

TRANSACTIONS

OF THE

NATURAL HISTORY SOCIETY,

&c. &c. &c.

No. I.—*FLORA of Northumberland and Durham.* By NATHANIEL
JOHN WINCH.

PART I.

PHÆNOGAMOUS PLANTS.

MONANDRIA MONOGYNIA.

1. SALICORNIA

1. *S. herbacea*. Marsh Samphire, Jointed-glasswort.
Sm. Eng. Fl. i. 2; Hook. Fl. Scot. 1; Berwick
Flora, 2; *S. annua*, Eng. Bot. 415.
β S. procumbens. Procumbent Jointed-glasswort.
Sm. Eng. Fl. i. 2; Eng. Bot. 2475.
α On the muddy sea shores and salt marshes of Tyne,
Wear, Tees, &c., also at Holy Island. *β* in salt
marshes at Saltholme, Hartlepool, D.—Mr. J.
Backhouse.
In the north, where the true Samphire is not known,
the Glasswort is sold under that name.

2. HIPPURIS.

1. *H. vulgaris*. Mare's-tail.
Sm. Eng. Fl. i. 4; Eng. Bot. 763; With. ii. 6;
Curt. Fasc. iv. t. 1; Gr. Fl. Eds. 1.
At Prestwick Carr, N. In the Skern near the bridge
at Darlington, and at Hell-kettles, D. In stells
about Thorp, Norton, and Stockton, D.—John
Hogg, Esq.

DIANDRIA MONOGYNIA.

3. LIGUSTRUM.

1. *L. vulgare*. Privet, Print.
Sm. Eng. Fl. i. 13; Eng. Bot. 764; With. ii. 11;
Curt. Fasc. v. t. 1; Hook. Fl. Scot. 3; Ber-
wick Flora, 5.
In woods and hedges between Sunderland and Castle
Eden, and on Limestone rocks on the coast, D.—
About Greatham and Thorpwood, D.—John Hogg,
Esq. Naturalized in hedges about Berwick.—Dr.
G. Johnston.

The Privet is truly indigenous only in our Magnesian
Limestone district, though straggling plants may be
occasionally met with throughout the north of
England.

4. FRAXINUS.

1. *F. excelsior*. Common Ash.
Sm. Eng. Fl. i. 14; Eng. Bot. 1692; Hook. Fl.
Scot. 3.
β F. heterophylla. Simple-leaved Ash.
Sm. Eng. Fl. 14; Eng. Bot. 2476.
α In woods and hedges. *β* in plantations.
A variety of the ash with leaves mostly simple.

5. CIRCEA.

1. *C. lutetiana*. Common Enchanter's-nightshade.
Sm. Eng. Fl. i. 15; Eng. Bot. 1056; With. ii.
11; Hook. Fl. Scot. 4; Curt. Lond. Fasc. iii.
t. 3; Berwick Flora, 6.
In moist shady woods and hedges, but not very com-
mon, N. and D. Near Wooler and below Laug-
ley Ford, N.—Dr. G. Johnston. At Wallington,
N.—W. C. Trevelyan, Esq.
2. *C. alpina*. Mountain Enchanter's-nightshade.
Sm. Eng. Fl. i. 16; Eng. Bot. 1057; With. ii.
12; Hook. Fl. Scot. 4; *C. lutetiana β*, Gr. Fl.
Eds. 2.
Near Featherstone Castle.—W. C. Trevelyan, Esq.
In Hulne Woods near Alnwick.—Mr. J. Emble-
ton. By the Roman Wall, near Haltwhistle, N.
—Miss Dale, Sp.
Differing from *Circea lutetiana* by its heart-shaped
leaves.

6. VERONICA.

1. *V. serpyllifolia*. Smooth Speedwell, Paul's Betony.
Sm. Eng. Fl. i. 20; Eng. Bot. 1075; Curt. Fasc.
i. t. 3.

- β V. humifusa*, Dicks. Linn. Tr. ii. 288; With. ii. 13.
In meadows, pastures, gardens, &c. *β* by rivulets on the sides of Cheviot, N.
2. *V. Beccabunga*. Brooklime.
Sm. Eng. Fl. i. 20; Eng. Bot. 655; Curt. Fasc. ii. t. 6; Hook. Fl. Scot. 6.
In rivulets and ditches.
3. *V. Anagallis*. Water Speedwell, Long-leaved Brooklime.
Sm. Eng. Fl. i. 21; Eng. Bot. 781; With. ii. 18; Curt. Fasc. v. t. 2; Gr. Fl. Eds. 3; Berwick Flora, 6.
In the Ousebourn, in ditches near Tynemouth, and at Prestwick Carr, N. In ditches near West Boldon and Harton, D. In Whitburn Moor Lane.—Rev. J. Symons; and near Norton, D.—John Hogg, Esq.
4. *V. scutellata*. Narrow-leaved Marsh Speedwell.
Sm. Eng. Fl. i. 21; Eng. Bot. 782; With. ii. 19; Curt. Fasc. v. t. 2; Gr. Fl. Eds. 3; Berwick Flora, 7.
In bogs at Prestwick Carr, and on Newcastle Town Moor, N. Below Calf Hill.—Thompson's Berwick Plants. In ditches near Twizell House.—Mrs. Selby. In Purdies Bog.—Miss Forster, delin.; and by ponds on Alnwick Moor, N.—Mr. J. Davison. At West Boldon, Harton, East Morton, Beamish, and by the Whey Syke and Cauldron Snout, Teesdale, D. Hill Close Carr.—Mr. E. Robson. Near Castle Eden, D.—Rev. J. Symons.
5. *V. officinalis*. Male or Common Speedwell.
Sm. Eng. Fl. i. 22; Eng. Bot. 765; Curt. Fasc. iii. t. 1; Hook. Fl. Scot. 6; Berwick Flora, 7.
On heaths, dry banks, &c. frequent.
6. *V. Chamædrys*. Germander Speedwell, Wild Germander.
Sm. Eng. Fl. i. 23; Eng. Bot. 623; Curt. Fasc. i. t. 2; Hook. Fl. Scot. 7; Berwick Flora, 7.
In meadows, pastures, gardens, &c.
7. *V. montana*. Mountain Speedwell, Mountain Madwort.
Sm. Eng. Fl. i. 23; Eng. Bot. 766; Curt. Fasc. iv. t. 2; Gr. Fl. Eds. 4.
In woods, but not very common.
8. *V. agrestis*. Green Procumbent Speedwell, Germander Chickweed.
Sm. Eng. Fl. i. 24; Eng. Bot. t. 783 and t. 2603; Curt. Fasc. i. t. 1; *V. pulchella*, Lam. and De Cand. v. 388, according to specimens from Thomas of Bex.
On cultivated ground everywhere.
Fries, a German Botanist, as well as the authors of the Supplement to the English Botany, have separated *Veronica agrestis* into two species (see 763 and 2603) though the plant with blue flowers, and the other with the lower petals variegated with white, are found constantly growing together, and can scarcely be considered as varieties. The seeds of both vary in number. *Veronica polita* is the name assigned by them to the plant figured at 763.
9. *V. filiformis*. Long-stalked Speedwell.
Lam. and De Cand. Fl. Fr. v. 388 (excluding Sm. in Linn. Tr. ii. 195); Berwick Flora, 252, t. 1; *V. agrestis β*, Sm. Fl. Grec. t. 8; Prod. i. 9; *V. Buxbaumii*, Tenore Fl. Neap. i. p. 7, t. 10; Linn. Syst. Veg. Spreng. i. 75.
Naturalized in the dene near Twizell House, N. Indigenous at Whiterig, in Berwickshire, eight miles from Berwick.—Dr. G. Johnston.
10. *V. arvensis*. Wall Speedwell, Speedwell Chickweed.
Sm. Eng. Fl. i. 24; Eng. Bot. 734; Curt. Fasc. ii. t. 2; Hook. Fl. Scot. 7.
On dry banks, walls, &c.
11. *V. hederifolia*. Ivy-leaved Speedwell, Small Henbit.
Sm. Eng. Fl. i. 25; Eng. Bot. 784; Curt. Fasc. ii. t. 1; Hook. Fl. Scot. 7; Berwick Flora, 7.
On cultivated ground, frequent.

7. PINGUICULA.

1. *P. vulgaris*. Common Butterwort, Yorkshire Sanicle.
Sm. Eng. Fl. i. 28; Eng. Bot. 70; Hook. Lond. t. 140; Fl. Scot. 38; Berwick Flora, 8.
In bogs on moors.
There is a variety in mountainous boggy meadows, with a very large flower of a duller purple, and a remarkably long spur.—Wallis's Northumberland, vol. i. p. 222.

8. UTRICULARIA.

1. *U. vulgaris*. Common Bladderwort, Hooded Milfoil.
Sm. Eng. Fl. i. 30; Eng. Bot. 253; Gr. Fl. Eds. 5; Berwick Flora, 8; With. ii. 24.
At Prestwick Carr, N. In the pond-field above Spindleston.—Dr. G. Johnstone. In Newham Lough near Bamborough, N.—Miss Pringle, Sp. At Hell-kettles and Polam, near Darlington, D. At Hardwick, near Sedgefield, D.—J. Hogg, Esq.
2. *U. intermedia*. Intermediate Bladderwort.
Sm. Eng. Fl. i. 30; Eng. Bot. 2489; Hook. Fl. Scot. 9.
At Prestwick Carr and in Bromley Lough, N. But never observed to flower.
3. *U. minor*. Lesser Bladderwort.
Sm. Eng. Fl. i. 31; Eng. Bot. 254; Hook. Fl. Scot. 9; Gr. Fl. Eds. 5; With. ii. 24.
In bogs on Plainmeller Fell, opposite Haltwhistle, N.—Miss Dale, Sp.

9. LEMNA.

1. *L. trisulca*. Ivy-leaved Duckweed.
Sm. Eng. Fl. i. 32; Eng. Bot. 926; Hook. Lond. t. 119; Fl. Scot. 10; Berwick Flora, 9.
In clear stagnant pools near Newcastle. In ditches near Sunderland, and at Hell-kettles near Darlington, D. In stells in the Billingham Vale, D.—John Hogg, Esq. In ditches on Boldon Hills.—Rev. J. Symons.
2. *L. minor*. Lesser Duckweed.
Sm. Eng. Fl. i. 32; Eng. Bot. 1095; Hook. Lond. t. 120; Fl. Scot. 11.
In ponds and ditches, everywhere.

10. LYCOPUS.

1. *L. europæus*. Water Horehound, Gypsywort.
Sm. Eng. Fl. i. 34; Eng. Bot. 1105; Curt. Fasc. iii. t. 2; Hook. Fl. Scot. 9.
At Prestwick Carr, and in the Ousebourn, N. On the banks of Team, near Urpeth Mill, Team Bridge, and Lamesley, D.

11. SALVIA.

1. *S. verbenaca*. Wild English Clary.
Sm. Eng. Fl. i. 35; Eng. Bot. 154; Curt. Fasc. vi. t. 1; With. ii. 27; Gr. Fl. Eds. 6; Berwick Flora, 9.
By the waggon-way near Newburn, and on the banks below Tynemouth Castle. On the ruins of the Abbey of Lindisfern and Norham Castle, N., where it was noticed by Wallis, who mistook it for *Salvia pratensis*. On ballast hills below Gateshead, and on the banks of Hawthorn Dene, near Sailor's Hall, D.

12. CLADIUM.

1. *C. Mariscus*. Prickly Twig-rush.
Sm. Eng. Fl. i. 36; Hook. Fl. Scot. 11; *Schænus Mariscus*, Eng. Bot. 950; Robson's Flora, 238; With. ii. 119.
In Hell kettles near Darlington, D.
Very rare in the north of England, and but one locality for it mentioned in Hooker's Flora Scotica.

DIANDRIA DIGYNIA.

13. ANTHOXANTHUM.

1. *A. odoratum*. Sweet-scented Spring-grass.
Sm. Eng. Fl. i. 37; Eng. Bot. 647; Curt. Fasc. i. t. 4; Hook. Fl. Scot. 11.
In meadows, pastures, &c.

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14. VALERIANA.

1. *V. rubra*. Red Valerian.
Sm. Eng. Fl. i. 42; Eng. Bot. 1531; With. ii. 98; Hook. Fl. Scot. 14.
Naturalized on the walls of Hulne Abbey near Alnwick, N.
2. *V. dioica*. Small or Marsh Valerian.
Sm. Eng. Fl. i. 43; Eng. Bot. 628; Curt. Fasc. iv. t. 3; Hook. Fl. Scot. 15; Berwick Flora, 13.
In boggy meadows.
3. *V. officinalis*. Great Wild Valerian.
Sm. Eng. Fl. i. 43; Eng. Bot. 693; Curt. Fasc. vi. t. 3; Hook. Fl. Scot. 15; Berwick Flora, 13.
In marshes and on the banks of rivers.

15. FEDIA.

1. *F. olitoria*. Corn-salad, Lamb's Lettuce.
Sm. Eng. Fl. i. 45; Hook. Fl. Scot. 15; *Valeriana Locusta*, Eng. Bot. 311; Curt. Fasc. v. t. 4; Berwick Flora, 13.
In Heaton Dene, and in corn fields near Benwell, N. Below the Union Bridge, and above Waren.—Dr. G. Johnston. About Alnwick, N.—Mr. J. Davison. Near Whitburn and Boldon, D. At Norton, Wynyard, and Seaton, D.—J. Hogg, Esq.
2. *F. dentata*. Oval-fruited Corn-salad.
Sm. Eng. Fl. i. 45; Gr. Fl. Eds. 3; *Valeriana dentata*, Eng. Bot. 1370; With. ii. 101.
On Fulwell Hills and at Cocken, D. Fields near Crowhall, opposite Ridley Hall, N.—Mr. J. Thompson. Near Twizell House, N.—Mrs. Selby.

16. IRIS.

1. *I. Pseud-acorus*. Yellow Iris, Water Flower-de-luce.
Sm. Eng. Fl. i. 48; Eng. Bot. 578; Curt. Fasc. iii. t. 4; Hook. Fl. Scot. 16; Berwick Flora, 14.
In ditches, pools, and by rivers.
2. *I. fetidissima*. Stinking Iris, Gladwyn.
Sm. Eng. Fl. i. 49; Eng. Bot. 596; With. ii. 106.
At Jolby, D.—Mr. E. Robson.
Its most northern British locality, no mention being made of the plant in Hooker's Flora Scotica.
Blue-flowered Iris, *Iris germanica*, Wallis's Northumberland, i. 241. Robson's Flora, 144. In boggy places, but not common. What plant Wallis mistook for so showy a species it is difficult to imagine, but the error began with the historian of Northumberland, and was copied by Stephen Robson in his Flora.

17. SCHÆNUS.

1. *S. nigricans*. Black Bog-rush.
Sm. Eng. Fl. i. 51; Eng. Bot. 1121; Hook. Fl. Scot. 16; Berwick Flora, 14; *Cyperus nigricans*, With. i. 113.
On the heath at Prestwick Carr, N. On moors and boggy places near Berwick, frequent.—Dr. G. Johnston. In bogs near Hartlepool, to the S.E. of Coatham near Darlington, and near Murton Moor, D. Near Norton, D.—John Hogg, Esq.

18. RHYNCHOSPORA.

1. *R. alba*. White Beak-rush.
Sm. Eng. Fl. i. 52; *Schænus albus*, Eng. Bot. 985; With. ii. 122; Hook. Fl. Scot. 16.
On the heath at Prestwick Carr, N. On Beamish Moor, D.

19. SCIRPUS.

1. *S. cæspitosus*. Scaly-stalked Club-rush.
Sm. Eng. Fl. i. 55; Eng. Bot. 1029; Hook. Fl. Scot. 16.
On turfy moors, common.
2. *S. pauciflorus*. Few-flowered Club-rush.
Sm. Eng. Fl. i. 55; Eng. Bot. 1122; With. ii. 112; Hook. Fl. Scot. 17; Berwick Flora, 14; *S. Bæothryon*, Roth. Germ. ii. 54.
In bogs at Willington Quay, and at Prestwick Carr, N. Bog in a field adjoining Spring Gardens near Berwick.—Dr. G. Johnston. Below Hilton Castle and near Darlington, D.
3. *S. fluitans*. Floating Club-rush.
Sm. Eng. Fl. i. 56; Eng. Bot. 216; With. ii. 113; Hook. Fl. Scot. 18; Berwick Flora, 15; Robson's Flora, 240.
In ditches near Cleadon and Darlington, D. At Prestwick Carr, and in the pond at Forest Hall, N. In Roadley Lake.—W. C. Trevelyan, Esq. On the moor west of Belford, N.—Thompson's Berwick Plants.
4. *S. lacustris*. Bull-rush.
Sm. Eng. Fl. i. 56; Eng. Bot. 666; Hook. Fl. Scot. 18; Lond. t. 91.
β *S. glaucus*. Sm. Eng. Fl. i. 57; Eng. Bot. 2321; *S. lacustris* β, Hudson. 19; Sm. Fl. Brit. 52; Hook. Fl. Scot. 18.

- α By rivers, lakes, and ponds. β In marshes near Dyke House, in the neighbourhood of Hartlepool, D.—Mr. J. Backhouse.
5. *S. setaceus*. Least Club-rush.
Sm. Eng. Fl. i. 58; Eng. Bot. 1693; Hook. Lond. 97; Fl. Scot. 19; Berwick Flora, 15; *Isolcypis setacea*, R. Br. Lindley Syn. 283.
On boggy moors, frequent.
6. *S. caricinus*. Compressed Club-rush.
Sm. Eng. Fl. i. 58; Berwick Flora, 15; *Schannus compressus*, Eng. Bot. 791; With. ii. 121; Hook. Fl. Scot. 16.
On the banks of Tyne at Chollerford and Low Park End, and on the Links at Holy Island and Bamborough, N. Near Gallowhill.—Thompson's Berwick Plants. In bogs at Ryhope, and on the banks of Tees near Middleton, D. Near Darlington.—Robson's Flora.
7. *S. rufus*. Brown Club-rush.
Sm. Eng. Fl. i. 59; *Schannus rufus*, Eng. Bot. 1010; Hook. Fl. Scot. 17; With. i. 122.
In marshes on the Wear below Southwick, D. Near Hartlepool, D.—Rev. J. Dalton.
8. *S. corinatus*. Blunt-edged Club-rush.
Sm. Eng. Fl. i. 60; Eng. Bot. 1983; Hook. Lond. t. 79; *S. lacustris* β, Hudson, 19.
By the Tees near Stockton, D.—G. T. Fox, Esq.
9. *S. maritimus*. Salt-marsh Club-rush.
Sm. Eng. Fl. i. 61; Eng. Bot. 542; Curt. Fasc. iv. t. 4; Hook. Fl. Scot. 19; Berwick Flora, 16.
On the salt marshes of Tyne, Wear, Tees, N. and D. Sea coast near Beal, N.—Thompson's Berwick Plants.
10. *S. sylvoticus*. Wood Club-rush, or Millet Cyperus-grass.
Sm. Eng. Fl. i. 62; Eng. Bot. 919; With. ii. 116; Hook. Fl. Scot. 19; Berwick Flora, 16.
On the banks of Pont and of Till, also in Scotswood, Denton, and Walbottle Denes, N. By the Tweed between the Union Bridge and Horncliffe.—Dr. G. Johnston. On the banks of Team, and in Ravensworth and Cawsey Woods, D.

20 ELEOCHARIS.

1. *E. palustris*. Creeping Spike-rush.
Sm. Eng. Fl. i. 63; *Scirpus palustris*, Eng. Bot. 131; Hook. Fl. Scot. 18.
By rivulets, lakes, and on boggy ground.
2. *E. multicaulis*. Many-stalked Spike-rush.
Sm. Eng. Fl. i. 64; *Scirpus multicaulis*, Eng. Bot. 1187; With. ii. 111; *S. palustris* β, Hook. Fl. Scot. 18; Wahl. Fl. Lapp. 14.
On the heath at Prestwick Carr, N.

21. ERIOPHORUM.

1. *E. vaginatum*. Hare's-tail Cotton-grass.
Sm. Eng. Fl. i. 66; Eng. Bot. 873; Curt. Fasc. iv. t. 10; Hook. Fl. Scot. 20; Berwick Flora, 16.
On turf bogs, on moors, &c.
2. *E. angustifolium*. Narrow-leaved Cotton-grass.
Sm. Eng. Fl. i. 69; Eng. Bot. 564; Berwick Flora, 17; *E. polystachion*, Hudson, 21; Curt. Fasc. iv. t. 9.
β *E. polystachion*, Sm. Eng. Fl. i. 67; Eng. Bot. 563; Berwick Flora, 16; *E. nivale*, G. Don. Sp.

On turf moors and in boggy meadows. β on moors with var. α, not rare. Below Allerton Mill near Berwick.—Dr. G. Johnston.

In β the stalks of the spikes are long as represented by the figure in Eng. Bot., and the stem frequently puts out lateral branches from the sheaths of its leaves.

3. *E. pubescens*. Downy-stalked Cotton-grass.
Sm. Eng. Fl. i. 68; Berwick Flora, 17; Hook. Br. Fl. 25; *E. polystachion*, Northumberland and Durham Guide, i. 6; *E. latifolium*, Schrad. Germ. 154.
β *E. gracile*, Sm. Eng. Fl. 69; Eng. Bot. 2402; Wahl. Fl. Lapp. 19; *E. triquetrum*, Hoppe, Fasc. 1800.

α Near the Widdy Bank, on Teesdale Moors, and in Waskerly Park near Wolsingham, also on boggy ground below Hilton Castle, D. Near Haly-pike Lough, N. On the Wallington Moors.—W. C. Trevelyan, Esq. Near Berwick, N.—Dr. G. Johnston. β on the Teesdale and Wolsingham Moors, D. On Redpath Moors, N.—W. C. Trevelyan, Esq.

This species of Cotton-grass is easily recognised by its soft grass-like leaves and the downy stalks of its spikes. β is only a slender variety. I suspect that slender specimens both of *Eriophorum angustifolium*, and *Eriophorum pubescens* pass under the name of *Eriophorum gracile*. For the correctness of the quotations of the synonyms from Wahlberg's Fl. Lapp. and Hoppe Fasc., I rest upon the authority of specimens from the late Dr. Swartz and Mr. Thomas of Bex.

22. NARDUS.

1. *N. stricta*. Mat-grass.
Sm. Eng. Fl. i. 70; Eng. Bot. 290; Hook. Fl. Scot. 21; Berwick Flora, 18.
On moors and commons.

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23. PHALARIS.

1. *P. canariensis*. Manured Canary-grass.
Sm. Eng. Fl. i. 74; Eng. Bot. 1310; Berwick Flora, 18; Hook. Fl. Scot. 23.
On the ballast-hills of Tyne and Wear, N. and D.
2. *P. arundinacea*. Reed Canary-grass.
Sm. Eng. Fl. i. 74; Eng. Bot. 402, and 2160, f. 2; *Arundo colorata*, Sm. Fl. Brit. 147; Hook. Fl. Scot. 23; Berwick Flora, 18.
On the banks of rivers and margins of pools.

24. PHLEUM.

1. *P. pratense*. Common Cat's-tail-grass, Timothy-grass.
Sm. Eng. Fl. i. 75; Eng. Bot. 1076; Hook. Fl. Scot. 23.
γ *P. nodosum*, Linn. Sp. Pl. i. 88; *Alopecurus bulbosus*, Dick. Hort. Sic. Fasc. xii. 4.
α In moist meadows; γ on dry barren ground.
2. *P. arenarium*. Sea Cat's-tail-grass.
Sm. Eng. Fl. i. 78; Hook. Lond. t. 7; Hook. Fl. Scot. 24; Berwick Flora, 19; *Phalaris arenaria*, Eng. Bot. 222; With. ii. 166.

On the sea-coast of N. and D., frequent. On the links at Holy Island, N.

25. ALOPECURUS.

1. *A. protensis*. Meadow Fox-tail-grass.
Sm. Eng. Fl. i. 79; Eng. Bot. 759; Curt. Fasc. v. t. 5; Hook. Fl. Scot. 21; Berwick Flora, 19.
One of the best and most abundant of the meadow grasses.
2. *A. agrestis*. Slender Fox-tail-grass.
Sm. Eng. Fl. i. 80; Eng. Bot. 848; Hook. Fl. Scot. 22.
In cultivated fields, chiefly in the Magnesian Limestone district.
3. *A. bulbosus*. Bulbous Fox-tail-grass.
Sm. Eng. Fl. i. 81; Eng. Bot. 1249; With. ii. 175; Hook. Br. Fl. 28.
Near Seaton and Hartlepool, D.—Mr. Backhouse.
4. *A. geniculatus*. Floating Fox-tail-grass.
Sm. Eng. Fl. i. 82; Curt. Fasc. v. t. 6; Eng. Bot. 1250; Berwick Flora, 19; Hook. Fl. Scot. 22.
By ditches, ponds, &c.

26. POLYPOGON.

1. *P. monspeliensis*. Annual Beard-grass.
Sm. Eng. Fl. i. 83; *Agrostis panicea*, Eng. Bot. 1704; *Alopecurus monspeliensis*, With. ii. 177.
On Sunderland ballast hills, D.—W. Weighell's Herb.

27. MILIUM.

1. *M. effusum*. Millet-grass.
Sm. Eng. Fl. i. 87; Eng. Bot. 1106; Curt. Fasc. iv. t. 12; Hook. Fl. Scot. 24.
In shady woods, common.

