

Causes of Celestial Motion

Dong-il Song

Korea Meteorological Administration, Daejeon, Republic of Korea

*Corresponding Author

Dong-il Song, Korea Meteorological Administration, Daejeon, The Republic of Korea.

Submitted: 2023, Mar 10; Accepted: 2023, Apr 07; Published: 2023, May 04

Citation: Dong-il Song (2023). Causes of Celestial Motion. *Envi Scie Res & Rev*, 6(2), 442-446.

Abstract

The purpose of this research is to study the causes of celestial motion. For the method, Earth, Venus, and the Sun were investigated. As a result. In celestial bodies such as the Earth, current flows due to the temperature difference, this current generates a magnetic field, and this magnetic field generates rotational force to rotate the celestial body. A celestial body has two forces: rotational force and gravity. Therefore, it makes it orbit the same celestial body as the surrounding planet. That is, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune revolve around the Sun. The conclusion is that the current in the celestial body creates a magnetic field and rotates the celestial body. Also, the rotating celestial body acts as an electric generator. The Earth also rotates, so it functions as an electrical generator.

Keywords: Magnetic Field, Geomagnetism, Earth Rotation, Celestial Motion, Reverse Rotating Planets, Celestial Kinetic Energy, Volcanic Eruptions, Earthquakes, Hot Springs, Weather.

1. Introduction

The thermoelectric effect of two metals was discovered by T. J. Seebeck, a German physicist [1]. The thermoelectric effect of nonmetals and general materials was researched by Korean scientist Dong-il Song [2]. In the celestial body, an electric current flows due to the temperature difference, this electric current generates a magnetic field, and this magnetic field generates a rotational force. The celestial body rotates, and due to this rotational motion, it generates electricity similar to an electric generator, and additional current is generated. In the case of the Earth, an electric current flows due to the temperature difference in the Earth, and this current generates a magnetic field; this magnetic field generates a rotational force, and the Earth rotates. Due to this rotational motion, electricity is generated like an electric generator, and additional current is generated. The Earth is in the form of a combination of an electric motor and generator and continues to generate a magnetic field.

Earth's material is magnetically loaded by the Earth's current to become a permanent magnet, and an additional magnetic field is generated by the electric current developed by the Earth's rotational motion, making the Earth like a magnet. That is, it becomes as if a permanent magnet and an electromagnet were combined. The Earth also rotates, so it functions as an electrical generator. In the Earth's electric generator, electrical energy is charged to the Earth. Some of the electrical energy is converted into thermal energy. This thermal energy is associated with volcanic eruptions,

earthquakes, hot springs and weather. In the case of the sun, a strong magnetic field is generated by the temperature difference of the sun. The universe is filled with magnetic fields emanating from celestial bodies. The conclusion is that the temperature difference current of the celestial body generates a magnetic field and causes the celestial body to rotate. A celestial body rotates like an electric motor that rotates with the power of a magnetic field.

2. Causes of Celestial Motion

In celestial substances such as soil, a potential difference is generated due to a temperature difference and electric current flows. Figure 1 shows the Earth's magnetic field and the force direction of the magnetic field. In the case of the Earth. Temperatures at the equator are high, and temperatures at the South and North Poles are low. Additionally, the surface temperature of the Earth is low, and the temperature at the center of the Earth is high. Therefore, current (I_t) flows through the earth due to the temperature difference, this current generates a magnetic field, and this magnetic field rotates the earth (Fleming's left-hand rule, motor principle).

The Earth rotates by the force of a magnetic field, and as it rotates, it acts as a generator, continuing to rotate as if a motor and generator were combined. When the earth rotates, it acts like a generator to generate an electromotive force and an electric current (I_d) flow. The total current (I) of the Earth is $I=I_t + I_d$. Then, an electric current (I) flows through the earth, and this electric current generates a magnetic field, which rotates the earth with

