

---

**Uranus: Individualism and Group Mind — *the Paradox***

*Feb. 9, 2003 Program Topic/AAStL*

© 2003 Rose A. Jenkins, [www.cosmicexpress.com](http://www.cosmicexpress.com)

*All Rights Reserved.*

Part 2

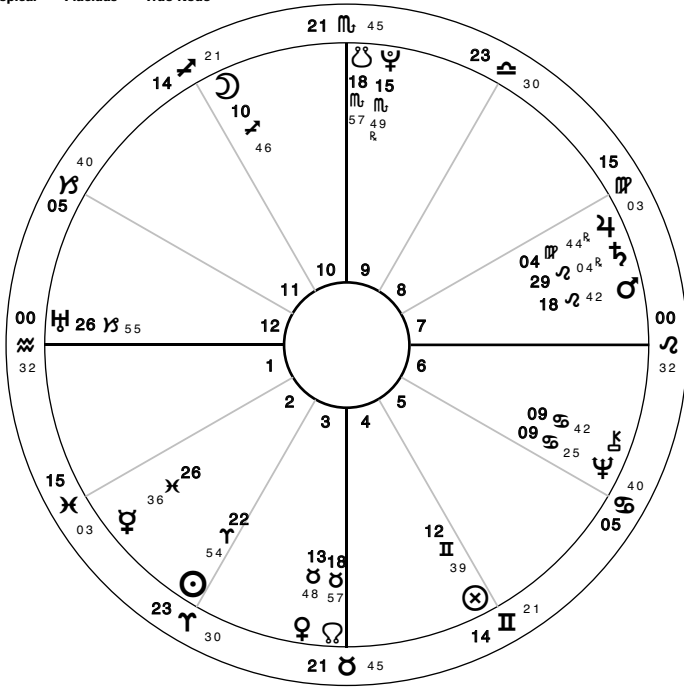
Chart &  
Reference  
Section

**Chart & Data Section**

**Uranus: Individualism and Group Mind — the Paradox**

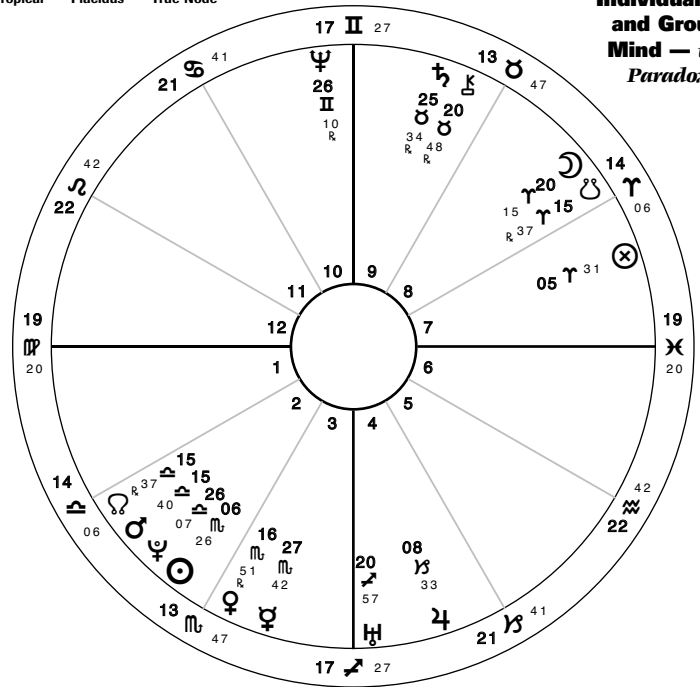
**THOMAS JEFFERSON**

APR 13 1743  
Shadwell  
38N01  
APR 13 1743  
Tropical Placidus  
Virginia  
78W24  
07:06:48 GMT  
True Node



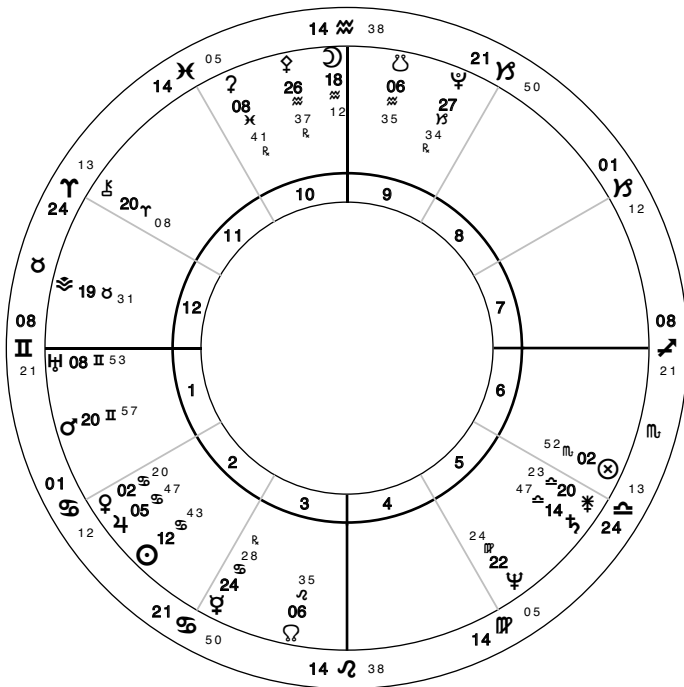
**JOHN ADAMS**

Oct 30 1735  
Quincy  
42N15  
Oct 30 1735  
Tropical Placidus  
2:40:57 AM EST  
Massachusetts  
77W00  
07:40:57 GMT  
True Node