28. AGROSTIS.

1. *A. Spica-venti*. Silky Bent-grass.
Sm. Eng. Fl. i. 89; Eng. Bot. 951; With. ii. 180.
On the Windmill Hills, near Gateshead; and close to Beamish mill, D. In Heaton Dene, near Rennoldson's mill; also by the road side near St. Anthon's, and North Shields, N. Introduced among corn.
This grass is not mentioned in Hooker's Flora Scotica.
2. *A. canina*. Brown Bent-grass.
Sm. Eng. Fl. i. 90; Eng. Bot. 1356; Hook. Fl. Scot. 24. β Hudson 30; *A. tenuifolia*, Curtis Br. Gr. 42.
On the heath at Prestwick Carr, N. On Gateshead Fell, and in Waskerly Park, D. At Birch Barr, near Darlington.—Mr. Backhouse.
In autumn this grass puts out long shoots, which take root at every joint. In this state it is *Agrostis fascicularis* of Curtis and Davy's Agricultural Chemistry, 2d Ed. p. 162. In common with other stoloniferous grasses it produces but few seeds.
3. *A. vulgaris*. Common Bent-grass.
Sm. Eng. Fl. i. 91; Eng. Bot. 1671. Hook. Fl. Scot. 25; Berwick Flora, 19.
 β Fl. Brit. i. 80.
 γ Fl. Brit. i. 80, *A. pumila*, Willd. Sp. Pl. i. 371; Lightfoot, 1081.
 δ Fl. Brit. i. 80.
 α In fields, frequent. β and δ in fields, &c. less common. γ in Teesdale Forest, and alpine pastures

near Knitsley and Hamsterley, D. Probably a distinct species.

4. *A. alba*. Marsh Bent-grass.
Sm. Eng. Fl. i. 93; Eng. Bot. 1189; Hook. Fl. Scot. 25; Berwick Flora, 20. β *A. stolonifera*, Linn. Sp. Pl. i. 93; Eng. Bot. 1532; Fl. Brit. 80; *Fiorin Grass* of Dr. Richardson.
 γ *A. sylvatica*, Hudson, 1st Ed. 28; Willd. Sp. Pl. i. 371.
 α In wet meadows. β by the Tyne, Wear, and Tees.
 γ in woods, but not common.
When growing in salt marshes, but especially by springs close to the sea, as at the foot of Tynemouth Castle rock, this grass attains a remarkable size, and in that state it used to be considered a distinct species, and described under the name of *Agrostis stolonifera*.

29. DIGITARIA.

1. *D. sanguinalis*. Cock's-foot Finger-grass.
Sm. Eng. Fl. i. 96. *Panicum sanguinale*, Eng. Bot. 489; Curt. Fasc. iv. t. 7; Hook. Fl. Scot. 21; With. ii. 169.
On Sunderland ballast hills, D.—W. Weighell's Herb.

30. PANICUM.

1. *P. verticillatum*. Rough Panick-grass.
Sm. Eng. Fl. i. 98; Eng. Bot. 574; Curt. Fasc. iv. t. 6; With. ii. 168.
On Sunderland ballast hills, D.—W. Weighell's Herb.
2. *P. vivide*. Green Panick-grass.
Sm. Eng. Fl. i. 99; Eng. Bot. 875; Curt. Fasc. iv. t. 5; With. ii. 168.
On the ballast hills of Tyne and Wear, N. and D.

31. AIRA.

1. *A. cristata*. Crested Hair-grass.
Sm. Eng. Fl. i. 101; Eng. Bot. 648; Hook. Fl. Scot. 29; Berwick Flora, 20; *Poa cristata*, With. ii. 205.
In Castle Eden Dene; in Limestone pastures near Sunderland; at Baydales, near Darlington; and near Egglestone, D. Near the Spanish Battery, at Tynemouth, and on the Links at Dunstanborough, Bamborough, and Holy Island, N. Near Berwick, not uncommon.—Dr. G. Johnston.
2. *A. aquatica*. Water Hair-grass.
Sm. Eng. Fl. i. 101; Eng. Bot. 1557; Berwick Flora, 20; Curt. Fasc. i. t. 5; Hook. Fl. Scot. 29.
By ditches, pools, and rivers.
3. *A. caespitosa*. Turfy Hair-grass.
Sm. Eng. Fl. i. 102; Eng. Bot. 1453; Hook. Fl. Scot. 29; Berwick Flora, 20.
In woods and on the borders of fields, abundant.
4. *A. alpina*. Smooth Alpine Hair-grass.
Sm. Eng. Fl. i. 103; Hook. Fl. Scot. 29; *A. laevigata*, Eng. Bot. 2102.
On the banks of Wear above Low Pallion, D. The viviparous variety.—Mr. Wilkinson, Sp.
5. *A. flexuosa*. Wavy Mountain Hair-grass.
Sm. Eng. Fl. i. 104; Eng. Bot. 1519; Hook. Fl. Scot. 30; Berwick Flora, 21.
On moors and hilly pastures.
6. *A. praecox*. Early Hair-grass.
Sm. Eng. Fl. i. 105; Eng. Bot. 1296; Curt. Fasc.

- iii. t. 7; Hook. Fl. Scot. 30; Berwick Flora, 21.
On moors and in barren pastures.
7. *A. caryophyllæa*. Silver Hair-grass.
Sm. Eng. Fl. i. 106; Eng. Bot. 812; Curt. Fasc. vi. t. 6; Hook. Fl. Scot. 30; Berwick Flora, 21.
In barren pastures, and on moors.

32. HOLCUS.

1. *H. lanatus*. Meadow Soft-grass.
Sm. Eng. Fl. i. 107; Eng. Bot. 1169; Curt. Fasc. iv. t. 11; Hook. Fl. Scot. 28.
In meadows and pastures, abundant.
2. *H. mollis*. Creeping Soft-grass.
Sm. Eng. Fl. i. 108; Eng. Bot. 1170; Curt. Fasc. v. t. 8; Hook. Fl. Scot. 28.
In woods and hedges.
3. *H. avenaceus*. Oat-like Soft-grass.
Sm. Eng. Fl. i. 108; Eng. Bot. 813; Hook. Fl. Scot. 28.
In hedges, fields, and woods.

33. MELICA.

1. *M. uniflora*. Wood Melic-grass.
Sm. Eng. Fl. i. 112; Eng. Bot. 1058; Curt. Fasc. v. t. 10; Hook. Fl. Scot. 31; Berwick Flora, 22.
In woods, frequent.
2. *M. nutans*. Mountain Melic-grass.
Sm. Eng. Fl. i. 112; Eng. Bot. 1059; Curt. Fasc. vi. t. 4; Hook. Fl. Scot. 30; With. ii. 196.
In Tecket-wood near Simonburn, N. On the banks of Irthing at Gilsland, N.—Mr. J. Thompson. In Castle Eden Dene, and woods near Middleton in Teesdale, D. In Cocken woods, D.—Rev. J. Symons.
3. *M. cærulea*. Purple Melic-grass.
Sm. Eng. Fl. i. 113; Eng. Bot. 750; Curt. Fasc. v. t. 11; Hook. Fl. Scot. 31; Berwick Flora, 22.
On moors and heathy places, common.

34. SESLERIA.

1. *S. cærulea*. Blue Moor-grass.
Sm. Eng. Fl. i. 114; Eng. Bot. 1613; With. ii. 198; Hook. Fl. Scot. 31.
On Limestone rocks and in dry pastures, on both sides of the Wear, above Sunderland, and on the banks of Tees, from Eglestone to the Cauldron Snout, D.

35. GLYCERIA.

1. *G. aquatica*. Reedy Sweet-grass.
Sm. Eng. Fl. i. 116; *Poa aquatica*; Eng. Bot. 1315; Curt. Fasc. v. t. 12; Hook. Fl. Scot. 32.
By rivers, pools, &c., frequent.
2. *G. fluitans*. Floating Sweet-grass.
Sm. Eng. Fl. i. 116; Br. Prod. N. Holl. 179; Berwick Flora, 22; *Poa fluitans*, Eng. Bot. 1520; Hook. Fl. Scot. 32; *Festuca fluitans*, Curt. Fasc. i. t. 7.
In pools and slow streams.
One of the few British plants which is also indigenous in Australia.
3. *G. distans*. Reflexed Sweet-grass.
Sm. Eng. Fl. i. 118; *Poa distans*, Eng. Bot. 986; Hook. Fl. Scot. 33; With. ii. 199; *Poa retroflexora* (an excellent name), Curt. Fasc. vi. t. 10.

In lanes near Darlington, and in fields near Painshier and Whitburn; also by the road side near Castle Eden, and on walls at Hartlepool, D. On the sea coast at Colliercoats, and on St. Anthon's ballast quay, N.

4. *G. maritima*. Creeping Sea Sweet-grass.
Sm. Eng. i. 118; Berwick Flora, 23; *Poa maritima*, Eng. Bot. 1140; With. ii. 207; Hook. Fl. Scot. 33.
On the shores of Tyne and Wear; near the sea. Rocks at Dunstanborough Castle and Lanoisfern, N. On the coast near Berwick, and by the Tweed above the bridge.—Dr. G. Johnston. On the Fern Islands.—P. J. Selby, Esq. At Hartlepool, D. By the Tees at Portrack, D.—J. Hogg, Esq.
5. *G. procumbens*. Procumbent Sea Sweet-grass.
Sm. Eng. Fl. i. 119; Berwick Flora, 23; *Poa procumbens*, Eng. Bot. 532; Hook. Fl. Scot. 33; Curt. Fasc. vi. t. ii.; *Poa rupestris*, With. ii. 207, t. 26.
On the sea coast near Colliercoats, N. Between Hendon Lodge and the sea near Sunderland, and on Sunderland Moor; also at Fulwell, in Byers's quarry near Whitburn, and on the quay above South Shields, D. Near Hartlepool, D.—Mr. E. Robson. On the Fern Islands, N.—P. J. Selby, Esq.
6. *G. rigida*. Hard Sweet-grass.
Sm. Eng. Fl. i. 119; Berwick Flora, 23; *Poa rigida*, Eng. Bot. 1371; Curt. Fasc. ii. t. 4; With. ii. 206; Hook. Fl. Scot. 33.
On the Magnesian Limestone in the vicinity of Sunderland and Hartlepool, and at the Lizards, near Whitburn, D. On the Heugh at Holy Island, N.

36. POA.

1. *P. compressa*. Flat-stalked Meadow-grass.
Sm. Eng. Fl. i. 121; Eng. Bot. 365; With. ii. 206; Hook. Fl. Scot. 34.
Near the White-lead Factory, W. of Newcastle, N.—Mr. Wm. Robertson. At Hartlepool, and between East Boldon and Cleadon, D.
2. *P. trivialis*. Roughish Meadow-grass.
Sm. Eng. Fl. i. 124; Eng. Bot. 1072; Curt. Fasc. ii. t. 6; Hook. Fl. Scot. 35.
In meadows and pastures. An excellent pasture-grass.
3. *P. pratensis*. Smooth-stalked Meadow-grass.
Sm. Eng. Fl. i. 125; Eng. Bot. 1073; Curt. Fasc. ii. t. 6; Hook. Fl. Scot. 35.
γ *P. subcærulea*, Eng. Bot. 1004; *P. humilis*, With. ii. 202.
α An excellent grass, common in meadows, &c. γ on Fulwell Hills, and on the coast north of Sunderland Pier, D. Near Benton, N.
4. *P. annua*. Annual Meadow-grass.
Sm. Eng. Fl. i. 127; Eng. Bot. 1141; Curt. Fasc. i. t. 6; Hook. Fl. Scot. 35.
In lowland situations everywhere.
5. *P. nemoralis*. Wood Meadow-grass.
Sm. Eng. Fl. i. 129; Eng. Bot. 1265; Hook. Fl. Scot. 35.
In woods near Darlington.—Mr. E. Robson. Cocken Woods, D.—Rev. J. Symons. Tecket Wood, N. A rare grass in these counties.

37. TRIODIA.

1. *T. decumbens*. Decumbent Heath-grass.

Sm. Eng. Fl. i. 131; Berwick Flora, 24; *Poa decumbens*, Eng. Bot. 792; Hook. Fl. Scot. 36; *Festuca decumbens*, Linn. Sp. Pl. i. 110; Hudson, 47.

On moors and barren heaths, frequent. On Gateshead Fell, D., and Newcastle Town Moor, N. Near Berwick.—Dr. G. Johnston.

38. BRIZA.

1. *B. media*. Common Quaking-grass.
Sm. Eng. Fl. i. 133; Eng. Bot. 340; Hook. Fl. Scot. 37; Berwick Flora, 25.
In pastures, &c., frequent.

39. DACTYLIS.

1. *D. glomerata*. Rough Cock's-foot-grass.
Sm. Eng. Fl. i. 134; Eng. Bot. 335; Hook. Fl. Scot. 37.
In meadows, pastures, and by hedges.
A productive, but coarse grass.

40. CYNOSURUS.

1. *C. cristatus*. Crested Dog's-tail-grass.
Sm. Eng. Fl. i. 137; Eng. Bot. 316; Hook. Fl. Scot. 37.
In meadows and pastures on a dry soil everywhere.
2. *C. echinatus*. Rough Dog's-tail-grass.
Sm. Eng. Fl. i. 137; Eng. Bot. 1333; With. ii. 212.
On the ballast hills of Tyne and Wear, N. and D., rare. On St. Anthon's ballast hills, N.—Mr. John Thornhill and Mr. R. Waugh.

41. FESTUCA.

1. *F. ovina*. Sheep's Fescue-grass.
Sm. Eng. Fl. i. 139; Eng. Bot. 585; Hook. Fl. Scot. 33.
β *F. rubra*, With. ii. 153, according to Smith.
γ *F. casia*, Eng. Bot. 1917.
δ *F. tenuifolia*, Sibth. 44.
In upland pastures, and on moors. δ at Prestwick Carr, N.
2. *F. vivipara*. Viviparous Fescue-grass.
Sm. Eng. Fl. i. 140; Eng. Bot. 1355; Berwick Flora, 25. With. ii. 216; *F. ovina* β, Gr. Fl. Eds. 25; *F. ovina* γ, Hook. Br. Fl. 45.
Near Eglestone, D. Near Crow Hall, opposite Ridley Hall, on the Tyne.—Mr. J. Thompson.
On Cheviot, N.
Most probably a variety of *Festuca ovina*.
3. *F. duriuscula*. Hard Fescue-grass.
Sm. Eng. Fl. i. 141; Eng. Bot. 470; Hook. Fl. Scot. 33.
β *F. dumetorum*, Linn. Sp. Pl. i. 109.
α In dry meadows. β in woods.
4. *F. rubra*. Creeping Fescue-grass.
Sm. Eng. Fl. i. 141; Eng. Bot. 2056.
δ *F. glauca*. Sm. Eng. Fl. 142; Northumberland and Durham Guide, vol. ii. Preface 2 and 19, No. 1102; Berwick Flora, 26.
α On the coast at Holy Island, N. δ on rocks below Tynemouth Castle, and at Hartley, N. At Whitburn and Hartlepool, D. On Spittle Sands.—Thompson's Berwick Plants.
5. *F. bromoides*. Barren Fescue-grass.
Sm. Eng. Fl. i. 142; Eng. Bot. 1411; Hook. Fl. Scot. 39; Berwick Flora, 26.

On walls and in sterile places.

6. *F. Myurus*. Wall Fescue-grass.
Sm. Eng. Fl. i. 143; Eng. Bot. 1412; Hook. Fl. Scot. 39.

Not common about Newcastle. On St. Anthon's ballast hills, N. On Hebburn and Sunderland ballast hills, D. On dykes about Berwick, frequent.—Dr. G. Johnston.

7. *F. gigantea*. Giant Fescue-grass.
Sm. Eng. Fl. i. 144; Eng. Bot. 1820; Hook. Fl. Scot. 39; *Bromus giganteus*, Curt. Fasc. v. t. 7.
In moist woods and hedges.

8. *F. loliacea*. Spiked Fescue-grass.
Sm. Fl. i. 146; Eng. Bot. 1821; Curt. Fasc. vi. t. 9; Hook. Fl. Scot. 40; Berwick Flora, 26.
In meadows near Team; near Darlington; and in Lambton Park, D. By the sides of the Tweed, near Berwick.—Dr. G. Johnston.

9. *F. protensis*. Meadow Fescue-grass.
Sm. Eng. Fl. i. 147; Eng. Bot. 1592; Curt. Fasc. vi. t. 7; Hook. Fl. Scot. 40.
A valuable grass, but not very abundant in our meadows and pastures.

10. *F. elatior*. Tall Fescue-grass.
Sm. Eng. Fl. i. 148; Eng. Bot. 1593; Curt. Fasc. vi. t. 8; Berwick Flora, 27.
In damp woods and moist meadows, N. and D. Near Berwick.—Dr. G. Johnston.

11. *F. sylvatica*. Slender Wood Fescue-grass.
Sm. Eng. Fl. i. 149; Hudson, 1st ed. 33; Hook. Fl. Scot. 40; Berwick Flora, 27; *Bromus sylvaticus*, Eng. Bot. 729; Fl. Brit. i. 136.
In woods and hedges, common.

42. BROMUS.

1. *B. secalinus*. Smooth Rye Brome-grass.
Sm. Eng. Fl. i. 151; Eng. Bot. 1171; With. ii. 224; Hook. Fl. Scot. 41.
In corn fields near Gateshead and Sunderland, D. Near Darlington, D.—Mr. Backhouse. Near Reedsmonth, N.
2. *B. velutinus*. Downy Rye Brome-grass.
Sm. Eng. Fl. i. 152; Hook. Fl. Scot. 41; *B. multiflorus*, Eng. Bot. 1884; With. ii. 225.
Near Seaton, D.—Mr. Backhouse. In fields at Norwood, near Ravensworth, D.
3. *B. mollis*. Soft Brome-grass.
Sm. Eng. Fl. i. 153; Eng. Bot. 1078; Curt. Fasc. i. t. 8; Hook. Fl. Scot. 41.
In fields, common.
4. *B. racemosus*. Smooth Brome-grass.
Sm. Eng. Fl. i. 154; Eng. Bot. 1079; Hook. Fl. Scot. 41; With. ii. 226; *B. pratensis*, Eng. Bot. 1984, at the bottom. Sm. Comp. 19. *B. arvensis*, Eng. Bot. 920.
In fields near Sunderland, Hartlepool, and Darlington, D. On St. Anthon's ballast hills, N.
5. *B. arvensis*. Taper Field Brome-grass.
Sm. Eng. Fl. i. 156; Eng. Bot. 1984; Hook. Fl. Scot. 42. *B. spiculi-tenuata*, Knapp. t. 81.
At Hartlepool, towards Seaton, D.—Mr. Backhouse.
6. *B. asper*. Hairy Wood Brome-grass.
Sm. Eng. Fl. i. 158; Eng. Bot. 1172; Hook. Fl. Scot. 42. *B. hirsutus*, Curt. Fasc. ii. t. 8.
In damp woods and hedges.
7. *B. sterilis*. Barren Brome-grass.

Sm. Eng. Fl. i. 159; Eng. Bot. 1030; Curt. Fasc. i. t. 9; Hook. Fl. Scot. 43.
In fields, hedges, and on old walls.

2. *B. diandrus*. Upright Annual Brome-grass.
Sm. Eng. Fl. i. 160; Eng. Bot. 1006; Curt. Fasc. vi. t. 5; With. ii. 223; Hook. Fl. Scot. 43.
On Sunderland ballast hills, D.—W. Weighell's Herb.

43. AVENA.

1. *A. fatua*. Wild Oat, or Haver.
Sm. Eng. Fl. i. 162; Eng. Bot. 2221; Berwick Flora, 28; With. ii. 233; Hook. Fl. Scot. 43.
In corn fields on the Magnesian Limestone, near Sunderland, Easington, and Castle Eden, D. About Darlington, D.—Mr. Backhouse. In corn fields, near Berwick.—Dr. G. Johnston.
About Newcastle, not frequent.
2. *A. strigosa*. Bristle-pointed Oat.
Sm. Eng. Fl. i. 163; Eng. Bot. 1266; With. ii. 234.
In corn fields near Sunderland, Castle Eden, Tanfield, and Burnupfield, D. Near West Pitts, D.—Mr. Backhouse.
3. *A. pubescens*. Downy Oat-grass.
Sm. Eng. Fl. i. 164; Eng. Bot. 1640; With. ii. 233; Hook. Fl. Scot. 43; Berwick Flora, 28.
On the Magnesian Limestone near Whithorn, Fulwell, Sunderland, and Castle Eden, and on the Eucrinall Limestone near New House, Weardale, D. In fields near Haddrick's Mill, N. On the sea coast and the banks of the Tweed, near Berwick.—Dr. G. Johnston.
4. *A. pratensis*. Narrow-leaved Oat-grass.
Sm. Eng. Fl. i. 164; Eng. Bot. 1204; Berwick Flora, 28; With. ii. 234; Hook. Fl. Scot. 43.
In Magnesian Limestone pastures about Cleadon, Sunderland, and Castle Eden, D. Near Spittal, Gull-hole, and by the river banks near Berwick on the Eucrinall Limestone.—Dr. G. Johnston.
5. *A. flavescens*. Yellow Oat-grass.
Sm. Eng. Fl. i. 166; Eng. Bot. 952; Curt. Fasc. iii. t. 5; Hook. Fl. Scot. 44.
In every field.

44. ARUNDO.

1. *A. Phragmites*. Common Reed.
Sm. Eng. Fl. i. 168; Eng. Bot. 401; Hook. Fl. Scot. 27.
In marshy places, by rivers, &c.
2. *A. epigejos*. Wood Reed.
Sm. Eng. Fl. i. 169; Eng. Bot. 403; With. ii. 236; *A. Calamagrostis*, Lightfoot, 106; Hook. Fl. Scot. 27. *Calamagrostis lanceolata*, Hook. Br. Fl. 32.
At the foot of the north branch of Castle Eden Dene, and by the Tyne above Hebburn Quay, D. On the banks of North Tyne, near Warden Mill, and in woods near Gilsland wells, N.
3. *A. arenaria*. Sea Reed, Marram, Sea Mat-weed.
Sm. Eng. Fl. i. 171; Eng. Bot. 520; Hook. Fl. Scot. 27; Berwick Flora, 29. *Ammophila arundinacea*, Lindley Syn. 303.
On the sea beach of Northumberland and Durham.

45. LOLIUM.

1. *L. perenne*. Perennial Darnel, Red Darnel, Ray-grass.
Sm. Eng. Fl. i. 173; Eng. Bot. 315; Hook. Fl. Scot. 45; Lond. Fasc. i. t. 18.
 β *L. tenue*, Willd. Sp. Pl. i. 462.
 δ Sm. i. 173.
 α In meadows and pastures every where. β and δ much less common.
2. *L. temulentum*. Bearded Darnel.
Sm. Eng. Fl. i. 174; Eng. Bot. 1124; Hook. Fl. Scot. 45; Berwick Flora, 30.
In corn fields near Cleadon, Sunderland, Castle Eden, and Darlington, D. Less frequent in Northumberland. On Shoreswood farm near Berwick.—Dr. G. Johnston.
3. *L. arvense*. White Darnel, Annual Beardless Darnel.
Sm. Eng. Fl. i. 174; Eng. Bot. 1125; Hook. Fl. Scot. 45; With. ii. 239; Berwick Flora, 30.
In fields between Darlington and Conniscliffe.—Mr. Backhouse. On the borders of corn fields at Whickham, D. In corn fields at Easington, near Belford, N.—Dr. G. Johnston.

46. ROTTBOLIA.

1. *R. incurvata*. Sea Hard-grass.
Sm. Eng. Fl. i. 175; Eng. Bot. 760; With. ii. 240; Hook. Fl. Scot. 46.
In Seaton pasture, D.—Mr. Backhouse. In the salt marshes of Tyne, Wear, and Tees, N. and D.

47. ELYMUS.

1. *E. arvenarius*. Upright Sea Lime-grass.
Sm. Eng. Fl. i. 177; Eng. Bot. 1672; Hook. Fl. Scot. 46; With. ii. 241.
On the coast near Castle Eden, Sunderland North Pier, and South Shields, D. At Seaton Snook.—John Hogg, Esq. South of Sunderland, D.—Mr. John Thornhill. At Cullercoats and Newbiggen, N.
2. *E. europæus*. Wood Lime-grass.
Sm. Eng. Fl. i. 178; Eng. Bot. 1317; With. ii. 242; *Hordeum sylvaticum*, Hudson, 57; Knapp. t. 107.
In Ramsshaw Wood and Scotswood Dene, N. On the east bank of Wescrow Bourn, four miles north of Wolsingham, D. Between Rushyford and Ferry Hill, D.—Mr. E. Robson.
This plant is not mentioned in Hooker's Flora Scotica. It appears more nearly allied to the genus *Hordeum* than to *Elymus*.

48. HORDEUM.

1. *H. murinum*. Wall Barley, Mouse Barley, Way Bennet.
Sm. Eng. Fl. i. 179; Curt. Fasc. v. t. 9; Eng. Bot. 1971; Hook. Fl. Scot. 46.
On old walls, and by way sides, common.
2. *H. pratense*. Meadow Barley.
Sm. Eng. Fl. i. 180; Eng. Bot. 409; Hook. Fl. Scot. 46; Berwick Flora, 31.
In meadows near Jarrow and Monkton, D. Near Ponteland, N. By no means a common grass in the north of England. In moist meadows near Berwick, rare.—Dr. G. Johnston.
5. *H. maritimum*. Sea Barley, Squirrel-tail-grass.

