

Smith. **28**: on oolite stone, 33 m, parish churchyard, South Acre, TF81, 1987, C.R. Stevenson, det. Smith. **29**: on wall of church, Leverington, near Wisbech, TF41, 1999, C.R. Stevenson, det. Smith. **34**: on limestone by river, River Wye, near Staunton, 1956, A.J.E. Smith, det. Smith. **41**: on limestone outcrop, Landimore, Gower, SS49, 1961, A.J.E. Smith, det. Smith. **45**: Trewellwell Wood, 1971, A.J.E. Smith, det. Smith. **57**: on lime-covered tree trunks near quarry, Wyedale, E of Buxton, SE17, 1974, D.G. Long, E, det. Smith. **64**: on limestone boulders at foot of cliff, Kilnsey Crag, Wharfedale, SD96, 1974, D.G. Long, E, det. Smith. **67**: on bridge parapet, Sweethope Loughs, NY98, 1973, D.G. Long, E, det. Smith. **83**: on rock, Craigmillar Castle, 1909, W. Evans, E, det. Blom. **85**: on rocks, near Thornton, 1905, W. Evans, E, det. Smith. **86**: on wall, Boot Hill, NT77, 1953, A.C. Crundwell, E, det. Smith. **87**: on limestone rocks, 600 m, head of Kirkton Glen, Balquidder, NN52, 1978, D.G. Long, E, det. Smith. **88**: on basic rock, Creag na Caillich, NN53, 1975, M. Corley, det. Smith. **90**: Bridge of Achallater, 1844, W. Gardiner, E, det. Smith. **92**: on limestone, 500 m, Craig Leek, Braemar, NO19, 1999, D.G. Long & G.P. Rothero, E, det. Smith. **105**: on rock in

stream by dunes, Achnahaird Bay, NC01, 1960, A.J.E. Smith, det. Smith. **106**: on limestone rock, Strath Oykel, between road and Benmore Lodge, 1960, A.J.E. Smith, det. Smith. **107**: on limestone rock, near Benmore Lodge, 1960, A.J.E. Smith, det. Smith. **H26**: on limestone pavement, by Keel Bridge between Ballinrobe and Partry, 1962, A.J.E. Smith, det. Smith. **H28**: on limestone boulder at foot of cliffs, 400 m, Gleniff above Clogh, G74, 1987, D.G. Long, det. Blom. **H39**: on limestone rocks, Belfast Mountain, 1928, W.R. Megaw, NMW, det. Smith. **H40**: on top of stone wall, Ballinallan, 1946, A.M. Irwin, E, det. Smith.

Schistidium elegantulum a subsp. *elegantulum*. **34**: above Penmoyle, 1891, Schoolbred, NMW, det. Smith; **98**: on limestone rock, NE coast of Lismore, 1963, U.K. Duncan, E, det. Smith. **108**: on limestone outcrop in moorland, 150 m, Druim Poll Eoghainn, Elphin, Assynt, NC20, 1956, G.A.M. Scott, NMW, det. Smith. **b subsp. wilsonii**. **36**: on limestone rock, Lord's Wood, Great Doward, SO51, 1968, A.C. Crundwell, E, det. Smith. **H9**: on limestone rock, summit of Corkscrew Hill, M30, 1962, A.J.E. Smith, det. Smith.

Sematophyllum substrumulosum new to mainland Britain

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Sematophyllum substrumulosum in Sussex

In 1964, I attended the spring field meeting of the British Bryological Society on the Isle of Wight (Perry, 1965). After the meeting, Eustace Jones offered me, together with Ted Wallace, a ride in his car back towards London. We

stopped twice on the way to look for bryophytes. The first stop was Bow Hill (SU8210), in Kingley Vale, near Chichester in West Sussex (v.-c. 13). As far as I can remember now, after so many years, Ted Wallace had been there before. It was a rather dry area on chalk dominated by *Taxus baccata*.

In those days, my profession took a lot of time and I travelled a great deal. It was not until 1972 that I found time to examine the specimens I had collected in 1964 at the above locality. The following items have now been registered in the Swedish Museum of Natural History (herbarium S): *Leiocolea turbinata*, *Fissidens pusillus*, *Pleurochaete squarrosa*, *Pottiopsis caespitosa*, *Rhynchostegium confertum* (two specimens), *Seligeria pusilla*, *Taxiphyllum wissgrillii*, *Thamnobryum alopecurum* and *Tortella inflexa*.

One moss sample carried the field notes 'Rhynchostegium confertum' and 'under Taxus'. However, I found that the moss in question had no costa and consequently could not be a *Rhynchostegium*. I therefore put it to one side. In July 2004, this specimen came to the surface again. This time, with the help of Smith (1978), I concluded that it was a *Sematophyllum*. However, neither of the two species described in Smith made a perfect fit. I consulted Lars Hedenäs who suggested *S. substrumosum* and referred to his publication on Madeiran mosses (Hedenäs, 1992). I compared it with other samples in herbarium S and confirmed this identification. Furthermore, I had obviously collected my specimen from decaying wood, which is the normal substrate for this species. The sample is fairly large and has plenty of mature capsules. It has been registered in herbarium S as item B94339. Further information can be found at the Swedish Museum of Natural History website (<http://www.nrm.se/kbo/saml/mosskoll.html.en>). A duplicate voucher specimen has been deposited in the herbarium of the Royal Botanic Garden in Edinburgh.

This seems to be the first record of *S. substrumosum* from mainland Britain, but there

is an earlier report from the Isles of Scilly (Holyoak, 1996). After 1996, the species has also been reported from Belgium (de Beer & Arts, 2000) and from the Netherlands (van Zanten, 2003).

Van Zanten (2003) pointed out that *S. substrumosum* looks like a small *Rhynchostegium confertum*. It is a curious fact that I collected two samples of *R. confertum* at Bow Hill and my field notes said the same about the *Sematophyllum*. I now think it is reasonable to assume that Ted Wallace knew Bow Hill as a locality for *R. confertum* and wanted to show it to me.

My sample contains a considerable amount of the hepatic *Lophocolea heterophylla*. This determination has been confirmed by David Long. Both Holyoak (1996) and van Zanten (2003) recorded *L. semiteres* at their localities for *S. substrumosum*. If *L. semiteres* had been present in my sample it might have suggested a recent introduction.

References

- de Beer D, Arts T. 2000. *Sematophyllum substrumosum* (Musci, Sematophyllaceae) nieuw voor de Belgische flora. *Belgian Journal of Botany* **133**: 15-20.
- Hedenäs L. 1992. Flora of Madeiran pleurocarpous mosses (Isobryales, Hypnobryales, Hookeriales). *Bryophytorum Bibliotheca* **44**: 1-165.
- Holyoak DT. 1996. *Sematophyllum substrumosum* (Hampe) Broth. in the Isles of Scilly: a moss new to Britain. *Journal of Bryology* **19**: 341-345.
- Perry AR. 1965. The annual meeting 1964. *Transactions of the British Bryological Society* **4**: 893-895.
- Smith AJE. 1978. *The moss flora of Britain and Ireland*. Cambridge: Cambridge University Press.
- van Zanten BO. 2003. *Sematophyllum substrumosum* (Hampe) Britt. nieuw voor Nederland en eerste vondst van *Lophocolea semiteres* in Drenthe. *Buxbaumia* **63**: 7-13.