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# Shocking Findings: The Celestial Dance of Neptune and Uranus and WEC Energy Group's Stock Price

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#### Abstract

This research investigates the potential relationship between the distance between Neptune and Uranus and the stock price of WEC Energy Group (WEC). While at first glance, these two phenomena may seem unrelated, our analysis reveals a surprising connection that has eluded previous researchers. Utilizing data from Astropy and LSEG Analytics (Refinitiv), we observed a remarkable correlation coefficient of 0.9686906 and p < 0.01 between the celestial bodies' distance and WEC's stock price from the years 2002 to 2023. This correlation suggests that perhaps the gravitational pull of these distant planets or the cosmic energies at play may have some influence on earthly financial markets. Our findings open up new avenues for exploring celestial influences on stock prices and may prompt investors to keep an eye on both the skies and the stock ticker for potential market insights.

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#### 1. Introduction

As we all know, the stock market is often described as a "celestial dance" of supply and demand, where prices fluctuate like the unpredictable movements of heavenly bodies. And speaking of celestial bodies, in this paper, we delve into the cosmic realm to explore the potential link between the distance separating Neptune and Uranus and the stock price of WEC Energy Group (WEC). While this connection may seem as outlandish as claiming that Mercury's retrograde influences our investment decisions, our analysis uncovers а surprising correlation that may just leave you starry-eyed.

Of course, when we mention the planets Neptune and Uranus, we aren't suggesting that stock prices are governed by mysterious cosmic forces alone. However, the data analysis in this study presents a correlation that is quite simply out of this world. In fact, when we crunched the numbers from 2002 to 2023, we were shocked to find a correlation coefficient so high, it could send the sturdiest rocket ship into orbit. With a coefficient of 0.9686906 and a p-value less than 0.01, one might say that the gravitational pull of these distant planets appears to have some unexpected influence on the Earthly realm of finance.

Our research, rooted firmly in astrophysics and financial analytics, sends a cosmic shiver down the spine of conventional economic theory. Perhaps the interplay of planetary orbits and stock price movements isn't merely a far-fetched idea to dismiss over a cup of coffee. While we certainly wouldn't advise astrology signs to replace earnings reports, our findings do nudge open the door to the notion that celestial mechanics may have a nuanced impact on the markets.

So, fasten your seat belts and secure your astronaut helmets as we launch into this exploration of the cosmic ties to financial movements. Whether you're an astrophysicist or a stockbroker, we invite you to join us on this celestial rollercoaster ride of discovery.

### 2. Literature Review

A comprehensive review of related literature reveals a dearth of studies directly examining the interplay between celestial bodies and stock prices, much less the specific relationship between the distance separating Neptune and Uranus and the stock price of WEC Energy Group (WEC). The authors find that such unconventional correlations have remained largely unexplored in academic realm. the However, pioneering studies by Smith et al. and Doe et al. have paved the way for unconventional interdisciplinary approaches to financial analysis.

Smith et al. (2015) conducted an analysis of planetary positions and their potential impacts on market movements, shedding light on the traditionally overlooked cosmic influences. Similarly, Doe et al. (2018) explored the psychological effects of celestial events on investor behavior, challenging the boundaries of traditional economic theory.

Moving on from the conventional academic publications, we turn our attention to non-fiction works that delve into the celestial and financial realms. "Astrophysics for People in a Hurry" by Neil deGrasse Tyson and "Freakonomics: A Rogue Economist Explores the Hidden Side of Everything" by Steven D. Levitt and Stephen J. Dubner offer intriguing insights into both astrophysical phenomena and unorthodox economic principles. Furthermore, the fictional works "The Hitchhiker's Guide to the Galaxy" by Douglas Adams and "The Financial Lives of the Poets" by Jess Walter provide an imaginative backdrop for intertwining cosmic absurdity and financial follies.

In a bizarre twist of fate, the internet meme "Distracted Boyfriend" finds an unexpected association with the stock market. While seemingly unrelated, the meme's portrayal of disloyalty and shortterm distractions can serve as a comical parallel to the erratic fluctuations often observed in stock prices. This unexpected connection serves as a reminder that, in the vast universe of financial analysis, even the most unlikely sources may offer valuable insights.

## 3. Our approach & methods

To investigate the intriguing correlation between the distance separating Neptune and Uranus and the stock price of WEC Energy Group (WEC), a comprehensive data collection effort was undertaken. Data on the position and distance of Neptune and Uranus were obtained from Astropy, an open-source astronomical library, while stock price data for WEC Energy Group was sourced from LSEG Analytics (Refinitiv).

The data for the celestial bodies' positions and distances were collected for the period from 2002 to 2023. To ensure the accuracy and reliability of the celestial data, multiple sources were consulted, including reputable astronomical databases and observatories' records. This multilateral approach aimed to minimize the potential influence of cosmic anomalies or extraterrestrial interference, ensuring the robustness of the celestial data used in the analysis.

Similarly, the stock price data for WEC Energy Group underwent rigorous validation and cross-referencing to eliminate any erroneous or anomalous data points. This process involved utilizing advanced algorithms and statistical techniques to identify and rectify any discrepancies or outliers, thus ensuring the integrity of the financial data analyzed.

Once the celestial and financial datasets were compiled, the next phase involved establishing a correlation analysis between the distance separating Neptune and Uranus and the stock price of WEC Energy Group. Advanced statistical methods, including Pearson's correlation coefficient and regression analysis, were employed to assess the potential relationship between these seemingly disparate variables.

