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No. 2.

THE CRYPTOGAMIC FLORA OF OTTAWA.

BY PROF. JOHN MACOUN, M.A., F.L.S., F.R.S.C.

Continued from February No.

251. **J. barbata**, Schreb.

On damp limestone cliffs facing the Ottawa River, Rockcliffe Park, May 7th, 1896 ; on rocks, Gilmour's Park, Chelsea, Que, Sept. 9th, 1889 ; on rocks near Ironsides and on rocks Meeche's Lake, Que., Sept. 23rd, 1893.

252. **J. attenuata**, Lindenb.

On rocks on damp cliffs, Rockcliffe Park, April 16th, 1891.

253. **J. lycopodioides**, Wallr.

On rocks on the east side of the cliff, close to the old sawmill, Rockcliffe Park, Oct. 26th, 1889.

254. **J. exsecta**, Schmid.

Common on dead wood, Beechwood Cemetery, April 23rd, 1892 ; on moss on logs in Dow's Swamp, Oct., 1884.

255. **J. incisa**, Schrad.

On rotten wood in Beechwood Cemetery, Sept. 2nd, 1884 ; also on old logs west of Beaver Meadow, Hull, Que., Oct. 6th, 1885.

256. **J. excisa**, Dicks.

Rather common on rotten wood around Ottawa ; in Dow's Swamp, Oct., 1884 ; also at Meeche's Lake near Chelsea, Que., Sept. 24th, 1893.

257. **J. pumila**, With.

On rocks along Meeche's Lake, north of Chelsea, Que., Sept. 23rd, 1893.

XIX. FOSSOMBRONIA, Raddi.

258. **F. Dumortieri**, Lindb.

On earth subject to inundation close to Leamy's Lake, Hull, Que. Sept. 24th, 1889.

XX. BLASIA, Micheli,

259. *B. pusilla*, (Linn.)

On earth subject to inundation in a gully at Leamy's Lake, Hull, Que., Sept. 24th, 1889 ; on wet clay banks, Meeche's Lake, north of Chelsea, Que., Sept. 23rd 1893 ; also on clay banks at the confluence of the Leivre River with the Ottawa River near Buckingham, Que., Sept. 26th, 1892.

XXI. PELLIA, Raddi.

260. *P. epiphylla*, Corda.

On earth subject to inundation in a gully at Leamy's Lake, Hull, Que., Sept. 24th, 1889.

XXII. ANEURA. Dumortier.

261. *A. latifrons*, (Lindb.) Dumort.

On old logs in the swamp, Glebe property, Bank St., Ottawa, April 27th, 1896 ; on old logs, Beechwood Cemetery, April 23rd, 1892.

262. *A. palmata* (Hedw.)

On old logs and stumps in Dow's Swamp, Oct. 6th. 1885 ; also on logs in McKay's Woods, Oct. 17th, 1890.

263. *A. sessilis*, (Sprengel.) Dumort.

On old logs in a swamp about a mile south-east of Carleton Place ; in fine fruit, May 30th, 1884.

264. *A. pinguis*, (Linn.) Dumort.

Amongst peat moss in the Mer Bleue, near Eastman's Springs, June 15th, 1892.

XXIII. METZGERIA, Raddi.

265. *M. myriopoda*, Lindb.

On damp rocks near Ironsides, five miles north of Hull, Que., Oct. 21st, 1884.

266. *M. conjugata*, Lindb.

On stones in McKay's Woods near the Lake, Oct. 9th, 1884.

XXXIV. ANTHOCEROS, Micheli.

267. *A. Macounii*, Howe (N. Sp.) Torr. Bull. Vol. xxv, page 19 (1898).

Thallus forming small dark green rosettes, 4-10 mm., in diameter, strongly undulate-crisped, subradiately inciso-laciniate or somewhat broadly lobed, rugose, pitted, sometimes slightly lamellate ecostate 6-8

cells thick in axile parts, cavernose, becoming at the margin gradually 3 or 2-stratose, now and then glandular-thickened; surface cells distinct, translucent, lightly protuberant, subrhombic, trapezoidal, or oblong-pentagonal 35.75×30.35 mik.; *Nostoc* colonies spherical; monoicous; antheridia in groups of 3 or 4; involucre short, sometimes united in pairs cylindrical oblong, or by contraction at base and mouth dolioform or subglobose, $.85-1.25 \times .5-.9$ mm., incrassate except at the thin erose or subentire mouth; capsule black, erect or a little curved, 3.6×3.5 mm., thick-walled, with numerous stomata, the valves rigid or slightly flexuose when dry, brittle and often broken; columella sometimes appendiculate; spores fuscus or black, rounded-tetrahedral densely and rather minutely muriculate on both the inner and outer faces, $48-65$ mik. in maximum diameter; sterile cells short, nearly as broad as long, without spiral thickenings, separate or variously adherent, often shriveled and inconspicuous.

