unable to examine these species, but in *Cucumis perenne* and *Lagenaria clavata* I find falling starch in younger as well as older internodes quite to the apex, and in *Bryonia dioica*, which according to Tondera possesses no endodermis, I find the same distribution of statoliths.

My observations were made during the early summer (May to July) 1904, with rather thick sections of fresh material mounted in a solution of iodine in potassium iodide.

D. F. M. PERTZ.

CAMBRIDGE.

ON THE PRESENCE OF A PARICHNOS IN RECENT PLANTS¹.—If a mature sporophyll of *Isoetes Hystrix* be examined, there will be seen in the lateral expansions of its base two longitudinal cavities containing a certain amount of mucilage, and situated one on each side of the vascular bundle, in close proximity to the sporogenous mass. By the examination of sporophylls in different stages of development, it may be ascertained that the above-mentioned canals arise by the mucilaginous degeneration of two strands of parenchyma. The structure in question does not extend into the cortex of the stem, but is confined entirely to the base of the sporophyll, its limits seemingly depending upon the extent of the sporangium. Whether the same features obtain in sterile leaves has not been determined, owing to the lack of material. Indications of a similar structure were observed in other species of *Isoetes*.

It is suggested that these strands of degenerating tissue, and the resulting mucilage-containing canals of the mature leaf, represent the parichnos occurring in *Lepidodendron*, *Sigillaria*, *Lepidocarpon*, &c.

T. G. HILL.

KEW.

¹ Abstract of paper read before Section K at the Cambridge Meeting of the British Association, August, 1904.

Hill, T. G. 1904. "On the presence of a parichnos in recent plants." *Annals of botany* 18, 654–654. <https://doi.org/10.1093/oxfordjournals.aob.a088984>.

View This Item Online: <https://www.biodiversitylibrary.org/item/234469>

DOI: <https://doi.org/10.1093/oxfordjournals.aob.a088984>

Permalink: <https://www.biodiversitylibrary.org/partpdf/318782>

Holding Institution

Smithsonian Libraries

Sponsored by

Biodiversity Heritage Library

Copyright & Reuse

Copyright Status: Not in copyright. The BHL knows of no copyright restrictions on this item.

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.