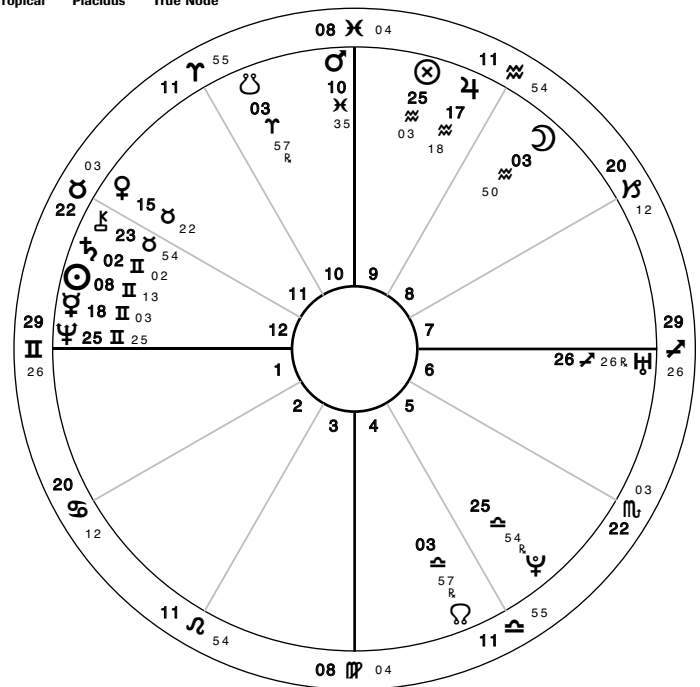
**US-URANUS/GEMINI ASC**

Jul 4 1776  
Philadelphia  
39N57  
Jul 4 1776  
Tropical Placidus  
2:17 AM LMT  
Pennsylvania  
75W10  
07:17:40 GMT  
True Node



**PATRICK HENRY**

Hanover  
37N46  
May 29 1736  
Tropical Placidus  
Virginia  
77W22  
11:19:28 GMT  
True Node

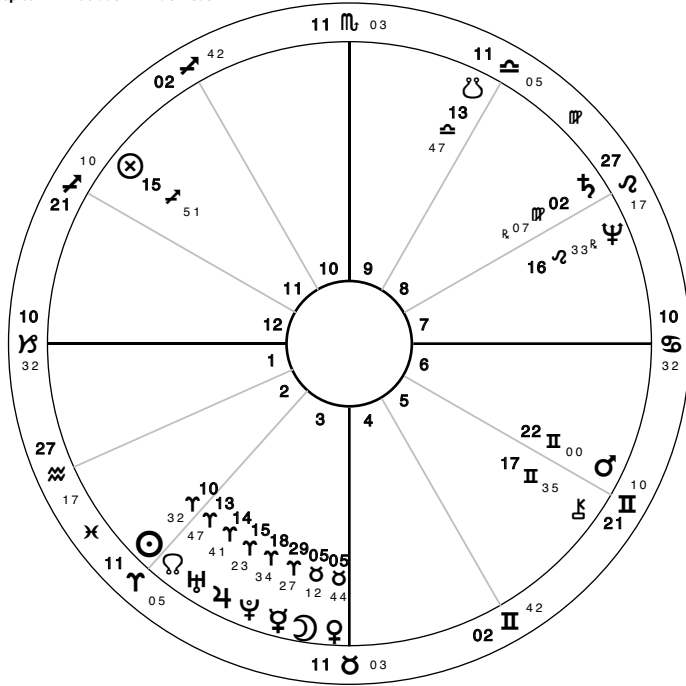


**Chart & Data Section**

**Uranus: Individualism and Group Mind — the Paradox**

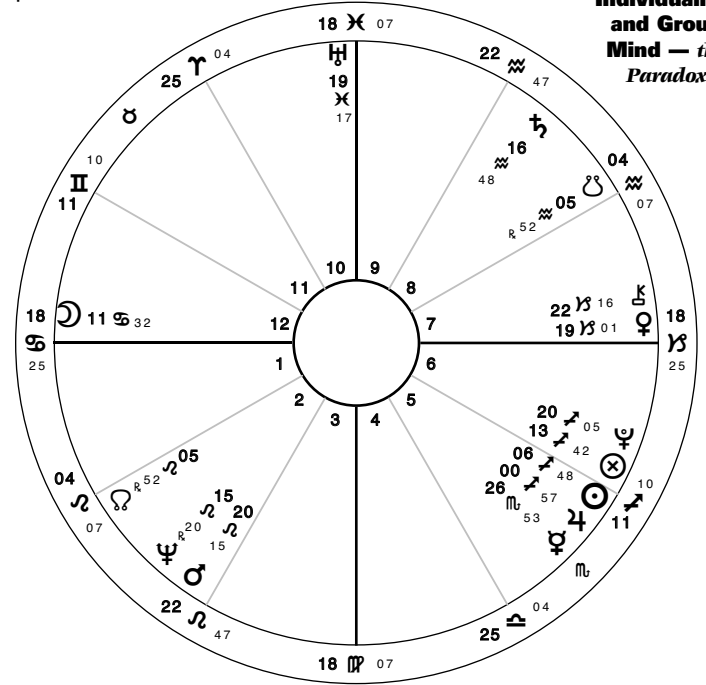
**RENE DESCARTES**

Mar 31 1596 2:00 AM LMT  
 Le Haye France  
 46N58 0W43  
 Mar 31 1596 02:02:52 GMT  
 Tropical Placidus True Node



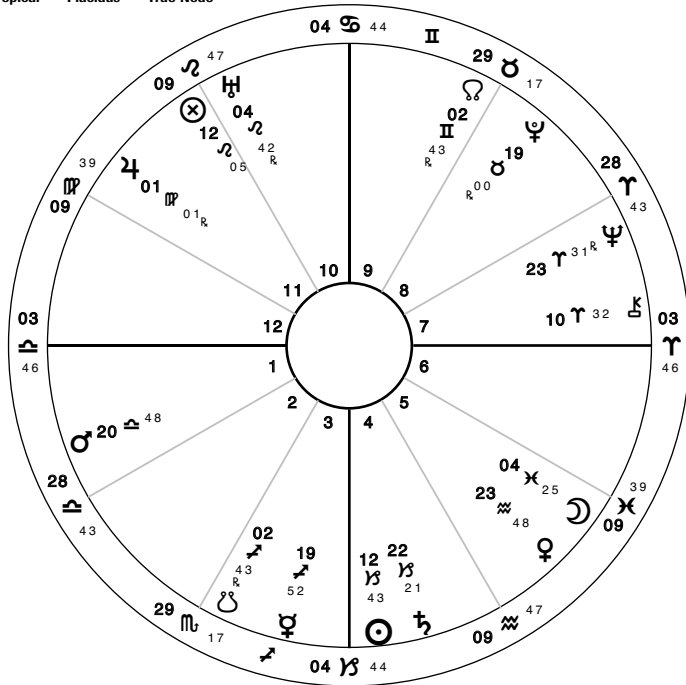
**WILLIAM BLAKE**

Nov 28 1757 6:45 PM LMT  
 London England  
 51N31 0W06  
 Nov 28 1757 18:45:24 GMT  
 Tropical Placidus True Node



