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THE CRYPTOGAMIC FLORA OF OTTAWA.

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

Continued from the May Number.

299. *Physcia stellaris*, (L.)

Very common on trunks and dead or living branches. On black ash trees in a swamp in Stewart's Bush, April 12th, 1895; on dead and living trees at Rockcliffe Park, Beechwood, Ottawa East, Dow's Swamp and Skead's Farm, Richmond Road, and common at Britannia; common on trees in woods at Leamy's Lake; on balsam trees at Stittsville; on trunks and rails, King's Mountain, Chelsea, Que., May 22nd, 1897.

Var. *aipolia*, Nyl.

Same range as the species. On the bark of trees at Ottawa, 1884; on a black ash trunk in a swamp west of Beechwood Cemetery; on beech and maple trees in woods one mile south-east of Billing's Bridge; on trees in woods, Leamy's Lake; on tamarack and other trees at Stittsville, May 14th, 1897.

300. *Physcia astroidea*, (Fr.) Nyl.

On old rails and trunks. On old rails near Hintonburg, April 18th, 1896; abundant on the upper part of a fallen hemlock near McKay's Lake, Beechwood, Sept. 29th, 1896; also on old rails at Aylmer, Que.

301. *Physcia hispida*, (Schreb.) Tuckerm.

On trees, but generally on boulders with us. On black ash trees in a swamp in Stewart's Bush along the C.A.R., April 12th, 1895; on boulders in a pasture along Brigham's Creek, near Leamy's Lake, May 7th, 1897.

302. *Physcia obscura*, (Ehrh.) Nyl.

Trunks, dead wood and rocks. On the bark of white cedar in Stewart's Bush, April 12th, 1895; on granite boulders, Rockcliffe Park; on trees and limestone and granite boulders at Britannia; common on trees and rocks at Hull and Aylmer, Que.; on trunks in Dow's Swamp; and on stones in Ottawa East; on old fence boards at Billing's Bridge; on trunks and boulders between Brigham's Creek and Leamy's

Lake, Hull, Que. ; on old boards at Stittsville ; on rocks, trunks and old rails, King's Mountain, Chelsea, Que., May 22nd, 1897.

303. **Physcia setosa**, (Ach.) Nyl.

On rocks, and upon mosses, and trunks. On trunks along the Beaver Meadow, west of Hull, Que., April 26th, 1891 ; on trunks "Pine Hill," Rockcliffe Park ; on black ash trunks, Cowley's Farm, west of Hintonburg ; on black ash trunks amongst moss in woods north of Beechwood Cemetery ; on beech trees in woods one mile south-east of Billings Bridge, on various trees in woods at Leamy's Lake ; on trees in a swamp at Stittsville, May 14th, 1897.

304. **Physcia adglutinata**, (Flörk.) Nyl.

On trees and shrubs. On beech trunks at Beechwood Cemetery, April 23rd, 1892.

IX. PYXINE, Fr.

305. **Pyxine soorediata**, Fr.

On trunks in woods. On black ash in Stewart's Bush, April 12th, 1895 ; on beech trunks, "Pine Hill," Rockcliffe Park ; in woods north of Beechwood Cemetery ; on ash, balsam fir and other trees in woods west of Beaver Meadow, Hull, Que. ; on trees at Britannia ; on trunks in woods at Leamy's Lake, May 7th, 1897.

X. UMBILICARIA, Hoffm.

306. **Umbilicaria Muhlenbergia**, (Ach.) Tuckerm.

On perpendicular rocks near the summit of King's Mountain, west of Chelsea, Que., Sept., 1884 ; also May 22nd, 1897.

307. **Umbilicaria vellea**, (L.) Nyl.

On the face of a perpendicular rock near the summit of King's Mountain west of Chelsea. May 22nd, 1897.

308. **Umbilicaria Dillenii**, Tuckerm.

On the faces of perpendicular rocks near the summit of King's Mountain west of Chelsea, May 22nd, 1897.

XI. STICTA, (Schreb.) Fr.

309. **Sticta amplissima**, (Scop.) Mass.

On large trunks in old woods, not rare. Common in Rockcliffe Park and McKay's woods, April 16th, 1891 ; in Dow's Swamp ; on rear of Skead's Farm, Richmond road ; also on trees at Carleton Place ; on trees in the swamp west of Hull Station ; on basswood trunks in woods near Hull Cemetery ; on trunks King's Mountain and near Chelsea, May 22nd, 1897.

310. **Sticta pulmonaria**, (L.) Ach.

On large old trees in thick woods, common. Common in Rockcliffe Park and McKay's woods and woods north of Beechwood Cemetery, April 20th, 1891; on trees at Carleton Place; on trees in a swamp at Stittsville; on trunks King's Mountain and near Chelsea, May 22nd, 1897; on trees in a swamp west of Hull Station.