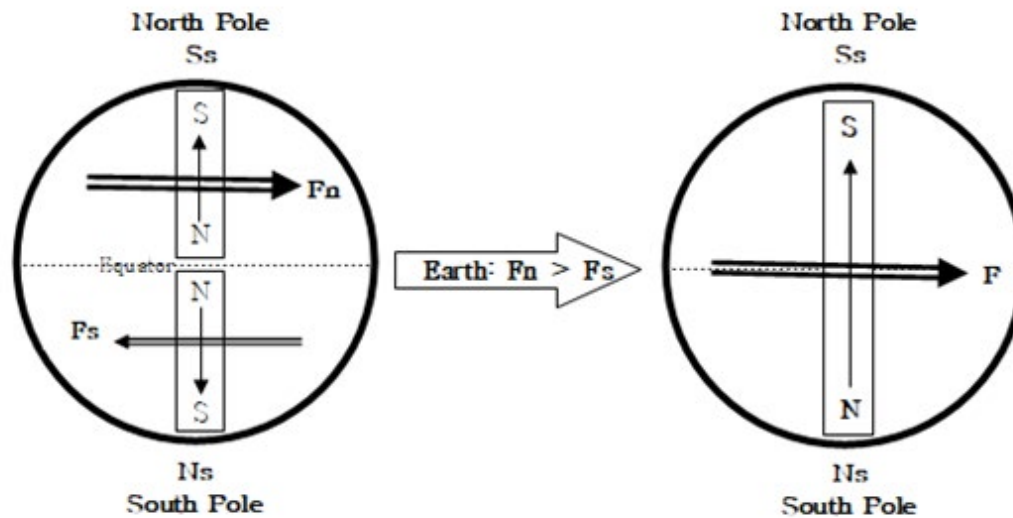
this magnetic field (Fleming's left-hand rule, principle of motion). The earth rotates with the force of a magnetic field, and when the earth rotates, it acts like a generator, and the earth continues to rotate as if a motor and a generator were combined. The Earth also rotates, so it functions as an electrical generator. In the Earth's electric generator, electrical energy is charged to the Earth. Some of the electrical energy is converted into thermal energy. This thermal energy is associated with volcanic eruptions, earthquakes, hot springs and weather. The jet stream of the Earth's Northern Hemisphere flows eastward and that of the Southern Hemisphere flows westward [3]. This is proof that the magnetic field forces

rotate the jets and Earth. In other words, the Earth's Northern Hemisphere generates forces in the east direction, whereas the Southern Hemisphere generates forces in the west direction

3. Cause of Earth's Rotation

It is known that the Earth's rotation has been rotating since the beginning, but this is wrong.

The force of the magnetic field in the north (F_n) is greater than the force in the magnetic field in the south (F_s). Therefore, the direction of the force of the magnetic field is equal to F_n (Figure 1).



S: S(Magnet), N: N(Magnet), F_n : Force of Northern Hemisphere magnetic field,
 F_s : Force of Southern Hemisphere magnetic field, F : Force of magnetic field
 S_s : Sum of Earth's magnetism (S), N_s : Sum of Earth's magnetism (N)

Figure 1: Earth's magnetic field and force direction.

So, the Earth rotates from west to east. That is, the force of the magnetic field rotates the Earth.

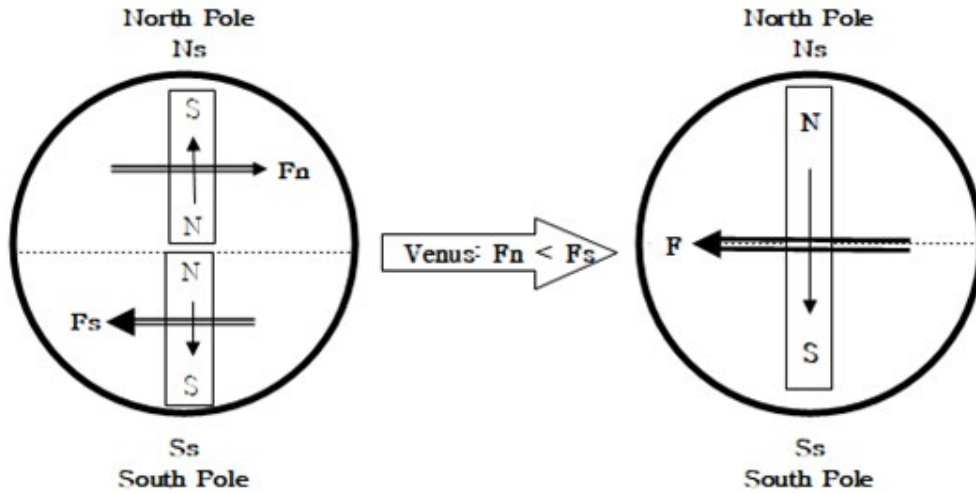
Evidence: Because of the force (direction) of the Northern Hemisphere magnetic field, the jet stream moves from west to east in the Northern Hemisphere [3].