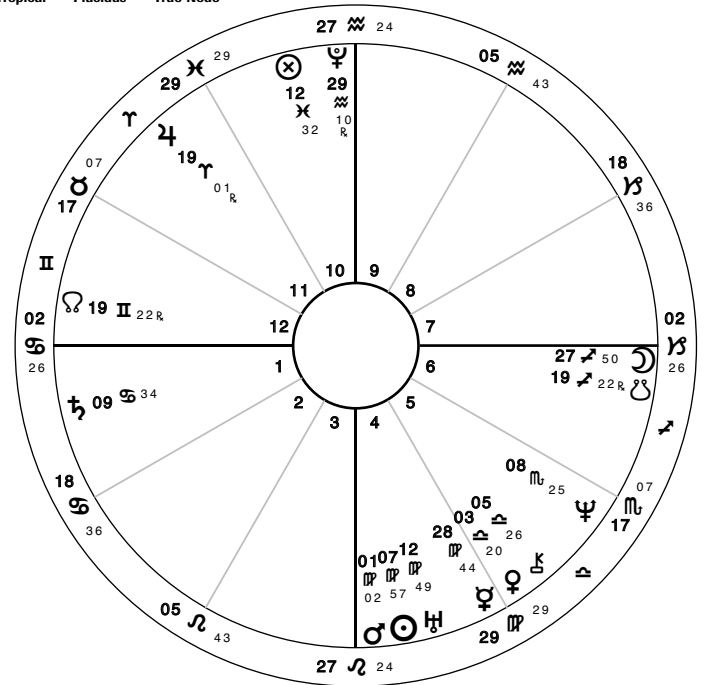
**SAINT THERESE**

Jan 2 1873 11:30 PM LMT  
 Alençon France  
 48N26 0E05  
 Jan 2 1873 23:29:40 GMT  
 Tropical Placidus True Node



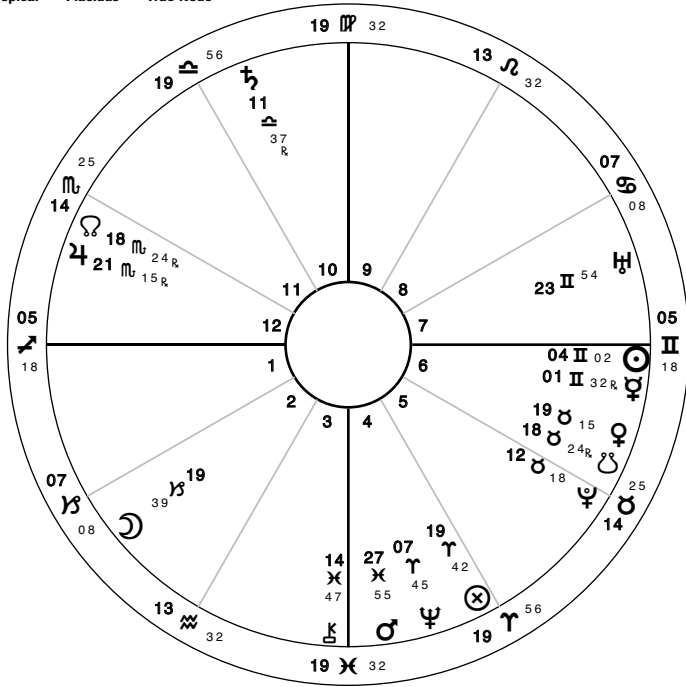
**MARY SHELLEY**

Aug 30 1797 11:20 PM LMT  
 London England  
 51N30 0W10  
 Aug 30 1797 23:20:40 GMT  
 Tropical Placidus True Node



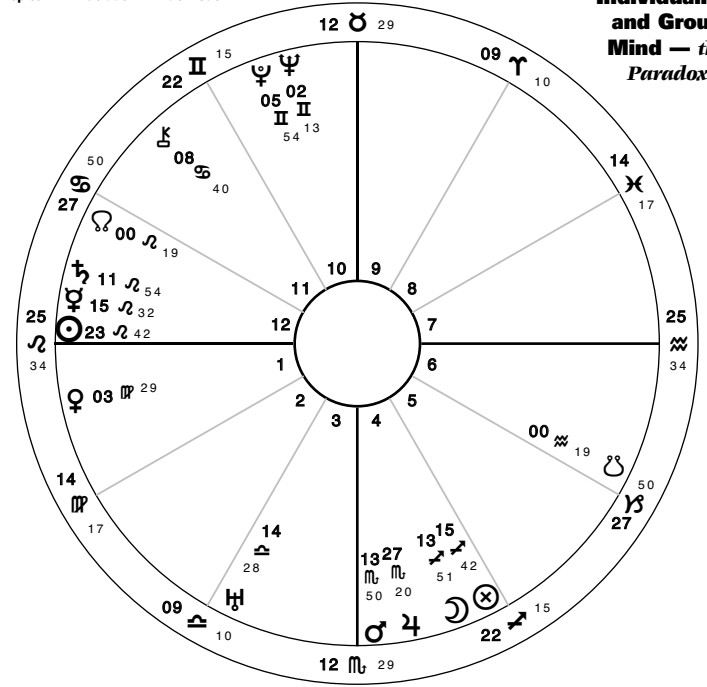
## GEORGE WASHINGTON CARVER

May 24 1864 7:10 PM LMT  
 Diamond Missouri  
 37N00 94W19  
 May 25 1864 01:27:16 GMT  
 Tropical Placidus True Node