On earth subject to inundation along the discharge of Leamy's Lake, near Hull, Que., Sept. 24th, 1891.

XXV. MARCHANTIA, Marchant.

268. *M. polymorpha*, Linn.

Quite common around springs and on earth along the borders of swamps around Ottawa. On earth, by the lake in McKay's Woods, April 28th, 1896.

XXVI. PREISSIA, Nees.

269. *P. commutata*, Nees.

Under dripping limestone rocks under the cliffs near the old mill, east side of Rockcliffe, May 7th, 1896.

XXVII. CONOCEPHALUS, Necker.

270. *C. conicus*, Neck.

Quite common on old logs and earth by brooks around Ottawa. In a swamp on the rear of Cowley's Farm, west of Hintonburg, April 18th, 1896.

XXVIII. GRIMALDIA, Raddi.

271. *G. rupestris*, (Nees.) Lindenb.

On calcareous earth in crevices of rocks near Governor's Bay, Rockcliffe Park, May 20th, 1884.

XXXIX. RICCIA, Micheli.

272. *R. arvensis*, Aust.

On damp earth covered by the spring floods around the east side of Leamy's Lake, Hull, Que., Sept. 24th, 1889.

273. *R. fluitans*, Linn,

Very abundant in Patterson's Creek, Bank St., Ottawa ; also in the Beaver Meadow Creek, west of Hull, Que., Oct. 9th, 1896.

274. *R. natans*, (Linn.) Corda.

In stagnant pools east of Beechwood Cemetery, April 23rd, 1892.

Forma terrestris.

Grows late in the season where pools had been in the spring. On earth along the Ottawa and Lievre rivers, near Buckingham, 20 miles below Ottawa, Sept. 18th, 1892 ; also along the discharge of Leamy's Lake, Hull, Que., Oct. 16th, 1893.

LICHENES.**I. RAMALINA, Ach.**275. *Ramalina calicaris* (L) var. *fastigiata*, Fr.

On old rails, old logs and trunks rather rare. On bark of young red maples at Britannia, April 20th, 1895 ; rare on old logs near Ottawa River, Hull ; on a pine tree, Pine Hill, Rockcliffe Park, rare on old stumps and rails in a fence one mile south-east of Billing's Bridge ; also on red maples Leamy's Lake ; on trees in a swamp in Stittsville ; old logs King's Mountain, west of Chelsea.

*Var. *farinacea*, Schaer.

On trees, old fence rails, and ledges of rocks. Rare on bark along the C.A.R. in Stewart's Bush, April 12th, 1895 : on old fence rails West End Park ; on limestone ledges on the face of the cliff, opposite Gatineau Point, Rockcliffe Park.

Var. *canaliculata*, Fr.

On a balsam fir in a swamp a little east of Stittsville, May 14th, 1897.

276. *Ramalina pusilla* (Prev.) Var. *geniculata*, Tuck.

On twigs of spruce tress near Ironsides, Que., Oct. 6th, 1891.

II. CETRARIA, (Ach.) Fr.277. *Cetraria ciliaris*, (Ach.)

On old fence rails and boards and occasionally on pine stumps and trees. On old fence rails, West End Park, April 16th, 1892 ; on old board fencing at Buckingham, Que. ; on an old pine stump one mile above Britannia ; on tamarack trees in a swamp at Stittsville, May 14th, 1897.

278. *Cetraria sæpincola*, (Ehrh.) Ach.

Rare. Occasionally in swamps. On branches of black spruce in the Mer Bleue, Eastman's Springs, June 16th, 1891.

279. *Cetraria lacunosa*, Ach.

Rare in the Ottawa district. ; on trees and rails. On old fence rails and boards at Buckingham, Que., May 14th, 1896.

280. *Cetraria Oakesiana*, Tuckerm.

Very rare in Canada. On the base of living pine trees and at the base of pine stumps, Rockcliffe Park, April 17th, 1895 ; on the base of a pine stump by a swamp at Stittsville ; old pine log, King's Mountain, west of Chelsea, May 22nd, 1897,

281. *Cetraria juniperina* (L.) Var. *Pinastri*, Ach.

Rare in the Ottawa district. On dead branches of black spruce and old logs in the Mer Bleue, at Eastman's Springs, June 16th, 1891 ; on branches of tamarack in a swamp at Stittsville, May 14th, 1897.

III. *EVERNIA*, Ach.282. *Evernia prunastri*, (L.) Ach.

On trees, stumps and old fences ; rare. On old pine stumps at Britannia, April 10th, 1884 ; on old rails along the Richmond Road above Hintonburg ; on an old fence, Ottawa East ; on trees in the swamp west of Hull Station ; on branches of tamarack trees in a swamp at Stittsville, May 14th, 1897.