4. Causes of Reverse Rotating Planets

It is known that the planet's counterrotation has been counterrotating

from the beginning, but this is wrong. Since the direction of the magnetic field of a reverse rotating planet is opposite, the direction of the force of the magnetic field is also opposite. Therefore, the direction of rotation of the planet (celestial body) is also opposite.

$F_s > F_n$ is $N_s(N)$ in the north (North pole) and $S_s(S)$ in the south (South pole). Therefore, the direction of the magnetic field is reversed, and the force of the magnetic field is also reversed (Figure 2).



S: S(Magnet), N: N(Magnet), F_n : Force of Northern Hemisphere magnetic field
 F_s : Force of Southern Hemisphere magnetic field, F : Force of magnetic field
 S_s : Sum of Venus's magnetism (S), N_s : Sum of Venus's magnetism (N)

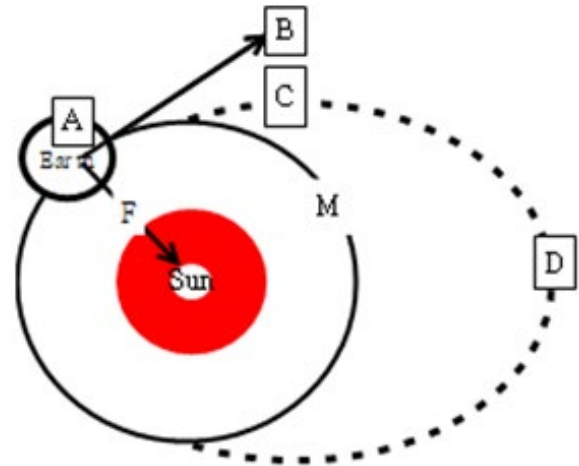
Figure 2: Venus's magnetic field and force direction.

So Venus rotates in the opposite direction.

Figure 2 shows the magnetic field of Venus and the direction of its force. Venus and Uranus rotate in reverse because F_s (force of Southern Hemisphere magnetic field) is larger than F_n (force of Northern Hemisphere magnetic field). In other words, Venus and Uranus spin backwards compared to most of the other planets. This means that on Venus and Uranus, the Sun rises in the west and sets in the east.

5. The cause of the Planet Moving to the Aphelion as it Orbits

Figure 3 shows "The cause of the planet moving to the aphelion as it orbits" In the case of the Earth, the Earth orbits in the orbit of the Sun's gravitational force and the Sun's magnetism. The direction of the magnetic field force of the solar gravitational wave at point "A" is the direction of the arrow (B) according to Fleming's left-hand rule. The Earth advances in an elliptical orbit to point "C" due to the direction and inertia of the force of the sun's gravity (F) and magnetic field. At aphelion(D), the magnetic field strength of the solar gravitational waves is weakened. Therefore, due to the gravitational force of the sun, the earth moves again toward perihelion (See Figure 3).



M: Magnetic field of Gravitation-wave, **F:** Gravity of Sun, **A:** Location of Earth

B: Direction of force of Fleming's left-hand rule, **C:** Earth's orbit

D: Aphelion (Aphelion is the point on its orbit when the Earth is farthest from the Sun)

Figure 3: Earth's orbit and direction of force

6. Orbit of a Celestial Body

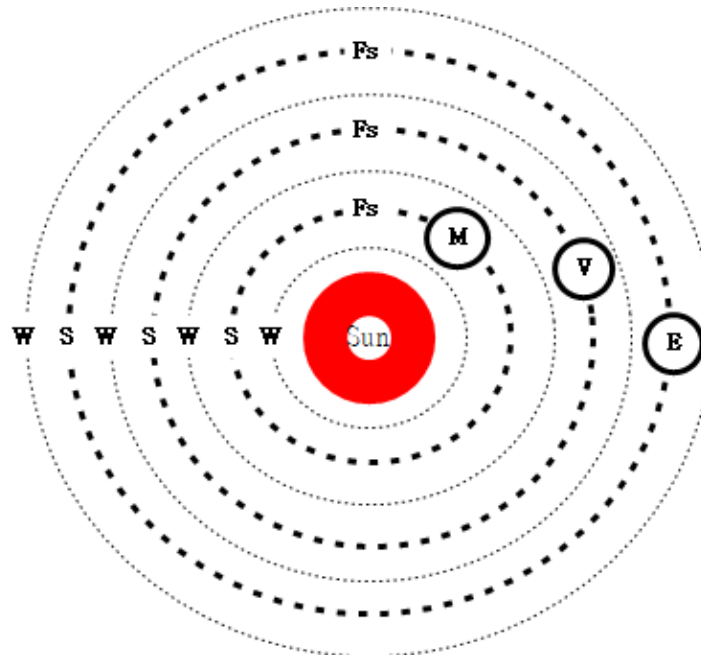
Due to the difference in temperature, an electric current flow through the celestial body, and this current generates a magnetic field, and this magnetic field generates a rotational force and rotates