Sm. Eng. Fl. i. 180; Eng. Bot. 1205; With. ii. 244; Hook. Lond. i. t. 43; Fl. Scot. 46.
Near Seaton, D.—Mr. Backhouse. At Hartlepool, D.—Rev. J. Dalton. On Holy Island, opposite St. Cuthbert's Island, N.?—Thompson's Berwick Plants.

49. TRITICUM.

1. *T. junceum*. Sea Rushy Wheat-grass.
Sm. Eng. Fl. i. 182; Eng. Bot. 814; Hook. Fl. Scot. 44; Berwick Flora, 31.
On the sea shores of N. and D. abundant. Not very common on the coast near Berwick.—Dr. G. Johnston.
2. *T. repens*. Creeping Wheat-grass, Couch-grass.
Sm. Eng. Fl. i. 182; Eng. Bot. 909; Hook. Fl. Scot. 44.
In hedges and fields, every where.
3. *T. caninum*. Fibrous-rooted Wheat-grass.
Sm. Eng. Fl. i. 181; Eng. Bot. 1372; Hook. Fl. Scot. 44; Berwick Flora, 32.
In moist woods and hedges.
4. *T. loliacum*. Dwarf Sea Wheat-grass.
Sm. Eng. Fl. i. 185; Eng. Bot. 221; Hook. Fl. Scot. 45; With. ii. 246.
Near Seaton, D.—Mr. E. Robson; and Hartlepool, D.—Rev. J. Dalton. On the ballast hills of Tyne and Wear, N. and D.

TRIANDRIA TRIGYNIA.

50. MONTIA.

1. *M. fontana*. Water Chickweed, Blinks.
Sm. Eng. Fl. i. 187; Eng. Bot. 1206; Curt. Fasc. iii. 8; Hook. Fl. Scot. 47; Berwick Flora, 32.
In springs and clear rills.

TETRANDRIA MONOGYNIA.

51. DIPSACUS.

1. *D. fullonum*. Manured or Fuller's Teasel.
Sm. Eng. Fl. i. 192; Eng. Bot. 2080; Hook. Fl. Scot. 49.
On Sunderland ballast hills, D.—W. Weighell's Herb.
2. *D. sylvestris*. Wild Teasel.
Sm. Eng. Fl. i. 193; Eng. Bot. 1032; Curt. Fasc. iii. t. 9; Hook. Fl. Scot. 49; Berwick Flora, 35.
In moist hedges, &c., frequent. By road sides near Berwick, rare.—Dr. G. Johnston.
3. *D. pilosus*. Small Teasel, Shepherd's Staff.
Sm. Eng. Fl. i. 193; Eng. Bot. 877; Curt. Fasc. i. t. 10; With. ii. 255; Hook. Fl. Scot. 49.
On the ballast hills, west of Bishopwearmouth, D.—Rev. J. S. Symons.

52. KNAUTIA.

1. *K. arvensis*. Field Knautia.
Hook. Br. Fl. 60; *Scabiosa arvensis*, Sm. Eng. Fl. i. 195; Eng. Bot. 659; Curt. Fasc. iv. t. 13; Hook. Fl. Scot. 49; Berwick Flora, 35.
In corn fields and pastures, common.

53. SCABIOSA.

1. *S. succisa*. Devil's-bit Scabious.
Sm. Eng. Fl. i. 194; Eng. Bot. 878; Curt. Fasc. iii. 10; Hook. Fl. Scot. 49; Berwick Flora, 35.
In moist meadows, and by the edges of woods.
2. *S. columbaria*. Small Scabious.
Sm. Eng. Fl. i. 195; Eng. Bot. 1311; Hook. Fl. Scot. 50; Berwick Flora, 35.
In limestone fields near Fulwell, Sunderland, and Castle Eden, D. Near Durham, and in Embleton Dene, D.—John Hogg, Esq. Near Old Park, Weardale, D.—W. C. Trevelyan, Esq. On Warden hills, near Hexham, N. On the banks of Tweed, near West Ord House, on Spindleston hills and above New Farm, near Berwick.—Dr. G. Johnston.
Indicative of a calcareous soil.

54. SHERARDIA.

1. *S. arvensis*. Blue Sherardia, or Little Field-Madder.
Sm. Eng. Fl. i. 196; Eng. Bot. 891; Curt. Fasc. v. 13; Hook. Fl. Scot. 50; Berwick Flora, 36.
Among corn, and in fallow fields.

55. ASPERULA.

1. *A. odorata*. Sweet Woodruff, or Woodroof.
Sm. Eng. Fl. i. 197; Eng. Bot. 755; Curt. Fasc. iv. 15; Hook. Fl. Scot. 50.
In every wood.

56. GALIUM.

1. *G. cruciatum*. Cross-wort, Mug-weed.
Sm. Eng. Fl. i. 199; Eng. Bot. 143; *Valantia Cruciatula*, Linn. Sp. Pl. 1491; Hudson, 441; Light-foot, 663.
In hedges, and the borders of woods, frequent.
2. *G. palustre*. White Water Bed-straw.
Sm. Eng. Fl. i. 199; Eng. Bot. 1857; Hook. Lond. Fasc. i. t. 20; Gr. Fl. Eds. 36; Berwick Flora, 36.
 β Hook. Br. Fl. 62; *G. Witheringii*, Sm. Eng. Fl. i. 200; Eng. Bot. 2206; Hook. Fl. Scot. 51; With. ii. 261, t. xxviii; Berwick Flora, 37.
 α In ditches and pools. β in situations comparatively dry, by no means common. At Polam, D.—Mr. J. Backhouse. At the base of Cheviot, below Langley-ford, N.—Dr. G. Johnston.
3. *G. saxatile*. Smooth Heath Bed-straw.
Sm. Eng. Fl. i. 201; Eng. Bot. 815; Hook. Fl. Scot. 51; Berwick Flora, 37; *G. montanum*, Hudson, 67; *G. procumbens*, With. ii. 261.
On moors and fells, abundant.
4. *G. uliginosum*. Rough Marsh Bed-straw.
Sm. Eng. Fl. i. 201; Eng. Bot. 1972; Hook. Fl. Scot. 51; Berwick Flora, 37; Lond. Fasc. i. 21; With. ii. 262.
On the heath at Prestwick Carr, N. Near Berwick, not rare.—Dr. G. Johnston. On Beamish Moor, near Medomsley, and near Winch-bridge, in Teesdale, D.
5. *G. tricornis*. Corn Bed-straw, Three-flowered Goose-grass.
Sm. Eng. Fl. i. 205; Eng. Bot. 1641; With. ii. 264; *G. spurium*, Hudson, 68.

- On Fulwell Hills.—Mr. E. Robson. In corn fields, near Seaton, and the mouth of Tees, D.—Mr. Backhouse.
6. *G. verum.* Yellow Bed-straw, Cheese-rennet.
Sm. Eng. Fl. i. 208; Eng. Bot. 660; Curt. Fasc. vi. t. 13; Hook. Fl. Scot. 50; Berwick Flora, 36.
In dry hilly situations, and on the sands of the sea shore, common.
7. *G. Mollugo.* Great Hedge Bed-straw.
Sm. Eng. Fl. i. 208; Eng. Bot. 1673; With. ii. 264; Hook. Fl. Scot. 53.
In hedges and denes, frequent.
8. *G. boreale.* Cross-leaved Bed-straw.
Sm. Eng. Fl. i. 209; Eng. Bot. 105; Hook. Fl. Scot. 53; With. ii. 267.
On the banks of Tyne at Bywell, Wylam, Low Park End, and Warden-mill, and on the banks of the Irthing, near Wardrew, N. On the banks of Tees, at Winch Bridge, and near Eglestone, on the banks of the Skern, near Darlington, and in Cliffwood, D.
9. *G. Aparine.* Goose-grass, or Cleavers.
Sm. Eng. Fl. i. 210; Eng. Bot. 316; Curt. Fasc. ii. t. 9; Hook. Fl. Scot. 53.
In hedges, common.

57. PLANTAGO.

1. *P. major.* Greater Plantain.
Sm. Eng. Fl. i. 213; Eng. Bot. 1558; Hook. Fl. Scot. 53; Curt. Fasc. ii. t. 11.
In meadows and pastures, every where.
2. *P. media.* Hoary Plantain.
Sm. Eng. Fl. i. 214; Eng. Bot. 1559; Curt. Fasc. iv. t. 14; Hook. Fl. Scot. 53; Berwick Flora, 38.
In pastures on the Magnesian Limestone, common. On dry pastures near Berwick, upon the Encrinal Limestone.
3. *P. lanceolata.* Rib-wort Plantain.
Sm. Eng. Fl. i. 214; Eng. Bot. 507; Curt. Fasc. ii. t. 10; Hook. Fl. Scot. 54; Berwick Flora, 38.
In meadows and pastures, frequent. I have gathered the panicled variety mentioned by Smith, in meadows at Beamish, D.
4. *P. maritima.* Sea Plantain.
Sm. Eng. Fl. i. 215; Eng. Bot. 175; Hook. Fl. Scot. 54; Berwick Flora, 38.
On the sea coast, common. On Newcastle Town Moor, and near Bavington, N. Near the High Force of Tees, D. In the neighbourhood of Barnard Castle, D.—Mr. E. Robson.
5. *P. Coronopus.* Bucks-horn Plantain, Star of the Earth.
Sm. Eng. Fl. i. 216; Eng. Bot. 392; Hook. Fl. Scot. 54; Berwick Flora, 38.
On the sea coast, common.

58. SANGUISORBA,

1. *S. officinalis.* Great Burnet.
Sm. Eng. Fl. i. 218; Eng. Bot. 1312; Hook. Fl. Scot. 54.
In moist meadows and pastures, frequent.

59. CORNUS.

1. *C. sanguinea.* Wild Cornel-tree, Dog-wood.

Sm. Eng. Fl. i. 221; Eng. Bot. 249; Hook. Fl. Scot. 55.

On the Magnesian Limestone, in woods and hedges about Hetton-le-Hole and Castle Eden, D. Near Norton, D.—John Hogg, Esq.

2. *C. Succica.* Dwarf Cornel.

Sm. Eng. Fl. i. 221; Eng. Bot. 310; Hook. Fl. Scot. 55; With. ii. 273; Gr. Fl. Eds. 39; Berwick Flora, 39.

On the Cheviot Hills, N., first discovered by Dr. Penny, who died in 1568; again noticed by Thos. Willisell in 1670.—Ray's Letters, p. 68. Re-discovered by Dr. G. Johnston in 1828; on the east side of the mountain, two-thirds from the base, and close to the spring, where persons ascending generally rest themselves.

60. PARIETARIA.

1. *P. officinalis.* Pellitory of the Wall.

Sm. Eng. Fl. i. 222; Eng. Bot. 379; Curt. Fasc. iv. t. 63; Hook. Fl. Scot. 56; Berwick Flora, 39.

On Newcastle town walls, Durham Abbey, and on the ruins of most old castles, N. and D. Also on the Magnesian Limestone rocks near Southwick, D. On the ramparts of Berwick, and dyke below the chain bridge.—Dr. G. Johnston.

61. ALCHEMILLA.

1. *A. vulgaris.* Common Ladies' Mantle.

Sm. Eng. Fl. i. 223; Eng. Bot. 597; Berwick Fl. 39; Hook. Fl. Scot. 56; β *A. minor*, Hudson, i. 59.

α In woods, meadows, and pastures; β in mountainous situations.

2. *A. arvensis.* Field Ladies' Mantle, Parsley-piert.

Sm. Eng. Fl. i. 224; Eng. Bot. 1011; Hook. Fl. Scot. 56; Berwick Flora, 39.

In barren situations, fallow fields, &c.

TETRANDRIA TETRAGYNIA.

62. ILEX.

1. *I. Aquifolium.* Holly-tree.

Sm. Eng. Fl. i. 227; Eng. Bot. 496; Hook. Fl. Scot. 56; Berwick Flora, 39.

Remarkably luxuriant in the woods of Northumberland and Durham.

63. POTAMOGETON.

1. *P. natans.* Broad-leaved Pond-weed.

Sm. Eng. Fl. i. 228; Eng. Bot. 1322; Hook. Fl. Scot. 57; Berwick Flora, 41.

In ponds and rivulets.

2. *P. heterophyllum.* Various-leaved, Pond-weed.

Sm. Eng. Fl. i. 229; Eng. Bot. 1285; With. ii. 293; Hook. Fl. Scot. 57; Berwick Flora, 41.

In Prestwick Carr, N. In pools near Wescrow Bourn, in Waskerley Park, D.

3. *P. perfoliatum.* Perfoliate Pond-weed.

Sm. Eng. Fl. i. 229; Eng. Bot. 163; Br. Prod. 343; Hook. Fl. Scot. 58; Berwick Flora, 41.

In a lake at Dudley Shield, near Netherwitton, N. In the Skern, near Darlington.—Mr. E. Robson. In the Tweed, and in large ponds near Berwick.—Dr. G. Johnston.

This appears to be a native of Australia by Brown's Prodrömus.

4. *P. densum*. Close-leaved Pond-weed.
Sm. Eng. Fl. i. 230; Eng. Bot. 397; Hook. Fl. Scot. 58.
In ponds at Walker, N. In a spring near Manhaven, on the coast north of Whitburn, also in ponds at Hebburn, and the Skern, near Darlington, D.
5. *P. fluitans*. Long-leaved floating Pond-weed.
Sm. Eng. Fl. i. 230; Eng. Bot. 1286; Hook. Fl. Scot. 57; With. ii. 293; Gr. Fl. Eds. 40; *P. rufescens*, Hook. Br. Fl. 75.
In Whey Syke, on Teesdale Forest, D. In ditches communicating with Hell Kettles, near Darlington. Mr. E. Robson. In ponds on Alnwick, moor, N.—Mr. John Davison.
6. *P. lucens*. Shining Pond-weed.
Sm. Eng. Fl. i. 231; Eng. Bot. 376; Hook. Fl. Scot. 58; Gr. Fl. Eds. 41; Berwick Flora, 41.
In Prestwick Carr, Crag Lake, and the lake at Dudley Shield; also in the mill-race at Hexham, in the Tweed above the Union Bridge, and a little below Coldstream, N. In the Whey-syke on Teesdale Forest, the river Skern, and ponds near Darlington, D.
7. *P. crispum*. Curled Pond-weed.
Sm. Eng. Fl. i. 233; Eng. Bot. 1012; Curt. Fasc. v. t. 15; Hook. Fl. Scot. 53; Berwick Flora, 41.
In ponds and rivulets.
8. *P. compressum*. Flat-stalked Pond-weed.
Sm. Eng. Fl. i. 233; Eng. Bot. 418; Hook. Fl. Scot. 58; With. ii. 295.
In ponds at Wide-baugh, near Dilston, N. In stells near Seaton, and in a pond near Darlington, D.—Mr. Backhouse.
9. *P. pusillum*. Small Pond-weed.
Sm. Eng. Fl. i. 235; Eng. Bot. 215; With. ii. 297; Gr. Fl. Eds. 41; Berwick Flora, 41.
In the loch at Holy Island, and in Prestwick Carr, N. In ponds at Lambton, and in Mordent Carr, D. About Norton and Stockton, D.—John Hogg, Esq. In the Aln, near Alnwick, N.—Mr. J. Davison.
10. *P. pectinatum*, Fennel-leaved Pond-weed.
Sm. Eng. Fl. i. 236; Eng. Bot. 323; Gr. Fl. Eds. 41; Berwick Flora, 42; With. ii. 295; Hook. Fl. Scot. 59; *P. marinum*, Linn. Sp. Pl. 184; Hudson, 76.
At Hell Kettles, near Darlington; in the river Wear at Chester New Bridge, near Lambton Ferry, and above Sunderland, D. In salt-water ditches near the Tees.—John Hogg, Esq. In salt marshes near Hilton, D.—Rev. J. Symons. In a salt-water ditch called Meggy's Bourn, north of Seaton Sluice, N. In the Tweed and the lough at Holy Island, N.—Dr. G. Johnston.

64. RUPPIA.

1. *R. maritima*. Sea Ruppia, Tassél Pond-weed.
Sm. Eng. Fl. i. 237; Eng. Bot. 136; Hook. Lond. t. 50; Fl. Scot. 59; Gr. Fl. Eds. 42; With. ii. 297.
In Meggy's Bourn, north of Seaton Sluice, N. Near Tees Mouth, D.—Mr. E. Robson.

65. SAGINA.

1. *S. procumbens*. Procumbent Pearl-wort.
Sm. Eng. Fl. i. 238; Eng. Bot. 830; Curt. Fasc. iii. t. 12; Hook. Fl. Scot. 59; Berwick Flora, 42.

On walls and waste places, common. On the Fern Islands, N.—Dr. G. Johnston.

2. *S. maritima*. Sea Pearl-wort.
Sm. Eng. Fl. i. 239; Eng. Bot. 2195; Hook. Lond. t. 115; Gr. Fl. Eds. 42; Berwick Flora, 42.
On Hartlepool Pier, D. On Seaton Moor, D.—Mr. Janson. Between Holy Island Castle and the Heugb, N. On the Fern Islands.—Dr. G. Johnston.
3. *S. apetala*. Annual Small-flowered Pearl-wort.
Sm. Eng. Fl. i. 240; Eng. Bot. 831; Curt. Fasc. v. t. 14; Hook. Fl. Scot. 60; Berwick Flora, 43.
Near Sunderland, D. At Blackwell, D.—Mr. Backhouse. On the heights between Belford and Bamborough.—Thompson's Berwick Plants. On the walls at Fisher's Fort, Berwick.—Dr. G. Johnston.

66. MCENCHIA.

1. *M. erecta*. Upright Mcenchia.
Sm. Eng. Fl. i. 241; *M. glauca*, Hook. Fl. Scot. 60; *Sagina erecta*, Eng. Bot. 609; Curt. Fasc. ii. 12; With. ii. 299.
In gravel pits on Durham Moor.—Rev. J. Symons. On Limestone hills, near Sunderland, D.—W. Weighell.

67. RADIOLA.

1. *R. millegrana*. Thyme-leaved Flax-seed.
Sm. Eng. Fl. i. 243; Eng. Bot. 893; Berwick Flora, 43; Hook. Fl. Scot. 60; *Linum Radiola*, With. ii. 435; Linn. Sp. Pl. 402.
On Newcastle Town Moor, by the road leading to Benton, N.—Rev. Jas. Birkett, Sp. Near Berwick.—Dr. G. Johnston.

PENTANDRIA MONOGYNIA.

68. MYOSOTIS.

1. *M. palustris*. Great Water Scorpion-grass.
Sm. Eng. Fl. i. 249; Hook. Fl. Scot. 67; Berwick Flora, 51; Eng. Bot. 1973; Curt. Lond. Fasc. iii. 13.
In rivulets, mill-pools, ditches, &c.
2. *M. caspitosa*. Tufted Water Scorpion-grass.
Sm. Eng. Fl. i. 250; Berwick Flora, 51; Eng. Bot. t. 2661; Hook. Br. Fl. 83.
In dry ditches, and by ponds near Wallington, N.—W. C. Trevelyan, Esq. In the lane below Unthank Colliery, near Berwick.—Dr. G. Johnston.
3. *M. sylvatica*. Upright Wood Scorpion-grass.
Sm. Eng. Fl. i. 251; Hook. Fl. Scot. 66; Dill. Ray's Syn. 229, t. ix. f. 3 (good). Berwick Flora, 52.
In Castle Eden Dene, and near Middleton in Teesdale, D. Near Whitfield, also in Scotswood Dene and Twizell Castle woods N. In Wallington woods, N.—W. C. Trevelyan, Esq. In Horncliff Dene, N.—Dr. G. Johnston.
4. *M. arvensis*. Field Scorpion-grass.
Eng. Bot. 2629; Hook. Br. Fl. 85; Fl. Scot. 67; *M. scorpioides* & *arvensis*, Sm. Fl. Brit. i. 212.
β *M. collina*, Hook. Br. Fl. 85; *M. arvensis*, Eng. Bot. 2558; Sm. Eng. Fl. i. 252.

α On hedge banks, and in woods, frequent. β on walls and basaltic rocks, frequent.

5. *M. versicolor*. Yellow and blue Scorpion-grass. Sm. Eng. Fl. i. 253; Eng. Bot. 2558 and 480, f. i.; Hook. Fl. Scot. 67; Berwick Flora, 52. On walls, and in fields near Newcastle, but not common. On Cloudy crags near Alnwick, N.—Mr. J. Davison.

69. LITHOSPERMUM.

1. *L. officinale*. Common Gromwell, Grey Mill, Grey Miller. Sm. Eng. Fl. i. 254; Eng. Bot. 134; Hook. Fl. Scot. 68; With. ii. 308. In Castle Eden and Hawthorn Dene, and Hilton woods, on the Magnesian Limestone, D.
2. *L. arvense*. Corn Gromwell, Bastard Alkanet. Sm. Eng. Fl. i. 255; Eng. Bot. 123; Hook. Fl. Scot. 68. In corn fields, frequent. Linnaeus remarks, that the girls of the north of Europe paint their faces with the juice of the root, upon days of festivity.
3. *L. maritimum*. Sea Gromwell. Sm. Eng. Fl. i. 256; Hook. Fl. Scot. 68; Gr. Fl. Eds. 44; *Pulmonaria maritima*, Eng. Bot. 368; Curt. Fasc. vi. t. 18. At Scremerston Mill, between the Salt Pans and Berwick.—Lawson. Dill. Ray's Syn. 228. This elegant plant has not been observed on the coast of Northumberland for many years past. On the shores of Cumberland and Wales, it is by no means rare, and I have specimens from Fifeshire.

70. ANCHUSA.

1. *A. officinalis*. Common Alkanet. Sm. Eng. Fl. i. 258; Eng. Bot. 662; With. ii. 310. Naturalized on the links near Hartley Pans, N. Brought here in ballast from the Continent.
2. *A. scampervirens*. Evergreen Alkanet. Sm. Eng. Fl. i. 258; Eng. Bot. 45; With. ii. 310; Berwick Flora, 53; Hook. Lond. t. 94; Fl. Scot. 68. Naturalized near Berwick, in a hedge behind Ramsay's barn.—Dr. Thompson. Near the Grieve's House.—Dr. G. Johnston.

71. CYNOGLOSSUM.

1. *C. officinale*. Common Hound's-tongue. Sm. Eng. Fl. i. 260; Eng. Bot. 921; Curt. Fasc. iv. t. 16; Hook. Fl. Scot. 69; Berwick Flora, 53. By road sides and on rubbish, particularly near the coast, but by no means common, N. and D. On the links at Scremerston and Holy Island, N.—Dr. G. Johnston.

71. PULMONARIA.

1. *P. officinalis*. Common Lung-wort. Sm. Eng. Fl. i. 261; Eng. Bot. 113; With. ii. 312; Gr. Fl. Eds. 46. In Cliff Wood, six miles west of Darlington, D.—Mr. E. Robson. Near the gate of the Stocking, in the neighbourhood of Alnwick, N.—Miss Pringle, Sp. In a wood near Howick.—Rev. J. Dodd. Probably naturalized in all these habitats.

72. SYMPHYTUM.

1. *S. officinale*. Common Comfrey. Sm. Eng. Fl. i. 263; Eng. Bot. 817; Curt. Fasc. iv. 18; Hook. Fl. Scot. 69. β *S. patens*, Sib. Fl. Ox. 70; With. ii. 315. On the banks of Pont near Ponteland, in lanes at Benwell; and in Wall's End Dene, N. By hedges between South Shields and Jarrow, D. At Polam, near Darlington, D.—Mr. J. Backhouse. β On the banks of Pont, near Ponteland, N.
2. *S. tuberosum*. Tuberous-rooted Comfrey. Sm. Eng. Fl. i. 263; Eng. Bot. 1502; Lightfoot, 1091; Gr. Fl. Eds. 46; With. ii. 315; Hook. Brit. Fl. 81. Durham.—Mr. E. Robson, in Hooker's Flora. By the side of the Whitcadder, half-way between its mouth and the bridge within Berwick bounds.—Dr. G. Johnston.

73. BORAGO.

1. *B. officinalis*. Common Borage. Sm. Eng. Fl. i. 264; Eng. Bot. 36; With. ii. 315; Hook. Fl. Scot. 70; Berwick Flora, 53. Naturalized on the ballast hills of Tyne and Wear, N. and D. On the links between Hartlepool and the second wind-mill, D.—John Hogg, Esq. In fields at Hallidon, N.—Mr. A. Baird.

74. ASPERUGO.

1. *A. precumbens*. German Mad-wort. Sm. Eng. Fl. i. 265; Eng. Bot. 661; Hook. Fl. Scot. 70; Gr. Fl. Eds. 46; Berwick Flora, 54; With. ii. 316. In the Holy Island, N.—Dill. Ray's Syn. 228. On Bamborough Castle, and on rubbish by the road side below it, N.—Miss Nevison and Miss Forster, Sp.

75. LYCOPSIS.

1. *L. arvensis*. Small Bugloss. Sm. Eng. Fl. i. 267; Eng. Bot. 938; Curt. Fasc. v. t. 7; Hook. Fl. Scot. 70. In corn-fields and the links of the sea coast.

