

cause the layer of rock now laid bare, is either above or below that on which the bird originally trod. The foot is twelve inches long, and the step varies from forty two to forty five inches. The smallness of the foot may result merely from the situation of the layer containing it; in the manner that has been already explained. Yet as the length of the step is also less than four feet, I conclude these tracks to have been made by the young of *O. ingens*, or by a different species of the same genus.

The *O. ingens*, has been found only at the Horse Race. Several of these impressions, brought from the same place, may be seen on the side walks in Deerfield.

*O. diversus*. Three toed, with a hairy appendage in the rear; length of the foot, exclusive of the hairy appendage, from two to six inches; length of the step, from eight to twenty one inches.

Under this species, I have embraced a great variety of specimens; because I could not draw between them so definite a line of demarcation, as would be desirable. The two following varieties, however, are too distinct to be passed unnoticed; and I have little doubt, that they were produced by distinct species of birds. Indeed, I am persuaded that several species must have been concerned in making all the foot marks, that I have grouped together under this species.

*α clarus*. Foot, exclusive of the hairy appendage, from four to six inches long. Toes generally somewhat approximate and acuminate; inner toe shorter than the outer one. Hairy appendage very distinct, from two to three inches long; perhaps a knobbed heel. Step from eighteen to twenty five inches. Found in the south west part of Montague; also at the Horse Race, and probably also in Northampton, and at South Hadley canal. The specimens from Montague and Gill, are sometimes exceedingly distinct, so as to arrest the attention of every one. Fig. 22, exhibits one from the former place of the natural size. I have represented it in relief, because I found I could thus make the drawing more distinct.

Fig. 17, is a sketch of several tracks of this variety, on a slab of red micaceous sandstone, between three and four feet square, from Montague, now in my possession. The impressions are exceedingly distinct and striking, and appear to have been made by two birds walking side by side, at the distance of eighteen inches; one of them, taking steps two feet long, and the other, but eighteen inches. In the right hand row, a third step just begins to appear on the mar-