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## Additions to the Moss Flora of Oregon

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**Abstract.** *Nineteen moss species are new to Oregon. Bruchia bolanderi Lesq., Encalypta brevicolla (B.S.G.) Bruch ex Ångstr., Entosthodon leibergii Britt., Ephemerum crassinervium (Schwaegr.) Hampe, Ephemerum serratum (Hedw.) Hampe, Pohlia lescuriana (Sull.) Grout, Polytrichum sphaerothecium (Besch.) C. Muell. and Trematodon boasii Schof. occur here as noteworthy disjunctions.*

Recent collecting of mosses in Oregon has produced 19 species not previously reported from the state, judged from ranges of those taxa given by Lawton (1971). To the author's knowledge, occurrence of these species in Oregon has not been reported previously in the literature. Eleven of these records are expected range extensions that fill voids suggested by the presence of the species in neighboring states. Eight of the records are rare in the Pacific Northwest or are notable disjuncts from known populations in other regions of North America.

The specimens were collected from seven diverse physiographic provinces in the state (cf. Franklin & Dyrness 1973). All taxa except those from the coastal stations at Neptune State Park and Neskowin Crest Research Natural Area occur in plant communities other than forests—habitats that have been poorly collected until recently (Seyer 1979a). A number of the mosses are inconspicuous and easily overlooked; others have been found at considerable distances from roads and were absent from earlier roadside collections. More additions to Oregon's moss flora can be expected as diverse habitats are more closely examined. Specimens were collected from 1976 to the present. Duplicates are deposited as indicated.

- Acaulon muticum* var. *rufescens* (Jaeg.) Crum. BENTON CO.: Corvallis, St. Mary's Cemetery, on soil bank, elev. 75 m, *Lyford 842* (OSC, UBC). LANE CO.: Eugene, Alton Baker Park, gravel pit 0.4 km E of north end of Willamette River footbridge to Autzen Stadium, on soil among gravel, full exposure, elev. 137 m, *Wagner 1834* (ORE, UBC, WTU), *Christy 1284* (BUF, herb. J. A. Christy). LINN CO.: Cogswell-Foster Preserve, 4.8 km S of Halsey, T14S, R4W, S24, on top of old anthill, elev. 88 m, *Wagner 2261* (ORE). Lawton (1971) includes this species in her keys as 'reported from the Pacific Northwest.' This latter report was based on specimens collected in SE Washington, but the material could not be verified (E. Lawton, pers. comm. to D. H. Wagner).
- Aloina pilifera* (De Not.) Crum & Steere. MORROW CO.: Boardman U.S. Navy Bombing and Gunnery Range, just S of Boardman, T2N, R25E, on soil, exposed bluff overlooking Juniper Canyon, elev. 244 m, *Christy 1399* (BUF, ORE, WTU, herb. J. A. Christy).
- Alsia californica* (Hook. & Arnott) Sull. LANE CO.: Neptune State Park, 4.8 km S of Yachats, T15S, R12W, on *Sambucus* along Cummins Creek Trail, elev. 30 m, *Lyford 659* (OSC, UBC). TILLAMOOK CO.: Siuslaw National Forest, Neskowin Crest Research Natural Area, 9.6 km N of Lincoln City, T6S, R11W, S2, on *Sambucus* along Cascade Head Trail, elev. 122 m, *Wagner 1666* (ORE, WTU).
- Andreaea blyttii* B.S.G. CLACKAMAS CO.: Mt. Hood National Forest, just above Timberline Lodge, on rock, large alpine boulder field with several small streams, elev. 2042 m, *Lyford 2518* (OSC, UBC), 2532 (OSC, UBC). LANE CO.: Three Sisters Wilderness, Willamette National Forest, Obsidian Cliffs, near junction of Obsidian Trail and Glacier Way Trail, T16S, R8E, S15, on talus blocks at foot of cliff, full exposure, elev. 1829 m, *Christy 1192* (ORE, UBC, WTU, herb. J. A. Christy).

