



1, Ascostromata, surface view of leaf ($\times 10$); 2, section through ascostroma ($\times 430$); 3, ascus, pseudoparaphysis, ascospores and seta ($\times 2000$). From DAOM 114072.

Coleroa chaetomium (Kunze ex Fr.) Rabenh., Klotzschii herb. viv. myc., n. 1456. 1850, and Bot. Zeit. 9: 180. 1851.

\equiv *Dothidea chaetomium* Kunze ex Fr., Syst. Myc. 2: 563. 1823.

ASCOSTROMATA epiphyllous, originating from thin subcuticular stroma, occurring singly or in groups, sometimes so crowded together that the ascostromata walls are confluent, $70 - 150 \mu$ in diameter, ostiolate. In vertical section the wall consists of two or three outer layers of dark brown angular cells and several inner layers of hyaline, tangentially flattened cells. SETAE few to numerous, septate or nonseptate, variable in length, up to 135μ long, although usually shorter, about 5 to 7μ wide at base (wall $1-1.8 \mu$ thick), dark brown, paler at apex. PSEUDOPARAPHYSES present, 2μ wide, septate, usually not persisting in mature ascostromata. ASCI bitunicate, oblong to somewhat obclavate, $30 - 60 \times 9 - 15 \mu$. ASCOSPORES greenish, pluriguttulate, ellipsoidal, equilateral or slightly inequilateral, apex rounded, base narrowly rounded to somewhat pointed, 1-septate, upper cell usually twice as long as lower cell, rarely constricted, smooth, overlapping biseriately or obliquely uniseriately or crowded in ascus, $13 - 16 \times 5 - 6 \mu$.

HOSTS: living leaves of *Rubus parviflorus* Nutt. and *Rubus pedatus* J.E. Smith, overwintering on fallen leaves.

DISTRIBUTION: Alberta, British Columbia.

COLLECTIONS: Alta., 28 miles n.n.w. of Whitecourt, 6.VII.1962, DAOM 97769 (E.H. Moss). B.C., Vancouver, 28.IV.1952, DAOM 34195 (M.E. Barr), Moricetown, 19.VIII.1965, DAOM 113778 (A. Ennik & A.T. Foster), Burns Lake, 11.VI.1965, DAOM 113780 (A.E. & A.T.F.), Wells Gray Provincial

Park, 23.VI.1961, DAOM 126720 (L.& T. Ahti), Glacier National Park Campground, 29.V.1966, DAOM 114072 (R.A. Shoemaker).

NOTES: According to Barr (Can. J. Botany, 46: 799-864. 1968), the occurrence of this species in North America is restricted to the temperate north west (Alta., B.C., Washington, Oregon). Collections from U.S.A. in DAOM are from Washington, Washington Pass, boundary between Whatcom and Okanogan counties, 7.IX.1969, DAOM 128623 (D.B.O. Savile) and near Mt. Baker National Forest, 28.VIII.1969, DAOM 128563 (E. Müller). A few European collections are also represented in DAOM.

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