## T.E. LAWRENCE ("LAWRENCE OF ARABIA")

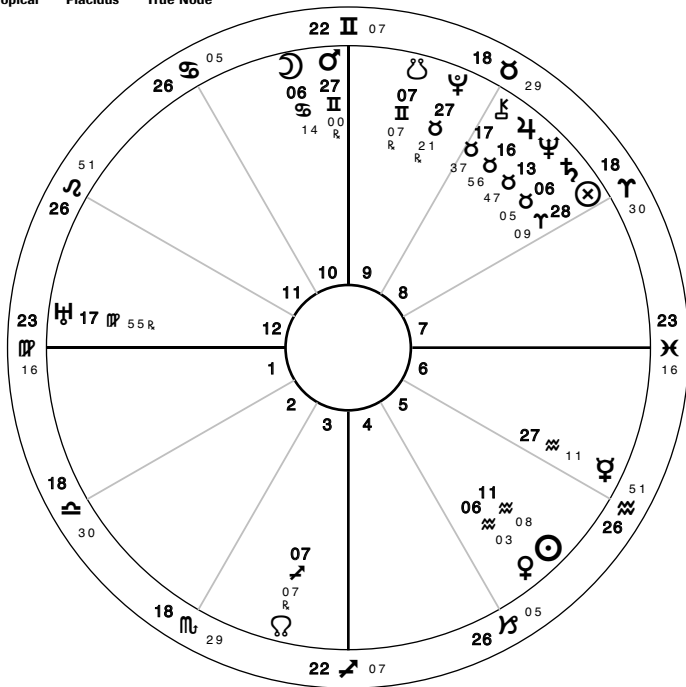
Aug 16 1888 5:00 AM LMT  
 Tremadoc Wales  
 52N56 4W09  
 Aug 16 1888 05:16:36 GMT  
 Tropical Placidus True Node



**10**  
**Chart & Data**  
**Section**  
**Uranus:**  
**Individualism and Group Mind — the Paradox**

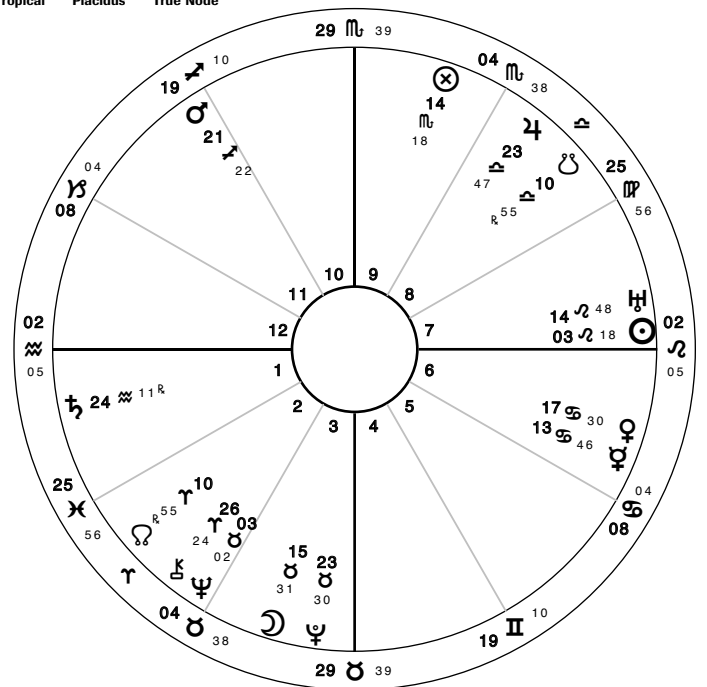
## FRANKLIN D. ROOSEVELT

Jan 30 1882 8:45 PM LMT  
 Hyde Park New York  
 41N47 73W56  
 Jan 31 1882 01:40:44 GMT  
 Tropical Placidus True Node



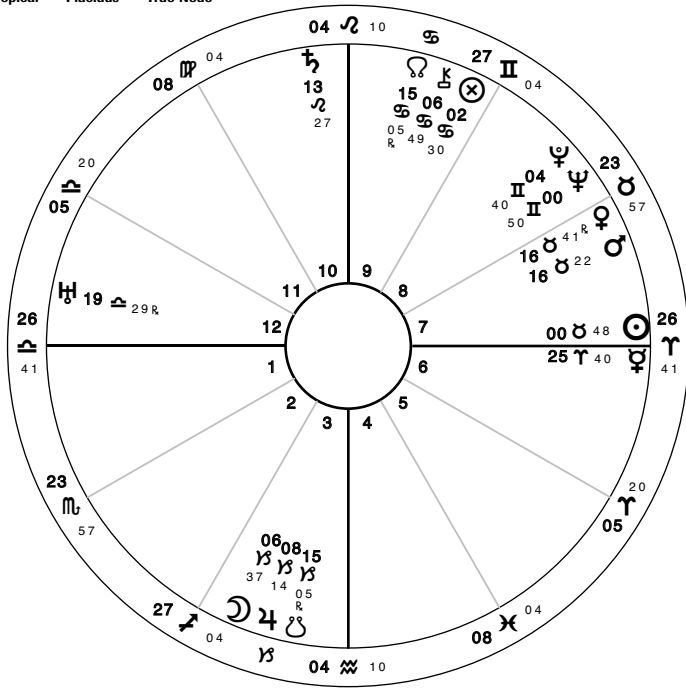
## CARL J. JUNG

Jul 26 1875 7:26 PM SZOT  
 Kesswil Switzerland  
 47N36 9E20  
 Jul 26 1875 18:56:16 GMT  
 Tropical Placidus True Node



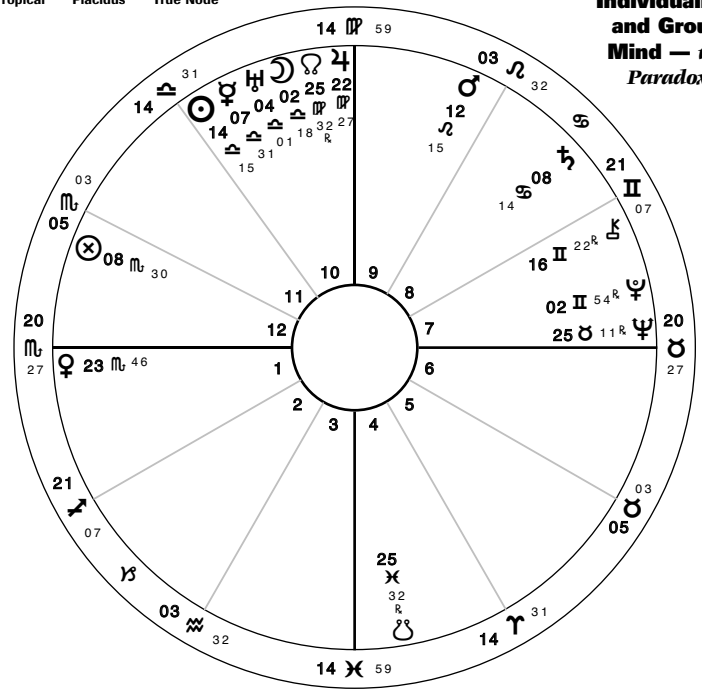
### ADOLF HITLER

Apr 20 1889 6:30 PM LMT  
 Braunau am Inn Austria 13E02  
 48N15 17:37:52 GMT  
 Apr 20 1889 17:37:52 GMT  
 Tropical Placidus True Node