XII. **NEPHROMA**, Ach.311. **Nephroma Helveticum**, Ach.

On rocks at King's Mountain, west of Chelsea, Sep., 1884; also on rocks below the summit, May 22nd, 1897.

312. **Nephroma lævigatum**, Ach.

On large boulders in old woods. In woods north of the Aylmer road and west of Hull, Que., April 27th, 1895; in McKay's woods and in Beechwood Cemetery; on rocks near the summit of King's Mountain, May 22nd, 1897.

313. **Nephroma parile**, Nyl.

On rocks at King's Mere, west of Chelsea, Que., Sept 3rd, 1884.

XIII. **PELTIGERA**, (Willd.) Fee.314 **Peltigera venosa**, (L.) Hoffm.

On earth along the broken bank of the Lievre River at Buckingham, Que., May 14th. 1896.

315. **Peltigera apthosa**, (L.) Hoffm.

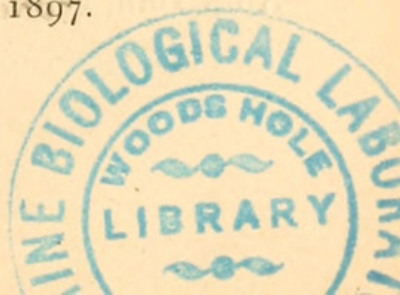
On rocks, logs and earth and among mosses in swampy woods. On earth and old logs in wet woods east of the Beaver Meadow, west of Hull, Que., April 26th, 1891; on damp rocks by the Lievre River, Buckingham, Que.; on dead logs at Carleton Place; on old logs in a swamp at Stittsville, May 14th, 1897.

316. **Peltigera horizontalis**, (L.) Hoffm.

On moist rocks amongst mosses. In woods near the lake at the head of the Beaver Meadow west of Hull, Que., May 16th, 1896.

317. **Peltigera rufescens**, (Neck.) Hoffm.

On earth, rocks, the bases of trees and amongst moss. On rocks in Rockcliffe Park, Beechwood Cemetery, and Ottawa East on a boulder; on rocks rear of Cowley's Farm west of Hintonburg; on old logs Dow's Swamp; on earth at Britannia; common on earth and rocks south of the Aylmer road, Hull, Que.; on earth in a swamp at Stittsville; on rocks near summit of King's Mountain, May 22nd 1897.



318. **Peltigera canina**, (L.) Hoffm.

On earth, rocks and the bases of trees in cool woods. On earth in pine woods Rockcliffe Park; on earth Ottawa East; on earth and rocks in woods west of the Beaver Meadow, Hull, Que.; on old logs in woods Carleton Place; on the earth at the base of trees in woods, Leamy's Lake; on earth in a swamp at Stittsville; very common on earth, old wood and rocks, King's Mountain, May 22nd, 1897.

XIV. **SOLORINA**, Ach.319. **Solorina saccata**, (L.) Ach.

On calcareous earth in the damp crevices of the limestone ledges facing the Ottawa below Governor's Bay, Rockcliffe Park, April 17th, 1895.

XV. **PANNARIA**, Delis.320. **Pannaria lanuginosa**, (Ach.) Kærst.

On limestone ledges along the cliffs of Rockcliffe Park, April 17th 1895; on overhanging rocks along the Beaver Meadow west of Hull, Que.; also along the Ottawa River on limestone cliffs near Tetreauville, Little Chaudiere; on limestone rocks Ottawa East; also near the Experimental Farm; very common on the faces of damp rocks King's Mountain, May 22nd, 1897.

321. **Pannaria leucosticta**, Tuckerm.

On trunks and rocks, rare. On bark of, balsam poplar in woods south of the Aylmer road, west of Hull, Que., April 27th 1895; on boulders Rockcliffe Park; and on stones West End Park; on beech trunks in woods one mile south east of Billings Bridge; on beech trunks north of Beechwood Cemetery; on rocks King's Mountain, May 22nd, 1897.

322. **Pannaria microphylla**, (Schm) Delis.

Forming a thick crust on rocks. On boulders in woods north of Aylmer Road, west of Hull, Que., April 27th, 1895; on boulders, "Pine Hill," Rockcliffe Park and in Beechwood Cemetery; quite common on damp boulders, King's Mountain, May 22nd, 1897.

323. **Pannaria lepidiota**, Fr.

On earth and amongst moss on rocks. On moss on a stone in woods, south of Aylmer Road, west of Hull, Que., April 27th, 1895.

324. **Pannaria nigra**, (Huds.) Nyl.

