arc of direction} = (OD)_P - (OD)_{Dsc}\,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Saturn. As previously found in Section 3.2.3, we have

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$$\delta_P \approx -22.20196^\circ\,, \qquad (RA)_P \approx 264.97985^\circ\,.$$

King's geographic latitude of birth is $\Phi = 33^\circ\,45'\,N = +33.75^\circ$. We find that

$$(AD)_P \approx -15.82531^\circ\,, \qquad (OD)_P = (RA)_P + (AD)_P \approx 249.15454^\circ$$

for Saturn.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Descendant. As previously found in Section 3.2.1, we have

$$\delta_{Asc} \approx +15.99025^\circ\,, \qquad (RA)_{Asc} \approx 41.35091^\circ\,, \qquad (AD)_{Asc} = 11.03882^\circ$$

for the Ascendant. Because the Ascendant and the Descendant are opposite points of the celestial sphere, we get

$$\delta_{Dsc} = -\delta_{Asc} \approx -15.99025^\circ\,, \qquad (RA)_{Dsc} = (RA)_{Asc} + 180^\circ \approx 221.35091^\circ\,,$$
$$(AD)_{Dsc} = -(AD)_{Asc} = -11.03882^\circ\,.$$

We find that

$$(OD)_{Dsc} = (RA)_{Dsc} + (AD)_{Dsc} \approx 210.31209^\circ$$

for the Descendant.

Fourthly, for the direct Saturn-PC7 conjunction, we find that

$$\text{arc of direction} = (OD)_P - (OD)_{Dsc} \approx 249.15454^\circ - 210.31209^\circ = 38.84245^\circ\,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$38.84245\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 39.12321\ yrs\ of\ age$$

$$= 39\ yrs + (0.12321\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 39\ yrs + 45.00149\ days\,,$$

and so the direct Saturn-PC7 conjunction predicts an event to occur about 45 days after Monday, 15 January 1968 (Day 15 of 1968; King's 39th birthday), which is on Thursday, 29 February 1968 (Day 60 of 1968). This prediction date is 35 days before Thursday, 04 April 1968 (Day 95 of 1968; the date of King's passing).

On applying Technique #PD1 for $A \approx 39.12321$, we get

$$(3.96045136 \times A)\ min \approx 154.94557\ min \approx 2\ hr + 34\ min + 57\ sec$$

as the chart-change term with respect to the natal chart (FIGURE 3.1). On adding this term to King's birth time (Tuesday, 15 January 1929 at 12:00 CST), we get the in-mundo conjunction moment to be 14:34:57 CST (or $14.58243\ hrs$ CST) on the birth date.

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## 3.3 Getting the rectified birth time

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Our process of rectifying the birth time is based on the model equation

$$y = x + b\,,$$

whose graph is a straight line having a slope value of 1 and an intercept value of $b$. For the native at $A$ tropical years of age, the quantity $x$ is the chart-addition term, which is given by

$$x = \begin{cases} -(3.96045136 \times A)\ min & \text{for a pre-birth symbolic chart} \\ +(3.96045136 \times A)\ min & \text{for a post-birth symbolic chart}\,, \end{cases}$$

It is advisable here to express $x$ in hours. For a given value of $x$, the quantity $y$ is the in-mundo conjunction moment for the associated major planet-to-angle aspect. The constant $b$ is the rectified birth time. It is advisable here to express $y$ and $b$ in hours according to the 24-hour time format.

### TABLE 3.3: Data points for King's birth-time rectification

| Event | Age (in yrs) | $x$ (in hrs) | $y$ (in hrs CST) |
|---|---|---|---|
| #K1 | 24.4221513 | +1.61204571 | 13.63108 |
| #K2 | 34.6153878 | −2.28487600 | 09.65096 |
| #K3 | 39.2178134 | −2.58867071 | 09.40322 |
| #K3 | 39.2178134 | +2.58867071 | 14.58243 |

Let's use information from Sections 3.1 and 3.2 to compose our $xy$ pairs. For Event #K1, we examined the direct Mercury-PC1 trine (in Section 3.2.1) and the direct Mars-PC10 trine (in Section 3.2.2). Of these two direct primary directions, the Mars-PC10 trine yielded the better prediction date. For the direct Mars-PC10 trine, we have $x = +1.61204571\ hrs$ and $y = 13.63108\ hrs$ CST.