### NIELS BOHR

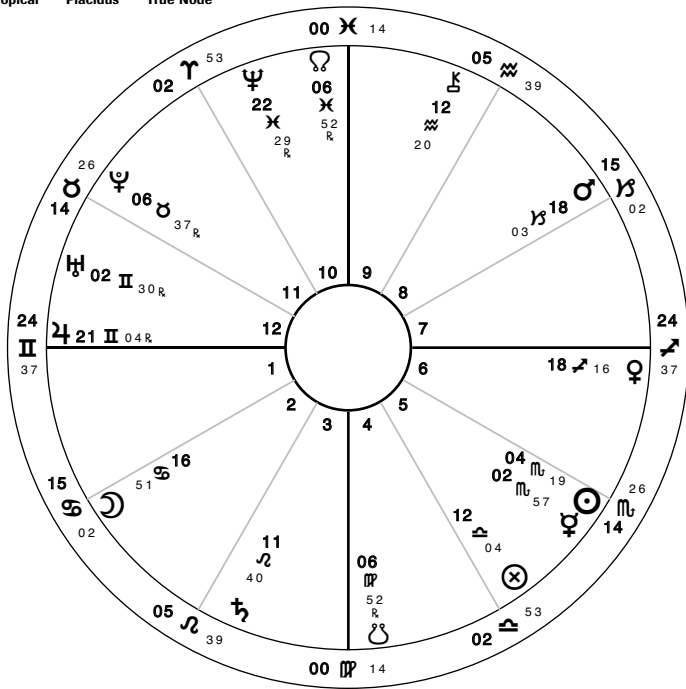
Oct 7 1885 10:00 AM LMT  
 Copenhagen > Kø Denmark 12E35  
 55N40 09:09:40 GMT  
 Oct 7 1885 09:09:40 GMT  
 Tropical Placidus True Node



11  
**Chart & Data Section**  
**Uranus: Individualism and Group Mind — the Paradox**

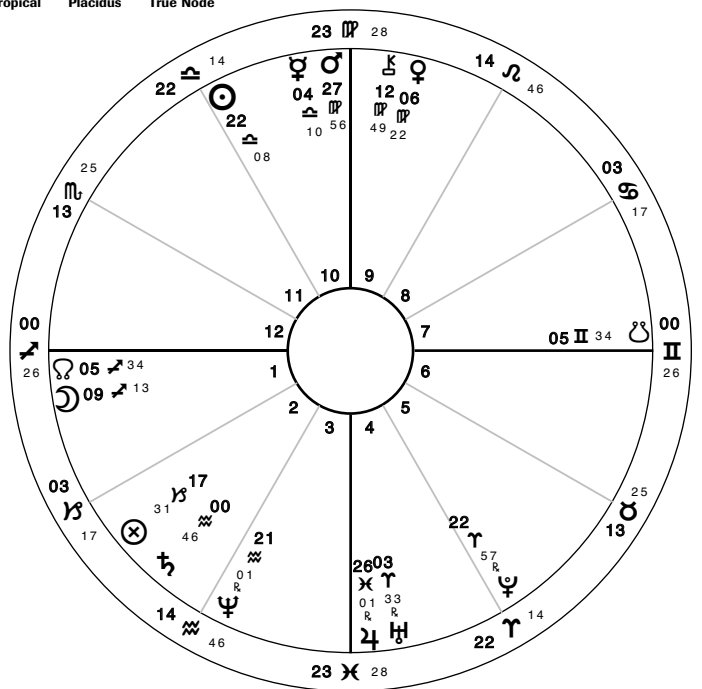
### THEODORE ("TEDDY") ROOSEVELT

Oct 27 1858 7:45 PM LMT  
 New York New York 74W00  
 40N43 00:41:00 GMT  
 Oct 28 1858 00:41:00 GMT  
 Tropical Placidus True Node



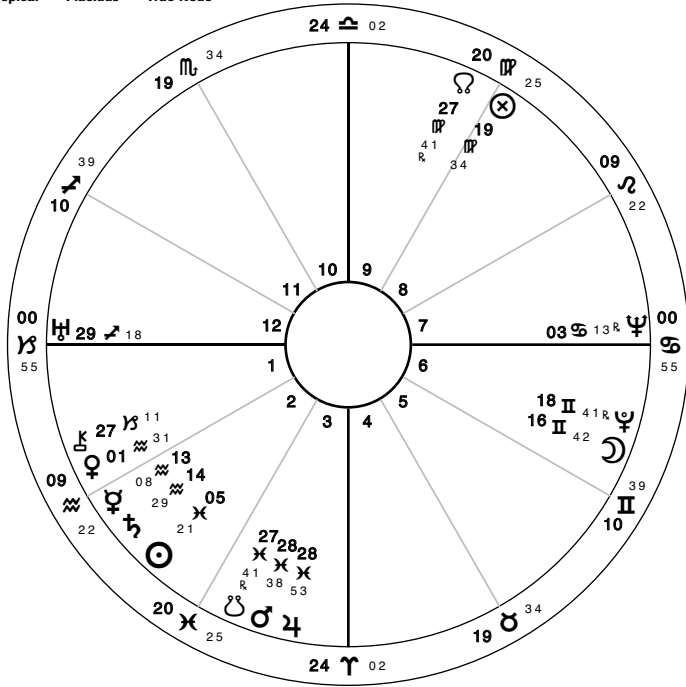
### FREDRICH NIETZSCHE

Oct 15 1844 10:00 AM LMT  
 Rockenhausen Germany 7E49  
 49N38 09:28:44 GMT  
 Oct 15 1844 09:28:44 GMT  
 Tropical Placidus True Node