76. ECHIUM.

1. *E. vulgare*. Common Blue Viper's Bugloss. Sm. Eng. Fl. i. 268; Eng. Bot. 181; Hook. Fl. Scot. 70; Berwick Flora, 54. In fields, on waste ground, and on the links on the sea coast, not very frequent. I have gathered an elegant variety with white flowers, (not noticed by Smith or Withering), on the western extremity of Box Hill, Surrey.
2. *E. italicum*. White Viper's Bugloss. Sm. Fl. Brit. i. 221; Eng. Bot. 2081; With. ii. 317. On Sunderland ballast hills, D.: at one time far from rare, but imported from the Continent, I make no doubt.

77. PRIMULA.

1. *P. vulgaris*. Primrose. Sm. Eng. Fl. i. 270; Eng. Bot. 4; Hook. Fl. Scot. 71; *P. acaulis*, Curt. Fasc. vi. 16; Berwick Flora, 54.
- β *P. clatior*. (Oxlip.) Sm. Eng. Fl. i. 270; Eng. Bot. 513; With. ii. 319; Hook. Fl. Scot. 71.

γ P. veris. (Cowslip.)

Sm. Eng. Fl. i. 271; Eng. Bot. 5; Hook. Fl. Scot. 71; Berwick Flora, 55.

α In groves and thickets, and on the banks of hedges. Var. 1; flowers of a brownish or dusky red. In Felton woods, on the banks of the Coquet, N. In Swansfield plantations near Alnwick, N.—Miss Pringle. Near Harperley, D.—John Hogg, Esq. *β* on the banks of Team near Urpeth, in meadows near Chester-le-street and Lambton, and in Dalton Dene, D. At Snipperley.—Rev. J. Symons. Near Norton and Stockton, D.—John Hogg, Esq. In Hulne woods, near Alnwick, N.—Mr. J. Davison. Var. 1; flowers tinged with red. In meadows near Castle Eden Dene, D. *γ* in meadows and pastures. Var. 1; With. ii. 390; Sm. Eng. Fl. i. 271. The outside of the corolla scarlet. Near Brunton Mill, N.

However singular it may appear, yet the experiments of the Hon. and Rev. W. HERBERT, detailed in the 4th vol. of the *Horticultural Transactions*, at p. 19, clearly prove the suspicions of LINNÆUS, that the Primrose, Ox-lip, Cowslip, and Polyanthus, were only varieties of the same species, to be well grounded. On this subject, so interesting in a Botanic point of view, Professor HENSLOW's paper, published in *Loudon's Magazine* for September, 1830, throws additional light.

2. *P. forinosa.* Bird's-eye Primrose.

Sm. Eng. Fl. i. 272; Eng. Bot. 6; Hook. Lond. t. 133; With. ii. 320; Gr. Fl. Eds. 48; Curt. Fasc. vi. t. 9.

In bogs and wet pastures near Easington, Painshier, Hilton Castle, Castle Eden, East Murton, and Dalton-le-Dale; also near Eglestone, and in Teesdale Forest, D. Near Ovingham, N. Near Durham, Norton, to the west of Stainton, and in Close wood, near Embleton, D.—John Hogg, Esq. This pretty *Primula* follows the Wear and Tees from the seacoast to the Sub-Alpine mountains, in which these rivers have their sources.

78. MENYANTHES.

1. *M. trifoliato.* Buckbean Marsh-Trefoil.

Sm. Eng. Fl. i. 274; Eng. Bot. 495; Curt. Fasc. iv. t. 17; Woodv. t. 2; Hook. Fl. Scot. 71; Berwick Flora, 55.

In marshes and bogs, not rare.

79. VILLARSIA.

1. *V. nymphaeoides.* Fringed Water-lilly.

Vent. Lindley Br. Syn. 180; Hook. Br. Fl. 92; *Menyanthes nymphaeoides*, Sm. Eng. Fl. i. 275; Eng. Bot. 217.

This elegant plant, a native of the Thames, near Hampton Court, Walton, and Windsor, has become naturalized in the ponds at Wallington, N.

80. HOTTONIA.

1. *H. palustris.* Feather-foil Water Violet.

Sm. Eng. Fl. i. 276; Eng. Bot. 364; Curt. Fasc. i. t. 11; With. ii. 322.

At Mainsforth Carr near Rushyford, in a pool below East Boldon, and near Cocken, D. In ditches near Darlington.—Rev. J. Harriman. Also near Norton, D.—John Hogg, Esq.

This plant does not appear in Hooker's *Flora Scotica*, nor has it been met with north of the Tyne.

81. LYSIMACHIA.

1. *L. vulgaris.* Yellow Loosestrife.

Sm. Eng. Fl. i. 277; Eng. Bot. 761; Curt. Fasc. v. t. 19; Hook. Fl. Scot. 72; Robson's Fl. 73; Berwick Flora, 56; With. ii. 323.

By the side of a pond at the south-west end of Widehaugh near Dilston, by the road to Hexham, and on the banks of North Tyne at Low Park-end near Nunwick, N.—Wallis i. 157. I have not been able to find it in these localities. At Sow-mire near Swinton, Berwick.—Dr. G. Johnston. By the Drop-well on the banks of Skerne near Darlington, where it was noticed by S. Robson.—Rev. John Harriman, from whom I have specimens.

2. *L. punctata.* Four-leaved Loosestrife.

Hook. Brit. Fl. 88; Jacq. Aust. iv. 366. "I have gathered this plant twenty-five years ago on the banks of the Skerne, in abundance; the plant grew both above and below the Railway-bridge. A botanist from Richmond of the name of WARM gathered it three or four years since in the same situation."—Mr. Backhouse, MSS.

3. *L. nemorum.* Wood Loosestrife, Yellow Pimpernel.

Sm. Eng. Fl. i. 278; Eng. Bot. 527; Curt. Fasc. v. t. 18; Hook. Fl. Scot. 72; Berwick Flora, 56.

In moist woods, and on bogs.

4. *L. Nummularia.* Creeping Loosestrife, Moneywort, Herb Twopence.

Sm. Eng. Fl. i. 279; Eng. Bot. 528; Curt. Fasc. iii. t. 14; Hook. Fl. Scot. 72; With. ii. 325.

On Hebburn ballast hills, D. St. Anthon's ballast hills, N.

82. ANAGALLIS.

1. *A. arvensis.* Scarlet Pimpernel.

Sm. Eng. Fl. i. 280; Eng. Bot. 529; Curt. Fasc. i. t. 12; Hook. Fl. Scot. 72; Berwick Flora, 56.

β A. caerulea. (Blue Pimpernel.)

Sm. Eng. Fl. i. 280; Eng. Bot. 1823; Hook. Fl. Scot. 72; *A. arvensis*, *γ* Sm. Fl. Brit. 230; With. ii. 325, var. 2d.

α In fallow fields, but not very frequent in the north. *β* on Hebburn and Sunderland ballast hills, D. Near Mitford on the Wansbeck, N.—Capt. Mitford. In the corn fields about Alnwick, sparingly.—Wallis, i. 207. Two miles west of Norton among tares and beans, D.—J. Hogg, Esq.

In a communication to *Loudon's Magazine*, for November, 1830, p. 537, Professor HENSLOW observes, "that he received last year from the Rev. E. Wilson some specimens and seeds of *Anagallis caerulea*, gathered in Yorkshire; from these seeds he raised a dozen plants, nine of which had blue flowers, and three red." This experiment proves *Anagallis arvensis* and *Anagallis caerulea*, to be merely varieties of the same species.

2. *A. tenello.* Bog Pimpernel.

Sm. Eng. Fl. i. 281; Eng. Bot. 530; Curt. Fasc. iii. t. 15; Hook. Fl. Scot. 73; With. ii. 326; Berwick Flora, 57; Gr. Fl. Eds. 49.

In bogs near Urpeth, and at Kyo Hengh, also in Ryhope Dene, D. On wet ground by the Tees near Eglestone.—Rev. J. Harriman. Between Darlington and Haughton, and by the Link House near Hartlepool, D.—Mr. Backhouse. On the north side of the streamlet by Acomb smelting mill near

Hexham.—Wallis, i. 206. Point near Bamboorough.—Thompson's Berwick Plants. Near Crow Hall opposite Ridley Hall.—Mr. J. Thompson. On Alnwick Moor, N.—Miss Pringle.

33. CONVULVULUS.

1. *C. orvensis*. Small Bind-weed.
Sm. Eng. Fl. i. 284; Eng. Bot. 312; Curt. Fasc. ii. 13; Hook. Fl. Scot. 73; Berwick Flora, 57.
In fields near the sea coast of Northumberland and Durham. Not very common in the north of England.
2. *C. sepium*. Great Bindweed.
Sm. Eng. Fl. i. 284; Eng. Bot. 313; Curt. Fasc. i. t. 13; Hook. Fl. Scot. 74; Berwick Flora, 57; *Calystegia sepium*, R. Br. Lindley Syn. 167.
In moist woods and hedges, but by no means common. In hedges behind St. Anthony's ballast hills, N.
3. *C. Soldanella*. Sea Bind-weed.
Sm. Eng. Fl. i. 285; Eng. Bot. 314; Hook. Fl. Scot. 74; With. ii. 323; *Calystegia Soldanella*, R. Br. Lindley Syn. 167.
On the links near South Shields below the Bent House, D. July 11, 1828. First noticed there by Mr. A. Hancock.

34. CAMPANULA.

1. *C. rotundifolia*. Round-leaved Bell-flower.
Sm. Eng. Fl. i. 287; Eng. Bot. 366; Curt. Fasc. iv. 21; Hook. Fl. Scot. 74.
α On the borders of fields, heaths, &c. frequent. β *fl. alba*, in Heaton Dene, N.
2. *C. Ropunculus*. Rampion Bell-flower.
Sm. Eng. Fl. i. 289; Eng. Bot. 233; Hook. Lond. t. 80; With. ii. 330.
In a grassy field of the Glebe at Norton, D.—John Hogg, Esq.
Probably the outcast of some garden, the root having long been used as a table vegetable.
3. *C. latifolia*. Giant Bell-flower.
Sm. Eng. Fl. i. 290; Eng. Bot. 302; Hook. Fl. Scot. 75; With. ii. 331.
In moist woods and hedges, not rare.
4. *C. glomerata*. Clustered Bell-flower.
Sm. Eng. Fl. i. 292; Eng. Bot. 90; Hook. Fl. Scot. 75; Gr. Fl. Eds. 51.
On the banks of Tyne near Wylam, near St. Oswald's and Chollerford, N. In a field by the lime-kilns at Wall near Chollerford-bridge, in woody banks near Netherwarden, near Hexham, and by the banks of Tyne, in the meadow near Bywell, also Crag-close near Barwesford, N.—Wallis, i. 162.
In Hulne woods near Alnwick.—Miss Pringle.
All these localities are in the Enecrinal Limestone district. In woods at Coken, near Chester-le-Street, D. On Barbara Riggs, near Barnardcastle, and near Gainforth, D.—Rev. J. Harriman.
In meadows near Croft, D.—J. Hogg, Esq.
5. *C. hybridus*. Corn Bell-flower.
Sm. Eng. Fl. i. 293; Eng. Bot. 375; With. ii. 334.
In corn fields near Norton, D.—J. Hogg, Esq. In corn fields on Tunstal-hills, and on Sunderland ballast-hills, D. Not met with in Scotland.
Tunstal-hills and Norton, are in the Magnesian Limestone district.

35. JASIONE.

1. *J. montana*. Sheep's-bit, Sheep's Scabious.

Sm. Eng. Fl. i. 296; Eng. Bot. 382; Curt. Fasc. iv. t. 58; Hook. Fl. Scot. 76.

On the banks of hedges near Gilsland, Hexham and Haltwhistle, N. Near Hamsterley and Witton-le-Wear, D.—Mr. E. Robson.

36. VIOLA.

1. *V. hirta*. Hairy Violet.
Sm. Eng. Fl. i. 301; Eng. Bot. 394; Curt. Fasc. i. 64; Hook. Fl. Scot. 76; Gr. Fl. Eds. 51; With. ii. 353; Berwick Flora, 58.
On banks near Bywell, Ovingham, and Wylam, N. Near Jarrow, Whitburn, and in Castle Eden dene, D. New Mill banks, near Berwick.—Dr. Thompson. On Ratcheugh Crags, near Alnwick, N.—Mr. J. Davison.
2. *V. odorata*. Sweet Violet.
Sm. Eng. Fl. i. 301; Eng. Bot. 619; Curt. Fasc. i. t. 63; Hook. Fl. Scot. 77; Gr. Fl. Eds. 51; With. ii. 354.
Near Prudhoe Castle, Ovingham, and Hexham, N. Near Finchall Abbey, Chester-le-Street, Hetton-le-Hole, and Dalton-le-Daie, D. Near Hilton Castle, and at Bede's Well, near Jarrow.—Mr. J. Thornhill, jun.
3. *V. palustris*. Marsh Violet.
Sm. Eng. Fl. i. 302; Eng. Bot. 444; Curt. Fasc. iii. t. 58; Hook. Fl. Scot. 77; With. ii. 355; Gr. Fl. Eds. 52; Berwick Flora, 58.
In boggy ground, in East Common wood, near Hexham, and at Prestwick Carr, N. On Teesdale Forest, in Ravensworth woods, near Uppeth, Bea-mish, and Witton-le-Wear, D. Near Murton Crags, and below Shoreswood Hall.—Dr. Thompson.
4. *V. canina*. Dog's Violet.
Sm. Eng. Fl. i. 303; Eng. Bot. 620; Curt. Fasc. ii. 61; Hook. Fl. Scot. 77.
In groves, by hedges, and on heathy ground, common.
5. *V. tricolor*. Pansy Violet Heart's-ease.
Sm. Eng. Fl. i. 305; Eng. Bot. 1287; Curt. Fasc. i. t. 65; Hook. Fl. Scot. 77; Berwick Flora 58; β *V. arvensis*, Sibthorp 84; Symon's Syn. 61.
α In corn fields, and by road sides; β more frequent than α in similar situations.
6. *V. lutea*. Yellow Mountain Pansy.
Sm. Eng. Fl. i. 306; Eng. Bot. 721; Hook. Fl. Scot. 77; With. ii. 357; Gr. Fl. Eds. 52; Berwick Flora, 59; *V. grandiflora*, Hudson, 380; Lightfoot, 508.
On mountainous pastures in Weardale, and in Teesdale Forest, D. At Housesteads, near the Roman Wall, and on the banks of Beldon Bourn, near Blanchland, N.

37. VERBASCUM.

1. *V. Thapsus*. Great Mullein, High Taper.
Sm. Eng. Fl. i. 307; Eng. Bot. 549; Woodv. t. 125; Hook. Fl. Scot. 78; Grev. Fl. Eds. 53; Berwick Flora, 59.
On the Ballast-hills of Tyne and Wear, N. and D. Near Jesmond, and in the bed of Till, near Wooler, N. Near Pierce Bridge.—Mr. Backhouse. By road sides near East Harrington.—Rev. J. Symons. Near Norton.—J. Hogg, Esq. At Castle Eden, D.
Frequently the out-cast of cottage gardens.

2. *V. nigrum*. Dark, or Black Mullein.
Sm. Eng. Fl. i. 311; Eng. Bot. 59; Curt. Fasc.
ii. t. 103; Hook. Fl. Scot. 78; Gr. Fl. Eds. 53;
With. ii. 342; Berwick Flora, 59.
On the ballast-hills of Tyne and Wear, N. and D.—
Naturalized on waste ground at Ord, near Berwick.
—Dr. G. Johnston.

88. DATURA.

1. *D. Stramonium*. Thorn-apple.
Sm. Eng. Fl. i. 314; Eng. Bot. 1288; Curt. Fasc.
vi. t. 17; Woodv. t. 124; With. ii. 344.
On the Ballast-hills of Tyne and Wear, N. and D.
Near Darlington.—Mr. Backhouse. Durham and
Norton, D.—J. Hogg, Esq.
A naturalized exotic, and not mentioned in the Flora
Scotica by Hooker.

89. HYOSCYAMUS.

1. *H. niger*. Common Henbane.
Sm. Eng. Fl. i. 315; Eng. Bot. 591; Woodv. t.
52; Hook. Fl. Scot. 78; Berwick Flora, 60;
Gr. Fl. Eds. 53.
On sandy waste ground, particularly near the sea
coast.
Hyoscyamus albus, is admitted by Withering into his
Arrangement, in consequence of specimens having
been gathered on the Sunderland Ballast-hills, by
Mr. E. Robson; upon similar grounds *Hyoscyamus*
aureus, and fifty other exotics, might have been inser-
ted in this catalogue.

90. ATROPA.

1. *A. Belladonna*. Dwale, or Deadly Nightshade.
Sm. Eng. Fl. i. 316; Eng. Bot. 592; Woodv. t. 1;
Curt. Fasc. v. t. 16; Hook. Fl. Scot. 78; Gr.
Fl. Eds. 53; With. ii. 346; Berwick Flora, 60.
By the Waggon-way side, between Walbottle and
Newburn, and on the banks of Wooler Water, N.
On the banks of Wear, near Durham Abbey, below
Mr. Fox's garden, where it was observed by Mr. S.
Robson. See Fl. p. 75. Near Pierce-bridge.—Mr.
E. Robson; and near the Old Mill, in the parish
of Conniscliffe, D.—Rev. J. Harriman.

91. SOLANUM.

1. *S. Dulcamara*. Woody Nightshade, Bitter-sweet.
Sm. Eng. Fl. i. 317; Eng. Bot. 365; Curt. Fasc.
i. t. 14; Woodv. t. 33; Hook. Fl. Scot. 79;
Berwick Flora, 60; Gr. Fl. Eds. 54.
In hedges and woods, but not very common.
2. *S. nigrum*. Common or Garden Nightshade.
Sm. Eng. Fl. i. 318; Eng. Bot. 566; Curt. Fasc.
ii. t. 14; Woodv. t. 226; Hook. Fl. Scot. 79.
On the Ballast-hills of Tyne and Wear, N. and D.
Near Chester-le-Street, D. Between Shincliffe and
Durham.—J. Hogg, Esq. Rare in the north of
England.

92. ERYTHRÆA.

1. *E. Centaurium*. Common Centaury.
Sm. Eng. Fl. i. 320; Hook. Fl. Scot. 79; Gr. Fl.
Eds. 54; Berwick Flora, 61; *Chironia Centau-
rium*, Curt. Fasc. iv. 22; Woodv. t. 157.
β *E. latifolia*, Sm. Eng. Fl. i. 321; Hook. Br. Fl.
93.

α On barren pastures, heaths, and the sea coast.
β on the Links between Marsdon Hall and South
Shields, D. Near Cullercoats, N.

2. *E. littoralis*. Dwarf-tufted Centaury.

Sm. Eng. Fl. i. 320; Hook. Fl. Scot. 80; Berwick
Flora, 61; Gr. Fl. Eds. 54; *Chironia littoralis*,
Turner and Dillwyn's Guide, 469; Northum-
berland and Durham Guide, vol. i. No. 223, and
v. ii. preface, iii; With. ii. 350. *Centaurea ma-
ritima florum laciniis obtusis*.—Linnaei Spolia Bo-
tanica, t. 3. f. 3. MSS., 1729.

On the Links south of Bamborough Castle, and on
Holy Island, N.—July the 19th and 20th, 1804.

On the Links at Holy Island I have noticed thousands
of the Dwarf Centaury, without finding one plant
approximating in the shape of its leaves to the Com-
mon Centaury, even whose variety β, the Broad leaved
Centaury of Smith, still retains its elliptical leaves
on our sea beach; those of *Erythræa littoralis*, on
the other hand, are with us invariably linear, but ob-
tuse. Still cultivation alone can determine whether
it should rank as a species. The rough sketch above
quoted, drawn by the pen of Linnaeus, is very cha-
racteristic.

93. SAMOLUS.

1. *S. Valerandi*. Brookweed, Water Pimpernel.

Sm. Eng. Fl. i. 323; Eng. Bot. 703; Curt. Fasc.
iv. t. 20; Hook. Fl. Scot. 80; Gr. Fl. Eds. 55;
Br. Prod. 428; Pursh. 153; Willd. Sp. Pl. i.
927; With. ii. 337; Berwick Flora, 62.

In hogs at Willington Quay, and Prestwick Carr, on
the coast at Holy Island, near the Snook, and on
the beach at Bamborough, N. In the marsh below
Southwick, and on the coast between Sunderland
and Ryhope, also near Hartlepool, and Castle Eden,
D. About Darlington.—S. Robson. See Flora,
p. 72. Near Norton, and on the sea banks near
Blackwell Halls, D.—J. Hogg, Esq.

A very widely disseminated plant, appearing to be in-
digenous in the four quarters of the globe, and found
even in Australia.

94. LONICERA.

1. *L. Periclymenum*. Common Honeysuckle, or
Woodbine.

Sm. Eng. Fl. i. 326; Eng. Bot. 800; Curt. Fasc.
i. t. 15; Hook. Fl. Scot. 80; Berwick Flora,
62.

In woods and hedges, common.

2. *L. Xylosteum*. Upright Honeysuckle.

Sm. Eng. Fl. i. 326; Eng. Bot. 916; With. ii.
338; Hook. Br. Fl. 103.

Naturalized in hedges by the turnpike road, south of
Alnwick, also in the wood called the Stocking, N.
On the rocks under the Roman wall, on the west
side of Shewing Shields, and by Crag Lake.—Wal-
lis, North. i. 149. Stunted plants of the common
Woodbine, grow in these two localities.

95. RHAMNUS.

1. *R. catharticus*. Buckthorn.

Sm. Eng. Fl. i. 327; Eng. Bot. 1629; Hook. Fl.
Scot. 80; Woodv. t. 114; With. ii. 351.

In Rybope dene, D.—W. Weighell's Herb.

96. EUONYMUS.

1. *E. europæus*. Spindle-tree, Prickwood.

Sm. Eng. Fl. i. 329; Eng. Bot. 362; Hook. Fl. Scot. 81; Grev. Fl. Eds. 55; With. ii. 353; Berwick Flora, 63.

In Heaton and Scotswood denes, and in Teckett wood, N. In Ashwood, near Belford.—Thompson's Berwick Plants. At Capon Cleugh, near Allerwash, also in the Brush wood, on the banks of south Tyne, N.—Wallis, i. 141. In the Darlington-lane, one mile from Norton, D.—J. Hogg, Esq. In Ryhope and Castle Eden denes, D. In Shipley wood, near Eglestone.—Rev. J. Harriman.

97. RIBES.

1. *R. rubrum*. Common Currants.
Sm. Eng. Fl. i. 330; Eng. Bot. 1289; Woodv. t. 74; Hook. Fl. Scot. 81; With. ii. 359.

In woods, and on the banks of rivulets, N. and D. In Teesdale, near Eglestone, D.—Rev. J. Harriman. In Hulne woods, near Alnwick, N.—Mr. J. Davison.

2. *R. petraeum*. Rock Currants.
Sm. Eng. Fl. i. 331; Eng. Bot. 705; Hook. Fl. Scot. 81.

In Ravensworth woods, and hedges near Harperly, also near Conniscliffe, and Eglestone, and in Teesdale Forest, D. Near Pierce bridge.—Mr. Backhouse. In Scotswood dene, N. In Heaton dene, N.—Mr. J. Thornhill.

3. *R. spicatum*. Acid Mountain Currants.
Sm. Eng. Fl. i. 331; Eng. Bot. 1290; Linn. Tr. iii. 240, t. 21; With. ii. 360.

Between Pierce bridge and Gainford, D.—Mr. E. Robson. At present extinct, E. R. MSS.

From its mode of flowering the spikes being upright; this Currant appears very different from the preceding species, but whether specifically distinct, I will not pretend to say. It is still in cultivation in curious gardens at Darlington, and with Mr. J. Backhouse, at York.

4. *R. alpinum*. Tasteless Mountain Currants.
Sm. Eng. Fl. i. 332; Eng. Bot. 704; Hook. Fl. Scot. 81; With. ii. 359.

In Felton wood, N. In hedges near Murton House, near Chester-le-Street, D. In woods near Darlington.—Mr. E. Robson. And in Cliff wood, D.—Mr. Backhouse. On the west bank of the wood called the Stocking, near Alnwick.—Mr. F. Manisty. Also in Hulne woods, N.—Mr. J. Davison.

5. *R. nigrum*. Black Currants.
Sm. Eng. Fl. i. 332; Eng. Bot. 1291; Woodv. t. 75; Hook. Fl. Scot. 82; With. ii. 360.

On the banks of Pont, near Prestwick Carr, N. In Ravensworth, and most other woods near Newcastle. On the banks of Skerne, near Darlington D.—Mr. E. Robson.

6. *R. Grossularia*. Rough Gooseberry.
Sm. Eng. Fl. i. 333; Eng. Bot. 1292; Berwick Flora, 63; Hook. Fl. Scot. 82; β With. ii. 361, 2d variety; *R. Uva-crispa*, Eng. Bot. 2057.
 α In woods and hedges. β near Lamesley, D.

98. HEDERA.

1. *H. Helix*. Common Ivy.
Sm. Eng. Fl. i. 334; Eng. Bot. 1267; Curt. Fasc. i. t. 16; Hook. Fl. Scot. 82.
On old buildings, and in woods and hedges.

