Could the Chandler wobble, LOD, and Atlantic Multidecadal Oscillation be influenced by the Moon

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We analyze long-term decadal trends in Global Earth Temperature and Earth rotation. LOD reached minimum in 2020-2024. Chandler wobble disappeared in 2017-2020 [1], then started again with phase shifted by 180 degrees, as in 1920-30s [2]. Simultaneously Atlantic Multidecadal Oscillation (AMO) seems have reached maximum positive phase and started to decrease. All mentioned processes represent 90-year long-term cycles. We propose that the lunar orbit, whose perigee and ascending node meet in vernal equinox in 2024, designating the end of the 186-year cycle of orbital revolution, could be responsible for decadal geophysical cycles in Earth rotation and climatology [3]. Inverse problem solution for Chandler wobble of the pole contains the pointing toward this.

References

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