

# Distribution of taxa within the *Schistidium apocarpum* complex in the British Isles

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## Introduction

The revision of the *Schistidium apocarpum* complex by Blom (1996) necessitated a reassessment of the vice-county distribution of the 13 taxa in the complex reported from the British Isles. This short paper is an attempt to describe the current situation. For a key and a brief description of each of the British species see Smith (2000).

The distribution given below is based on records from three sources:

- records extracted from Blom (1996), which provided the basis for the distribution published in the current *Census Catalogue* (Blockeel & Long, 1998), together with a few additional records;
- records published as new vice-county records in the BBS *Bulletins* since 1999;
- vouchers verified by A.J.E. Smith or H.H. Blom, listed in Smith (2000), and sent to me as Recorder for Mosses.

The situation is straightforward for those taxa that were included in the current *Census Catalogue* for the first time (*S. papillosum*, *S. dupretii*, *S. flaccidum*, *S. frigidum*, *S. crassipilum* and *S. elegantulum*); the distribution of these species is based on specimens verified by Blom or Smith and on vouchers submitted to me since 1999. *S. pruinosum*, although not strictly a new taxon as it was included in the *Census Catalogue* prior to

Warburg's revision (Warburg, 1963), has been treated in the same way. *S. apocarpum sensu stricto* obviously needed a complete revision, and so the distribution of this species is also based on specimens verified by Blom and Smith and on vouchers sent to me since 1999.

The situation is less satisfactory for those taxa that are synonymous with taxa recorded in the British Isles prior to Blom's revision, i.e. *S. trichodon*, *S. strictum*, *S. robustum* (*S. apocarpum* var. *homodictyon*), *S. confertum* (*S. apocarpum* var. *confertum*) and *S. atrofusum*. *S. trichodon* and *S. atrofusum* are so distinct that it can be assumed with some confidence that older records have been correctly determined and that the distribution in the *Census Catalogue* is substantially accurate; they are not included here. The other three species ideally need a complete revision in the light of Blom's work but there are no plans for this at present. The distribution currently given in the *Census Catalogue* is that of the taxa (*S. strictum*, *S. apocarpum* var. *homodictyon* and *S. apocarpum* var. *confertum*) as accepted before Blom's revision. This distribution is probably reasonably accurate but recently confirmed records are listed below, as an incentive for vice-county recorders to chase up unconfirmed records!

Details of records that were not published in Blom (1996) or in the lists of new vice-county records published in BBS *Bulletins* 75, 77, 79 and 81 are given in Annex 1.

## Vice-county distribution of taxa

***Schistidium apocarpum***. 1-3, 6, 9, (23), 26-28, (33), 34, (35), 39, (40), 41-45, 47, (48), 49-52, (55), 57, 58, 63, 65, 72, 75, (77), 78, 80-82, (83-85), 87, 89, 90, 92, 94, 97-99, (100, 101), 103-108, (110, 111); H 2, 3, 9, 16, 19, 25-28, 33-39.

The distribution published by Smith (2000) included vice-counties 53, 96 and 102, and a post-1950 record for vice-county 48. I have no record of vouchers for these vice-counties and so have omitted them here.

***Schistidium papillosum***. 42, 48, 72, 88-90, 92, 97.

***Schistidium pruinosum***. 57, 81, 83, (85, 87), 88, 90, 92, 97, 98, 103; H (39).

***Schistidium strictum***. The distribution given in the *Census Catalogue* is probably reasonably accurate and will stand pending a full revision. Vouchers from the following vice-counties have been verified recently: 41, 43, 48, 49, 66, 69, 87-90, 92, 96-98, 105, 106, 108; H 1, 27.

***Schistidium dupretii***. (83), 87, (88), 90, 97.

***Schistidium robustum***. The distribution given in the *Census Catalogue* is probably reasonably accurate and will stand pending a full revision. Vouchers from the following vice-counties have been verified recently: 60, 64, 65, 89, 90, 92, 97, 98, 104, 105, 107, 108.

***Schistidium confertum***. The distribution given in the *Census Catalogue* is probably reasonably accurate and will stand pending a full revision. Vouchers from the following vice-counties have been verified recently: 28, 43, 47, 48, (49), 64, 77, (83, 85, 87, 88), 90, 107, 108; H (38, 39).

***Schistidium flaccidum***. 49.

***Schistidium frigidum* a var. *frigidum***. 42, 47, (49, 65), 72, 89, 92, 96, 97, 104, 108. **b var. *havaasii***. 49, (65), 72, 88.