99. GLAUX.

1. *G. maritima*. Black Salt-wort.
Sm. Eng. Fl. i. 336; Eng. Bot. 13; Hook. Fl. Scot. 82; Gr. Fl. Eds. 56; With. ii. 363; Berwick Flora, 64.
In salt marshes on Tyne, Tweed, Blyth, Wear, Tees, &c.

100. VINCA.

1. *V. minor*. Lesser Periwinkle.
Sm. Eng. Fl. i. 338; Eng. Bot. 917; Curt. Fasc. iii. t. 16; Hook. Fl. Scot. 82; Gr. Fl. Eds. 57; With. ii. 365.
At Blackwell.—Mr. Backhouse. In Hylton-lane, D.—Rev. J. Symons. Naturalized in Wallington woods, and in Swansfield plantations, near Alnwick, N.

PENTANDRIA DIGYNIA.

100. CHENOPODIUM.

1. *C. Bonus-Henricus*. Perennial Goosefoot, Mercury Goosefoot.
Sm. Eng. Fl. ii. 9; Eng. Bot. t. 1033; Curt. Fasc. iii. t. 17; Hook. Fl. Scot. 83; Berwick Flora, 65.

On rubbish, and by way sides.

2. *C. urbicum*. Upright Goosefoot.
Sm. Eng. Fl. ii. 10; Eng. Bot. 717; Hook. Fl. Scot. 83; Gr. Fl. Eds. 58; With. ii. 367.

On the ballast hills of Tyne and Wear, N. and D.—Near Darlington.—Mr. Backhouse. Near Field Houses, D.—Rev. J. Symons.

3. *C. rubrum*. Red Goosefoot.
Sm. Eng. Fl. ii. 11; Eng. Bot. 1721; Berwick Flora, 65; Curt. Fasc. vi. t. 21; Gr. Fl. Eds. 58; Hook. Fl. Scot. 84.

By road sides near Chirton, N. On the ballast-hills of Tyne and Wear, N. and D. Near Berwick, frequent, and on the Fern Islands.—Dr. G. Johnston. Near Darlington, D.—Mr. Backhouse.

4. *C. botryodes*. Many spiked Goosefoot.
Sm. Eng. Fl. ii. 11; Eng. Bot. 2247; Hook. Br. Fl. 138.

On Sunderland ballast-hills, D.—W. Weighell's Herb.

5. *C. murale*. Nettle-leaved Goosefoot.
Sm. Eng. Fl. ii. 11; Eng. Bot. 1722; Curt. Fasc. vi. t. 20; Hook. Fl. Scot. 84; With. ii. 370; Berwick Flora, 65.

On rubbish, and by road sides near Gateshead, Chester-le-Street, and Hartlepool, D. Near the Castle on Holy Island, N.

6. *C. hybridum*. Maple-leaved Goosefoot.
Sm. Eng. Fl. ii. 12; Eng. Bot. 1919; Curt. Fasc. iv. t. 23; Hook. Fl. Scot. 84; Gr. Fl. Eds. 58; With. ii. 369.

On St. Anthon's ballast-hills, N. On the Sunderland ballast-hills, D.

7. *C. album*. White Goosefoot.
Sm. Eng. Fl. ii. 13; Eng. Bot. 1723; Curt. Fasc. ii. t. 15; Hook. Fl. Scot. 84; γ *C. viride*, Linn. Sp. Pl. i. 319.

On waste and cultivated ground, common.

8. *C. ficifolium*. Fig-leaved Goosefoot.
Sm. Eng. Fl. ii. 13; Eng. Bot. 1724; *C. viride*,
Curt. Fasc. ii. t. 16; *C. scrobinum*, Hudson, 106.
On St. Anthon's, and Sunderland ballast-hills, also
by road sides, and on dunghills, N. and D.
9. *C. glaucum*. Oak-leaved Goosefoot.
Sm. Eng. Fl. ii. 14; Eng. Bot. 1454; With. ii.
370.
By road sides near Ponteland, at Chirton, and on
St. Anthon's ballast-hills, N. Near Darlington, D.
—Mr. E. Robson. On Sunderland ballast-hills, D.
—W. Weighell's Herb.
10. *C. olidum*. Stinking Goosefoot.
Sm. Eng. Fl. ii. 14; Eng. Bot. 1034; Curt. Fasc.
v. t. 20; Hook. Fl. Scot. 83; With. ii. 370; *C.*
Vulvaria, Hudson, 107; Woodv. t. 145.
On rubbish at Friar's Goose, near Gateshead, and by
road sides near Westoe, D.
11. *C. acutifolium*. Sharp Entire-leaved Goosefoot.
Sm. Eng. Fl. ii. 15; Eng. Bot. 1481; *C. polysper-*
mum, Curt. Fasc. ii. t. 17; Northumberland
and Durham Guide, i. 25; With. ii. 371.
On Sunderland ballast-hills, D.—W. Weighell's
Herb.
12. *C. maritimum*. Sea Goosefoot, Sea Blite.
Sm. Eng. Fl. ii. 16; Eng. Bot. 633; Gr. Fl. Eds.
59; With. ii. 371; Berwick Flora, 65.
On the coast, and in the salt marshes of Tyne, Wear,
Tees, &c. N. and D. On Holy Island, and the
coast near Beal.—Dr. G. Johnston.
13. *C. fruticosum*. Shrubby Sea-side Goosefoot.
Hook. Br. Fl. 136; *Salsola fruticosa*, Sm. Eng. Fl.
ii. 18; Eng. Bot. 634; With. ii. 377.
On Willington ballast-hills, N.

101. BETA.

1. *B. maritima*. Sea Beet.
Sm. Eng. Fl. ii. 17; Eng. Bot. 285; Hook. Fl.
Scot. 84; Gr. Fl. Eds. 59.
On the Sea coast near Hartley Pans and Newbiggin,
N. On the shore near Ryhope and Sunderland, D.

102. SALSOLA.

1. *S. Kali*. Prickly Salt-wort.
Sm. Eng. Fl. ii. 18; Eng. Bot. 634; Woodv. t.
143; Hook. Fl. Scot. 85; Berwick Flora, 66.
On the sandy sea beach, common.

103. ULMUS.

1. *U. campestris*. Common Small-leaved Elm.
Sm. Eng. Fl. ii. 20; Eng. Bot. 1886.
In plantations, but not a native of the north of Eng-
land.
2. *U. suberosa*. Common Cork-barked Elm.
Sm. Eng. Fl. ii. 21; Eng. Bot. 2161; *U. campe-*
stris, Woodv. t. 197.
In woods and hedges, probably indigenous.
3. *U. major*. Dutch Cork-barked Elm.
Sm. Eng. Fl. ii. 21; Eng. Bot. 2542.
In plantations and hedge rows, but not indigenous.
Possibly a cultivated variety of *U. suberosa*.
4. *U. montana*. Broad-leaved Elm, Wych Hasel.
Sm. Eng. Fl. ii. 22; Eng. Bot. 1887; Hook. Fl.
Scot. 85; Gr. Fl. Eds. 60; Berwick Flora, 66.
In woods and hedges, truly indigenous.
5. *U. glabra*. Smooth-leaved, or Wych Elm.

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Sm. Eng. Fl. ii. 23; Eng. Bot. 2248; *U. montana*
β, Sm. Fl. Brit. 282.

Near the edges of the moors, N. and D.
Probably a variety of the preceding species. I doubt
whether our plant be *Ulmus glabra*, of Lindley.—
Syn. 226.

104. CUSCUTA.

1. *C. Epithymum*. Lesser Dodder.
Sm. Eng. Fl. ii. 25; Eng. Bot., at p. 378; Hook.
Fl. Scot. 86; With. ii. 269; *C. europæa*, Eng.
Bot. t. 55.
Plentiful in 1822, in two clover fields, half a mile
west of Stanton, D.—J. Hogg, Esq.
In 1805 and 1814, this proved a destructive weed
among the Heaths in Mr. Falla's green-houses, near
Gateshead.

105. GENTIANA.

1. *G. verna*. Spring Gentian.
Sm. Eng. Fl. ii. 29; Eng. Bot. 493; With. ii.
381.
In Teesdale Forest, particularly near Wheysyke
House, and between it and Widdy-bank, upon
the slope that borders the Tees, D.
First pointed out to me in 1799, by the Rev. J. Har-
riman. It also grows in Birkdale, Westmorland,
and on Cronkley-fell, Yorkshire, in the same range
of mountains.
2. *G. Amarilla*. Autumnal Gentian.
Sm. Eng. Fl. ii. 30; Eng. Bot. 236; Hook. Lond.
t. 33; Fl. Scot. 86; Gr. Fl. Eds. 60; With. ii.
382; Berwick Flora, 66.
On limestone pastures, from Sunderland to Castle
Eden, and on the Lizard-hills, near Ryhope, in
fields near Greencroft, Buttsfield, and in Teesdale
Forest, D. To the west of Norton, D.—J. Hogg,
Esq. In Crag Close, near Barwesford.—Wallis,
217. On the Links below Scremerston.—Thomp-
son's Berwick Plants. On Holy Island, near Bam-
borough, Beadnal, Twizell, Hexham, Chollerford,
and Hartley, N. β *Var. flore albo*. In Crag Close,
near Barwesford.—Wallis, 218.
3. *G. campestris*. Field Gentian.
Sm. Eng. Fl. ii. 31; Eng. Bot. 237; Hook. Fl.
Scot. 86; Gr. Fl. Eds. 60; With. ii. 383; Ber-
wick Flora, 66.
Near Hexham, and on the west side of Shewing Shields,
on the Wallington moors and Cheviot, also on the
coast at Newbiggin, N. On the banks beyond
Spital, on the links at Goswick, and below Budle.
—Thompson's Berwick Plants. In Crag Close,
near Barwesford, N.—Wallis, 218. In barren pas-
tures at Buttsfield, and in Teesdale, D. Near Tees-
mouth, D.—J. Hogg, Esq. β *Var. flore albo*.
Near Winch-bridge, Teesdale, D.

106. ERYNGIUM.

1. *E. maritimum*. Sea Eryngo, Sea Holly.
Sm. Eng. Fl. ii. 35; Eng. Bot. 718; Woodv. t.
102; With. ii. 384; Gr. Fl. Eds. 61.
On the beach near South Shields Law, and at Castle
Eden, D. At Seaton, D.—Mr. Backhouse.
2. *E. campestre*. Field Eryngo.
Sm. Eng. Fl. ii. 35; Eng. Bot. 57; With. ii. 385.
Between the Glass-houses and Dent's-hole, and on
St. Peter's Quay, below Newcastle, N.—Wilson's
Syn. 75. Observed by Mr. Lawson, on the shore

F

called Friar's Goose, below Gateshead, D.—Dill. Ray's Syn. 222. On the north end of Jarrow ballast-hills, abundant, and on Sunderland ballast hills, D.

The plant still grows in all these localities, but I make no doubt but originally imported from the continent with ballast.

107. SANICULA.

1. *S. europæa*. Wood Sanicle.
Sm. Eng. Fl. ii. 36; Eng. Bot. 98; Gr. Fl. Eds. 61; Berwick Flora, 66.
In woods, frequent.

108. DAUCUS.

1. *D. Carota*. Wild Carrot.
Sm. Eng. Fl. ii. 39; Eng. Bot. 1174; Wodv. t. 161; Gr. Fl. Eds. 71; Berwick Flora, 67.
In pastures, and on the borders of fields; near the Sea coast, abundant.

109. CAUCALIS.

1. *C. daucoides*. Small Bur-parsley.
Sm. Eng. Fl. ii. 41; Eng. Bot. 197; With. ii. 389.
In fields, on Fulwell hills near Sunderland, D., its most northern locality. In corn fields near Norton, D.—J. Hogg, Esq.

110. TORILIS.

1. *T. Anthriscus*. Upright Hedge-parsley.
Sm. Eng. Fl. ii. 43; *Caucalis Anthriscus*, Eng. Bot. 987; Curt. Fasc. vi. t. 22; Hook. Fl. Scot. 87.
In hedges and on the borders of fields, everywhere.
2. *T. nodosa*. Knotted Hedge-parsley.
Sm. Eng. Fl. ii. 44; Berwick Flora, 67; *Caucalis nodosa*, Eng. Bot. 199; Hook. Fl. Scot. 88.
At Holy Island, on the Hough and Castle Rock, N. On rubble, east of Holy Island Castle.—Thompson's Berwick Plants. In corn fields near Whitburn, Castle Eden, Darlington, and Hartlepool, D. Between Billingham and Portrack, D.—J. Hogg, Esq.

111. ANTHRISCUS.

1. *A. vulgaris*. Common Beaked-parsley.
Sm. Eng. Fl. ii. 45; Hook. Fl. Scot. 93; *Scandix Anthriscus*, Eng. Bot. 818; Curt. Fasc. i. t. 19.
On hedge banks and waste ground, common.

112. SCANDIX.

1. *S. Pecten-Veneris*. Needle Chervil, Venus's Comb, Shepherd's Needle.
Sm. Eng. Fl. ii. 46; Eng. Bot. 1397; Curt. Fasc. v. t. 21; Hook. Fl. Scot. 92; Berwick Flora, 67.
In corn fields, frequent.

113. CHEROPHYLLUM.

1. *C. sativum*. Garden Chervil.
Sm. Eng. Fl. ii. 48; Hook. Fl. Scot. 93; *Scandix Cerefolium*, Eng. Bot. 1268; With. ii. 415; *Anthriscus Cerefolium*, Hook. Br. Fl. 131.
Naturalized not far from the Red Heugh, near Gateshead, D. Near Hexham, N.
2. *C. sylvestre*. Wild Chervil.

Sm. Eng. Fl. ii. 48; Eng. Bot. t. 752; Curt. Lond. Fasc. iv. t. 25; Hook. Fl. Scot. 931; *Anthriscus sylvestris*, Hook. Br. Fl. 131.

On the banks of hedges, and in fields and pastures, common.

114. MYRRHIS.

1. *M. odorata*. Sweet Cicely.
Sm. Eng. Fl. ii. 50; *Scandix odorata*, Eng. Bot. 697; Lightfoot, 166; With. ii. 413.
In Dalton Dene, in Cawsey, Beamish, Urpeth, and every other wood on the Team; on the banks of Browney, near Coldpig-hill, and ruins of Finchall Abbey, also in Weardale, frequent, D. In the vicinity of Darlington and Eglestone, D.—Rev. J. Harriman. In Tecket wood, N. In the woods at Wallington, and at Netherwitton, N.—W. C. Trevelyan, Esq.
2. *M. temulentum*. Rough Cicely, Rough Cow-parsley.
Sm. Eng. Fl. ii. 51; *Cherophyllum temulentum*, Eng. Bot. 1521; Curt. Fasc. vi. t. 24; Hook. Fl. Scot. 93.
In hedges, common.

115. BUNIUM.

1. *B. flexuosum*. Common Earth-nut, Kipper, or Pig-nut.
Sm. Eng. Fl. ii. 54; Eng. Bot. 988; *Bunium Bulbocastanum*, Curt. Fasc. iv. t. 24; Hook. Fl. Scot. 83; *Conopodium flexuosum*, Hook. Br. Fl. 126.
In pastures, &c., frequent.

116. SIUM.

1. *S. latifolium*. Broad-leaved Water-parsnep.
Sm. Eng. Fl. ii. 56; Eng. Bot. 204; Curt. Fasc. ii. t. 110; Hook. Fl. Scot. 90; With. ii. 403; Gr. Fl. Eds. 64.
In a pond near the Friar's Goose, east of Gateshead, D.
2. *S. angustifolium*. Narrow-leaved Water-parsnep.
Sm. Eng. Fl. ii. 56; Eng. Bot. 139; Gr. Fl. Eds. 65; With. ii. 404; Berwick Flora, 68.
In the River Team, and a rivulet near Boldon, D. In Prestwick Carr, and the Ouse Burn, N. Near Carding mill, Wooler.—Dr. G. Johnston.
3. *S. nodiflorum*. Procumbent Water-parsnep.
Sm. Eng. Fl. ii. 57; Eng. Bot. 639; Wodv. t. 182; Hook. Fl. Scot. 90; Berwick Flora, 69.
In rivulets, springs, and ditches.
4. *S. inundatum*. Least Water-parsnep.
Sm. Eng. Fl. ii. 58; Berwick Flora, 69; *Sison inundatum*, Eng. Bot. 227; Hook. Fl. Scot. 91.
In marshy places on Gateshead Fell, in ditches near West Boldon, Cleadon, and Harton-down-hill, D. At Cockerton.—Mr. J. Backhouse. Near Bear's Park, D.—Rev. J. Symons. In a spring near High Elswick, N. Below Calf-hill, near Berwick.—Thompson's Berwick Plants. Near Hexham, N.—Mr. J. Thompson.

117. SISON.

1. *S. Anomum*. Hedge Honewort, Bastard Stone-parsley.

Sm. Eng. Fl. ii. 60; Eng. Bot. 954; With. ii. 405.

On the Southwick and Sunderland ballast-hills, D. On a gravelly bank by the road on the S. E. side of the bridge at Barweford, also in the lane between the Edge-house and Chollerton road, N.—Wallis, 184.

113. CICUTA.

1. *C. virosa*. Water Cowbane, Water-hemlock. Sm. Eng. Fl. ii. 62; Eng. Bot. 479; Woodv. Sup. t. 268; Hook. Fl. Scot. 92; With. ii. 410; Gr. Fl. Eds. 66.

On the banks of North Tyne, at Low Park-end, near Nunwick, N.—Wallis, 178.

I have looked for it there in vain.

119. ÆTHUSA.

1. *Æ. Cynapium*. Fool's-parsley, Lesser Hemlock. Sm. Eng. Fl. ii. 64; Eng. Bot. 1192; Curt. Fasc. i. t. 18; Hook. Fl. Scot. 92; Berwick Flora, 69.

In gardens and fields, frequent.

120. CONIUM.

1. *C. maculatum*. Common Hemlock. Sm. Eng. Fl. ii. 65; Eng. Bot. 1191; Curt. Fasc. i. t. 17; Woodv. t. 22; Hook. Fl. Scot. 88. In hedges, and on rubbish, frequent.

121. CORIANDRUM.

1. *C. sativum*. Common Coriander. Sm. Eng. Fl. ii. 67; Eng. Bot. 67; Woodv. 181; With. ii. 412. On the ballast-hills of Tyne and Wear, N. and D. Near Marley hill, D. A naturalized exotic.

122. CENANTHE.

1. *C. fistulosa*. Common Water-dropwort. Sm. Eng. Fl. ii. 68; Eng. Bot. 363; With. ii. 407; Gr. Fl. Eds. 62. In marshy places, on the banks of rivers and streams, but not very common.
2. *C. pimpinelloides*. Parsley Water-dropwort. Sm. Eng. Fl. ii. 69; Eng. Bot. 347; Hook. Fl. Scot. 91; With. ii. 408. Near Hartlepool, D.—Mr. Backhouse. By the Tees at Stockton, D.—G. T. Fox, Esq.
3. *C. pucedanifolia*. Sulphur-wort Water-dropwort. Sm. Eng. Fl. ii. 70; Eng. Bot. 348; With. ii. 409. By the road side between Barrington and Barrmoor, N.—Thompson's Berwick Plants. In marshes on the banks of Wear, between Hilton and Southwick, D.
4. *C. crocata*. Hemlock Water-dropwort. Sm. Eng. Fl. ii. 70; Eng. Bot. 2313; Gr. Fl. Eds. 62; Woodv. Sup. t. 267; With. ii. 407; Berwick Flora 70. On the banks of rivers, and in rivulets, not rare.
5. *C. Phellandrium*. Fine-leaved Water-dropwort. Sm. Eng. Fl. ii. 71; *Phellandrium aquaticum*, Eng. Bot. 684; Woodv. Sup. t. 266; Hook. Fl. Scot. 92; With. ii. 409.

In hogs at Prestwick Carr, N. In Ponds near Cocken and Durham. At Mordent Carrs, D.—Mr. Backhouse. In swamps near Bear's Park, D.—Rev. J. Symons.

123. CRITHMUM.

1. *C. maritimum*. Sea Samphire. Sm. Eng. Fl. ii. 73; Eng. Bot. 819; With. ii. 398; Hook. Fl. Scot. 89. On the sea rocks near Alemonth, plentiful.—Wallis, 173. I could not find it there, nor did I ever hear of its being gathered on our coast.

124. SMYRNIUM.

1. *S. Olusatrum*. Alexanders. Sm. Eng. Fl. ii. 74; Eng. Bot. 230; Gr. Fl. Eds. 70; With. ii. 118; Berwick Flora, 70. On the banks near Tynemouth Castle, plentiful, where it was observed in the time of Wilson.—See Syn. 67. Behind the town walls, above the Close Gate, Newcastle, and on the ruins of Dunstanborough Castle, N. In Hurworth Church Yard, D.

125. APIUM.

1. *A. graveolens*. Smallage, Wild Celery. Sm. Eng. Fl. ii. 76; Eng. Bot. 1210; Hook. Fl. Scot. 95; With. ii. 423. In salt marshes on the rivers Blyth, Tyne, Wear, and Tees, N. and D.

126. ÆGOPODIUM.

1. *Æ. Podagraria*. Gout-weed. Sm. Eng. Fl. ii. 77; Eng. Bot. 940; Hook. Fl. Scot. 95; With. ii. 424; Berwick Flora, 70. On the banks of Wear, common, D. On the banks of Reed, near Otterburn, N. In Pella wood, near Durham.—Wilson's Syn. 66. Near Berwick, under hedges, frequent.—Dr. G. Johnston.

127. IMPERATORIA.

1. *I. Ostruthium*. Masterwort. Sm. Eng. Fl. ii. 78; Eng. Bot. 1380; Woodv. t. 35; Lightfoot, 163; With. ii. 417; *Pucedanum Ostruthium*, Hook. Br. Fl. 119. At Newbiggen, near Middleton, and in Teesdale Forest.—Rev. J. Harriman. On the banks of Dadree Burn, between Dadree Shield and the Wear, D.—26th June, 1803. At Cotterton, near Barnardcastle, D.—Mr. E. Robson.

128. ANGELICA.

1. *A. Archangelica*. Garden Angelica. Sm. Eng. Fl. ii. 80; Eng. Bot. 2561; Woodv. t. 50; With. ii. 402. On the banks of the Skern, near High St. Helen's, and at Birch Carr, D.—Mr. Backhouse.
2. *A. sylvestris*. Wild Angelica. Sm. Eng. Fl. ii. 81; Eng. Bot. 1128; Woodv. Sup. t. 265; Hook. Fl. Scot. 90. By the banks of rivers, and in damp woods.

129. LIGUSTICUM.

1. *L. scoticum*. Scottish Lovage. Sm. Eng. Fl. ii. 82; Eng. Bot. 1207; With. ii. 400; Gr. Fl. Eds. 64; Berwick Flora, 70. Among the rocks on the north side of the ruins of Dunstanborough Castle, N.—July 18, 1804. Its

most southern locality. On the beach, a quarter of a mile south of Bamborough Castle, N.—W. C. Trevelyan, Esq.

130. MEUM.

1. *M. athamanticum*. Spiguel-meum, or Bald-money. Sm. Eng. Fl. ii. 84; Eng. Bot. 2249; *Aethusa Meum*, With. ii. 412; *Ligusticum Meum*, Hook. Fl. Scot. 89.

On a hill by the village of Thockrington, N.—Wallis, 176. On a basaltic height, a quarter of a mile north from Thockrington.—Rev. J. Hodgson, Sp. 1819.

2. *M. Feniculum*. Common Fennel. Sm. Eng. Fl. ii. 85; *Anethum Feniculum*, Eng. Bot. 1208; Woodv. 160; With. ii. 419; *Feniculum vulgare*, Hook. Br. Fl. 122. Naturalized on the ballast-hills at St. Anthon's and Willington, N. On the ballast-hills at Ayre's quay, near Sunderland, D.

131. CARUM.

1. *C. Carui*. Common Caraway. Sm. Eng. Fl. ii. 86; Eng. Bot. 1503; Woodv. t. 45; Hook. Fl. Scot. 95; With. ii. 420. In corn fields, but not very common.

132. PIMPINELLA.

1. *P. saxifraga*. Common Burnet-saxifrage. Sm. Eng. Fl. ii. 89; Eng. Bot. 407; Hook. Fl. Scot. 95; With. ii. 421; Berwick Flora, 71. In barren pastures, frequent.
2. *P. magna*. Great Burnet-saxifrage. Sm. Eng. Fl. ii. 90; Eng. Bot. 408; With. ii. 422. In Chester-lane, at High Barns, near Sunderland, D. Near Hartlepool, D.—J. Hogg, Esq. Under the hedges at Fairflow and Long Rigge, near Nunwick, also on a bank on the north-east side of the bridge at Barweford, near Chipchase, N.—Wallis, 182.

133. CNIDIUM.

1. *C. Silaus*. Meadow Pepper-saxifrage. Sm. Eng. Fl. ii. 91; Berwick Flora, 71; *Puccdanium Silaus*, Eng. Bot. 2142; Hook. Fl. Scot. 88; *Silaus pratensis*, Hook. Br. Fl. 121. In moist meadows and pastures, by no means rare; though, from Hooker's Flora Scotica, it appears scarce in Scotland; in Berwickshire, however, Dr. Johnston mentions it as common.