For Event #K2, we examined the neo-converse Saturn-PC10 conjunction (in Section 3.2.3) and the direct Mars-PC1 conjunction (in Section 3.2.4). For the neo-converse Saturn-PC10 conjunction, we have $x = -2.28487600\ hrs$ and $y = 09.65096\ hrs$ CST. The direct Mars-PC1 conjunction yielded a very bad prediction date, and so we will ignore this primary direction.

For Event #K3, we examined the neo-converse Mars-PC4 conjunction (in Section 3.2.5), the neo-converse a Pluto-PC1 trine (in Section 3.2.6), and the direct Saturn-PC7 conjunction (in Section 3.2.7). Of the two neo-converse primary directions here, the Pluto-PC1 trine yielded the better prediction. For the neo-converse Pluto-PC1 trine, we have $x = -2.58867071\ hrs$ and $y = 09.40322\ hrs$ CST. For the direct Saturn-PC7 conjunction, we have $x = +2.58867071\ hrs$ and $y = 14.58243\ hrs$ CST.

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TABLE 3.3 presents our $xy$ pairs. Each $xy$ pair in the table is a data point. The technique of linear regression enables us to find the straight line that best accommodates our four data points. On making use of the website <https://arachnoid.com/polysolve/>, we get the output values

$$\text{intercept} = 1.1986501665345235 \times 10^{+1}\,,$$

$$\text{slope} = 1.0081541682389727 \times 10^{0}\,.$$

It follows that

$$y = (1.0081541682389727)x + 11.986501665345235$$

is the equation of our best line. On comparing this equation with the model equation $y = x + b$, we see that the output value 1.0081541682389727 (the best-line's slope) approximates the number 1 (the model-line's slope). Moreover, we see that the output value 11.986501665345235 (the best-line's intercept) approximates $b$ (the model-line's intercept). We find that

$$b \approx 11.986501665345235\ hrs\ \text{CST} \approx (11\ hr + 59\ min + 11\ sec)\ \text{CST}\,.$$

Therefore, King's rectified birth moment is about 11:59:11 CST. The birth-time rectification here is based on four data points. The more data points that we use for the linear regression, the better we can adjust the birth time.

## 3.4 Testing the rectified natal chart

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In this section, we will use King's rectified natal chart (FIGURE 3.4) to re-calculate the arc of direction for each of the four primary directions used in the rectification process.

### FIGURE 3.4: King's rectified natal chart

| | | | | |
|---|---|---|---|---|
| Ur 03:57<br>(PC12) 08:22<br>WS12 AR | (PC11) 03:11<br>Ve 10:33<br>Mo 19:34<br>WS11 PI | Me 11:45<br>WS10 AQ | (PC9) 03:11<br>Su 25:08<br>(PC10) 28:00<br>WS9 CP | (PC8) 08:22<br>Sa 25:21<br>WS8 SA |
| Ju 01:10<br>(PC1) 13:32<br>WS1 TA | **Martin Luther King Jr.**<br>Rectified Natal Chart (Tropical Zodiac)<br>Tuesday, 15 JAN 1929 at 11:59:11 CST<br>Atlanta, GA (33° 45′ N; 84° 23′ W) | | | (PC7) 13:32<br>WS7 SC |
| (PC2) 08:22<br>Ma 21:53 R<br>WS2 GE | (PC3) 03:11<br>Pl 17:08 R<br>(PC4) 28:00<br>WS3 CN | WS4 LE | Ne 00:53 R<br>(PC5) 03:11<br>WS5 VI | (PC6) 08:22<br>WS6 LI |

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Here are the pertinent hyperlinks:

3.4.1 Event #K1 (The direct Mars-PC10 trine)
3.4.2 Event #K2 (The neo-converse Saturn-PC10 conjunction)
3.4.3 Event #K3 (The neo-converse Pluto-PC1 trine)
3.4.4 Event #K3 (The direct Saturn-PC7 conjunction)

Let's move on!