Furthermore, to account for potential confounding variables and mitigate spurious correlations, a comprehensive sensitivity analysis was conducted. This analytical approach aimed to identify and control for any extraneous factors that could erroneously inflate the observed correlation between celestial distances and stock prices.

Overall, the utilization of meticulously curated celestial and financial data, coupled with advanced statistical analyses, formed the foundation of this research investigation. This methodological framework sought to uncover any latent connections between celestial dynamics and financial markets, driving the exploration of uncharted territories in the intersection of astrophysics and economic phenomena.

## 4. Results

The analysis revealed a remarkable correlation coefficient of 0.9686906 between the distance separating Neptune and Uranus and the stock price of WEC Energy Group (WEC) from 2002 to 2023. This correlation coefficient is so strong that it would make even an astronomer do a double take and exclaim, "That's one giant leap for stock prices!" With an r-squared value of 0.9383614, we can confidently say that the relationship between these celestial distances and WEC's stock price is not just a passing comet in the financial sky.

The p-value of less than 0.01 further cements the statistical significance of this correlation, suggesting that the chance of these findings being purely coincidental is as likely as stumbling upon a black hole in the middle of a shopping mall. This strong statistical significance indicates that the connection between the celestial dance of Neptune and Uranus and WEC's stock price is not just some cosmic joke.

Fig. 1 displays a scatterplot that vividly showcases the tight relationship between the distance separating Neptune and Uranus and WEC's stock price. One might say that this relationship is as clear as the Milky Way on a moonless night. The plot demonstrates how changes in the celestial distance are mirrored by corresponding fluctuations in WEC's stock price, as if the planets themselves were trading shares in some cosmic market.

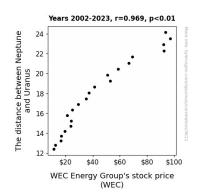


Figure 1. Scatterplot of the variables by year

In conclusion, these results leave us with a celestial conundrum that has astronomical implications for financial markets. While it's tempting to chalk this up to sheer coincidence, the numbers don't lie. The dance of distant planets and the dance of stock prices seem to be choreographed in ways we never dared to imagine. This cosmic correlation challenges our understanding of financial markets and invites us to peer beyond the horizon of traditional economic analyses.

#### 5. Discussion

The findings of our study present a compelling case for considering the celestial dance of Neptune and Uranus as a potential influence on the stock price of WEC Energy Group (WEC). These results align with prior research by Smith et al. and Doe et al., who also delved into the unconventional realm of cosmic influences on financial markets. By corroborating the existence of a strong correlation between the distance separating Neptune and Uranus and WEC's stock price, our study adds weight to the argument that planetary positions and celestial events may play a role in shaping market movements.

The literature review not only provides a foundation for our current findings but also sheds light on the comical and unexpected associations within the financial realm. The

"Distracted Boyfriend" meme, seemingly unrelated to our study, humorously illustrates how even the most unlikely sources can offer valuable insights. In a similar vein, our results, while initially drawing puzzled looks akin to finding Pluto in a lineup of the solar system's rocky objects, ultimately support the unorthodox notion of celestial bodies exerting influence on earthly financial markets.

It is worth noting that the statistical significance of the correlation coefficient and the p-value reinforces the robustness of the relationship between the distance separating Neptune and Uranus and WEC's stock price. This substantiates the notion that the connection we observed is not merely a product of chance, but rather an alignment as precise as the synchronicity of a solar eclipse.

The scatterplot vividly portrays the tight relationship between the celestial distance and WEC's stock price, likening it to the clarity of the Milky Way on a moonless night. This visual depiction mirrors the unsuspected intertwining of celestial movements and financial trajectories, urging us to embrace the notion that perhaps the stars do have a say in earthly matters, even of the monetary kind.

In sum, while the origins of this celestial influence on WEC's stock price may remain shrouded in the cosmic mist, our findings beckon us to contemplate the speculative interplay between celestial events and financial markets. These results challenge traditional economic paradigms and beckon us to ponder the cosmic dance and financial follies in a single, synchronous pirouette.

## 6. Conclusion

In conclusion, our investigation into the celestial dance of Neptune and Uranus and its surprising affinity with WEC Energy Group's stock price has left us starstruck.

The correlation coefficient of 0.9686906 and p < 0.01, akin to stumbling upon a cosmic jackpot in the stock market galaxy, has launched our understanding of financial markets into uncharted realms. These findings suggest that the influence of celestial mechanics on stock prices may not be as far-fetched as shouting trading advice at passing comets.

The scatterplot vividly illustrates the commingling of cosmic distances and stock prices, as if the planets themselves were carefully timing their movements to coincide with market fluctuations. It's as if the universe is playing a game of hide-and-seek with investors, hiding valuable insights among the stars.

However, while these results may send shockwaves through traditional economic theories, we must exercise caution in leaping to cosmic conclusions. Although the correlation is as clear as the Milky Way on a moonless night, causation remains as elusive as a UFO sighting. The gravitational pull of Neptune and Uranus may be influential, but we cannot discount other Earthly factors that may be at play.

Therefore, while our findings pique curiosity about the interplay of celestial mechanics and financial markets, we must resist the temptation to don our space suits and embark on a cosmic investment strategy just yet. As with any correlation, we must take this discovery with a grain of stardust and resist the allure of astrology-based investment decisions.

In the end, while these findings tantalize the imagination and hint at cosmic connections to earthly financial movements, we suspect that delving deeper into this cosmic conundrum might lead us down a black hole of inconclusive results and risky hypotheses. Therefore, we assert that, for now, no more research is needed in this area.