

CONTRIBUTIONS TO THE BRYOPHYTE FLORA OF TURKEY: VII

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In the spring of 1968 Sir Colville Barclay, who was on the point of departure for a short collecting trip for flowering plants in Turkey, kindly offered to collect mosses also—an offer which was taken up with alacrity. The resulting collection, though of necessity small in view of the brief nature of the visit, contained several interesting species. In view of the recent full documentation of the Turkish moss flora, it seems worth while to publish the list of determinations, which includes one species new to Turkey.

All the specimens were collected in the region of Ispir, Erzurum Province, and thus in section 4 of the grid devised by Henderson (1961).

Polytrichum juniperinum Hedw. About 20 km E of Ispir, growing on ground under pine trees in pine forest, 1970 m, 4 vii 1968, *Barclay* 996.

Saelania glaucescens (Hedw.) Broth. c.fr. SE of Ispir, on damp soil under Rhododendrons on north-facing slope, ridge to the east of Ferik Da., 2600 m, 3 vii 1968, *Barclay* 954. A new species to Turkey, but scarcely unexpected.

Ceratodon purpureus (Hedw.) Brid. About 20 km E of Ispir, growing on ground under pine trees, 1970 m, 4 vii 1968, *Barclay* 997.

Dicranum scoparium Hedw. About 20 km, E of Ispir, growing on ground under pine trees, 1970 m, 4 vii 1968, *Barclay* 994; stony north-facing hillside near Ferik Da., growing in among branches of a prostrate juniper, 1970 m, 3 vii 1968, *Barclay* 953.

Encalypta ? rhabdocarpa Hedw. Underside of a rock S of Ispir, c. 1700 m, 20 vi 1968, *Barclay* 718. Without capsules, and thus not specifically determinable; the closely tufted habit, however, more closely resembles that of *E. rhabdocarpa* rather than *vulgaris*. After examining isotype material of *E. intermedia* Jur. I can still find no constant differences to separate this plant from *E. rhabdocarpa*, in which the development of the peristome is extraordinarily variable.

Tortella fragilis (Hook. & Wils. ex Drumm.) Limpr. On a rock on the top of a mountain near Mesit Da., south of Ispir, 3000 m, 1 vii 1968, *Barclay* 921.

Tortella tortuosa (Hedw.) Limpr. On the ground under pine trees in pine forest about 20 km E of Ispir, 1970 m, 4 vii 1968, *Barclay* 995.

Grimmia apocarpa Hedw. c.fr. On rock in an orchard at Ispir, c. 1200 m, 21 vi 1968, *Barclay* 749.

Grimmia commutata Hüben. At the base of a rock S of Ispir, c. 2200 m, 30 vi 1968, *Barclay* 865.

Grimmia elatior Bruch. At the foot of Mesit Da., S of Ispir, c. 3000 m, 1 vii 1968, *Barclay* 928.

Aulacomnium palustre (Hedw.) Schwaegr. In swampy ground near a lake at the foot of Mesit Da., S of Ispir, c. 3000 m, 1 vii 1968, *Barclay* 922. A form with very acutely acuminate upper leaves and markedly stellate areolation.

Bartramia ithyphylla Brid. c.fr. In the shade of *Rhododendron* on north-facing slope, ridge to the east of Ferik Da., SE of Ispir, c. 2500 m, 3 vii 1968, *Barclay* 985.

Heterocladium squarrosulum (Voit) Lindb. In shade of *Rhododendron* on north-facing slope, ridge to the east of Ferik Da., south-east of Ispir, c. 2500 m, 3 vii 1968, *Barclay* 985a.

Amblystegium serpens (Hedw.) B. & S. On ground in light woodland (derelict orchard), Ispir, c. 1200 m, 21 vi 1968, *Barclay* 750a.

Camptothecium sericeum (Hedw.) Kindb. Vertical rock face, valley of River Çoruh, Ispir, c. 1200 m, 25 vi 1968, *Barclay* 789.

Camptothecium philippeanum (Spruce) Kindb. On ground in light woodland (derelict orchard), Ispir, c. 1200 m, 21 vi 1968, *Barclay* 750.

Eurhynchium pulchellum (Hedw.) Jenn. var. **diversifolium** (B., S. & G.) C. Jens. c.fr. On ground under pine trees in pine forest about 20 km E of Ispir, 1970 m, 4 vii 1968, *Barclay* 998.

Hypnum vaucheri Lesq. Vertical rocks in the valley of the River Çoruh, Ispir, c. 1200 m, 25 vi 1968, *Barclay* 801; on rock on steep, very stony hillside, Ispir, c. 1300 m, 27 vi 1968, *Barclay* 852; on bank of subsided clay soil (damp), Ispir, c. 1200 m, 22 vi 1968, *Barclay* 767.

Rhytidiadelphus triquetrus (Hedw.) Warnst. In middle of a *Rhododendron* bush on north-facing, steep, stony slope east of Ferik Da., south-east of Ispir, alt. c. 2530 m, *Barclay* 974.

All the above specimens are in the writer's personal herbarium at Twickenham, Middlesex.

REFERENCES

- HENDERSON, D. M. (1961). Contributions to the bryophyte flora of Turkey: V, Summary of present knowledge. *Notes R.B.G. Edinb.* 23:280-301.