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- Bruchia bolanderi* Lesq. DESCHUTES Co.: Deschutes National Forest, Swampy Lakes, 21 km WSW of Bend, T18S, R10E, S18, on soil, root ball of overturned *Pinus contorta*, elev. 1800 m, *Chambers 88* (ORE, UBC, WTU, herb. A. R. Chambers, herb. J. A. Christy), 177 (UWSP), *Wagner 1510* (ORE): Three Sisters Wilderness, grassy meadow along Nash Lake Trail near Sisters Mirror Lake, 44 km W of Bend, T18S, R8E, S6, on damp soil, full sun, elev. 1829 m, *Chambers 248* (ORE, herb. A. R. Chambers), grassy flat at foot of lava flow between Devils Lake and Sparks Lake, 37 km WSW of Bend, T18S, R8E, S10, on damp soil in full sun, elev. 1683 m, *Chambers 317* (herb. A. R. Chambers). LANE Co.: Willamette National Forest, Three Sisters Wilderness, small pond near NW corner of Denude Lake, 44 km W of Bend, T18S, R7E, S1, on vertical soil bank at N end of pond, full sun, elev. 1829 m, *Chambers 308* (herb. A. R. Chambers). W. B. Schofield (pers. comm. to A. R. Chambers) states that the Oregon collections are the first to be made outside of the Sierra Nevada Mountains of California. The first Oregon collection is the third known collection of this moss since its description in 1868.
- Bryum bicolor* Dicks. LANE Co.: Eugene, University of Oregon campus, on soil along path near science complex, full exposure, elev. 137 m, *Christy 1185* (ORE, herb. J. A. Christy); Signal Point, Fern Ridge Reservoir, 16 km W of Eugene, T17S, R5W, S20, on mud flats exposed at low water, early spring, elev. 114 m, *Christy 1289* (ORE, WTU, herb. J. A. Christy).
- Dematodon obtusifolius* (Schwaegr.) Schimp. WALLOWA Co.: Marble Point, W of Frances Lake Trail, Wallowa-Whitman National Forest, T3S, R43E, S24, on soil, elev. 2210 m, *Wagner 2097* (ORE, herb. J. A. Christy).
- Dematodon plinthobius* Sull. & Lesq. ex Sull. HARNEY Co.: E wall of Devine Canyon, 16 km NNE of Burns, T21S, R31E, S28, on talus blocks at foot of rimrock, elev. 1402 m, *Christy 1561-1* (BUF, herb. J. A. Christy).
- Didymodon brachyphyllus* (Sull. in Whipl.) Zander (= *Barbula brachyphylla* Sull. in Whipl.). MORROW Co.: Boardman U.S. Navy Bombing and Gunnery Range, just S of Boardman, T3N, R25E, on soil, open flats near central target zone, elev. 137 m, *Christy 1398-2* (BUF, herb. J. A. Christy).
- Encalypta brevicolla* (B.S.G.) Bruch ex Ångstr. CURRY Co.: Siskiyou National Forest, Igneous outcrop near junction of Forest Road 3406 and Fishhook Road, 13 km ENE of Agness, T34S, R10W, S31, in shaded rock crevices of NW exposure, elev. 1342 m, *Wagner 1921* (ALTA, ORE, UBC), *Sundberg 140* (herb. S. D. Sundberg), *Christy 1347* (herb. J. A. Christy). Horton (1980) summarizes the distribution of this boreal taxon.
- Entosthodon leibergii* Britt. LINN Co.: Horse Rock Ridge, 9.7 km NNW of Mabel, T15S, R2W, S1, on soil in grassy bald of SW exposure, elev. 732 m, *Christy 1430* (ORE, UBC, herb. J. A. Christy). This species was described by Lawton (1971) as "rare in America." Two collections are known from Washington (Lawton & Ireland 1963) and one from Idaho (Britton 1900).
- Ephemerum crassinervium* (Schwaegr.) Hampe. LANE Co.: Signal Point, Fern Ridge Reservoir, 16 km W of Eugene, T17S, R5W, S20, on mud flats exposed at low water, early spring, elev. 114 m, *Christy 1291* (ORE, UBC, herb. J. A. Christy), 1383 (herb. J. A. Christy). To the author's knowledge, this species has not been reported west of the prairie states (Whitehouse & McAllister 1954, Cridland 1960, Churchill 1977).
- Ephemerum serratum* (Hedw.) Hampe. LANE Co.: Signal Point, Fern Ridge Reservoir, 16 km W of Eugene, T17S, R5W, S20, on mud flats exposed at low water, early spring, elev. 114 m, *Christy 1291-1* (ORE, herb. J. A. Christy). This moss, described by Grout (1935) as "apparently rare and local," is known on the west coast of North America from four California counties in the vicinity of San Francisco (Bryan & Anderson 1957). The closest other North American stations reported are in Saskatchewan (Bird 1967) and Texas (Whitehouse & McAllister 1954).
- Grimmia alpestris* var. *holzingeri* (Card. & Thér.) Jones in Grout. JEFFERSON Co.: Deschutes National Forest, Mt. Jefferson Wilderness, small ridge ESE of Martin Lake, 3.2 km N of Santiam Pass, T13S, R7½E, S12, on rocks, elev. 1732 m, *Wagner 2331* (ORE, WTU).
- Pohlia lescuriana* (Sull.) Grout. TILLAMOOK Co.: Siuslaw National Forest, Neskowin Crest Research Natural Area, 9.6 km N of Lincoln City, T6S, R11W, S2, on soil, bank of Cascade Head Trail, elev. 122 m, *Christy 465* (ORE, UBC, herb. J. A. Christy). Andrews (1935) stated that reports of *P. lescuriana* from western North America (Flowers 1929, 1936; Porter 1935) could be referred to other species. To the author's knowledge, the westernmost authentic report of *P. lescuriana* (as *P. pulchella*) is that of Conard (1945).
- Polytrichum sphaerothecium* (Besch.) C. Muell. (= *P. sexangulare* var. *vulcanicum* C. Jens.). HOOD RIVER-CLACKAMAS COS. line: Mt. Hood National Forest, Mt. Hood Wilderness, McNeil Point, NW ridge of Mt. Hood, T2S, R8½E, S13, on vertical rock in protected crevices at top of cliff, elev. 1830 m, *Wagner 2365* (ORE, UBC, herb. J. A. Christy). To the author's knowledge, this moss has not been collected south of British Columbia. W. B. Schofield (pers. comm. to D. H. Wagner)