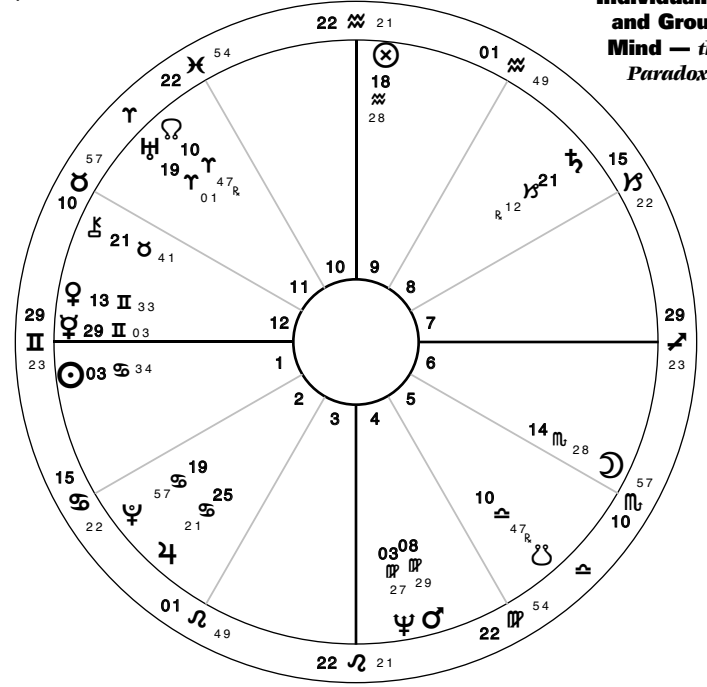
### ADELLE DAVIS

Feb 25 1904 3:00 AM CST  
 Lizton Indiana  
 39N53 86W33  
 Feb 25 1904 09:00:00 GMT  
 Tropical Placidus True Node



### COLIN WILSON

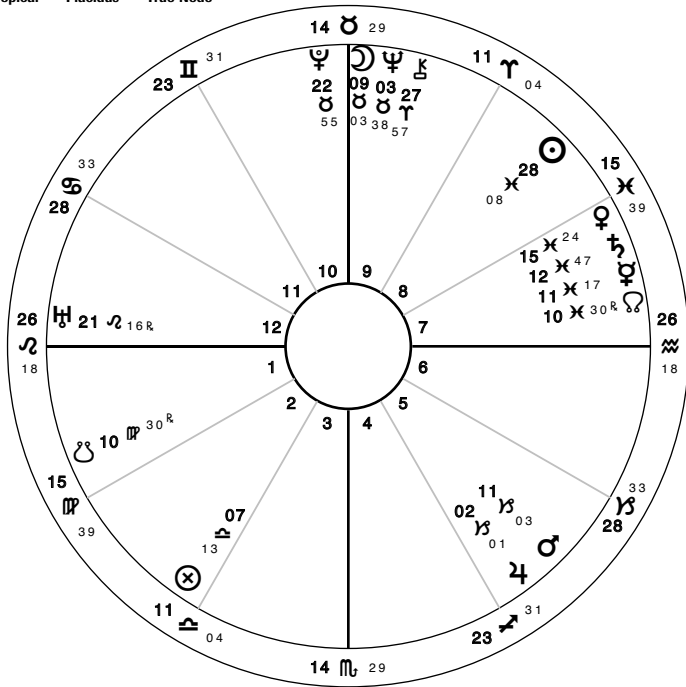
Jun 26 1931 4:30 AM GMD  
 Leicester England  
 52N38 1W05  
 Jun 26 1931 03:30:00 GMT  
 Tropical Placidus True Node



**12**  
**Chart & Data**  
**Section**  
**Uranus:**  
**Individualism and Group Mind — the Paradox**

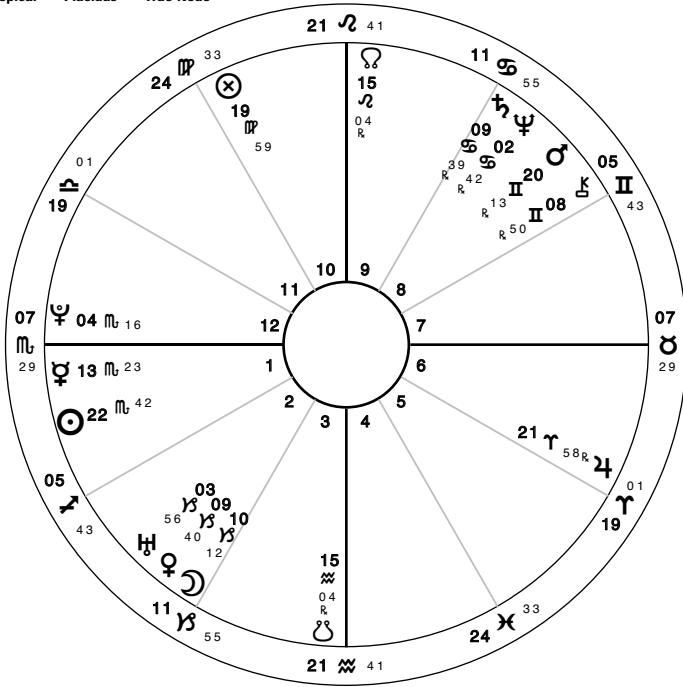
### EDGAR CAYCE

Mar 18 1877 3:03:00 PM LMT  
 Hopkinsville Kentucky  
 51N30 0W10  
 Mar 18 1877 15:03:40 GMT  
 Tropical Placidus True Node



