About the Wang Eclipse

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Results from a precision gravimeter experiment in China 1997 demonstrate an assumed gravitational shielding present before and after the eclipse. No (or very small) effect is demonstrated during the eclipse. This is explained in [1] as caused by a very massive corona around the Sun. An alternative interpretation is presented here by means of a compensating effect due to gravitational shielding effecting central parts of our planet. Just before and just after the eclipse gravitational shielding effects exist in peripheral parts of our planet, but not in the gravimeter.

1. Introduction

The gravimeter detected vertical acceleration during a total eclipse. Instead of a positive acceleration during the eclipse approximately zero effect was detected. However, just before and just after the eclipse a negative acceleration was detected. In [1] this phenomenon is explained by a very massive corona around the Sun. Since the corona around the Sun is formed as a spherical shell we have reasons to search for alternative interpretations.

2. Analysis

Instead of a spherical shell as the reason we suspect here that the effect on the gravimeter is caused by a combined effect on gravimeter mass and the mass of the Earth. Since our planet is in free fall it is also dependent on gravitational shielding. The effect on the Earth is registered by the gravimeter as a negative effect. During the eclipse these two effects add up to zero, but just before and just after the eclipse the effect remains in peripheral parts of our planet, but are absent in the gravimeter. These effects are not symmetric and can therefore change the form of the Earth. Horizontal acceleration is also possible. We have thereby an explanation to the fact that we have got two negative bumps instead of one positive bump (Fig. 1). The evaluation is complicated by the fact that the eclipse is not in a zenith position and distortion of the form of our planet *can* affect the gravimeter.

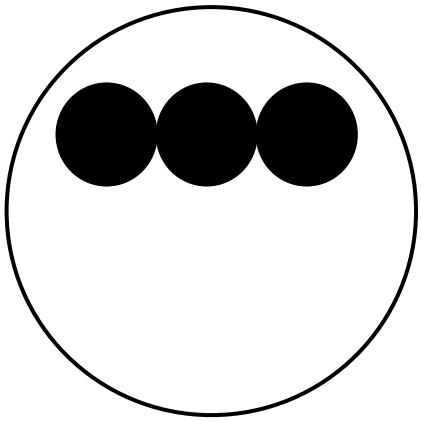

Fig. 1. The gravitational shadow from the Moon is moving over the Earth. The size of the Earth is about four times the size of the Moon.

The registration from the gravimeter is described in Fig 2 also. We can see how the two effects are combined. This diagram is in accordance to the report by Qian-Shen Wang in 2000 [2].

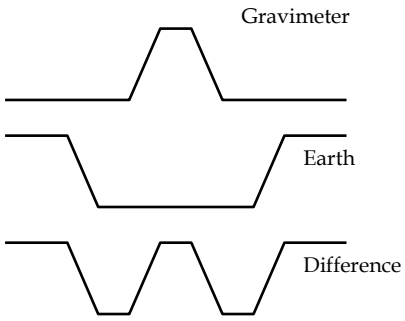

Fig. 2. The shielding effect on the Earth is registered as negative by the gravimeter. The registration contains therefore the difference between effect on the gravimeter and effect on the Earth.

3. Consequences

According to Le Sage's model for gravity a small difference in the number of ether particles in two opposite directions explains gravity as an effect of an ether-wind. This ether-wind is many orders of magnitude smaller than the speed of individual ether particles. Gravity is therefore caused by a relation between moving particles. However, this *relation* is not moving in relation to the source of gravity. This explains why we cannot see any aberration in the *constant* gravity from the Sun. These ideas are described in more detail in a report to NPA 2012 [3]. A factual zero speed of gravity has therefore produced an *illusion* of infinite speed of gravity. Wang's report can therefore not tell us the speed of gravity. Instead the observation indicates that light needs in the order of 8 minutes to reach us from the Sun.

The speed of individual ether particles can very well be the speed of light *c*. It is therefore theoretically possible that a gravitational aberration can exist in the *changes* in gravity produced by the gravitational shielding. However, since the Moon's orbiting is only 1 km/s this aberration is only 3×10^{-6} radians. This small effect in light and gravity must be difficult to detect.

This test should be repeated in a direction near zenith.

References

[1] Robert de Hilster, "The Wang Eclipse", *Proceedings of the NPA* 2012.
[2] Qian-Shen Wang, "Precise Measurements of Gravity Variations during a Total Solar Eclipse", *Physical Review D* **62**: 041101-1.
[3] John-Erik Persson, "Stokes Was Wrong", *Proceedings of the NPA* 2012.