On limestone rocks by the cliffs along the Ottawa, Rockcliffe Park, April 16th, 1891; on limestone rocks in a field by the Beaver Meadow

Creek, west of Hull, Que.; on limestone rocks at Leamy's Lake; on limestone rocks between Aylmer and King's Mountain, May 22nd, 1897.

XVI. COLLEMA, Hoffm.

325. *Collema myriococcum*, Ach.

Growing on moss, on limestone rocks by the Ottawa, below Governor's Bay, Rockcliffe Park, April 16th, 1891.

326. *Collema pulposum*, (Bernh.) Nyl.

On earth on limestone rocks "Pine Hill," Rockcliffe Park, April 16th, 1896.

327. *Collema crispum*, Borr.

On calcareous earth in the cutting for the Aylmer Railway west of Hull, Que., April 27th, 1895; on earth in crevices of rocks at King's Mountain near Chelsea, Que., May 22nd, 1897.

328. *Collema limosum*, Ach.

On calcareous earth in the cutting for the Aylmer Railway west of Hull, Que.; very rare. April 27th, 1895.

329. *Collema flocculosa*, Nyl.

On limestone rocks below Governor's Bay, Rockcliffe Park, April 17th, 1895; on naked limestone rocks in woods south of the Aylmer Electric Railway, west of Hull, Que.; very rare, May 16th, 1895.

330. *Collema tenax*, (Ach.) Tuckerm.

On calcareous earth on wet rocks in the cutting for the Aylmer Electric Railway west of Hull, Que., April 27th, 1895; on calcareous earth along the limestone ledges at Rockcliffe Park, April 12th, 1896.

XVII. LEPTOGIUM, Fr.

331. *Leptogium tenuissimum*, (Dicks.) Koerb.

On sandy earth, on old fence rails along the Richmond Road west of Hintonburg, April 18th, 1896.

332. *Leptogium lacerum*, (Ach.)

On limestone rocks amongst moss in the cutting for the Aylmer Electric Railway, west of Hull, Que., April 27th, 1895; on limestone rocks by the Ottawa below Governor's Bay, Rockcliffe Park; on damp rocks, King's Mountain, May 22nd, 1897.

333. *Leptogium pulchellum*, (Ach.) Nyl.

On trees in woods, Rockcliffe Park, Sep. 16th, 1889, very rare.

334. **Leptogium Tremelloides** (L.) Fr.

On rocks and trunks ; common. On boulders and trees north of the Aylmer Road, west of Hull, Que., April 27th, 1895 ; on trees in Dow's Swamp ; on boulders in Beechwood Cemetery ; in McKay's woods, and on "Pine Hill," Rockcliffe Park ; on old logs and rocks King's Mountain, May 22nd, 1897.

335. **Leptogium chloromelum**, (Sw.) Nyl.

On old rails near Aylmer and on damp rocks near the summit of King's Mountain, west of Chelsea, May 22nd 1897.

336. **Leptogium respulinum**, Ach.

On limestone rocks near the Ottawa below Governor's Bay, Rockcliffe Park, April 16th, 1891.

XVIII. PLACODIUM (DC.)

337. **Placodium elegans**, (Link.) DC.

On a large boulder in woods, Governor's Bay, Rockcliffe Park, April 16th, 1895.

338. **Placodium aurantiacum**, (Lightf.)

On trees and rocks ; also on dead wood. On a granite boulder in woods, Governor's Bay, Rockcliffe Park, April 17th, 1895 ; on limestone rocks at Britannia ; on boulders in woods west of Hull and on boulders at Leamy's Lake, Oct. 9th, 1896.

339. **Placodium cerinum**, (Hedw.)

Common on trees, on dead wood and mosses. On maple and poplar bark Stewart's bush near the C. A. R. track, April 12th, 1895 ; on dead trees and living ash bark at Britannia ; on poplar bark south of the Aylmer Electric Road, west of Hull, Que. ; on black ash Ottawa East ; on trunks in woods at Leamy's Lake ; on poplar trees in a swamp at Stittsville ; on old rails and trunks King's Mountain, May 22nd, 1897.

340. **Placodium vitellinum**, (Ehrh.)

On dead wood and rocks. On old pine rails at Britannia, April 20th, 1895 ; on cedar rails Ottawa East ; on boulders in pasture by Brigham's Creek - on old rails and logs, King's Mountain, May 22nd, 1897.

341. **Placodium vitellinum**, (Ehrh.) var. **aurellum**, Ach.

On granite boulders in woods, Governor's Bay, Rockcliffe Park, April 17th, 1895 ; on boulders in woods north of the Aylmer road west of Hull, Que. ; on boulders Ottawa East ; on boulders in pastures by Brigham's Creek, May 7th, 1897.

XIX. LECANORA, Ach.

342. *Lecanora muralis*, (Schreb.) var. *saxicola*. Schaer.

