III. A Letter from Dr. Franklyn, F. R. S. to the Astronomer Royal; containing an Observation of the Transit of Mercury over the Sun, November 9th 1769: By John Winthrop, Esq; F. R. S. Hollisian Professor of Mathematics and Natural Philosophy at Cambridge, New England.

DEAR SIR,

Craven-street, Feb. 12, 1770.

Read Jan. 10, HAVE just received a letter from Mr. Winthrop, dated Dec. 7, contain-

ing the following account, viz.

"On Thursday the 9th of November, I had an opportunity of observing a transit of Mercury. I had carefully adjusted my clock to the apparent time, by correspondent altitudes of the Sun, taken with the quadrant for several days before, and with the same reflecting telescope as I used for the transit of Venus*. I first perceived the little planet making an impression on the Sun's limb at 2^h 52' 41"; and he appeared wholly within at 53' 58" apparent time. The sun set before the planet reached the middle of his course; and for a con-

* See Phil. Transact. Vol. LIX. p. 352.

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"fiderable time before funset, it was so cloudy, that the planet could not be discerned. So that I made no observations of consequence except that of the beginning, at which time the Sun was perfectly clear. This transit compleats three periods of 46 years, fince the first observation of Gassendi at Paris, in 1631."

I am, SIR,

With great esteem,

Your most obedient servant,

B. Franklin.