Astronomy: a diagram of the Earth's orbit around the Sun in a solar year showing the changing seasons. Coloured engraving by J. Emslie, 1851, after himself.

Contributors

Emslie, John, 1813-1875.

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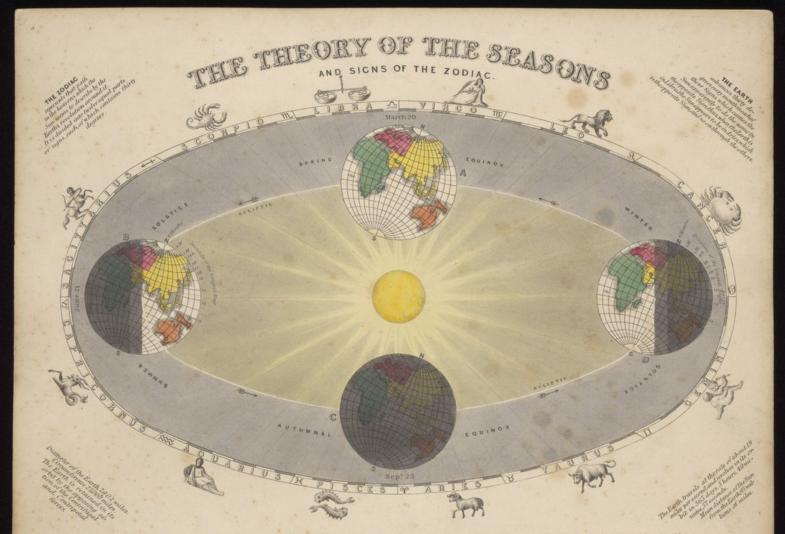
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THE PHENOMENA OF THE SEASONS is occasioned by the annual motion of the Earth in its Orbit, as represented above, the Axis, or Poles of the Earth, being constantly directed towards the same point in the heavens. On the 23rd March, the Earth is in the position A, when one half of the globe is illuminated from pole to pole; therefore, the days are of equal duration with the night all over the world. As the Earth proceeds in its Orbit, and comes into the position B, the inhabitants of the Northern Hemisphere enjoy summer on account of the Solar Rays falling more perpendicularly upon them; they have also their days lenger than their nights, in proportion as they are more distant from the Equator, and these within the Polar Circle have constant daylight: at the same time the inhabitants of the Southern Hemisphere have JB with their days being aborter than their nights in proportion as Layney. J Buryones, 12 Surveys, 12 Surveys, 13 Survey, 14 Survey, 15 Survey,

casioned by the annual motion of the Earth in its Orbit, as represented ag constantly directed towards the same point in the heavens. On the when one half of the globe is illuminated from pole to pole; therefore, that all over the world. As the Earth projects on the Solar Rays falling or there also their days long horter than their nights; an proportion as they are further from the Equator. These within the Polar Circle have constant night. The Earth then continues in its course, and on the 23rd September arrives at the position c, the days and nights are then again equal all over the world. As the Earth projects of the Solar Rays falling we then world. As the earth earth advances to the position be and the inhabitants of the Northern Hemisphere within the Polar Circle have constant daylight: at the same time the ve winner, their days long aborter than their nights in proportion as they are the souther the difference of heat is not wring to the Sun being nearer to us, or more remote, but to the digree of obliguity with which is resysterile any part of the Earth.