A MOONLESS EARTH

Did you know? The Moon is moving away from the Earth at a rate of 3.78cm per year, and only in about 15 billion years will it stop moving any further.

The first notable change without the Moon would be darker nights with not enough light from even the next brightest celestial object, Venus.

Earth's rotation would increase alarmingly if the Moon disappeared, shortening the days from 24 hours to 6 to 12 hours.

The faster rotation of the Earth would further lead to changes in life patterns, and wind may blow at 100mph.

Without the Moon and only the sun causing the ocean tides, the waves would fall to one-third of their height.

The absence of the Moon would interfere with the Earth's tilt leading to drastic changes in seasons or lack of seasons entirely.

REFERENCES

1. What happens as the moon moves away from the earth?; National Radio Astronomy Observatory
2. What would happen if there were no moon?; Inside Science
3. The moon's influence on us; Lunar and Planetary Institute

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