***Schistidium crassipilum***. 1, 2, 4, 6, 8, 9, 11-13, 16-19, 22, 23, 26-29, 31-37, 39-45, 47, 49-51, 53, 55, 57, 62, 64-67, 69, 76, 80-82, (83, 85), 86-90, 92, 97, 98, 104-108; H 13, 18, 25, 26, 28-30, 33, 35, 36, (39, 40).

***Schistidium elegantulum* a subsp. *elegantulum***. (34), 52, 98, 108; H (5). **b subsp. *wilsonii***. 35, 36, (37, 41), 104; H 9, (16, 26).

## References

- Blockeel TL, Long DG. 1998. *A check-list and census catalogue of British and Irish bryophytes*. Cardiff: British Bryological Society.
- Blom HH. 1996. A revision of the *Schistidium apocarpum* complex in Norway and Sweden. *Bryophytorum Bibliotheca* 49. Berlin.
- Smith AJE. 2000. The *Schistidium apocarpum* complex in the British Isles. *Bulletin of the British Bryological Society* 74: 42-49.
- Warburg EF. 1963. *Census catalogue of British mosses. 3rd edition*. British Bryological Society.

## Annex 1. Previously unpublished records.

These vouchers were extracted from a list of herbarium material verified by A.J.E. Smith or H.H. Blom and sent to me as Recorder for Mosses by Smith. In most instances the most recent record from a vice-county was selected. Unfortunately, a number of the records do not have grid references; if vice-county recorders wish to supply missing hectad references, I will add them to the database. A large number of vouchers are from the herbaria at the National Museum of Wales (NMW) or the Royal Botanic Garden, Edinburgh (E); those collected by M.F.V. Corley and A.J.E. Smith are in their personal herbaria.

***Schistidium apocarpum* 1:** on stone, Kynance Cove, Lizard, SW61, 1962, A.J.E. Smith, det. Smith. **2:** on trunk of tree in flood zone, River Tamar, E of Chilworthy, SX47, 1998, D.T. Holyoak, det. Smith. **3:** Holne Bridge, SX76, 1952, F. Rose, det. Smith. **6:** on limestone rock, Ebbor Gorge, Wells, 1951, F. Rose, det. Smith. **9:** on bridge, River Stour, Gillingham, 1981, D.B.J. French, det. Smith. **23:** on railway bridge, Long Hanborough, 1948, A.C. Crundwell, E, det. Smith. **27:** on railway bridge, 44 m, Marriots Way, 1.5 km E of Attlebridge, TG11, 1999, C.R. Stevenson, det. Smith. **28:** on cross opposite churchyard, 12 m, Castle Rising, Kings Lynn, TS62, 1999, C.R. Stevenson, det. Smith. **33:** on wall, Cleeve Hill, Cheltenham, 1909, H.H.