the celestial body (Fleming's left-hand rule). A celestial body has two forces: rotational force and gravity. These two forces rotate the celestial bodies (Sun) and cause the celestial bodies around them to orbit. Thus, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune orbit the Sun. In other words, the current in the celestial body creates a magnetic field and rotates the celestial body. Figure 4 shows the orbits of the sun and the planets of the solar system.

A celestial body has a gravitational force toward the center and

a magnetic field force that rotates the celestial body around it. The strength of this magnetic field is repeatedly strengthened and weakened in a sinusoidal fashion with the distance of the celestial body [4].

The strength of the solar magnetic field varies between strong and weak in a sinusoidal fashion with distance from the sun, and Mercury, Venus, Earth, and Mars orbit the sun as shown in Figure 4.



Fs: Magnetic field force, M: Mercury, V: Venus, E: Earth, W: Weak, S: Strong

Figure 4: Sun's orbit.

In the case of Earth, it orbits around the sun due to the force of the sun's gravity and the sun's magnetic field. The orbit of the solar system is related to the "Titius-Bode law". Depending on the distance, there are many strong and weak orbits of the solar magnetic field, and the force of the magnetic field is stronger at the point where the strong magnetic field orbits overlap, so the planets (Mercury, Venus, Earth, Mars) orbit around the sun.

7. Discussion

The kinetic energy of the celestial body is due to the temperature difference. The temperature difference causes an electric current to flow through the celestial body and creates a magnetic field. This magnetic field causes the celestial body to rotate (Fleming's left-hand rule). Rotating celestial bodies generate gravitational waves. The celestial body causes power generation and rotation of the celestial body as if an electric motor and a generator were combined. A rotating celestial body functions as an electric generator. The Earth also rotates, so it functions as an electric generator. Electric energy from the Earth's electric generator is

charged to the Earth. Some of the electrical energy is converted into thermal energy. This thermal energy is associated with volcanoes, earthquakes, hot springs and weather. If the magnetic field in the Southern Hemisphere of a celestial body is strong, it will retrograde like Venus. The universe is filled with magnetic fields emanating from celestial bodies.

Data Availability: Data supporting the findings of this manuscript are available from the corresponding author upon reasonable request. Further documentation about data processing is available at Electromotive Force Generated in All Materials under Temperature Difference, doi.org/10.21203/rs.3.rs-1137728/v5

Code Availability: Custom codes that support the findings of this research are available at a dedicated "Electromotive Force Generated in All Materials under Temperature Difference" (doi.org/10.21203/rs.3.rs-1137728/v5)

Acknowledgment

I thank the reviewers for reviewing this paper. We would like to thank his wife, Yeongsuk Lee, and daughter, Jihyeon Song, who helped with the proofreading of this thesis. I am submitting this thesis as a retired individual from the National Weather Service. Therefore, we are not interested in any institution or company. The cost will be paid by the author himself.

Author Contribution

The author (Dong-il Song) confirms sole responsibility for the following: study conception and design, data collection, analysis and interpretation of results, and manuscript preparation.

Competing Interest: The author declares that there is no competing interest.

References

1. Seebeck effect https://en.wikipedia.org/wiki/Thermoelectric_effect#Seebeck_effect Accessed on 8 September 2021.
2. Dong-il Song (2022), Electromotive Force Generated in All Materials under Temperature Difference (Preprint), p3-4. doi.org/10.21203/rs.3.rs-1137728/v5
3. K. Kim, Encyclopedia of Meteorology (jet stream, Hyangmunsa, 1992) p474
4. Dong-il Song (2022), Causes of Gravitational Waves, J Robot Auto Res, 3(1), 68, doi.org/10.33140/JRAR.03.01.04

Copyright: ©2023 Dong-il Song. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.