Very common on both granite and limestone boulders, Governor's Bay, Rockcliffe Park, April 17th, 1895; quite common on boulders south of the Aylmer road and west of Brigham's Creek, Hull, Que.; on rocks between Chelsea and King's Mountain, May 22nd, 1897.

343. *Lecanora pallida*, (Schreb.) Schaer.

On young pine trees Carleton Place, May 7th, 1892; on a pine trunk Rockcliffe Park; on trunks in woods west of Hull station, also in woods near Leamy's Lake; on trunks in a swamp at Stittsville; on rails and trunks, King's Mountain, May 22nd, 1897.

344. *Lecanora pallida*, (Schreb.) var. *cancriformis*, Tuck.

On living pine trees in woods near the C. P. R. bridge over the Ottawa, west of Hull, April 27th, 1895; on beech trees, Rockcliffe Park.

345. *Lecanora subfusca*, (L.) var. *allophana*, Ach.

On living pine trees in woods near the C. P. R. bridge, over the Ottawa, Hull, Que., April 27th, 1895; on old cedar rails in McKay's woods and Ottawa East; on maple and beech trunks Rockcliffe Park and Beechwood; on maple trunks one mile south east of Billings Bridge; on basswood bark in Dow's Swamp; on trees in a swamp west of Hull station and on boulders in a field by the Aylmer Road; on trunks in woods by Leamy's Lake and on boulders by Brigham's Creek; on trunks in a swamp at Stittsville; on trunks, common, King's Mountain, May 22nd, 1897.

346. *Lecanora subfusca*, (Schreb.) var. *coilocarpa*, Ach.

On beech bark in woods, Rockcliffe Park, April 15th, 1891; on beech bark in woods one mile south east of Billings Bridge; on trunks on King's Mountain, May 22nd, 1897.

347. *Lecanora subfusca* var. *argentata*, Ach.

On small trees at the western base of King's Mountain, west of Chelsea, May 22nd, 1897.

348. *Lecanora Hageni*, Ach.

On old rails near McKay's Lake, April 23rd, 1891; on cedar bark on fences, Ottawa East; on old cedar rails along the Richmond Road above Hintonburg, April 18th, 1896.

349. *Lecanora atra*, (Huds.) Ach.

On young beech trees at Buckingham, Que., May 14th, 1896; on limestone shingle at Britannia, April 20th, 1895.

350. **Lecanora badia**, (Pers.) Ach.

On limestone rocks in woods, north of the Aylmer Road, west of Hull, Que., April 27th, 1895.

351. **Lecanora varia**, (Ehrh.) Nyl.

On bark of trees old boards and fence rails. On pine bark in woods near the C. P. R. bridge west of Hull, Que., April 27th, 1895.

352. **Lecanora varia**, var. **symmicta**, Ach.

On trees and fences ; not rare. On bark of living pine trees in woods west of the Beaver Meadow, Hull, Que., April 27th, 1895.

353. **Lecanora varia**, var. **sæpincola**, Fr.

On the board fence in the cutting for the Aylmer Electric Railway, west of Hull, Que., April 27th, 1895 ; on old fences at Stittsville ; on old fences between Aylmer and King's Mountain, May 22nd, 1897.

354. **Lecanora pallescens**, (L.) Schaer.

On birch trees near Ottawa 1884 ; on trunks at the base of King's Mountain, May 22nd, 1897.

355. **Lecanora privigna**, var. **pruinosa**, Auct.

On limestone rocks, in woods, south of the Aylmer Road, west of Hull, April 27th, 1895 ; on boulders along the road and in fields, Rockcliffe Park ; on limestone boulders in a pasture by Brigham's Creek ; abundant on rocks, King's Mountain, May 22nd, 1897.

XX. RINODINA, Mass.

356. **Rinodina Ascociscana**, Tuck.

On beech trees in McKay's woods near the Lake, April 24th 1891 ; on beech trees in woods one mile south-east of Billings Bridge, April 19th, 1897.

357. **Rinodina sophodes**, (Ach.) Nyl.

On bark of young red maples in Stewart's bush south of the C. A. R. track April 12th, 1895 ; very common on bark of young and old red maple trees along the lake at Britannia ; on beech trees in woods one mile south-east of Billings Bridge, April 19th, 1897.

358. **Rinodina constans**, Nyl.

On beech trees in Beechwood Cemetery, April 20th, 1891.

XXI. PERTUSARIA, DC.

359. **Pertusaria multipunctata**, (Turn.) Nyl.

On old trees in Rockcliffe Park and Beechwood Cemetery, April 27th, 1892 ; on butternut trees along the Aylmer Road west of Hull ; on trunks of the same near the entrance to Hull Roman Catholic Cemetery ; on old cedar rails between Aylmer and King's Mountain, May 22nd 1897.



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