- Knight, det. Smith. **34**: on wall, Trull House, Culkerton, ST99, 1971, G.W. Garlick, det. Smith. **35**: on limestone boulders, Slade Wood, Roggiatt, 1925, A.E. Wade, det. Smith. **39**: Ecton, A.D. Banwell & L.C.B. Trotter, det. Smith. **40**: Broomhill, 1893, R. de G. Benson, det. Smith. **41**: on rocks, Llyn Fawr reservoir, SN90, 1961, A.J.E. Smith, det. Smith. **42**: on wall below dam, Grwyne Reservoir, 1999, N.G. Hodgetts, det. Smith. **43**: rock outcrop above bridge, Abbey Cymhir, SO07, 1965, A.J.E. Smith, det. Smith. **44**: on rock, Black Mountain, SU71, 1965, S.G. Harrison, det. Smith. **45**: Treffgarne, 1958, P.F. Hunt, det. Smith. **47**: on limestone scree, Llanymynach Hill, 1955, D.D. Bartley, det. Smith. **49**: on rock by stream, by path from Betws-y-coed to Llyn Elsi, 1972, A.J.E. Smith, det. Smith. **50**: on lead mine workings, Esclusham Mountain, SJ25, 1996, A.C. Crundwell, det. Smith. **52**: on limestone slab, Cors-goch, Llanbedrgoch, SH48, 1967, A.J.E. Smith, det. Smith. **55**: by canal near Whetstone, 1905, H.P. Reader, det. Smith. **58**: Macclesfield, SJ97, 1986, D.G. Long, E, det. Smith. **65**: wet rocks, Rawthey Stream, 1969, E.V. Watson, det. Smith. **72**: on rock in old limestone quarry, Eaglesfield, NY27, 1961, A.J.E. Smith, det. Smith. **77**: Rose Hill, 1841, unknown collector, E, det. Smith. **78**: on dry stone wall, Peebles, 1950, I.G. Hall, NMW, det. Smith. **80**: on basalt outcrop, N bank of Eden Water above Swithill Linn, NT73, 1996, D.G. Long & P. Lusby, E, det. Smith. **81**: on rock outcrop on S-facing slope, Little Thairn, Nenthorne, NT63, 1999, D.G. Long, E, det. Smith. **82**: Traprain Law, 1955, D.M. Henderson, E, det. Smith. **83**: Rawling, 1909, W. Evans, E, det. Smith. **84**: Ricastone Hills, 1916, W. Evans, E, det. Smith. **85**: Largo Law, 1863, C. Howie & W. Wilson, E, det. Smith. **87**: on boulder in burn in ravine, 90 m, Menstrie Glen, Ochils, NT89, 1995, D.G. Long & M.V. Fletcher, E, det. Smith. **88**: on rocks, Creag an Lochain, NN54, 1960, A.J.E. Smith, det. Smith. **90**: on damp rocks on crag, 720 m, Drum Bor, Caenlochan Glen, NO17, 1983, D.G. Long & B.N. Murray, E, det. Smith. **92**: on limestone crag, 600 m, Creag an Dail Beag, NO18, 1987, D.G. Long, E, det. Blom. **94**: boulder on river bank, 360 m, Water of Ailnack, NJ11, 1986, D.G. Long & J.A. Paton, E, det. Smith. **97**: on parapet of bridge, Camas Salach, Loch Sunart, NM66, 1986, A.J.E. Smith, det. Smith. **98**: on rocks by river, Glen Nant, Taynuilt, 1976, M. Corley, det. Blom. **99**: on rock by stream, Long Craigs, Kilpatrick Hills, NS47, 1950, A.C. Crundwell, E, det. Smith. **100**: Beblister Burn, Lamlash, Arran, 1909, J. McAndrew, E, det. Blom. **101**: Tarbert, Loch Fyne, 1912, J. McAndrew, E, det. Smith. **103**: on rocks by shore, Calgary Bay, Mull, 1947, unknown collector, E, det. Blom. **104**: on rock ledge, The Quiraing, Skye, NG46, 1968, B. O'Shea, det. Smith. **106**: on limestone rock, Strath Oykel, between road and Benmore Lodge, 1960, A.J.E. Smith, det. Smith. **107**: on basic rock, NW side of Ben Griam Mor, 1967, U.K. Duncan, E, det. Blom. **108**: on hornblende-schist crag, Ben Hope, W side, NC44, 1974, D.G. Long & D.F. Chamberlain, E, det. Smith. **110**: Barra, 1936, E.V. Watson, E, det. Smith. **111**: Skeking Gill, Louneders Lea, Hoy, 1935, J. Sinclair, E, det. Smith. **H3**: rocks on shore, Glenbeg Lough, 1979, A.J.E. Smith, det. Smith. **H9**: Poulisallagh, Lisdoonvarna, 1968, M. Price-Jones, det. Smith. **H16**: on rock, Lissoughter, near Recess, 1962, A.J.E. Smith, det. Smith.
- Schistidium papillosum*. **42**: on open sloping sandstone rocks below crag, Craig Cerrig Gleisiad NNR, SN92, 1999, G.P. Rothero 99185, det. Smith. **48**: on bare rocks, Cwm Cowarch, 1996, R.C. Stern, det. Smith. **72**: Upper Coombe Craig, by Blackhope Burn, Moffatdale, NT11, 1961, A.J.E. Smith, det. Smith. **88**: on stone, summit of Ben Lawers, NN64, 1961, A.J.E. Smith, det. Smith. **90**: Caenlochan Glen, 1964, E.F. Warburg & U.K. Duncan, E, det. Blom. **92**: Craig Leek, Braemar, NO19, 1964, A.J.E. Smith, det. Smith.
- Schistidium pruinoseum*. **85**: Largo Law, 1909, J. McAndrew, NMW, det. Smith. **87**: on rock on hillside, behind Alloa, 1887, W. Evans, E, det. Blom. **88**: on dry, S-facing basic rocks, Craig Varr, Kinloch Rannoch, NN65, 1994, G.P. Rothero, det. Smith. **90**: on basic rock, S side of Auchterhouse Hill, 1966, U.K. Duncan, E, det. Blom. **92**: on calcareous outcrop on hillside, Creag an Dail Beag, 1964, U.K. Duncan, E, det. Blom. **97**: on basalt outcrop, above Inninmore Bay, Morvern, NM74, 1976, M. Corley, det. Blom. **98**: on andesite outcrop, Druim an Fhaillich, Loch Melfort, NM81, 1974, M. Corley, det. Smith. **103**: on basalt boulders near sea, Carsaig Bay, Mull, NM52, 1976, M. Corley, det. Blom.
- Schistidium strictum*. **41**: on sandstone, below Llyn Fawr reservoir, SN90, 1961, A.J.E. Smith, det. Smith. **43**: on rock outcrop above bridge, one mile from Abbey Cymhir, SO07, 1965, A.J.E. Smith, det. Smith. **48**: on wall of old cottage near mines, Moelwyn Bach, SH63, 1965, A.J.E. Smith, det. Smith. **49**: on shaded rock in wood, Penmaen-brith, Llyn Gwynant, SH65, 1970, A.J.E. Smith, det. Smith. **66**: on sugar-limestone, Widdybank Fell, Teesdale, NY38, 1961, A.J.E. Smith, det. Smith. **87**: on wet rocks, NE coire of Ben Ledi, NN51, 1971, D.G. Long, E, det. Blom. **88**: on large block in gully,