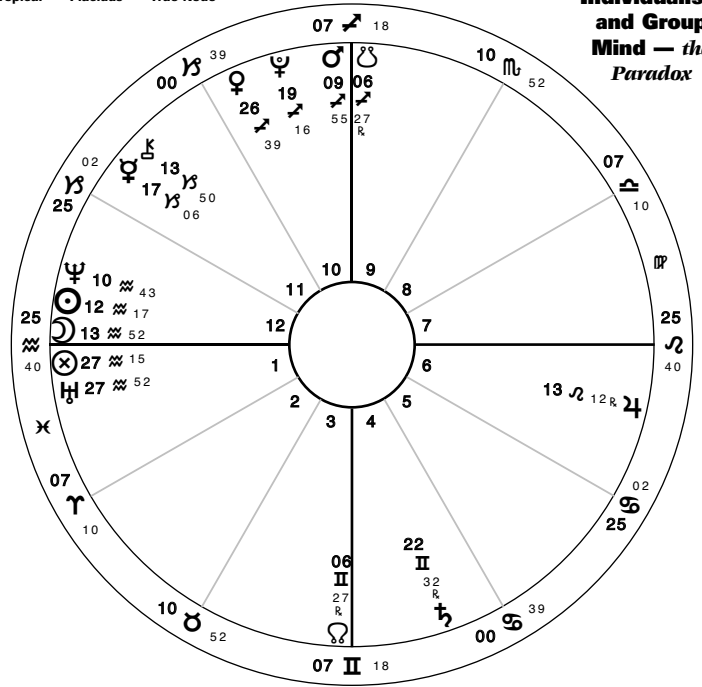
## WILLIAM HERSCHEL

Nov 15 1738 6:00 AM LMT  
 Hanover > Hanno Germany  
 52N24 9E44  
 Nov 15 1738 05:21:04 GMT  
 Tropical Placidus True Node



## SHUTTLE COLUMBIA EXPLOSION

Feb 1 2003 7:58 AM CST  
 Houston Texas  
 29N46 95W22  
 Feb 1 2003 13:58:00 GMT  
 Tropical Placidus True Node

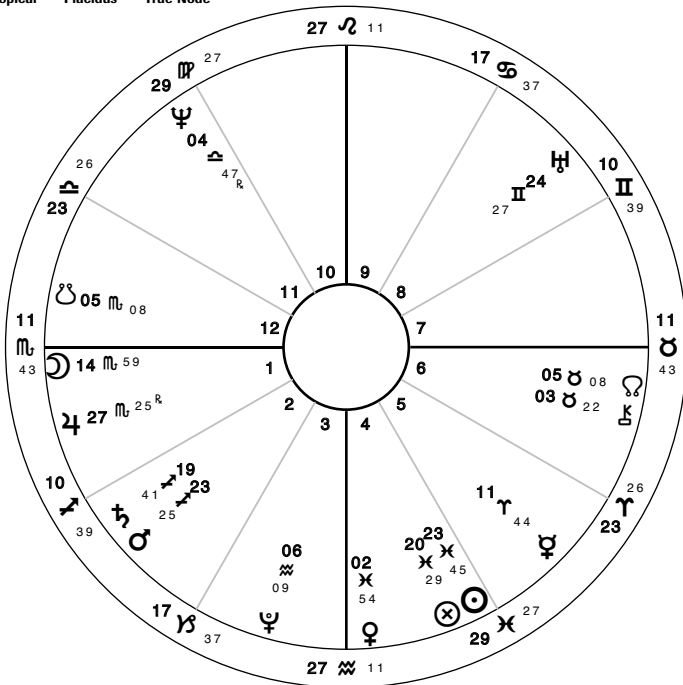


## 13 Chart & Data Section

**Uranus:  
Individualism  
and Group  
Mind — the  
Paradox**

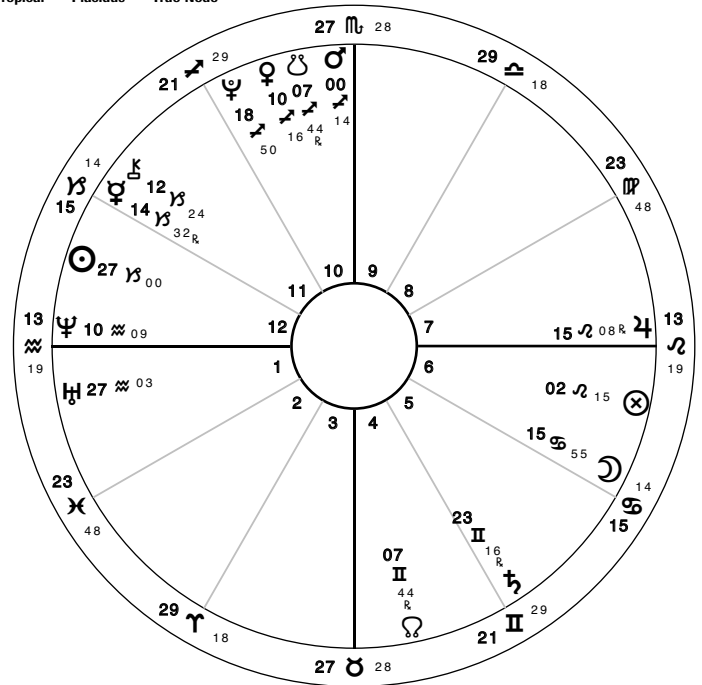
## URANUS DISCOVERY CHART

Mar 13 1781 10:30 PM LMT  
 Bath England  
 51N23 2W22  
 Mar 13 1781 22:39:28 GMT  
 Tropical Placidus True Node



## COLUMBIA'S 28TH LIFT OFF

Jan 17 2003 8:17 AM EST  
 Cape Canaveral Florida  
 28N24 80W36  
 Jan 17 2003 13:17:00 GMT  
 Tropical Placidus True Node



### JUPITER PROFILE

Mass (kg)  $1.90 \times 10^{27}$   
Diameter (km) 142,800  
Mean density (kg/m<sup>3</sup>) 1314  
Escape velocity (m/sec) 59500  
Average distance from Sun (AU) 5.203  
Rotation period (length of day in Earth days) 9.8  
Revolution period (length of year in Earth days) 11.86  
Obliquity (tilt of axis degrees) 3.08  
Orbit inclination (degrees) 1.3  
Orbit eccentricity (deviation from circular) 0.048  
Mean surface temperature (K) 120 (cloud tops)  
Visual geometric albedo (reflectivity) 0.44  
Atmospheric components  
    10% helium, 90% hydrogen, .07% methane  
Faint ring. Ring's Infrared spectra imply dark rock fragments.