IV. *USNEA*, (Dill.) Ach.283. *Usnea barbata*, (L.) Var. *hirta*, Fr.

On trunks south of the Aylmer Road, west of Hull, Que., April 26th, 1891 ; on a spruce tree, Rockcliffe Park ; on pine stumps at Britannia ; on spruce and tamarack trees in the Mer Bleue, at Eastman's Springs ; on tamarack trees in a swamp at Stittsville ; old log, King's Mountain, west of Chelsea, May 22nd, 1897.

V. *ALECTORIA*, (Ach.) Nyl.284. *Alectoria jubata*, (L.) Var. *chalybeiformis*, Ach.

Rare on dead wood or on the earth. On old pine stumps at Britannia, April 20th, 1895 ; on tamarack trees in a swamp at Stittsville, May 14th, 1897.

Var. *implexa*, Fr.

Quite common in tamarack and other swamps, hanging like black hair from the branches. On black spruce and tamarack in the Mer Bleue, at Eastman's Springs, June 16th, 1891.

VI. THELOSCHISTES, Norm.

285 *Theloschistes polycarpus*, (Ehrh.)

A common species on living trees and dead wood. On black ash and white cedar trunks and balsam poplar branches in Stewart's Bush, April 12th, 1895 ; common on willow, red ash and alder at Britannia ; on balsam poplar and white ash trunks, at Hintonburg ; and on ash and rock elm in Beechwood ; on old fence boards at Billing's Bridge ; on red maple and ash at Leamy's Lake ; rare on trees at Stittsville ; on trunks, King's Mountain, west of Chelsea, May 22nd, 1897.

286. *Theloschistes concolor*, Dicks.

On ash trees west of West End Park, April 16th, 1892 ; on white cedar bark by the C.A.R. in Stewart's Bush ; quite common on willow, ash, maple and alder at Britannia ; common on bark of trees, Aylmer Road, west of Hull ; on trunks of black ash in woods west of Hintonburg ; also on basswood trees at Carleton Place ; on a black ash log, Ottawa East, and on ash trees in Beechwood : on old fence boards at Billing's Bridge ; on various trees in woods, Leamy's Lake ; on trees at Stittsville ; on trunks, King's Mountain, west of Chelsea, May 22nd, 1897.

VII. PARMELIA, (Ach.) De Not.

287. *Parmelia perlata*, (L.) Ach.

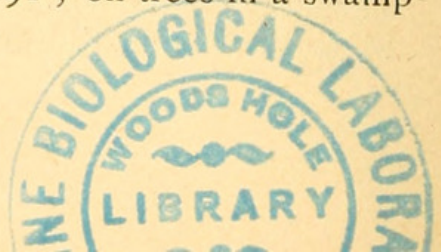
Not uncommon on trunks in wet woods or swamps. A fine species but seldom found in fruit. On ash trees by the C.A.R., Stewart's Bush, April 12th, 1895 ; on a spruce trunk in Rockcliffe Park ; on birch trees, Skead's Farm, Richmond Road ; on white cedar, black ash, and cherry birch in the swamp near Beechwood Cemetery ; on a birch tree in Dow's Swamp ; on trees in woods at Chelsea, Que. ; also on trees at Carleton Place ; on trees in the swamp west of Hull Station, Oct. 9th, 1896.

288. *Parmelia tiliacea*, (Hoffm.) Floerk.

Rather uncommon except in deep, cool woods. On birch trees on Skead's Farm, Richmond Road ; on beech and other trees, Rockcliffe Park ; on young spruce trees in woods, Beaver Meadow west of Hull ; on a beech tree in woods one mile south-east of Billing's Bridge ; on red maple at Leamy's Lake ; on beech trunks, King's Mountain, west of Chelsea, May 22nd, 1897.

289. *Parmelia Borreri*, (Turn.)

Apparently rare in the vicinity of Ottawa. On trunks in woods north of Beechwood Cemetery, April 23rd, 1891 ; on trees in a swamp at Stittsville, May 14th, 1897.



Var. **rudecta**, Tuckerm.

Very common on old rails and dead wood, around Ottawa. On dead wood and old rails in Stewart's Bush, April 12th, 1895 ; on dead wood, living spruce trees and boulders, Rockcliffe Park ; on dead wood at Britannia ; on dead pines, Aylmer Road, west of Hull ; on white cedar north of Beechwood ; on dead trees at Carleton Place ; on a beech tree in woods one mile south-east of Billing's Bridge ; on large trees in woods, Leamy's Lake ; on old rails and logs, King's Mountain, west of Chelsea, May 22nd, 1897.

