EXPLANATION OF PLATE I.

Footprints of Reptiles, &c.

Fig. 1.—Footprints discovered by Sir W. E. Logan, in the Lower Carboniferous beds of Horton Bluff, in 1841; reduced to one-fourth of the natural size. (1a) one of the impressions, natural size.

" 2.—Footprints discovered by Dr. Harding, in the Lower Carboniferous beds of Parrsboro'; one-fourth of the natural size. (2a) Prints of fore and hind foot, natural size. This figure is from a rubbing kindly taken for me by Prof. How, of Windsor.

" 3.—Footprints from the Coal Measures of the South Joggins; one-fourth natural size. (3 a) One of the impressions, natural size.

" 4.—Smaller footprints from the South Joggins; one-fourth of natural size.

" 5.—Skin of a reptile, found with remains of a small *Dendrerpeton*, in an erect tree at the Joggins. (a) Scaly portions; (b) Traces of hind leg? and small scales. (c) (d) Portions magnified, showing scales.

EXPLANATION OF PLATE III.

Dendrerpeton Acadianum.

Fig. 1.—Skull seen from below.

" 2.—Inner tooth, magnified; from the jaw, Fig. 17.

" 3.—Tooth of intermaxillary, magnified; from the bone in Fig. 13.

" 4.—Series of inner teeth, less magnified.

" 5.—Series of outer teeth of maxillary bone, Fig. 15, magnified.

" 6, 7.—Sections of inner teeth.

" 8.—Portion of bone of skull, outer surface, twice the natural size.

" 9.—Super-temporal bone, twice the natural size.

" 10.—Cross section of humerus; (a) natural size; (b) magnified; (c) portion more highly magnified, showing canals and bone cells.

" 11.—Bone cells, highly magnified.

" 12.—Vomer? with teeth; (a) tooth magnified.

" 13.—Intermaxillary with teeth.

" 14.—Section of teeth of intermaxillary; (b) magnified; (a) portion highly magnified.

" 15.—Maxillary bone with teeth.

" 16.—Mandible with teeth.

" 17.—Fragment of skull, with (a) outer teeth of maxillary; (b) inner palatal teeth.

" 18.—Cross section of a scale, magnified.