

and that all turning together at one time, this rotative motion must be as insensible in the atmosphere, as it is on the surface of the earth.

The principal cause of the winds, as we have observed, is the heat of the sun ; on this subject we refer to Halley's Treatise in Phil. Trans. All causes which occasion rarefaction or condensation in the air will produce winds, whose directions will be opposite to the places where is the greatest rarefaction or condensation.

The pressure of the clouds, the exhalations of the earth, the inflammation of meteors, &c. are causes which also produce considerable agitations in the atmosphere. Each of these causes combining in different manners, produces different effects. It appears to me, therefore, a vain attempt to assign a theory of the winds, for which reason I shall limit myself to the study of their history.

If we could have a course of observations on the direction, power, and variation of the wind in different climates ; if this course of observations was exact and extensive enough for us to perceive the result of these vicissitudes of the air in every country, we should arrive