### SATURN PROFILE

Mass (kg)  $5.69 \times 10^{26}$   
Diameter (km) 120660  
Mean density (kg/m<sup>3</sup>) 690  
Escape velocity (m/sec) 35600  
Average distance from Sun (AU) 9.539  
Rotation period (length of day in Earth days) 10.2  
Revolution period (length of year in Earth days) 29.46  
Obliquity (tilt of axis degrees) 26.7  
Orbit inclination (degrees) 2.49  
Orbit eccentricity (deviation from circular) 0.056  
Mean temperature (K) 88 K (1 bar level)  
Visual geometric albedo (reflectivity) 0.46  
Atmospheric components:  
    3% helium, 97% hydrogen, .05% methane  
Rings are 270,000 km in diameter, but only a few hundred meters thick. Particles are centimeters to decameters in size and are ice (some may be covered with ice); there are traces of silicate and carbon minerals. There are four main ring groups and three more faint, narrow ring groups separated by gaps called divisions.

### NEPTUNE PROFILE

Mass (kg)  $1.02 \times 10^{26}$   
Diameter (km) 49528  
Mean density (kg/m<sup>3</sup>) 1640  
Escape velocity (m/sec) 23300  
Average distance from Sun (AU) 30.06  
Rotation period (length of day in Earth days) 19.1  
Revolution period (length of year in Earth days) 164.8  
Obliquity (tilt of axis degrees) 29.6  
Orbit inclination (degrees) 1.77  
Orbit eccentricity (deviation from circular) 0.009  
Mean temperature (K) 48\*  
Visual geometric albedo (reflectivity) 0.51  
Atmospheric components:  
    25% helium, 74% hydrogen, 1% methane (at depth)  
Rings are narrow, and contain concentrations of particles called ring arcs.

\* Neptune is warmer than expected! It generates more internal heat than Uranus.

### URANUS PROFILE

Mass (kg)  $8.68 \times 10^{25}$   
Diameter (km) 51118  
Mean density (kg/m<sup>3</sup>) 1290  
Escape velocity (m/sec) 21300  
Average distance from Sun (AU) 19.18  
Rotation period (length of day in Earth days) 17.9  
Revolution period (length of year in Earth days) 84  
Obliquity (tilt of axis degrees) 97.9  
Orbit inclination (degrees) 0.77  
Orbit eccentricity (deviation from circular) 0.047  
Mean temperature (K) 59  
Visual geometric albedo (reflectivity) 0.56  
Atmospheric components  
    15% helium, 83% hydrogen, 2% methane (at depth)  
Uranus has a system of narrow, faint rings. Ring particles are dark, and could consist of rocky or carbonaceous material.



## SATELLITES OF URANUS

(credits: Author/Curator: Dr. David R. Williams,  
dwilliam@nssdc.gsfc.nasa.gov, NSSDC, Mail Code 633  
NASA Goddard Space Flight Center, Greenbelt, MD  
20771, 1-301-286-1258; NASA Official: J. H. King,  
joseph.h.king@gsfc.nasa.gov, V1.0, 14 July 1995, Last  
Updated: 3 October 2002, DRW)

### MAJOR SATELLITES OF URANUS

Miranda (V)  
Ariel (I)  
Umbriel (II)  
Titania (III)  
Oberon (IV)

### LESSER SATELLITES (*discovered in 1986*)

Cordelia (VI)  
Ophelia (VII)  
Bianca (VIII)  
Cressida (VIX)  
Desdemona (X)  
Juliet (XI)  
Portia (XII)  
Rosalind (XIII)  
Belinda (XIV)  
Puck (XV)

### More Recently Discovered Moons

Caliban\* (XVI, 1997 U1)  
Stephano\* (XX, 1999 U2)  
Sycorax (XVII, 1997 U2)  
Prospero (XVIII, 1999 U3)  
Setebos\* (XIX, 1999 U1)

\*The names Prospero, Setebos, and Stephano are provisional.

## Uranus (*The Myth*)

by Ron Leadbetter  
obtained from: [www.pantheon.org/articles/u/uranus.html](http://www.pantheon.org/articles/u/uranus.html)

Uranus, also known as Ouranos (Oo-rah-nos), was the embodiment of the sky or heavens, and known as the god of the sky. He was the first son of Gaia (the earth) and he also became her husband. According to Hesiod, their children included the Titans: six sons (Oceanus, Coeus, Crius, Hyperion, Iapetus and Cronus) and six daughters (Theia, Rhea, Themis, Mnemosyne, Phoebe and Tethys). There were other offspring: the Cyclopes, (who were named Brontes, Steropes and Arges and were later known as "one eyed giants"), and also the three monsters known as the Hecatonchires, who each had one hundred hands and fifty heads. Their names were Briareus, Cottus and Gyes. Other offspring of Uranus and Gaia were the Erinyes, who were spirits of punishment and goddesses of vengeance. The Erinyes avenged wrongs which were done to family, especially murder within a family. After Uranus had been castrated, his blood fell to earth (Gaia) and conceived the Giants. These were of monstrous appearance and had great strength. Similarly, in some versions Aphrodite is believed to have risen from the foam created by the sex organs of Uranus after they were thrown into the sea by his son Cronus.

Uranus was aghast by the sight of his offspring, the Cyclopes and the Hecatoncheires. (In a differing version Uranus was frightened of their great strength and the fact that they could easily depose him). He hid them away in Tartarus (the bowels of the earth) inside Gaia, causing her intense pain. The discomfort became so great that she asked her youngest son, Cronus, to castrate his father, as this would cease his fertility and put an end to more monstrous offspring. To accomplish this deed Gaia made an adamantine sickle, which she gave to Cronus. That night Uranus came to lay with Gaia. And as the sky god drew close, Cronus struck with the sickle and cut off Uranus's genitals. From the blood that fell from the open wound were born nymphs and giants, and when Cronus threw the severed genitals into the sea a white foam appeared. From this foam Aphrodite the goddess of love and desire was born.

A slightly differing version tells of Uranus being so vast that he could cover Mother Earth (Gaia) and easily take advantage of her fruitfulness, but Gaia tired of her exuberant fertility and begged her sons to free her from the excessive embrace of Uranus. All refused except Cronus. Armed with a sickle he castrated Uranus, and the blood which fell from the mutilation gave birth to the Erinyes (Furies), the Giants and the Meliae (Nymphs of the manna ash trees). And when Cronus threw the sickle into the sea the island of Corfu, home of the Phaeacians, sprang up).

After Uranus (the sky) had been emasculated, the sky separated from Gaia (the earth) and Cronus became king of the gods. Later, Zeus (the son of Cronus) deposed his father and became the supreme god of the Greek Pantheon.