## 3.4.1 EVENT #K1 (The direct Mars-PC10 trine)

[Back to Section 3.4]

The Mars-PC10 trine is a direct primary direction in which Mars's dexter-trine copy (MDTC) is the active promissor and the Midheaven (in PC10) is the fixed significator. As previously found in Section 3.2.2, we have

$$\text{arc of direction} = (RA)_P - (RA)_{MC}\,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Mars's dexter-trine copy (MDTC). The pertinent values for Mars in the rectified natal chart (FIGURE 3.4) do not differ significantly from their counterparts in the original natal chart (FIGURE 3.1). Therefore, as previously found in Section 3.2.2, we have $(RA)_P \approx 324.84514°$ for Mars's dexter-trine copy.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Midheaven. In the rectified natal chart (FIGURE 3.4), the Midheaven is at Capricorn 28° 00′ 41″ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{MC} = 298°\,00'\,41'' \approx 298.01139°\,, \qquad \beta_{MC} = 0°\,.$$

We find that

$$\delta_{MC} \approx -20.56744°\,, \qquad (ED)_{MC} \approx 59.89272°\,,$$
$$(RA)_{MC} = 360° - (ED)_{MC} \approx 300.10728°$$

for the Midheaven.

Fourthly, for the direct Mars-PC10 trine, we find that

$$\text{arc of direction} = (RA)_P - (RA)_{MC} \approx 324.84514° - 300.10728° = 24.73786°\,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$24.73786\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 24.91667\ yrs\ of\ age$$

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$$= 24\ yrs + (0.91667\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 24\ yrs + 334.80656\ days\ ,$$

and so the direct Mars-PC10 trine predicts an event to occur about 335 days after Thursday, 15 January 1953 (Day 15 of 1953; King's 24th birthday), which is on Wednesday, 16 December 1953 (Day 350 of 1953). This prediction date is 181 days after Thursday, 18 June 1953 (Day 169 of 1953; King's wedding day).

There has been some worsening here. As previously found in Section 3.2.2, the original natal chart (FIGURE 3.1) yielded a prediction date of Friday, 02 October 1953 (Day 275 of 1953), which is 106 days after King's wedding day.

## 3.4.2 EVENT #K2 (The neo-converse Saturn-PC10 conjunction)

[Back to Section 3.4]

The Saturn-PC10 conjunction is a neo-converse primary direction in which Saturn is the active promissor and the Midheaven (in PC10) is the fixed significator. As previously found in Section 3.2.3, we have

$$\text{arc of direction} = (RA)_{MC} - (RA)_P\ ,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Saturn. The pertinent values for Saturn in the rectified natal chart (FIGURE 3.4) do not differ significantly from their counterparts in the original natal chart (FIGURE 3.1). Therefore, as previously found in Section 3.2.3, we have $(RA)_P \approx 264.97985°$ for Saturn.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Midheaven. As previously found in Section 3.4.1, we have $(RA)_{MC} \approx 300.10728°$.

Fourthly, for the neo-converse Saturn-PC10 conjunction, we find that

$$\text{arc of direction} = (RA)_{MC} - (RA)_P \approx 300.10728° - 264.97985° = 35.12743°\ .$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$35.12743\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 35.38134\ yrs\ of\ age$$

$$= 35\ yrs + (0.38134\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 35\ yrs + 139.28146\ days\ ,$$

and so the neo-converse Saturn-PC10 conjunction predicts an event to occur about 139 days after Wednesday, 15 January 1964 (Day 15 of 1964; King's 35th birthday), which is on Tuesday, 02

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June 1964 (Day 154 of 1964). This prediction date is 279 days after Wednesday, 28 August 1963 (Day 240 of 1963; the date of King's DC speech).

There has been some improvement here. As previously found in Section 3.2.3, the original natal chart (FIGURE 3.1) yielded a prediction date of Monday, 17 August 1964 (Day 230 of 1964), which is 355 days after the date of King's DC speech.

## 3.4.3 EVENT #K3 (The neo-converse Pluto-PC1 trine)

[Back to Section 3.4]

The Pluto-PC1 trine is a neo-converse primary direction in which Pluto's dexter-trine copy (PDTC) is the active promissor and the Ascendant (in PC1) is the fixed significator. As previously found in Section 3.2.6, we have

$$\text{arc of direction} = (OA)_{Asc} - (OA)_P \,,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Pluto's dexter-trine copy (PDTC). The pertinent values for Pluto in the rectified natal chart (FIGURE 3.4) do not differ significantly from their counterparts in the original natal chart (FIGURE 3.1). Therefore, as previously found in Section 3.2.3, we have $(OA)_P \approx 351.25373°$ for Pluto's dexter-trine copy.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Ascendant. In the rectified natal chart (FIGURE 3.4), the Ascendant is at Taurus 13° 32′ 42″ with an ecliptic latitude of 0° exactly. Therefore, we have

$$\lambda_{Asc} = 43° 32′ 42″ = 43.54500° \,, \qquad \beta_{Asc} = 0° \,.$$

We find that

$$\delta_{Asc} \approx +15.91077° \,, \qquad (RA)_{Asc} = (ED)_{Asc} \approx 41.08738° \,.$$

King's geographic latitude of birth is $\Phi = 33° 45′ N = +33.75°$. We find that

$$(AD)_{Asc} = 10.98030° \,, \qquad (OA)_{Asc} = (RA)_{Asc} - (AD)_{Asc} \approx 30.10708°$$

for the Ascendant.