134. BUPLEURUM.

1. *B. rotundifolium*. Common Hare's-ear, Thorow-wax. Sm. Eng. Fl. ii. 93; Eng. Bot. 99; With. ii. 386. In corn fields to the north and west of Norton, and about Carleton and Redmarshall, D.—J. Hogg, Esq. Its most northern localities.
2. *B. tenuissimum*. Slender Hare's-ear. Sm. Eng. Fl. ii. 94; Eng. Bot. 478; With. ii. 387. By the Tees near Stockton.—Mr. E. Robson. On Seaton moor, D.—Mr. J. Backhouse.

135. HYDROCOTYLE.

1. *H. vulgaris*. Common White-rot, Marsh Pennywort. Sm. Eng. Fl. ii. 96; Eng. Bot. 751; Curt. Fasc.

vi. t. 19; Hook. Fl. Scot. 87; Berwick Flora 71.

In marshy places and on moist heaths, frequent.

136. PASTINACA.

1. *P. sativa*. Wild Parsnep. Sm. Eng. Fl. ii. 101; Eng. Bot. 556; With. ii. 418. In the Magnesian Limestone district, abundant, especially near the coast; its most northern locality.

137. HERACLEUM.

1. *H. Sphondylium*. Common Cow-parsnep. Sm. Eng. Fl. ii. 102; Eng. Bot. 939; Hook. Fl. Scot. 89. On the borders of fields and in hedges, common.

PENTANDRIA TRIGYNIA.

138. VIBURNUM.

1. *V. Opulus*. Common Guelder Rose, Water Elder. Sm. Eng. Fl. ii. 107; Eng. Bot. 332; Hook. Fl. Scot. 96; Berwick Flora, 72. In moist woods and hedges, frequent.

139. SAMBUCUS.

1. *S. Ebulus*. Dwarf Elder, Dane-wort. Sm. Eng. Fl. ii. 108; Eng. Bot. 475; Curt. Fasc. iii. t. 18; Woodv. Sup. t. 260; With. ii. 426; Gr. Fl. Eds. 72. In hedges near Deckham Hall, Gateshead, between Blaydon and Stella, D.—Mr. R. B. Bowman. In the old church-yard at Benwell, N. At Bamborough and Ingram, N.—W. C. Trevelyan, Esq. On the west side of the church-yard wall at Chatton, by the river Till, and at Purley Green, near Shitlington Hall, in Tynedale.—Wallis, 141. At the Crooks, near Mump's Hall, N.—Mr. J. Thompson.
2. *nigra*. Common Elder. Sm. Eng. Fl. ii. 109; Eng. Bot. 476; Berwick Flora, 72; Woodv. t. 73; Hook. Fl. Scot. 96; Var. γ *S. laciniatus*, Ray's Syn. 461. α In woods and hedges. γ In hedges near Earsdon, N.—Mr. R. Waugh.

PENTANDRIA TETRAGYNIA.

140. PARNASSIA.

1. *P. palustris*. Grass of Parnassus. Sm. Eng. Fl. ii. 114; Eng. Bot. 82; Hook. Lond. t. i; Gr. Fl. Eds. 73; With. ii. 429; Berwick Flora, 73. In boggy places near Greencroft, Castle Eden, on the coast near Sunderland, and in Teesdale Forest, D. About Norton and Stockton, D.—J. Hogg, Esq. On bogs in Heaton wood, in marshy places on the highest parts of Northumberland, and on the links at Bamborough and Holy Island. On the links between Druridge and Cresswell, and at the east end of Bromley lake, N.—Wallis, 225.

PENTANDRIA PENTAGYNIA.

141. STATICE.

1. *S. Armeria*. Thrift, Sea Gilliflower. Sm. Eng. Fl. ii. 115; Eng. Bot. 226; Hook. Fl.

Scot. 97; Berwick Flora, 73; *Armeria maritima*, De Cand.—Lindley's Br. Syn. 170.

In salt marshes, and on the rocks by the coast, also on the Sub-alpine hills, in Teesdale Forest, D.

It may be noticed, that the Grass of Parnassus ranges the whole way from the sea beach to our highest grounds; the Thrift occurs only at the extremities of the line.

2. *S. Limonium*. Sea Lavender.

Sm. Eng. Fl. ii. 116; Eng. Bot. 102; Hook. Fl. Scot. 97; With. ii. 431; Berwick Flora, 74.

On the north shore of Wear at Hilton, near Sunderland, also near Tees mouth, and at Hartlepool, D. On St. Cuthbert's Island, a rock at Holy Island, N.

142. LINUM.

1. *L. usitatissimum*. Common Flax.

Sm. Eng. Fl. ii. 118; Eng. Bot. 1357; Curt. Fasc. v. t. 22; Woodv. t. 111; Gr. Fl. Eds. 74; With. ii. 432.

In corn fields, and on the ballast-hills, N. and D.

2. *L. perenne*. Perennial Blue Flax.

Sm. Eng. Fl. ii. 118; Eng. Bot. 40; With. ii. 433.

In fields, on the sea coast near Marsden cottage, and among furze on a bank behind the house, also at Baydales, near Darlington, D.; in which habitat it was noticed by S. Robson.—See Syn. p. 128.

The vicinity of Marsden appears to be its northern boundary, for the Perennial Flax is not mentioned in Hooker's Flora Scotica.

3. *L. catharticum*. Purgine Flax, Mill-mountain.

Sm. Eng. Fl. ii. 119; Eng. Bot. 382; Curt. Fasc. iii. t. 19; Hook. Fl. Scot. 97; Berwick Flora, 74.

In dry barren pastures, frequent.

PENTANDRIA HEXAGYNIA.

143. DROSERA.

1. *D. rotundifolia*. Round-leaved Sun-dew.

Sm. Eng. Fl. ii. 122; Eng. Bot. 867; Hook. Fl. Scot. 98; Berwick Flora, 74.

On bogs, common, N. and D. On the Rabbit banks above Gateshead, D.

2. *D. longifolia*. Long-leaved Sun-dew.

Sm. Eng. Fl. ii. 123; Eng. Bot. 863; Hook. Fl. Scot. 98; With. ii. 436.

In a bog on the north side of Slaterfield, near Simonburn, N.—Wallis p. 221.

Probably *Drosera anglica*. I never met with *Drasera longifolia* in the north.

3. *D. anglica*. Great Sun-dew.

Sm. Eng. Fl. ii. 123; Eng. Bot. 869; Hook. Fl. Scot. 98; With. ii. 437.

In bogs on the Muckle Moss, and at Prestwick Carr, N.

PENTANDRIA POLYGYNIA.

144. MYOSURUS.

1. *M. minimus*. Mouse-tail.

Sm. Eng. Fl. ii. 125; Eng. Bot. 435; Curt. Fasc. iv. t. 26; Hook. Fl. Scot. 98; With. ii. 439.

VOL. II.

In fields near Darlington, D. On St. Anthon's ballast hills, N. On the Cowhill, Newcastle Town Moor, N.—Mr. R. B. Bowman.

HEXANDRIA MONOGYNIA.

145. GALANTHUS.

1. *G. nivalis*. Snowdrop.

Sm. Eng. Fl. ii. 129; Eng. Bot. 19; Hook. Lond. t. 14; With. ii. 442; Gr. Fl. Eds. 75.

In Scotswood dene, and on the Lamshield bank near Hexham. Naturalized on banks in the upper part of Heaton dene, N. Near Conniscliffe and Blackwell, D.—Mr. E. Robson.

Leucogium aestivum (the Summer Snowflake) formerly grew in tolerable abundance in a mill-pond near Goldspink Hall in Heaton dene. The pool is now filled up, and the plant exterminated, which in all likelihood had been thrown out of some garden, and brought down by the bourn.

146. NARCISSUS.

1. *N. biflorus*. Pale Narcissus, Primrose-peerless.

Sm. Eng. Fl. ii. 132; Eng. Bot. 276; With. ii. 444; *N. poeticus*, Hudson, 141.

Near Dinsdale, D., probably the outcast of a garden.—Mr. E. Robson.

2. *N. Pseudo-narcissus*. Common Daffodil.

Sm. Eng. Fl. ii. 132; Eng. Bot. 17; Gr. Fl. Eds. 75; With. ii. 444.

In Witton-le-Wear, Cocken, and Ravensworth woods, in meadows near Buttsfield, and in Barley Haugh near Ebchester, D. Near Pierce Bridge.—Mr. Backhouse. On the south side of the Wear at Butterby near Durham.—John Hogg, Esq. On the banks of the Derwent, near Allan's-ford, N.

147. ALLIUM.

1. *A. arenarium*. Sand Garlick.

Sm. Eng. Fl. ii. 134; Eng. Bot. 1358 (*bad*); Hook. Fl. Scot. 100; With. ii. 445; Berwick Flora, 76.

In the upper part of Castle Eden dene, above the Gunner's pool, D. On the banks of Tyne at Low Elswick, near the Fishery, N.

2. *A. oleraceum*. Streaked Field Garlick.

Sm. Eng. Fl. ii. 136; Eng. Bot. 438; Gr. Fl. Eds. 75; With. ii. 447; Berwick Flora, 77.

In meadows on the banks of Tyne near Wylam, on the Heugh at Holy Island, and rocks at Harnham, N. On the banks of the Hart between Hartburn Grange and the Moor, N.—Miss Emma Trevelyan. On rocks at Spindleston, N.—Dr. G. Johnston. In meadows at Silksworth, near Sunderland, and on the walls at Durham Peth. At Baydales near Darlington.—Mr. Backhouse. Near Middleton in Teesdale, D.—Rev. J. Harriman.

3. *A. vineale*. Crow Garlick.

Sm. Eng. Fl. ii. 137; Eng. Bot. 1974; Gr. Fl. Eds. 75; With. ii. 446; Berwick Flora 77.

On Chapel Hill, and the heights between it and Bel-ford, also on Windmill, Bastion, and other parts of the ramparts of Berwick.—Thompson's Berwick Plants. Near Hexham.—Mr. F. Scott. On Gunnerton Crags, N.—Mr. W. Robertson. At Durham Peth.—Rev. J. T. Fenwick. At Baydales near Darlington.—Mr. Backhouse.

4. *A. ursinum*. Broad-leaved Garlic, Ramsons.
Sm. Eng. Fl. ii. 137; Eng. Bot. 122; Hook. Fl. Scot. 101; Berwick Flora, 77.
In shady moist woods, frequent.
5. *A. Schœnoprasmum*. Chive Garlic.
Sm. Eng. Fl. ii. 138; Eng. Bot. 2441; Hook. Fl. Scot. 101; With. ii. 448; Berwick Flora, 77.
On Walltown Crags.—Mr. J. Thompson, Sps. On Copping Crags by the Wansbeck near Kirkwhelpington, N.—Rev. J. Hodgson, Sp.
These localities are both on Basaltic rocks, and where the plant could never have been cultivated.

143. TULIPA.

1. *T. sylvestris*. Wild Tulip.
Sm. Eng. Fl. ii. 141; Eng. Bot. 63; Hook. Lond. t. 19; Fl. Scot. 101; With. ii. 449.
Naturalized near Blackwell, D.—Mr. James Backhouse.

149. ORNITHOGALUM.

1. *O. luteum*. Yellow Star of Bethlehem.
Sm. Eng. Fl. ii. 142; Eng. Bot. 21; Gr. Fl. Eds. 76; With. ii. 450; *Gagea lutea*, Ker. Lindley Br. Syn. 268.
On the banks of Tees near Eglestone and Wycliffe, and in fields near Bishop Auckland, D. In Barbara Riggs, near Barnardcastle, and near Whorlton.—Rev. J. Harriman. Near Pierce Bridge, D.—Mr. Backhouse. At Butterby near Durham.—John Hogg, Esq. Near Greta Bridge and Brignall.—Johnson in Ray's Syn. 166. Near Hexham.—Mr. F. Scott. In the wood bottom at the west end of the Rectory dene at Simonburn.—Wallis 226. On the banks of the Hart below Rothley mill.—W. C. Trevelyan, Esq. In the dene near Twizell House, N.—P. J. Selby, Esq.
2. *O. nutans*. Drooping Star of Bethlehem.
Sm. Eng. Fl. ii. 144; Eng. Bot. 1997; Hook. Lond. t. 44; With. ii. 452.
Naturalized near Blackwell, D.—Mr. J. Backhouse.

150. SCILLA.

1. *S. verna*. Vernal Squill.
Sm. Eng. Fl. ii. 145; Eng. Bot. 23; With. ii. 453; Berwick Flora, 77; Hook. Fl. Scot. 102; *S. bifolia*, Lightfoot, 121.
Naturalized in woods at Burn Hall, near Durham.—Miss Dale, Sp.
This elegant plant having been found on the sea banks above Gunn's-green in Berwickshire, by the Rev. A. Baird, hopes may be entertained of its being detected in Northumberland. Our Basaltic rocks in the vicinity of the coast are likely localities for it.
2. *S. nutans*. Hare-bell Squill, Wild Hyacinth.
Sm. Eng. Fl. ii. 147; Eng. Bot. 377; Berwick Flora, 78; *Hyacinthus non-scriptus*, Curt. Fasc. ii. t. 18; Hook. Fl. Scot. 102.
In dunes, woods, and under hedges.

151. NARTHECIUM.

1. *N. ossifragum*. Lancashire Bog-asphodel.
Sm. Eng. Fl. ii. 151; Eng. Bot. 535; Hook. Lond. t. 139; Gr. Fl. Eds. 77; With. ii. 455; Berwick Flora, 78.
In bogs on moors and heaths, not rare.

152. CONVALLARIA.

1. *G. majalis*. Lily of the Valley.
Sm. Eng. Fl. ii. 154; Eng. Bot. 1035; Curt. Fasc. v. t. 24; Gr. Fl. Eds. 77; With. ii. 456.
In Gibside woods, Castle Eden dene, and near Winchbridge, Teesdale, D. In Scotswood and Denton dunes, and at Warden mill near Hexham, N.—Among the bushes above the scar at Netherwarden, N.—Wallis, 152.
2. *C. Polygonatum*. Angular Solomon's Seal.
Sm. Eng. Fl. ii. 155; Eng. Bot. 289; Woodv. t. 44; Hook. Lond. t. 38; With. ii. 457; Berwick Flora, 78.
On Kyloe rocks a few miles south of Berwick, N.—Mr. A. Bruce, in Sm. Eng. Fl.
3. *C. multiflora*. Common Solomon's Seal.
Sm. Eng. Fl. ii. 156; Eng. Bot. 279; Hook. Lond. t. 37; Fl. Scot. 105; With. ii. 458.
In the lane between Stockton and Stainton, D.—Mr. E. Robson.

153. JUNCUS.

1. *J. maritimus*. Lesser Sharp Sea Rush.
Sm. Eng. Fl. ii. 159; Eng. Bot. 1725; With. 463; Bicheno, Linn. Tr. xii. 299.
Near Seaton, D.—Mr. Backhouse. Its most northern locality.
2. *J. glaucus*. Hard Rush.
Sm. Eng. Fl. ii. 160; Eng. Bot. 665; Hook. Fl. Scot. 105; Bicheno, Linn. Tr. xii. 300.
In wet pastures and on commons.
3. *J. conglomeratus*. Common Rush.
Sm. Eng. Fl. ii. 161; Eng. Bot. 835; Hook. Fl. Scot. 105; Bicheno, Linn. Tr. xii. 302.
By road sides and in pastures.
4. *J. effusus*. Soft Rush.
Sm. Eng. Fl. ii. 162; Eng. Bot. 836; Hook. Fl. Scot. 105; Bicheno, Linn. Tr. xii. 303.
In wet pastures and by road sides.
5. *J. squarrosus*. Moss Rush, Goose Corn.
Sm. Eng. Fl. ii. 164; Eng. Bot. 933; Hook. Fl. Scot. 105; Bicheno, Linn. Tr. xii. 306.
On moors and wet turfy heaths.
6. *J. compressus*. Round-fruited Rush.
Sm. Eng. Fl. ii. 165; Bicheno, Linn. Tr. xii. 307;
J. bulbosus, Eng. Bot. 934; Hook. Fl. Scot. 107.
- β *J. canosus*. (Mud Rush.)
Sm. Eng. Fl. ii. 166; Bicheno, Linn. Tr. xii. 309; Eng. Bot. 2680; Berwick Flora, 79; *J. bulbosus*, β, Hook. Fl. Scot. 107; *J. compressus* β, Br. Fl. 163; *J. bottnicus*, Wahl. Fl. Lapp. 82 t. 5, according to specimens from SWARTZ.
α in Teesdale forest D. β on the muddy shores of Tyne below Gateshead park, and of Wear near Southwick, D. Near Elswick, N. On the banks of Tweed, and on Goswick links, N.—Thompson's Berwick Plants.
7. *J. bufonius*. Toad Rush.
Sm. Eng. Fl. ii. 163; Eng. Bot. 802; Hook. Fl. Scot. 108; Bicheno, Linn. Tr. xii. 311; Berwick Flora, 79.
In marshy ground on moors, &c.
8. *J. uliginosus*. Little Bulbous Rush.
Sm. Eng. Fl. ii. 169; Eng. Bot. 801; Hook. Fl. Scot. 108; Bicheno, Linn. Tr. xii. 315; Berwick Flora, 80; β, Fl. Brit. 300.

On wet moors, frequent. In var. β the flowers are viviparous.

9. *J. triglumis*. Three-flowered Rush.

Sm. Eng. Fl. ii. 173; Eng. Bot. 899; Lightfoot, 186, t. 9, f. 2; Bicheno, Linn. Tr. xii. 319; With. ii. 466.

Half a mile north of the Cauldron Snout, D.—W. C. Trevelyan, Esq. On Meldon Fell, Teesdale.—Rev. Jno. Harriman.

10. *J. castaneus*. Clustered Alpine Rush.

Sm. Eng. Fl. ii. 173; Eng. Bot. 900; Hook. Fl. Scot. 106; Bicheno, Linn. Tr. xii. 321; With. ii. 467.

In the county of Durham.—Rev. J. Harriman, Smith's English Flora.

There is a specimen of this very rare plant in the late Sir J. E. Smith's Herbarium, marked as coming from the county of Durham.

11. *J. acutiflorus*. Sharp-pointed Jointed Rush.

Sm. Eng. Fl. ii. 174; Eng. Bot. 2143, at the bottom; Berwick Flora, 80; Hook. Fl. Scot. 109; Bicheno, Linn. Tr. xii. 323; *J. articulatus*, Eng. Bot. 238; β , Fl. Brit. 379.

In wet meadows and on moors, frequent.

12. *J. lampocarpus*. Shining-fruited Jointed Rush.

Sm. Eng. Fl. ii. 175; Eng. Bot. 2143; Berwick Flora, 80; Hook. Fl. Scot. 109; Bicheno, Linn. Tr. xii. 325; *J. articulatus* α , Fl. Brit. 379.

In wet meadows and boggy places.

13. *J. obtusiflorus*. Blunt-flowered Jointed Rush.

Sm. Eng. Fl. ii. 176; Eng. Bot. 2144; Hook. Fl. Scot. 109; With. ii. 464; Bicheno, Linn. Tr. xii. 327; *J. articulatus*, β , Fl. Brit. 379.

At Prestwick Carr, N. At Polam, D.—Mr. James Backhouse.

154. LUCIOLA.

1. *L. pilosa*. Broad-leaved Hairy Wood-rush.

Sm. Eng. Fl. ii. 178; Hook. Fl. Scot. 110; Berwick Flora, 80; Bicheno, Linn. Tr. xii. 329, t. 9, f. 1; *Juncus pilosus*, Eng. Bot. 736; Curt. Fasc. v. t. 25.

In denes and woods, frequent.

2. *L. sylvatica*. Great Wood-rush.

Sm. Eng. Fl. ii. 180; Bicheno, Linn. Tr. xii. 131, t. 9, f. 3; Berwick Flora, 80; *Luzula maxima*, Hook. Fl. Scot. 110; *Juncus sylvaticus*, Eng. Bot. 737; Curt. Fasc. v. t. 26.

In woods and denes, common.

3. *L. campestris*. Field Wood-rush.

Sm. Eng. Fl. ii. 181; Br. Prodr. 591; Bicheno Linn. Tr. xii. 334, t. 9, f. 4; Hook. Fl. Scot. 110; Berwick Flora, 81; *Juncus campestris*, Eng. Bot. 672; Curt. Fasc. ii. t. 19.

On moors and in barren pastures.

Another of the British plants found in Australia.

4. *L. sudetica*. Tall Bog Wood-rush.

Berwick Flora, 81, f. 2; *L. congesta*, Sm. Eng. Fl. ii. 181; Forster's Tonh. 44; *Luzula sudetica*, Spr. Syst. Veg. ii. 111; *L. campestris*, γ Gr. Fl. Eds. 81; *Juncus campestris*, β Wahl. Fl. Lapp. 87; Bicheno, Linn. Tr. xii. 334; Hook. Fl. Scot. 110; Fl. Brit. 386; With. ii. 462 *J. sudeticus*, Willd. Sp. Pl. ii. 221; *J. liniger*, Purton's Supp. 352, t. 9.

On the heathy part of Prestwick Carr, and on the Muckle Moss, N. In Beamish Park, and near Tanfield, D.

155. BERBERIS.

1. *B. vulgaris*. Barberry.

Sm. Eng. Fl. ii. 184; Eng. Bot. 49; Woodv. Supp. t. 234; Gr. Fl. Eds. 82; With. ii. 470; Berwick Flora, 81.

In Heaton woods, N. In hedges near Witton-le-Wear, Darlington, Picktree, and Chester-le-Street, D. At Bear's Park, D.—Rev. J. Symons. Between Richardson's Stead and Scremmerston, N. Dr. G. Johnston.

156. FRANKENIA.

1. *F. lavis*. Smooth Sea Heath.

Sm. Eng. Fl. ii. 186; Eng. Bot. 205; With. ii. 472.

On Sunderland ballast-hills, D.—W. Weighell's Herb.

157. PEPLIS.

1. *P. Portula*. Water Purslane.

Sm. Eng. Fl. ii. 187; Eng. Bot. 1211; Curt. Fasc. iv. t. 27; Hook. Fl. Scot. 111.

In marshy places and on wet heaths.

HEXANDRIA TRIGYNIA.

158. RUMEX.

1. *R. sanguineus*. Bloody-veined Dock.

Sm. Eng. Fl. ii. 190; Eng. Bot. 1533; Gr. Fl. Eds. 83; With. ii. 473; Berwick Flora, 82.

By hedge sides near Houghton-le-Spring, on banks at Friar's Goose, near Gateshead, and in pastures near Murton House, D.

2. *R. crispus*. Curled Dock.

Sm. Eng. Fl. ii. 191; Eng. Bot. 1998; Curt. Fasc. ii. t. 20; Hook. Fl. Scot. 112; Berwick Flora, 82.

In pastures and by road sides.

3. *R. acutus*. Sharp Dock.

Sm. Eng. Fl. ii. 192; Eng. Bot. 724; Curt. Fasc. iii. t. 21; With. ii. 474; Berwick Flora, 82.

In moist meadows and near rivers.

4. *R. obtusifolius*. Broad blunt-leaved Dock.

Sm. Eng. Fl. ii. 192; Eng. Bot. 1999; Curt. Fasc. iii. t. 22; Hook. Fl. Scot. 113; Berwick Flora, 83.

By road sides and on waste ground.

5. *R. pulcher*. Fiddle Dock.

Sm. Eng. Fl. ii. 193; Eng. Bot. 1576; Hook. Fl. Scot. 113; With. ii. 476.

On Sunderland ballast-hills, D.—W. Weighell's Herb. On Willington and St. Anthon's ballast-hills, N.

6. *R. maritimus*. Golden Dock.

Sm. Eng. Fl. ii. 193; Eng. Bot. 725; Gr. Fl. Eds. 83; With. ii. 477.

On Willington and St. Anthon's ballast-hills, N. On Sunderland ballast-hills, D.—Rev. J. Symons.

7. *R. palustris*. Yellow Marsh Dock.

Sm. Eng. Fl. ii. 194; Eng. Bot. 1932; Hook. Fl. Scot. 113; With. ii. 476.

- On Sunderland and Hebburn ballast-hills, D. On St. Anthon's and Willington ballast-hills, N.
8. *R. Hydralpathum*. Great Water Dock.
Sm. Eng. Fl. ii. 195; Woodv. t. 178; *R. aquaticus*, Eng. Bot. 2104; Lightfoot, 190; With. ii. 475; *R. Britannica*, Hudson, 1st ed. 135.
Near Preston on the Skerne, and Polam.—Mr. E. Robson. In rivulets, near Stockton and Norton, D.—J. Hogg, Esq.
9. *R. Acetosa*. Common Sorrel.
Sm. Eng. Fl. ii. 196; Eng. Bot. 127; Woodv. t. 69; Hook. Fl. Scot. 113; Berwick Flora, 83.
In meadows and pastures, frequent.
10. *R. Acetosella*. Sheep's Sorrel.
Sm. Eng. Fl. ii. 197; Eng. Bot. 1674; Curt. Fasc. v. t. 29; Hook. Fl. Scot. 113; Berwick Flora, 83.
In barren pastures and on heaths, common.

159. TOFIELDIA.

1. *T. palustris*. Scottish Asphodel.
Sm. Eng. Fl. ii. 193; Eng. Bot. 536; Hook. Lond. 100; Fl. Scot. 114; With. ii. 480; Berwick Flora, 83; *Anthricum calyculatum*, Lightfoot, t. 3, f. 2.
Near Widdy bank on Teesdale Forest, D. Near the Black Ark on Cronkley Fell.
Juxta rivulum non procul Bervico in Scotia. Dill. Ray's Syn. 375.