indicates that this species is probably distinct from *P. sexangulare* var. *sexangulare* (sensu Crum, Steere & Anderson 1973). *P. sphaerothecium* appears to be consistently saxicolous (Schofield 1966b). In contrast, *P. sexangulare* is a well-known component of the terrestrial bryophyte flora of late-lying snowbanks in alpine areas (Gjaerevall 1950, Bird 1962, Smith 1978).

- Pottia heimii* (Hedw.) Fuernr. WASCO Co.: 1.6 km N of Clarno, first dry lake bed N of Clarno Grange, on alkali, elev. 610 m, *Chambers 402* ( (BUF, ORE, herb. A. R. Chambers, herb. J. A. Christy).
- Tomenthypnum nitens* (Hedw.) Loeske. LANE Co.: Willamette National Forest, Gold Lake Bog Research Natural Area, T22S, R6E, S29, on damp peat, W edge of bog, elev. 1463 m, *Wagner 904* (ORE), *Christy 1464* (herb. J. A. Christy). DESCHUTES Co.: Deschutes National Forest, Bog 1, halfway between Benz Spring and Little Cultus Lake bog complex, T20S, R7E, S34, in drier portions of bog, elev. 1463 m, *Christy 1182* (herb. J. A. Christy), *Wagner 1627* (ORE, WTU). Seyer (1979b) reported additional Oregon localities for this species.
- Trematodon boasii* Schof. LANE Co.: Willamette National Forest, Three Sisters Wilderness, small pond near NW end of Denude Lake, 44 km W of Bend, T18S, R7E, S1, on vertical soil bank at S end of pond, shaded, elev. 1829 m, *Chambers 255, 307* (ORE, UBC, WTU, herb. A. R. Chambers, herb. J. A. Christy). This species was thought to have been endemic to British Columbia (Lawton 1971), being previously known only from two stations on Vancouver Island (Schofield 1966a), one on the Queen Charlotte Islands and one from Garibaldi Provincial Park on the mainland (Schofield 1968).

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## New or Additional Moss Records from Newfoundland V

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*Abstract.* Seven species of mosses are added to the flora of the island of Newfoundland, Canada. Two previously reported species are deleted, and additional distributional records are provided for eight other species.

As a result of our continuing studies on the moss flora of the island of Newfoundland (Brassard 1975; Brassard, Weber & Fife 1976; Brassard & Weber 1977, 1978), we are able to report seven species as new to the island and to provide additional distributional records for eight other rare or unusual species. Two species must also be deleted from the Newfoundland bryoflora. Including the present reports, the known moss flora of Newfoundland (excluding *Sphagna*) stands at 382 species.

The specimens reported here were mainly collected by the first author in 1976 (northern portion of Northern Peninsula) and in 1977 (Gros Morne National Park, west coast of Newfoundland). Unless otherwise noted, voucher specimens are deposited in NFLD; some duplicates are at MICH and in the herbarium of A. J. Fife. In the following list, taxa new to Newfoundland are preceded by an asterisk, and taxa deleted from Newfoundland are enclosed in square brackets.

*Antitrichia curtispindula* (Hedw.) Brid. This species is known from two localities in southern Newfoundland, and also from the adjacent French island of Miquelon (Tuomikoski et al. 1973). All previous reports have been verified, and we have discovered the exact locality of Waghorne's "Placentia Bay" site: at FH we have seen a specimen of *Antitrichia curtispindula* collected at Pinch Gut, Placentia Bay, by A. C. Waghorne in 1890.

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