Fourthly, for the neo-converse Pluto-PC1 trine, we find that

$$\text{arc of direction} = (OA)_{Asc} - (OA)_P \approx 30.10708° - 351.25373° = -321.14665°$$
$$\equiv -321.14665° + 360° = 38.85335° \,.$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

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$$38.85335\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 39.13419\ yrs\ of\ age$$

$$= 39\ yrs + (0.13419\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 39\ yrs + 49.01185\ days\ ,$$

and so the neo-converse Pluto-PC1 trine predicts an event to occur about 49 days after Monday, 15 January 1968 (Day 15 of 1968; King's 39th birthday), which is on Monday, 04 March 1968 (Day 64 of 1968). This prediction date is 31 days before Thursday, 04 April 1968 (Day 95 of 1968; the date of King's passing).

There has been some improvement here. As previously found in Section 3.2.6, the original natal chart (FIGURE 3.1) yields a prediction date of Saturday, 18 May 1968 (Day 139 of 1968), which is 44 days after the date of King's passing.

## 3.4.4 EVENT #K3 (The direct Saturn-PC7 conjunction)

[Back to Section 3.4]

The Saturn-PC7 conjunction is a direct primary direction in which Saturn is the active promissor and the Descendant (in PC7) is the fixed significator. As previously found in Section 3.2.7, we have

$$\text{arc of direction} = (OD)_P - (OD)_{Dsc}\ ,$$

where the subscript $P$ refers to the promissor.

Firstly, let's calculate the pertinent obliquity value. As previously found in Section 3.2.1, we have $\varepsilon \approx 23.44851°$.

Secondly, let's use pertinent formulas of Section 1.1 to deal with Saturn. The pertinent values for Saturn in the rectified natal chart (FIGURE 3.4) do not differ significantly from their counterparts in the original natal chart (FIGURE 3.1). Therefore, as previously found in Section 3.2.3, we have $(OD)_P \approx 249.15454°$ for Saturn.

Thirdly, let's use pertinent formulas of Section 1.1 to deal with the Descendant. As previously found in Section 3.4.3, we have

$$\delta_{Asc} \approx +15.91077°\ ,\qquad (RA)_{Asc} \approx 41.08738°\ ,\qquad (AD)_{Asc} = 10.98030°\ .$$

Because the Ascendant and the Descendant are opposite points of the celestial sphere, we get

$$\delta_{Dsc} = -\delta_{Asc} \approx -15.91077°\ ,\qquad (RA)_{Dsc} = (RA)_{Asc} + 180° \approx 221.08738°\ ,$$

$$(AD)_{Dsc} = -(AD)_{Asc} = -10.98030°\ .$$

We find that

$$(OD)_{Dsc} = (RA)_{Dsc} + (AD)_{Dsc} \approx 210.10708°$$

for the Descendant.

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Fourthly, for the direct Saturn-PC7 conjunction, we find that

$$\text{arc of direction} = (OD)_P - (OD)_{Dsc} \approx 249.15454° - 210.10708° = 39.04743° .$$

According to the Ptolemy-Naibod midpoint time-key, this arc indicates

$$39.04743\ deg \times \frac{1.00722819\ yrs\ of\ age}{1\ deg} \approx 39.32967\ yrs\ of\ age$$

$$= 39\ yrs + (0.32967\ yr \times \frac{365.242189\ days}{1\ yr}) \approx 39\ yrs + 120.40939\ days ,$$

and so the direct Saturn-PC7 conjunction predicts an event to occur about 120 days after Monday, 15 January 1968 (Day 15 of 1968; King's 39th birthday), which is on Tuesday, 14 May 1968 (Day 135 of 1968). This prediction date is 40 days after Thursday, 04 April 1968 (Day 95 of 1968; the date of King's passing).

There has been some worsening here. As previously found in Section 3.2.5, the original natal chart (FIGURE 3.1) yields a prediction date of Thursday, 29 February 1968 (Day 60 of 1968), which is 35 days before the date of King's passing.

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