

containing eight globose sporidia, with a single large nucleus in each.—A curious species, resembling in its fructification *P. sphaeroplea*. Its nearest allies are such species as *P. rutilans*.—PLATE CV. Fig. 8. *a*. Ascus of *Peziza endocarpoides*, Berk., with its sporidia magnified. *b*. Single sporidium, magnified 250 diameters.

3. *Peziza rhytidia*, Berk.; fuliginea, cupula subsessili hemisphaerica incisa extus subtiliter innato-fibrillosa undato-rugosa, carne olivacea, hymenio polito, sporidiis oblongo-ellipticis. (TAB. CV. Fig. 6.)

HAB. On the ground, Bay of Islands, *J. D. H.* Banks of Kawatau in the interior, *Colenso*.

An inch or more in diameter, fuliginous. *Cup* subhemispherical, nearly sessile, deeply incised; margin narrow, inflected; external coat distinctly wrinkled, consisting of netted, brownish, innate fibres, to which succeeds a greenish stratum consisting of delicate threads, then a more compact layer, to which finally succeeds a thin paler stratum, from which the elongated asci and slender paraphyses immediately spring, the whole somewhat resembling the section given by Persoon of *P. purpurascens*, in 'Mycologia Europæa.' *Sporidia* oblong, elliptic, subcymbiform, $\frac{1}{1250}$ of an inch long.—Allied to *P. fuliginea* and *P. purpurescens*, but artificially referable to the subgenus *Encælia*, on account of its innate fibrous outer coat; besides which it is evidently rather tough when fresh. It is fixed to the ground by a few dark penetrating threads. It may be observed that *P. craterium*, Schweinitz, to which it has some apparent affinity, differs in the structure of the hymenium.—PLATE CV. Fig. 6. *a*, *a*. *Peziza rhytidia*, Berk., natural size. *b*. Section, slightly magnified. *c*. Portion of outer coat, more highly magnified. *d*. Asci and paraphyses. *e*. Sporidium, magnified 250 diameters.

* *Peziza campylospora*, Berk.; fuliginea, cupula breviter stipitata obliqua extus rugosa subtiliter fibrillosa, carne albida, sporidiis majoribus oblongis curvatis.

HAB. On decayed wood, *Colenso*.

Cup above an inch across, oblique, lobed, wrinkled externally, and clothed with inconspicuous myceloid flocci. *Stem* short, wrinkled. *Hymenium* fuliginous, like the cup tinged with vinous-red; substance nearly white, composed of intricate threads. *Asci* linear. *Sporidia* oblong, strongly curved, $\frac{1}{750}$ of an inch long; paraphyses slender, very slightly incrassated above.—Allied to the last, but distinguished at once by the larger curved sporidia, its different habitat, etc.

4. *Peziza stercorea*, Fr. *Syst. v. 2. p. 87.*

HAB. On horse-dung, *Colenso*.

5. *Peziza Kerguelensis*, Berk. in *Hook. Ant. Voy. Crypt. p. 145. t. 164. f. 3.*

HAB. On the ground, Bay of Islands, *J. D. H.*

The specimens differ from those from Kerguelen's Land in their shorter, inarticulate hairs, but I see no other distinction. In both the sporidia are broadly elliptic.

6. *Peziza calycina*, Fr. *Syst. v. 2. p. 91.*

HAB. On dead twigs of *Dacrydium Colensoi*, *Sinclair*.

7. *Peziza Colensoi*, Berk.; pallide alutacea, cupula infundibuliformi breviter stipitata basi plicata sursum margine inflexo subtiliter tomentosa. (TAB. CV. Fig. 5.)

HAB. On dead sticks, near the River Manawatu, *Colenso*.

About one-third of an inch in diameter, pale tan-coloured, infundibuliform, with a short, thick stem, fixed by an orbicular disc, plicate at the base, very minutely downy above and on the margin, but by no means ciliated. *Hymenium* even. *Asci* nearly equal; paraphyses filiform; sporidia about $\frac{1}{1000}$ of an inch in diameter, oblong, elliptic, or subfusiform; endochrome retracted into from two to four bodies, but not truly septate.—Allied to *P. Afzelii*, with which it agrees in size, but distinguished by the absence of all cilia at the edge.—PLATE CV. Fig. 5. *Peziza Colensoi*, Berk., natural size. *a*. Asci and paraphyses, magnified. *b*. Sporidia, magnified 250 diameters. *c*. Sporidia, more highly magnified.