980 m, E of SW cliffs of Ben Lawers, NN64, 1990, D.G. Long, E, det. Blom. **90**: above Loch Brandy, Glen Clova, NO37, 1966, U.K. Duncan, E, det. Blom. **92**: on limestone rocks on SW slope, 680 m, Creag an Dail Beag, NO18, 1987, D.G. Long, E, det. Blom. **96**: on dry rock face, 450 m, Allt Ruigh Chreagain, Glen Feshie, NN89, 1980, D.G. Long, E, det. Blom. **97**: on limestone crag, 950 m, Coire Cheap, Aonach Beag, Alder Forest, NN47, 1987, G.P. Rothero 87019, det. Smith. **98**: on basic rocks on hillside, 540 m, Ben Ime, W slope, NN20, 1981, D.G. Long, E, det. Blom. **105**: on damp limestone rocks in flush, 440 m, Meall a'Ghiubhais, S slope, Beinn Eighe, NG86, 1986, D.G. Long, E, det. Blom. **106**: on limestone rocks, between A837 road and Benmore Lodge, Glen Oykeall, NC30, 1960, A.J.E. Smith, det. Smith. **108**: on schist rock face, 500 m, NW crags of Ben Hope, NC45, 1977, D.G. Long, E, det. Blom. **H1**: on exposed rocks by stream, 420 m, below Eagle's Nest, Coomcallee, Macgillicuddy's Reeks, V88, 1983, D.G. Long, E, det. Blom. **H27**: on large basic blocks on hillside, 270 m, Caheraspic, Sheefry Hills, L97, 1987, D.G. Long, E, det. Smith.

*Schistidium dupretii*. **83**: on wall, Pentland Hills, 1898, W. Evans, E, det. Smith. **97**: on limestone boulder, 930 m, Coire Cheap, Aonach Beag, Alder Forest, NN47, 1987, D.G. Long, E, det. Blom.

*Schistidium robustum*. **90**: on calcareous rock, 685 m, Craig Maud, Glen Clova, 1963, U.K. Duncan, E, det. Blom. **92**: on limestone rock, 450 m, Doire Bhraghaid, Mar Lodge Estate, Braemar, NO09, 1999, G.P. Rothero, det. Smith. **97**: on limestone boulder, 930 m, Coire Cheap, Aonach Beag, Alder Forest, NN47, 1987, D.G. Long, E, det. Blom. **98**: on limestone boulder, 760 m, Beinn Sgulaire, NN04, 1971, A.J.E. Smith, det. Smith. **104**: The Storr, Trotternish, Skye, NG45, 1966, H.J.B. Birks, det. Smith. **105**: on limestone boulder on open slope, 30 m, Rassal Wood, Kishorn, NG84, 1988, D.G. Long, E, det. Smith. **107**: on basic rocks, NW of Cambusmore Lodge, Loch Fleet, NH79, 1966, U.K. Duncan, det. Smith. **108**: on boulder below limestone cliffs, Stronchrubie, Inchnadamph, Assynt, NC21, 1974, D.G. Long, E, det. Smith.