160. TRIGLOCHIN.

1. *T. palustre*. Marsh Arrow-grass.
Sm. Eng. Fl. ii. 200; Eng. Bot. 366; Hook. Fl. Scot. 114; Lond. t. 98; Berwick Flora, 83.
In bogs and marshy places, but not very common.
2. *T. maritimum*. Sea Arrow-grass.
Sm. Eng. Fl. ii. 201; Eng. Bot. 255; Hook. Fl. Scot. 114; Lond. t. 99; Berwick Flora, 83.
In salt marshes on the Tweed, Blyth, Tyne, Wear, and Tees; also on the sea coast, N. and D.

161. COLCHICUM.

1. *C. autumnale*. Meadow Saffron.
Sm. Eng. Fl. ii. 202; Eng. Bot. 133; Woodv. t. 177; Hook. Fl. Scot. 114; With. ii. 481.
On the banks of Tees, opposite Eglestone, N.—Rev. J. Harriman. At Sand-hills, near Darlington, D.—W. Weighell's Herb. On the banks of Wear at Butterby, near Durham.—Mr. John Fox.

HEXANDRIA POLYGYNIA.

162. ALISMA.

1. *A. Plantago*. Greater Water-plantain.
Sm. Eng. Fl. ii. 203; Eng. Bot. 837; Curt. Fasc. v. t. 27; Hook. Fl. Scot. 114; Berwick Flora, 84.
On the margins of rivers, and in pools and ditches, frequent.
2. *A. ranunculoides*. Small Water-plantain.
Sm. Eng. Fl. ii. 205; Eng. Bot. 326; Hook. Lond. t. 28; Gr. Fl. Eds. 85; With. ii. 485; Berwick Flora, 84.

In boggy places near East Morton, and ponds near Horton, also at Fawdon Slate, D. In clay pits near Barnardcastle, D.—Rev. J. Harriman. At Hill Close Carr.—S. Robson's Fl. 198. In Whitburn-moor lane, D.—Rev. J. Symons. In hogs at Prestwick Carr, and by the Lough on Holy Island, N. In the pond near Spindicestone, N.—Dr. G. Johnston.

HEPTANDRIA MONOGYNIA.

163. TRIENTALIS.

1. *T. europaea*. Chickweed Winter-green.
Sm. Eng. Fl. ii. 238; Eng. Bot. 15; Hook. Fl. Scot. 115; With. ii. 486.
On moors a mile and a half east of Rothbury, N. Beyond the Roman Wall, five miles north of Hexham, and on moors west of Harbottle, N.—T. Willisel, Ray's Syn. 162. In a fir plantation at Catcherside, four miles west of Wallington, on moors about Green Leighton, and by Rothley Lake, N.—Miss Emma Trevelyan. In the plantation surrounding Brislie Tower, N.—Mr. F. Manisty. Near Bassington, three miles west of Alnwick, N.—Miss Pringle, Sp. Near Butsfield and Spring houses, D. In Waskerley Park, near Wolsingham, D.—Mr. J. Thornhill. On the wooded hill above Hepburn, at Chillingham, and on Hedgehope, N.—Dr. G. Johnston.

OCTANDRIA MONOGYNIA.

164. GENOTHERA.

1. *G. biennis*. Common Evening-primrose.
Sm. Eng. Fl. ii. 211; Eng. Bot. 1534; With. ii. 492; Hook. Br. Fl. 178.
On South Shields ballast-hills, D.
Originally from North America, and not yet naturalized beyond the Tyne.

165. EPILOBIUM.

1. *E. angustifolium*. Rosebay Willow-herb, French Willow.
Sm. Eng. Fl. ii. 212; Eng. Bot. 1947; Hook. Fl. Scot. 116; With. ii. 489; Berwick Flora, 86.
On the banks of Derwent, near Blanchland, upon rocks on the west side of Shewing Shields, near Crag Lake, where it was observed by Wallis, and by a rocky rivulet above Langley Ford, at the foot of Cheviot, N. On the banks of South Tyne, by Slaggy Ford, in Knaresdale.—Wallis 154. On the rocks above Folden lead mill, near Edmondbyers; also near Barnardcastle, Eglestone, and the High Force of Tees, D. In Irehope dene, Weardale, D.—W. C. Trevelyan, Esq.
A sub-alpine plant, and merely naturalized in its localities in the southern counties of England.
2. *E. hirsutum*. Great Hairy Willow-herb, Codlings and Cream.
Sm. Eng. Fl. ii. 213; Eng. Bot. 838; Curt. Fasc. ii. t. 21; Hook. Fl. Scot. 117; Berwick Flora, 86.
By ditches, rivulets, and on the banks of rivers, frequent.

3. *E. parviflorum*. Small-flowered hoary Willow-herb.

Sm. Eng. Fl. ii. 214; Eng. Bot. 795; Hook. Fl. Scot. 117; Gr. Fl. Eds. 86; Berwick Flora, 86; *E. villosum*, Curt. Fasc. ii. t. 22; *E. hirsutum*, Hudson, 161.

In watery places, and on the banks of rivers.

4. *E. montanum*. Broad smooth-leaved Willow-herb. Sm. Eng. Fl. ii. 214; Eng. Bot. 1177; Hook. Fl. Scot. 117; Curt. Fasc. iii. t. 24; Berwick Flora, 87.

In dry, stony, and rocky places, and on old walls, frequent.

5. *E. tetragonum*. Square-stalked Willow-herb.

Sm. Eng. Fl. ii. 215; Eng. Bot. 1943; Curt. Fasc. ii. t. 23; Hook. Fl. Scot. 117; Berwick Flora, 87.

In watery places, not uncommon.

6. *E. palustre*. Round-stalked Marsh Willow-herb. Sm. Eng. Fl. ii. 216; Eng. Bot. 346; Berwick Flora, 87; Hook. Fl. Scot. 117; *β lapponicum*, Wahl. Fl. Lapp. 25; Linn. Lapp. N. 149.

α By ditches and on boggy ground; *β* by rivulets near Wolsingham, D. On Cheviot, N.

7. *E. alsinifolium*. Chick-weed-leaved Willow-herb. Sm. Eng. Fl. ii. 216 Eng. Bot. 2000; With. ii. 492; Berwick Flora, 87; Villars Dauph. iii. 511; Hook. Fl. Scot. 117; Northumberland and Durham Guide, i. 36 and ii. preface 4; *E. organifolium*, Lam. and De Cand. iv. 424; Turner and Dillwyn's Guide, see note v. ii. p. 471.

In a rivulet near the summit of Cheviot, N.—July 22, 1804. On Cronkley Fell, Teesdale.

8. *E. alpinum*. Alpine Willow-herb.

Sm. Eng. Fl. ii. 217; Eng. Bot. 2001; Lightfoot, 199; t. 10, f. 1; With. ii. 491.

Near the Cauldron Snout in Teesdale, D.—W. C. Trevelyan, Esq. The only English locality Curtis's station at the head of Long-sleddale, Westmorland, is occupied by *Epilobium alsinifolium*, as proved by specimens gathered there by Mr. Joseph Woods.

166. CHLORA.

1. *C. perfoliata*. Perfoliate Yellow-wort.

Sm. Eng. Fl. ii. 218; Hook. Lond. t. 2; Eng. Bot. 60; With. ii. 494.

In dry hilly pastures about a quarter of a mile west of Honeycleugh Crag, near Chester Wood, and Whinnetty, on South Tyne, N.—Wallis, 217.

No other botanist has been so fortunate as to find this elegant plant in Northumberland or Durham.

167. VACCINIUM.

1. *V. Myrtillus*. Bilberry or Bleaberry.

Sm. Eng. Fl. ii. 219; Eng. Bot. 456; Hook. Fl. Scot. 118; Berwick Flora, 87.

On heaths and in woods, not rare. Heaton Dene, near Newcastle, N.

2. *V. uliginosum*. Great Bilberry.

Sm. Eng. Fl. ii. 220; Eng. Bot. 581; Hook. Fl. Scot. 118; With. ii. 496.

Near Wardrew, and on the north side of Wall-town Crag, N. Near an ancient camp on the south banks of Tyne, opposite Lambley, N.—W. C. Trevelyan, Esq. In bogs at Moor-rigs near Middleton-in-Teesdale, D.—Mr. James Backhouse. On

Meldon Fell, Teesdale.—Rev. J. Harriman. In the Duke of Portland's wood, called East Common Wood, near Hexham, N.—Wallis, 147. I could never find it there.

3. *V. Fitis-Idæa*. Red Whortle-berry, Cow-berry.

Sm. Eng. Fl. ii. 220; Eng. Bot. 598; Gr. Fl. Eds. 87; With. ii. 496; Berwick Flora, 88.

On tufty heaths at Buttsfield, Stanhope in Weardale, and in Teesdale Forest; in woods at Witton-le-Wear, and Howns near Medomsley; and on the heath at the source of a Roman aqueduct west of Woodland, near Buttsfield, D. On Cheviot and Hedgehope; also in Allendale; in the wood at Roadley, and on the moors near Wallington; in East Common Wood, and on the banks at West Dipton, near Hexham, N. On rocks at Long Crag, near Watling-street, by the road to Thockington from Gunnerton; also on the moor edge near Diligate Hall, N.—Wallis, 147. On the hill at Hepburn near Chillingham, N. Dr. G. Johnston.

An indifferent substitute for the Cranberry.

4. *V. Oxycoccus*. Cranberry.

Sm. Eng. Fl. ii. 221; Eng. Bot. 319; Gr. Fl. Eds. 87; With. ii. 497; Berwick Flora, 88.

On the Beamish, Urpeth, Weardale, and Teesdale moors, D. On Framwellgate Carr, near Durham.—J. Hogg, Esq. On mosses north of Gunnerton Crag.—Mr. F. Scott. On moors between Belford and Wooller, N.—Thompson's Berwick Plants. On the Wallington moors, the Muckle Moss, Blanchland moors, and the heath at Prestwick Carr, N.

168. CALLUNA.

1. *C. vulgaris*. Common Ling.

Sm. Eng. Fl. ii. 225; Hook. Fl. Scot. 119; Berwick Flora, 88; *Erica vulgaris*, Eng. Bot. 1013; Curt. Fasc. v. t. 30.

β flore albo.

α On dry moors if the soil be not calcareous, and occasionally in dens and woods; *β* on the Teesdale and Wallington moors, D. and N.

169. ERICA.

1. *E. Tetralix*. Cross-leaved Heath, Heather.

Sm. Eng. Fl. ii. 226; Eng. Bot. 1014; Berwick Flora, 89; Curt. Fasc. i. t. 21; Hook. Fl. Scot. 119.

β flore albo.

α on boggy heaths; *β* on the Wallington moors, N.—W. C. Trevelyan, Esq.

2. *E. cinerea*. Fine-leaved Heath, Heather.

Sm. Eng. Fl. ii. 226; Eng. Bot. 1015; Berwick Flora, 89; Curt. Fasc. ii. t. 25; Hook. Fl. Scot. 119.

β flore albo.

α On wet turfy moors; *β* at Cow-close near Cockfield, D.—Mr. J. Backhouse.

170. DAPHNE.

1. *D. Mezereum*. Common Mezereen, Spurge-olive.

Sm. Eng. Fl. ii. 228; Eng. Bot. 1381; Woody. t. 23; With. ii. 503.

Naturalized in a wood among the Tunstal hills, south of Sunderland, D.—Mr. T. Robson.

2. *D. Laureola*. Spurge-laurel.

Sm. Eng. Fl. ii. 229; Eng. Bot. 119; Hook. Fl. Scot. 119; Gr. Fl. Eds. 88; With. ii. 504; Berwick Flora, 90.

In woods and hedges near Hilton Castle, and in Dalton and Castle Eden Denes, D. Near Norton and Wynyard.—J. Hogg, Esq. In Whorlton wood, D.—Rev. J. Harriman. Between Bilton Bank and the Long Dyke, near Alnwick N.—Mr. J. Davison.
Usually confined to limestone soils.

171. ACER.

1. *A. Pseudo-platanus*. Greater Maple, Sycamore.
Sm. Eng. Fl. ii. 230; Eng. Bot. 303; Hook. Fl. Scot. 120.
In woods and hedges, also on the edges of many of our high moors, where it certainly is indigenous.
2. *A. campestre*. Common Maple.
Sm. Eng. Fl. ii. 231; Eng. Bot. 304; Hook. Fl. Scot. 120; With. ii. 494.
In hedges near Sunderland, Norton, and Darlington, and in plantations at Beamish, D. Rare in the north of England, probably not indigenous beyond the Tyne.

OCTANDRIA TRIGYNIA.

172. POLYGONUM.

1. *P. amphibium*. Amphibious Persicaria.
Sm. Eng. Fl. ii. 232; Eng. Bot. 435; Curt. Fasc. iv. t. 28; Hook. Fl. Scot. 121; Berwick Flora, 90.
In ditches, ponds, and by rivulets.
2. *P. Persicaria*. Spotted Persicaria.
Sm. Eng. Fl. ii. 233; Eng. Bot. 756; Curt. Fasc. i. t. 23; Hook. Fl. Scot. 121; Berwick Flora, 90.
In ditches and watery places.
3. *P. lapathifolium*. Pale-flowered Persicaria.
Sm. Eng. Fl. ii. 234; Eng. Bot. 1362; Berwick Flora, 90; Hook. Fl. Scot. 121; *P. pennsylvanicum*, Curt. Fasc. i. 24, 25; *P. pallidum*, With. ii. 503.
On cultivated ground and about dung hills.
4. *P. Hydropiper*. Biting Persicaria.
Sm. Eng. Fl. ii. 235; Eng. Bot. 989; Curt. Fasc. i. t. 26; Hook. Fl. Scot. 121; Berwick Flora, 91.
By ditches and watery places.
5. *P. minus*. Small Creeping Persicaria.
Sm. Eng. Fl. ii. 235; Eng. Bot. 1043; Curt. Fasc. i. t. 28; With. ii. 507; Hook. Fl. Scot. 121.
At Mordent Carr near Darlington, D.—Mr. Backhouse.
6. *P. Bistorta*. Great Bistort, or Snakeweed.
Sm. Eng. Fl. ii. 236; Eng. Bot. 509; Curt. Fasc. i. t. 22; Woodv. 34; With. ii. 509; Hook. Fl. Scot. 120.
In moist meadows and woods on Tyne, Wear, Tees, Team, and Derwent, N. and D. Near Wallington, N.—W. C. Trevelyan, Esq. In the King's Meadows, near Newcastle.—Wilson's Syn. 21. Where it still grows. In the wood called the Stocking, near Alnwick, N.—Mr. J. Davison.
7. *P. viviparum*. Viviparous, or Alpine Bistort.
Sm. Eng. Fl. ii. 237; Eng. Bot. 669; Hook. Lond. t. 81; Fl. Scot. 120; With. ii. 510.

In alpine pastures near Eglestone and Middleton, also in Teesdale Forest, on the banks of Wear, at Burtree-ford, Weardale, D.

8. *P. aviculare*. Knot-grass.
Sm. Eng. Fl. ii. 238; Berwick Flora, 91; Eng. Bot. 1252; Hook. Fl. Scot. 122; Curt. Lond. i. t. 27; & Sm.; *P. marinum*, Ray's Syn. 147.
By paths and on cultivated ground; & close by Cultercoats near Tynemouth, N.—Wilson's Syn. 21.
9. *P. Fagopyrum*. Buck-wheat.
Sm. Eng. Fl. ii. 239; Eng. Bot. 1044; Hook. Fl. Scot. 122.
On the ballast-hills of Tyne and Wear, N. and D.
10. *P. Convolvulus*. Climbing Buck-wheat, Black Bindweed.
Sm. Eng. Fl. ii. 239; Eng. Bot. 941; Curt. Fasc. iv. t. 29; Hook. Fl. Scot. 122; Berwick Flora, 91.
In corn fields, gardens, &c.

OCTANDRIA TETRAGYNIA.

173. PARIS.

1. *P. quadrifolia*. Herb Paris.
Sm. Eng. Fl. ii. 241; Eng. Bot. 7; With. ii. 513; Gr. Fl. Eds. 91.
In Hawthorn and Castle Eden Denes, and Raby Park; also in Urpeth, Beamish, and Ravensworth woods, D. In Scotswood and Hcaton Denes, and in woods on the Coquet, at Felton and Meldon; also near Hexham, N. Wallington woods, N.—Miss Emma Trevelyan. In Cottingwood near Morpeth, where Dr. Turner observed it; and at the west end of the Rectory wood, Simonburn.—Wallis, 150. In Twizell dene.—P. J. Selby, Esq. In Rugeley wood.—Mr. F. Manisty. At Break-back, on the way to Hulin Abbey near Alnwick, N.—Dr. Cope.

174. ADOXA.

1. *A. Moschatellina*. Tuberous Moschatell.
Sm. Eng. Fl. ii. 242; Eng. Bot. 453; Curt. Lond. Fasc. ii. t. 26; Hook. Fl. Scot. 123; With. ii. 514.
In woods, denes, and under hedges.

ENNEANDRIA HEXAGYNIA.

175. BUTOMUS.

1. *B. umbellatus*. Flowering-rush.
Sm. Eng. Fl. ii. 245; Eng. Bot. 651; Curt. Lond. Fasc. i. t. 29; Hook. Fl. Scot. 123; Gr. Fl. Eds. 92; With. ii. 522.
In the river Skerne near Darlington, D. In rivulets near Norton.—J. Hogg, Esq. In the Browney, D.—Rev. J. Symons. Naturalized in the ponds at Wallington. In a small pond near Howick, N.—Mr. J. Embleton's MSS. Most likely planted there.
I consider the south of the county of Durham as the northern limit of *Butomus umbellatus*, for thirty years since the late Mr. McKay assured me that this elegant aquatic had been planted in Duddingston Lough; and Loch Clunie, bordering on the high-

lands, is a still more unlikely original habitat for it.
—See Hook. Fl. Scot. and Lightfoot, 1139.

DECANDRIA MONOGYNIA.

176. MONOTROPA.

1. *M. Hypopitys*. Yellow Bird's-nest.
Sm. Eng. Fl. ii. 249; Eng. Bot. 69; Hook. Lond. t. 105; Fl. Scot. 125; With. ii. 525.
Not unfrequent in the woods near Wark, in Tyndale, and in Ramshaw wood, by the road side near the mill; also on the east side of the ostium of Wark burn, N.—Wallis, 234.
No other botanist has found this rare plant in these counties.

177. ANDROMEDA.

1. *A. polifolia*. Marsh Andromeda, or Wild Rosemary.
Sm. Eng. Fl. ii. 251; Eng. Bot. 713 (*bad*); Hook. Fl. Scot. 125; With. ii. 526; Fl. Lapp. 2nd ed. 131, t. 1, f. 2 (*good*).
On the heathy part of Prestwick Carr, and on the Muckle Moss north of the Roman Wall and west of Shewing Shields; also on the Wallington moors, N. On Green Leighton Moss, and at Dardon Lough, N.—Miss Emma Trevelyan.

178. ARBUTUS.

1. *A. Uva-ursi*. Red-berried trailing Arbutus.
Sm. Eng. Fl. ii. 253; Eng. Bot. 714; With. ii. 527; Light. Fl. Scot. 216, t. 11, f. c. d.; Woodv. t. 70; Stephenson and Churchill's Med. Bot. t. 91, (*good*); Fl. Lapp. 129, t. 6, f. 3.
In the Scar above the High Force, and in Cronkley Scar, Teesdale, D. On the heath on the south side of East Common Wood near Hexham, where it was noticed by Lightfoot; and on Acton Cleugh, five miles north of Blanchland, N.—On Little Waneyhouse Crag, sparingly, N.—Wallis, 148.

179. PYROLA.

1. *P. rotundifolia*. Round-leaved Winter-green.
Sm. Eng. Fl. ii. 255; Eng. Bot. 213; Hook. Lond. t. 26; Gr. Fl. Eds. 92; With. ii. 528; Berwick Flora, 93.
In Castle Eden dene, particularly in the north branch, and in Hawthorn dene, D. At Birch Carr, D.—Mr. Janson. In Allerton dene about four miles from Berwick, N.—Dr. G. Johnston.
“Round-leaved Winter-green. On the hedge bank by the road up the hill to Simonburn Castle, and in the bank of wood opposite the west end of the Rectory dene at Simonburn, on the north-east side of the freestone quarry; also on the borders of Ramshaw wood, by the way side near Wark in Tyndale, on the edge of the moor by Dilgate Hall near Hexham, and in the Duke of Portland's wood (East Common wood) near that town, N.”—Wallis, 223.
Both *Pyrola media* and *P. minor*, grow at the latter habitat; what species occupy the other localities I have not been able to ascertain.
2. *P. media*. Intermediate Winter-green.
Sm. Eng. Fl. ii. 256; Eng. Bot. 1945 (*very good*); Hook. Fl. Scot. 127; Fl. Lond. t. 30; Northumberland and Durham Guide, ii. 19; Berwick Flora, 94.

In Scotswood dene three miles west of Newcastle.—July 16, 1797. Also in East Common Wood near Hexham, N. Near Roadley Lake by the side of the road.—Miss Emma Trevelyan. In Longridge dene six miles from Berwick.—Dr. G. Johnston. In Aneroft dene.—Mr. J. Manners, in Berwick Flora. In Howns' wood near Medomsley, and Blackston-bank Wood, four miles north of Wolsingham; also on the edge of the woodland plantations on Lanchester Fell, D. In Skull Wood, D.—Mr. Jas. Backhouse.

3. *P. minor*. Lesser Winter-green.
Sm. Eng. Fl. ii. 257; Eng. Bot. 158 (*very bad*); Gr. Fl. Eds. 92; With. ii. 529; *P. rosea*, Eng. Bot. 2543 (*good*).
In Gibside woods near the Friar-side gate; also near the Swalwell gate, and on Teesdale Forest, D. In Cocken woods, D.—W. Weighell's Herb. Near Prudhoe Castle, N.—Mr. J. Thornhill, jun. In Arngill, Cow-close-gill, and Hyndon-gills, which form the Gaunless; also in Skull Wood near south Hamsterley, D.—Mr. J. Backhouse. At Wallington House, and at Roadley; also in East Common Wood, near Hexham, N. In a fir plantation at Catcherside four miles west of Wallington, N.—Miss Emma Trevelyan. In Willymoteswick Dene.—Mr. J. Thompson, Sp. In Callas Wood near Alnwick, N.—Miss Pringle, Sp.
4. *P. secunda*. Serrated Winter-green.
Sm. Eng. Fl. ii. 257; Eng. Bot. 517; Hook. Fl. Scot. 127; With. ii. 530.
On the borders of Ramshaw Wood by the road side, N.—Wallis, 224. In 1804 I sought it there in vain, and never gathered it in England, except in Ashness-gill above Barrow Force, near Derwentwater, Cumberland.

DECANDRIA DIGYNIA.

180. CHRYSOSPLENIUM.

1. *C. alternifolium*. Alternate-leaved Golden-saxifrage.
Sm. Eng. Fl. ii. 260; Eng. Bot. 54; Gr. Fl. Eds. 93; With. ii. 531.
In Causey Wood, Ravensworth woods above Mill Green, in woods near Eglestone, and by Pont-burn near Hamsterley, D.—At Baydales near Darlington, D.—Mr. E. Robson. On the banks of Wear opposite Cocken, D.—Mr. J. Thornhill. By St. Mungo's well, at Hall-barns near Simonside.—Wallis, 212. In Stamp's plantations between Burrell's cottage and Alnwick moor—Mr. F. Manisty; at Barbary's-bank—Miss Pringle; at Break-back—Miss Forster, delin.; and in Edington Wood near Alnwick, N.—Mr. J. Davison.
2. *C. oppositifolium*. Opposite-leaved Golden-saxifrage.
Sm. Eng. Fl. ii. 260; Eng. Bot. 490; Curt. Lond. Fasc. ii. 27; Hook. Fl. Scot. 123; Berwick Flora, 94; With. ii. 531.
In watery places, especially in woods.

181. SAXIFRAGA.

1. *S. stellaris*. Hairy Saxifrage.
Sm. Eng. Fl. ii. 264; Eng. Bot. 167; Hook.

