

About the Wang Eclipse, again

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The gravity measurements by Qian-chen Wang in March 1997 have been difficult to explain. Some explanations are based on the corona of our sun. Inconsistencies are demonstrated in these explanations. A consistent explanation is presented in this article. In this article the phenomenon is explained as a small reduction of the contribution in gravity from the Sun and the Moon due to shielding.

1. Introduction

Many attempts have been made in order to explain the phenomena observed in 1997. The fact that the results include two bumps instead of only one caused the idea that the corona of our sun is the cause of the effect. Gravitational shielding from the corona has been suggested as a cause. However, that idea implies an enormous amount of mass in the corona and the effect should have opposite sign. This idea is therefore not realistic.

An interpretation based on gravitational shielding from our sun and moon has been suggested by this author in [1]. The reason why no effect was observed during the eclipse was explained by the fact that gravitational shielding affects the gravimeter in the same way as it affects nearby parts of our planet. This follows from the fact that these two masses are both in a free fall. Although these two effects have about the same magnitude they are different regarding their distributions over time. A mechanical interaction between different parts of our planet can cause the effect on the gravimeters position on Earth to extend over a greater region than the effect on the gravimeter itself. This is one possibility to explain why the effect on our planet has a longer duration and why we have got two negative bumps. If only gravimeter were affected we would have one positive bump.

A different interpretation was given by Thierry de Mees in [2]. Thierry's interpretation is based on the corona, but not on gravity. Instead a generation of electromagnetic waves in the corona is assumed to affect the gravimeter. A problem is that only central parts of the Moon are assumed to cause the effect. This would mean that electromagnetic waves have to penetrate peripheral parts of the Moon.

2. Observation

The data from the experiment demonstrate very clearly that the effect in the gravimeter happens about 8 minutes before the optical eclipse. If gravitational effect is the cause we can expect a very small decrease in the sum of contributions from our sun and moon. This would be indicated as a small increase in total gravity that propagates from our moon in about 1 second. The time of arrival indicates an effect from the Moon. Instead of one positive bump we have two negative bumps.

3. The Speed of Gravity

Le Sage presented an interesting theory about gravity based on an ether constituted by fast particles. However, Le Sage made an important error, not yet discovered. The high stability in plan-

etary orbits was assumed to indicate an absurd speed of gravity and small aberration, so his theory was not accepted. However, the lack of aberration can be explained by stationary gravity in the Sun and Earth system. The high relation of mass between Sun and Earth means that gravity is not moving in relation to our sun although gravity is a relation among moving particles. Constant gravity makes the speed of the observer irrelevant, and no aberration. Aberration would be observed if Sun and Earth had about the same mass. Aberration exists also in gravity due to shielding by the Moon. Such aberration is only 3.3×10^{-6} .

We can explain the lack of aberration in gravity in a different way by stating that gravity was produced 8 minutes in advance in the same direction. Gravity is represented by those ether particles that are *not* present in the ether due to absorption. The shielding effect was produced in the Moon 1 second ago. The speed of individual ether particles can be c the speed of light. The generated ether wind has a speed much smaller than c .

4. The Wang Results

The shielding effects on two bodies in free fall are the same. The zero result during the eclipse is explained. Two opposite effects have about the same magnitude in the gravimeter's position. Mechanical coupling between parts of our planet can explain why the effect on Earth has a longer duration. This explains two bumps. See Fig 2 in [1]. This can be difficult to explain in detail due to the small elevation angle of about 20 degrees.

About 9 o'clock the elevation angle of our sun is increasing, and vertical component as well. This can explain why the second bump is larger than the first one.

Moon's position in relation to Sun changes 2 times the Sun diameter during an optical eclipse. Effect from the corona would generate 1.5 times between centers of bumps. Observed separation is about 2.5 times. This can be united with mechanical coupling since our planet is larger than the Moon.

5. Result

Gravitational shielding is indicated. The experiment needs to be repeated, if possible in a greater elevation angle.

References

- [1] John-Erik Persson, "About the Wang Eclipse", Proceedings of the NPA 2012. www.worldsci.org/pdf/abstracts/abstracts_6620.pdf
- [2] Thierry de Mees, "The Wang anomaly during a total Solar eclipse: an electromagnetic analysis" General Science Journal 2012. Available at www.gsjournal.net