290. **Parmelia saxatilis**, (L.) Fr.

On trunks, dead wood, and rocks. On trunks in woods at Leamy's Lake, May 7th, 1897 ; on tamarack and other trees in a swamp at Stittsville, May 22nd, 1897.

Var. **sulcata**, Nyl.

On trunks, dead wood and rocks. On the branches of a dead spruce, Rockcliffe Park, April 17th, 1895 ; on boulders along a fence, Ottawa East ; on red maples in woods near Leamy's Lake, Hull, Que. ; on old logs and rails east of Stittsville ; on rocks and trunks, King's Mountain, west of Chelsea, May 22nd, 1897.

291. **Parmelia physodes**, (L.) Ach.

On dead wood, old fence rails, boards and rocks. On the branches of dead spruce, Rockcliffe Park, April 17th, 1895 ; on pine stumps at Britannia ; on old fence rails and boards at Buckingham, Que. ; on old fence rails and tamarack trees at Stittsville ; on old logs and rails, King's Mountain, west of Chelsea.

292. **Parmelia colpodes**, (Ach.) Nyl.

Not rare, chiefly on tamarack trees. In a swamp a little east of Stittsville, north of the Can. Pac. Railway, May 14th, 1897 ; on trunks, western slope King's Mountain, May 22nd, 1897.

293. **Parmelia olivacea**, (L.) Ach.

On trees and old rails. On alders, red maple and red ash at Britannia, April 20th, 1895 ; rare on pine trees west of Hull ; on old rails, Ottawa East ; on old rails at Dow's Swamp ; and on young pines at Carleton Place ; on old pine stumps, Leamy's Lake ; common on tamarack trees in a swamp at Stittsville, May 14th, 1897.

Var. **aspidiota**, Ach.

Same habitat as the species. On alder bushes at Britannia, April 20th, 1895 ; on alder bushes near Leamy's Lake, Hull, Que. ; on tamarack trees in a swamp at Stittsville, May 14th, 1897.

Var. **sorediata**, (Ach.) Nyl.

On trees and rocks ; rare. On maple trunks north of Aylmer Road, west of Hull, Que., April 26th, 1891.

294. **Parmelia caperata**, (L.) Ach.

On trunks, dead wood, and stones ; common. On old rails and pine trees, Clemow's Woods, Bank St., April 12th, 1895 ; common on dead and living trees at Rockcliffe, Beechwood and Ottawa East ; abundant on old rails and dead wood at Britannia ; common on dead pines Aylmer Road and by the Beaver Meadow, Hull ; old fence rails, west of Hintonburg and West End Park ; on rails in Dow's Swamp ; and on trees at Carleton Place ; on old fences around Billing's Bridge ; on trees of all kinds at Leamy's Lake ; on old stumps and fences at Stittsville ; very common, King's Mountain, Chelsea, Que.

295. **Parmelia conspersa**, (Ehrh.) Ach.

Abundant on boulders in all old fields and fences around Ottawa. Collected in Rockcliffe Park, Ottawa East, by Dow's Swamp, fields at Hintonburg, and along the Aylmer Road west of Hull ; on boulders around Billing's Bridge ; on boulders at Brigham's Creek, near Leamy's Lake ; on boulders at Stittsville ; on boulders and other rocks, King's Mountain, Chelsea, Que.

VIII. PHYSICA, DC.

296. **Physcia speciosa**, (Ach.) Nyl.

On trees and mossy rocks in woods. On trees at Ottawa, 1884 ; on trees in Beechwood Cemetery ; on trunks, Pine Hill, Rockcliffe Park, April 16th, 1896 ; on a hemlock trunk in woods north of Beechwood Cemetery ; on a beech tree in woods one mile south-east of Billing's Bridge ; on the bases of basswood trees in woods at Leamy's Lake, May 7th, 1897.

297. **Physica granulifera**, (Ach.) Tuckerm.

On trunks. On bark of trees north of Aylmer Road, Hull, Que., April 26th, 1891 ; on ash trees, Cowley's Farm, west of Hintonburg ; on large trees in woods at Leamy's Lake, May 7th, 1897.

298. **Physcia pulverulenta**, (Schreb.) Nyl.

On trunks and rocks. On black ash trunks, Stewart's Bush, April 12th, 1895 ; on ash trees at Britannia ; on living and dead trees, Skead's Farm, Hintonburg ; quite common on ash and other trees along the Aylmer Road west of Hull ; on ash trunks in Dow's Swamp, Ottawa East, Beechwood and Rockcliffe Park ; on large trunks in woods, Leamy's Lake ; on trees at Stittsville ; on trunks and rails, King's Mountain, Chelsea, Que., May 22nd, 1897.



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