*Schistidium confertum*. **28**: on base of tombstone, 4 m, Hardwick cemetery, Kings Lynn, TF61, 1983, C.R. Stevenson, det. Smith. **43**: on dry rocks, S of Abbey Cwmhir, 1966, J. Appleyard, NMW, det. Smith. **47**: on dolerite outcrop, S side of Roundton, Old Church Stoke, SO29, 1975, A.R. Perry, NMW, det. Smith. **48**: on rock by road, near Bwlch-y-groes, 1975, J. Appleyard, NMW, det. Smith. **49**: Clogwyn

du'r Arddu, Snowdon, 1924, J.B. Duncan, E, det. Blom. **64**: on shaded limestone outcrop, NE corner of Ingleborough hill, SD77, 1970, A.R. Perry, NMW, det. Smith. **77**: on basalt rocks, S slope of Dunsyre Hill, NT04, 1983, D.G. Long, E, det. Blom. **85**: Norman's Law, 1893, W. Smith, E, det. Blom. **87**: rock on hillside, hillside behind Alloa, 1887, W. Evans, E, det. Blom. **88**: Moncreiffe Hill, 1908, R.H. Meldrum, E, det. Blom. **90**: on dry crumbling calcareous rocks in ravine, Moulzie Burn, Clova, NO27, 1957, U.K. Duncan, E, det. Smith. **107**: on rock by river, Falls of Shin, S of Lairg, NH59, 1974, D.F. Chamberlain & D.G. Long, E, det. Smith. **108**: on limestone, near Elphin, Assynt, NC21, 1960, A.J.E. Smith, det. Smith. **H38**: on basalt rocks, Bellam Hill, Carnlough, 1910, C.H. Waddell, E, det. Blom. **H39**: on limestone, Cave Hill, Belfast, 1928, W.R. Megaw & J. McAndrew, E, det. Blom.

*Schistidium frigidum* a var. *frigidum*. **42**: in rock crevices, Craig Cerrig Gleisiad NNR, SN92, 1999, N.G. Hodgetts, det. Smith. **47**: in crevice of slate rocks, Dugwm Rock, Pentre, SW of Newtown, after 1950, M. Corley, det. Blom. **49**: Clogwyn du'r Arddu, Snowdon, 1931, J.B. Duncan, E, det. Blom. **65**: Black Horse, Howgill Hills, 1886, C.H. Binstead, E, det. Blom. **72**: on rock, brick pits near Kilhead, 1961, A.J.E. Smith, det. Smith. **89**: on schist boulder of ruin, 515 m, Bothan Ruigh Sron nan Dias, Loch Loch, NN97, 1994, D.G. Long & G.P. Rothero, E, det. Smith. **92**: on limestone boulder in scree, 360 m, Craig Leek, Braemar, NO19, 1999, G.P. Rothero 99053, det. Smith. **96**: on dry rock face, 450 m, Allt Ruigh Chreagain, Glen Feshie, NN89, 1980, D.G. Long, E, det. Smith. **104**: on rock face, The Quiraing, Skye, NG46, 1968, B. O'Shea, det. Smith. **b var. havaasii**. **49**: on rock, Cwm Dyli, Snowdon, 1962, A.J.E. Smith, det. Smith. **72**: on dry sloping rock face, 335 m, Ramsey Clough, NT21, after 1950, H. Milne-Redhead, det. Smith. **88**: on rock, SW coire of Ben Lawers, NN64, 1960, A.J.E. Smith, det. Smith.

*Schistidium crassipilum*. **1**: on old concrete wall, Upton Towans, SW54, 1997, D.T. Holyoak, det. Smith. **4**: on concrete post, Challacombe Reservoir, 1971, S.G. Harrison, NMW, det. Smith. **6**: on stone pillar, Harptree Combe, ST55, 1968, J. Appleyard, NMW, det. Smith. **11**: on concrete bridge, brook W of Cadnam, 2000, R.C. Stern, det. Smith. **12**: on concrete railway sleeper, Ammunition Depot, Bramley, 1984, R.C. Stern, det. Smith. **17**: on wing wall of tunnel, Burchwood, Caterham, 1977, R.C. Stern, det. Smith. **27**: on mortar of wall, 39 m, by A148 W of Holt, TG03, 1998, C.R. Stevenson, det.

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.

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# *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*.