- Lond. t. 69; Fl. Scot. 128; Don. in Linn. Tr. xiii. 356; With. ii. 532; Berwick Flora, 94.
- By Eglesbourn, and rills in Egleshope, D. In bogs near Allenheads, Coal Cleugh, Kilhope Law, and near Riddlehamhope above Blanchland; also on Cheviot, N. On the moors near Beldon-bourn, N. and D. At the head of Caulledge-bourn, N.—W. C. Trevelyan, Esq.
2. *S. Hirculus*. Yellow Marsh Saxifrage.
Sm. Eng. Fl. ii. 267; Eng. Bot. 1009; Curt. Lond. Fasc. vi. t. 26; Don. in Linn. Tr. xiii. 372; With. ii. 535.
On Cotherstone Fell, in a moss about half a mile south-east of the place where the Balder is joined by the Blackbeck.—Mr. James Backhouse. Said to have been first found by John Binks, a miner.
3. *S. aizoides*. Yellow Mountain Saxifrage.
Sm. Eng. Fl. ii. 268; Eng. Bot. 39; Don. Trans. Linn. xiii. 375; Hook. Fl. Scot. 129; With. ii. 535; *S. autumnalis*, Willd. Sp. Pl. ii. 650; Lightfoot, 222; Hudson, 180.
Near Widdy Bank on Teesdale Forest, D. It still grows where it was observed by Wallis, on rocks by the river Irthing, above Wardrew, N.
4. *S. granulata*. White Saxifrage.
Sm. Eng. Fl. ii. 269; Eng. Bot. 500; Woodv. Sup. t. 232; Don. Linn. Tr. xiii. 362; Curt. Fasc. i. t. 30; Gr. Fl. Eds. 93; With. ii. 536; Berwick Flora, 95.
In Ravensworth woods near Mill Green, near Wotton-le-Wear, and Finchall Abbey, D.—On Widehaugh banks near Hexham; also near Alnwick, in Scotswood Dene, and on the banks near Wooler-haugh-head, N. Near Bavington.—W. C. Trevelyan, Esq. On the Heugh at Holy Island, and on Chapel hill, near Belford.—Thompson's Berwick Plants.
On the banks of the rivulet opposite to Burn-house, near Simonburn, and at Barwesford by the road to Chipchase, N.—Wallis, 213. In the wood above the Union bridge.—Dr. G. Johnston. In Swarland and Newton woods, N.—Mr. J. Davison.
5. *S. tridactylites*. Rue-leaved Saxifrage.
Sm. Eng. Fl. ii. 271; Eng. Bot. 501; Curt. Fasc. ii. t. 28; Don. Tr. Linn. 441; Gr. Fl. Eds. 94; With. ii. 537.
On walls at Egglestone, in Teesdale, on Boldon and Cleadon hills, and near Dalton field-houses, D. On walls near Barnardcastle and Darlington, D.—Rev. J. Harriman. Near Shewing-shields, and on Ratcheugh Crag, near Alnwick, N.
6. *S. hypnoides*. Mossy Saxifrage, or Ladies' Cushion.
Sm. Eng. Fl. ii. 277; Eng. Bot. 454; Don. Linn. Tr. xiii. 447; With. ii. 539; Gr. Fl. Eds. 94.
On rocks at Falcon-clint Scar, below Cauldron Snout, D. At the head of Caulledge-bourn, N.—W. C. Trevelyan, Esq.
182. *SCLERANTHUS*.
1. *S. annuus*. Annual Knawel.
Sm. Eng. Fl. ii. 282; Eng. Bot. 351; Hook. Fl. Scot. 133; Berwick Flora, 95.
In dry fields and on walls, frequent.
2. *S. perennis*. Perennial Knawel.
Sm. Eng. Fl. ii. 283; Eng. Bot. 352; Hook. Fl. Scot. 133; With. ii. 540.
On Durham moor.—Rev. J. Symonds.

Very different in appearance from the preceding species, though its decumbent mode of growth and clustered flowers, afford but trivial specific distinctions between them; I have never seen specimens gathered in the north of England; in the south it is not rare on sandy commons, such as Ryegate, in Surrey.

183. *SAPONARIA*.

1. *S. officinalis*. Soapwort.
Sm. Eng. Fl. ii. 284; Eng. Bot. 1060; Curt. Fasc. ii. 29; Woodv. t. 251; Gr. Fl. Eds. 95; With. ii. 541.
On the banks of Tyne near Friar's Goose, and of Wear at Newbridge, near Chester-le-Street, and Low Lambton, D. By the Wear, half a mile below Finchall Abbey.—Mr. J. Thornhill, jun. Near Darlington.—Rev. J. Harriman. By the Tees at Croft Bridge, and at Middleton-one-row, D.—Mr. E. Robson.

184. *DIANTHUS*.

1. *D. Armeria*. Deptford Pink.
Sm. Eng. Fl. ii. 286; Eng. Bot. 317; Hook. Lond. t. 134; Fl. Scot. 134; With. ii. 542; Sm. Tr. Linn. ii. 299.
On Pallion ballast-hills above Sunderland, D.—W. Weighell's Herb.
2. *D. deltoides*. Maiden Pink.
Sm. Eng. Fl. ii. 288; Eng. Bot. 61; Tr. Linn. ii. 300; Gr. Fl. Eds. 95; With. ii. 543; Berwick Flora, 95.
On Ratcheugh Crag near Alnwick, and on hedge banks between Wooler and Earl, N. In high pastures above Gunnerton Crags.—Mr. F. Scott. At Budle, Spindlestone, Great Bavington, and Hembleton.—W. C. Trevelyan, Esq. On the furze bank, in the Rectory glebe at Embleton, on Chapel-hill at Belford, on the banks of a rivulet at Swinburne Castle, and at Wooler-haugh-head.—Wallis, 215. On crags at Craig mill.—Thompson's Berwick Plants.

DECANDRIA TRIGYNIA.

185. *SILENE*.

1. *S. anglica*. English Catchfly.
Sm. Eng. Fl. ii. 291; Eng. Bot. 1178; Curt. Lond. iv. t. 30; With. ii. 546.
On Sunderland ballast-hills.—W. Weighell's Herb.
- iata*. Bladder Campion, or Catchfly.
Sm. Eng. Fl. ii. 292; Berwick Flora, 96; Hook. Fl. Scot. 134; *Cucubalus Behen*, Eng. Bot. 164; With. ii. 545.
In fields, pastures, and on the sea banks.
This plant continues unaltered in its habit, when growing on the sea banks at Cullercoats, Newbiggin, and other places.
3. *S. maritima*. Sea Campion, or Catchfly.
Sm. Eng. Fl. ii. 293; Eng. Bot. 957; Berwick Flora, 96; With. ii. 548; *S. amara*, Lightfoot, 227; Hudson, 188; *S. inflata* β , Hook. Fl. Scot. 135; Gr. Fl. Eds. 96.
On the sea coast at Whitburn, and on Fulwell hills, D. Near Hartley, and on Holy Island, N. On

banks beyond Hudshead.—Thompson's Berwick Plants. On the Fern Islands, N.—Dr. G. Johnston.

Dr. Hooker considers this a variety of the preceding species.

4. *S. conica*. Striated Corn Catchfly.

Sm. Eng. Fl. ii. 294; Eng. Bot. 922; With. ii. 550.

On Hebburn ballast-hills, D.—Mr. R. Waugh. On Willington ballast-hills, N.

5. *S. noctiflora*. Night-flowering Catchfly.

Sm. Eng. Fl. ii. 295; Eng. Bot. 291; Hook. Fl. Scot. 135; With. ii. 550.

In fields near Gateshead, Cleadon, Whitburn, and South Shields.

186. STELLARIA.

1. *S. nemorum*. Wood Stitchwort.

Sm. Eng. Fl. ii. 300; Eng. Bot. 92; With. ii. 551; Gr. Fl. Eds. 97.

In Eglestone, Lambton, Cawsey, Beamish, and Ravensworth woods; and in hedges at Witton-le-Wear, and Baydales, near Darlington; also on the banks of Wear, at Chester-le-Street new bridge, D. Near Westonhope, Weardale, —W. C. Trevelyan Esq. In Cocken woods, D.—W. Weighell's Herb. On the island near Hazle-side stream, Alnwick.—Mr. J. Davison. By the brook at Simonburn, N.—Wallis, 215.

2. *S. media*. Common Chickweed.

Sm. Eng. Fl. ii. 301; Eng. Bot. 537; Hook. Fl. Scot. 135; *Alsine media*, Curt. Fasc. i. t. 20; Hudson, 131.

On cultivated ground, everywhere.

3. *S. holostea*. Greater Stitchwort.

Sm. Eng. Fl. ii. 301; Eng. Bot. 511; Curt. Fasc. ii. t. 30; Hook. Fl. Scot. 136.

In woods and by hedges, frequent.

4. *S. graminea*. Lesser Stitchwort.

Sm. Eng. Fl. ii. 302; Eng. Bot. 303; Hook. Fl. Scot. 136; Berwick Flora, 97.

On heaths among bushes, not rare.

5. *S. glauca*. Glaucous Marsh Stitchwort.

Sm. Eng. Fl. ii. 303; Eng. Bot. 825; Gr. Fl. Eds. 98; With. ii. 555; Berwick Flora, 97.

At Rice Carr, near Darlington, D.—Mr. Backhouse. Among furze at Prestwick Carr.—Mr. R. B. Bowman. By the side of a pond above Spindlestone, N.—Dr. G. Johnston.

6. *S. uliginosa*. Bog Stitchwort.

Sm. Eng. Fl. ii. 303; Eng. Bot. 1074; Curt. Lond. Fasc. vi. t. 28; Hook. Fl. Scot. 136.

By ditches, springs, and rivulets, frequent.

187. ARENARIA.

1. *A. peploides*. Sea Chickweed, or Sandwort.

Sm. Eng. Fl. ii. 306; Eng. Bot. 189; Hook. Fl. Scot. 137; With. ii. 557; Berwick Flora, 97.

On the sands of the sea shore, frequent. Spittal sands near Berwick.—Dr. Thompson.

2. *A. trinervis*. Plantain-leaved Chickweed, or Sandwort.

Sm. Eng. Fl. ii. 307; Eng. Bot. 1463; Curt. Lond. Fasc. iv. t. 31; Hook. Fl. Scot. 137; Berwick Flora, 97.

In bushy moist places.

3. *A. serpyllifolia*. Thyme-leaved Sandwort.

Sm. Eng. Fl. ii. 307; Eng. Bot. 923; Curt. Lond. Fasc. iv. t. 32; Hook. Fl. Scot. 138; Berwick Flora, 98.

On old walls and dry ground.

4. *A. verna*. Vernal Sandwort.

Sm. Eng. Fl. ii. 309; Eng. Bot. 512; Gr. Fl. Eds. 99; With. ii. 559; Berwick Flora, 98.

On old mine heaps in Allendale, N. On the banks of Tyne near Crow-hall, N.—Mr. J. Thompson, Sp. Upon the wolds near Cauldron Snout, Teesdale, and on the moors in Weardale, D. On Cronkley Fell, Teesdale.

5. *A. rubra*. Purple Sandwort.

Sm. Eng. Fl. ii. 311; Eng. Bot. 352; Hook. Fl. Scot. 138; Berwick Flora, 98.

In sandy fields and barren places.

6. *A. marina*. Sea Spurrey Sandwort.

Sm. Eng. Fl. ii. 311; Eng. Bot. 958; Hook. Fl. Scot. 139; Berwick Flora, 98; *A. rubra* β , Hudson, 193.

On the sandy sea coast, not rare.

DECANDRIA PENTAGYNIA.

188. SEDUM.

1. *S. Telephium*. Orpine, or Live-long.

Sm. Eng. Fl. ii. 315; Eng. Bot. 1319; Curt. Lond. Fasc. iii. t. 25; Gr. Fl. Eds. 100; With. ii. 562; Berwick Flora, 98.

By the road side near Urpeth, by hedges near Lancaster Ford, and near Durham, in Hag Crag wood near the High Force, and on Falcon-clint Scar, Teesdale, D. By the mill at Shincliffe, and wood at Butterby, D.—J. Hogg, Esq. On the banks of Tyne below Paradise near Elswick, and on hedge banks near Hexham, N. Near Belsay, —Miss Emma Trevelyan. On Banks between Simonburn and Nunwick, also at Rodham, N.—Wallis, 174.

2. *S. anglicum*. White English Stonecrop.

Sm. Eng. Fl. ii. 317; Eng. Bot. 171; Hook. Fl. Scot. 140; With. ii. 565; Berwick Flora, 99.

On the Heugh and about the Castle at Holy Island, N.—Thompson's Berwick Plants; observed also by Dr. G. Johnston.

A rare visitant on the north-east coast of England, though frequent on the west.

3. *S. acre*. Biting Stonecrop, Wall Pepper.

Sm. Eng. Fl. ii. 317; Eng. Bot. 839; Berwick Flora, 99; Curt. Lond. Fasc. i. t. 32; Woodv. Sup. t. 231; Hook. Fl. Scot. 140.

On walls and in sandy places, particularly near the sea coast.

There is a variety among the rocks on the brink of Crag Lake, hardly to be distinguished, but by the cauline leaves in the time of flowering, which then appear in an imbricated six-fold series on the stalks. —Wallis, 175. Can this be *Sedum sexangulare*?

4. *S. villosum*. Hairy Stonecrop.

Sm. Eng. Fl. ii. 319; Eng. Bot. 394; Gr. Fl. Eds. 101; With. ii. 563; Berwick Flora, 99.

By the Whey Syke in Teesdale Forest, and near Widdy Bank by the road that leads to Harwood Chase; also by ditches near Burtree Ford, Weardale, D. By rivulets both at the foot of Cheviot,

and running into the Coquet near the mill, south-east of Rothbury, N. Near Great Bavington.—Miss Emma Trevelyan. On Basaltic heights between Belford and Bamborough, N.—Thompson's Berwick Plants.

5. *S. album*. White Stonecrop.
Sm. Eng. Fl. ii. 319; Eng. Bot. 1573; Curt. Lond. Fasc. i. t. 31; With. ii. 564; Hook. Fl. Scot. 140.
On the Abbey Bridge near Barnardcastle, D.—Mr. E. Robson. Probably naturalized there.
6. *S. reflexum*. Crooked Yellow Stonecrop.
Sm. Eng. Fl. ii. 320; Eng. Bot. 695; Hook. Fl. Scot. 141; Berwick Flora, 99.
On walls and roofs of houses near Wycliffe and Winton-le-Wear, D. On rocks at Cocken, D.—Rev. J. Symons. On walls at Crook-oak and the ruins of Alnwick Abbey, N. On old walls at Lipwood, near Haydon-bridge, and on rocks at Tecket water-fall.—Wallis, 174. On the dyke at Kyloe Manse and at Easington, N.—Dr. G. Johnston.
7. *S. rupestre*. St. Vincent's Rock Stonecrop.
Sm. Eng. Fl. ii. 321; Eng. Bot. 170; With. ii. 566.
On walls about Darlington, D.—Mr. E. Robson. Certainly not indigenous. On precipices on the western Borders, by the rivulet of Irthing, near Wardreaw Spa, N.—Wallis 175.
I suspect this to be a mistake.

189. OXALIS.

1. *O. Acetosella*. Common Wood-sorrel.
Sm. Eng. Fl. ii. 323; Eng. Bot. 762; Berwick Flora, 99; Curt. Lond. Fasc. ii. t. 31; Woodv. t. 20; Hook. Fl. Scot. 141; β Dill. Ray's Syn. *281; With. ii. 567.
 α In woods and shady places; β in Ravensworth woods, D. In woods about Hexham, N.—Wallis, 200.

190. AGROSTEMMA.

1. *A. Githago*. Corn Cockle.
Sm. Eng. Fl. ii. 325; Eng. Bot. 741; Curt. Fasc. iii. t. 27; Hook. Fl. Scot. 141; Berwick Flora, 101.
In corn fields, not rare.

191. LYCHNIS.

1. *L. Flos Cuculi*. Ragged Robin, Meadow Lych-nis.
Sm. Eng. Fl. ii. 326; Eng. Bot. 573; Curt. Lond. Fasc. i. t. 33; Hook. Fl. Scot. 141; Berwick Flora, 100.
In moist meadows, frequent.
2. *L. diurna*. Red Campion.
Sibthorp, 145; Sym. Syn. 112; Berwick Flora, 100; *L. dioica* α , Eng. Bot. 1579; Curt. Lond. Fasc. ii. t. 32; Sm. Eng. Fl. ii. 328; With. ii. 569; Hook. Fl. Scot. 142.
In hedges, woods, and dunes, frequent.
3. *L. vespertina*. White Campion.
Sibthorp, 146; Sym. Syn. 112; Berwick Flora, 100; *L. sylvestris*, Lindley, 47; *L. dioica* β , Sm. Eng. Fl. ii. 328; Eng. Bot. 1580; With. ii. 569; γ Sm. Eng. Fl. ii. 329; flowers flesh-coloured.
In hedges and fields, seldom in woods.

Both *Lychnis diurna* and *Lychnis vespertina* are occasionally found with hermaphrodite flowers, particularly the variety γ of Smith.

192. CERASTIUM.

1. *C. vulgatum*. Broad-leaved Mouse-ear Chick-weed.
Sm. Eng. Fl. ii. 330; Eng. Bot. 789; Lightfoot, 240; Berwick Flora, 101; *C. viscosum*, Curt. Lond. Fasc. ii. t. 35; Hudson, 200.
On walls and dry banks, but not very common near Newcastle, N. and D. In the bed of Wooler Water, and on dykes at Earl, N.—Dr. Thompson.
2. *C. viscosum*. Narrow-leaved Mouse-ear Chick-weed.
Sm. Eng. Fl. ii. 330; Eng. Bot. 790; Lightfoot, 240; Berwick Flora, 101; *C. vulgatum*, Curt. Lond. Fasc. ii. t. 34; Hudson, 200.
On walls and in pastures, very common.
3. *C. scutellarioides*. Little Mouse-ear Chick-weed.
Sm. Eng. Fl. ii. 331; Eng. Bot. 1630; Berwick Flora, 101; Curt. Lond. Fasc. ii. t. 33; Hook. Fl. Scot. 143.
 β *C. pumilum*, Curt. Lond. Fasc. vi. t. 30; With. ii. 574.
 α On walls and sandy ground, not rare; β on walls at the Long Bank, near Gateshead Fell, D. On walls at Tynemouth, and in Gallowgate, Newcastle, N.
4. *C. tetrandrum*. Four-cleft Mouse-ear Chick-weed.
Sm. Eng. Fl. ii. 332; Curt. Lond. Fasc. vi. t. 31; Berwick Flora, 101; Hook. Fl. Scot. 143; *Sagina ccrastoides*, Eng. Bot. 166; With. ii. 299.
On the banks at Tynemouth, near the Spanish Battery, and on the links at Hartley, Bamborough, and Holy Island, N. On the links below Scremerston.—Thompson's Berwick Plants. On the Fern Islands and Spittal Links, N.—Dr. G. Johnston. On walls about Hartlepool, and on the coast at Shields Law, Whitburn, and near Sunderland north Pier, D.
5. *C. arvense*. Field Chick-weed.
Sm. Eng. Fl. iii. 333; Curt. Lond. Fasc. vi. t. 29; Eng. Bot. 93; With. ii. 573; Gr. Fl. Eds. 104; Berwick Flora, 102.
At Friar's Goose near Gateshead, on dry banks and heaths near Darlington, on Fulwell Hills, Marsden Rocks, and near Chester Bridge, D. On banks near the Chain Bridge over the Tweed, at Horncliffe, and near Coldstream, and on St. Peter's Quay, N., where it was observed by Wilson.—See Syn. 232. Near King's Mount Bastion, and Castle Bank, Berwick.—Dr. Thompson. On Spittal and Scremerston Links.—Dr. G. Johnston. On Alnwick Moor.—Mr. J. Davison. Near Wark on Tweed, N.—Lightfoot, i. 241.
6. *C. aquaticum*. Water Mouse-ear Chickweed.
Sm. Eng. Fl. ii. 335; Eng. Bot. 538; Curt. Lond. Fasc. i. t. 34; Hook. Fl. Scot. 144; With. ii. 575.
On Sunderland hallast-hills, D.—W. Weighell's Herb.

193. SPERGULA.

1. *S. arvensis*. Corn Spurrey.
Sm. Eng. Fl. ii. 336; Eng. Bot. 1535; Berwick Flora, 102; Curt. Lond. Fasc. v. t. 31; Hook. Fl. Scot. 144.
 β *S. pentandra*, Eng. Bot. 1536.

- α In corn fields, frequent; β on the sea coast south of Sunderland, D.—Mr. Backhouse.
2. *S. nodosa*. Knotted Spurrey.
Sm. Eng. Fl. ii. 338; Eng. Bot. 694; Curt. Lond. Fasc. iv. t. 34; Hook. Fl. Scot. 145; With. ii. 576; Berwick Flora, 102.
In bogs near Urpeth, near Fulwell-gate, and at Allansford, D. At Prestwick Carr, and Willington Quay, on the links at Bamborough, and by the Lough at Holy Island, N. At the east end of Bromley Lake, N.—Wallis, 214. On Goswick Links, N.—Dr. Thompson.
3. *S. subulata*. Fringed All-shaped Spurrey.
Sm. Eng. Fl. ii. 339; Eng. Bot. 1082; With. ii. 576; Berwick Flora, 103; Hook. Fl. Scot. 145; *S. laricina*, Lightfoot, 244; Hudson, 203; *S. saginoides*, Curt. Lond. Fasc. iv. t. 35.
On Spindleston and Easington rocks, N.—Dr. G. Johnston. On Whinneyfield Bank by Cullercoats near Tyne-mouth, N.—Lawson, Dill. Ray's Syn. 345.

DODECANDRIA MONOGYNIA.

194. ASARUM.

1. *A. europæum*. Common Asarabacca.
Sm. Eng. Fl. ii. 342; Eng. Bot. 1083; Woodv. t. 86; Hook. Fl. Scot. 146.
At Middleton, near Alnwick, N.—Miss Forster, delin.
Probably not originally indigenous.

195. LYTHRUM.

1. *L. Salicaria*. Spiked Purple Loosestripe.
Sm. Eng. Fl. ii. 343; Eng. Bot. 1061; Curt. Lond. Fasc. iii. t. 28; Hook. Fl. Scot. 147; Berwick Flora, 105.
On the banks of rivers and streams, by no means rare, N. and D. In the mill race in Heaton Dene, below Sandford, N. On the banks of Tweed above Norham.—Dr. G. Johnston.

DODECANDRIA DIGYNIA.

196. AGRIMONIA.

1. *A. Eupatoria*. Common Agrimony.
Sm. Eng. Fl. ii. 346; Eng. Bot. 1335; Woodv. Sup. t. 258; Curt. Lond. Fasc. v. t. 32; Hook. Fl. Scot. 147; Berwick Flora, 105.
In meadows, and on the borders of corn fields, but not very common.

DODECANDRIA TRIGYNIA.

197. RESEDA.

1. *R. Luteola*. Dyer's-weed, Yellow-weed, or Weld.
Sm. Eng. Fl. ii. 347; Eng. Bot. 320; Hook. Fl. Scot. 147; Berwick Flora, 105; With. ii. 585.
On the banks of hedges, and the rubbish about old coal pits, frequent.
2. *R. lutea*. Wild Mignonette, or Base Rocket.
Sm. Eng. Fl. ii. 348; Eng. Bot. 321; With. ii. 586; Gr. Fl. Eds. 105.

β Dill. Ray's Syn. 366.

α At the Salt Meadows below Gateshead, and between South Shields, and Monkwearmouth, D. By road sides near Hartley, Cullercoats, and Tyne-mouth, N. β on the ballast hills of Tyne and Wear, N. and D.

DODECANDRIA DODECAGYNIA.

198. SEMPERVIVUM.

1. *S. tectorum*. Common Houseleek.
Sm. Eng. Fl. ii. 350; Eng. Bot. 1320; Curt. Lond. Fasc. iii. t. 29; Hook. Fl. Scot. 149; Berwick Flora, 106.
On walls and cottage roofs.

ICOSANDRIA MONOGYNIA.

199. PRUNUS.

1. *P. Padus*. Bird Cherry.
Sm. Eng. Fl. ii. 354; Eng. Bot. 1383; With. iii. 598; Gr. Fl. Eds. 137; Berwick Flora, 108.
In woods and hedges, frequent. In woods about Hound Wood and Renton Inn, N.—Dr. G. Johnston.
2. *P. Cerasus*. Wild Cherry-tree.
Sm. Eng. Fl. ii. 354; Eng. Bot. 706; Berwick Flora, 109; Gr. Fl. Eds. 108; With. iii. 599.
 γ Ray's Syn. 2nd ed., 302.
 δ *P. avium*, With. iii. 600.
 α In woods and hedges, N. and D. Near Fleming-ton, N.—Dr. G. Johnston. γ on the banks of Tees about Barnardcastle.—Johnson in Ray. At Chowden, near Gateshead Fell, D. δ in woods about Darlington, D.—Rev. J. Symons.
3. *P. domestica*. Wild Plum-tree.
Sm. Eng. Fl. ii. 355; Eng. Bot. 1783; Woodv. t. 85; Gr. Fl. Eds. 108; With. ii. 600.
In hedges near Morpeth and Alnwick, N. In the neighbourhood of Urpeth, D. Near Witton Gilbert, D.—Rev. J. Symons.
Probably not originally indigenous in the north of England.
4. *P. insititia*. Wild Bullace-tree.
Sm. Eng. Fl. ii. 356; Eng. Bot. 841; With. iii. 600; Gr. Fl. Eds. 108.
In Ryehope Dene, and in hedges between Durham and Chester-le-Street, D.
5. *P. spinosa*. Sloe-tree, Black-thorn.
Sm. Eng. Fl. ii. 357; Eng. Bot. 842; Woodv. t. 84; Hook. Fl. Scot. 151; Berwick Flora, 109.
In hedges and thickets.

ICOSANDRIA PENTAGYNIA.

200. MESPILUS.

1. *M. Oxyacantha*. Hawthorn, White-thorn, May.
Sm. Eng. Fl. ii. 359; Eng. Bot. 2504; Berwick Flora, 109; *Crataegus Oxyacantha*, Hook. Fl. Scot. 151; *Crataegus monogyna*, Sibth. 156.
In woods and hedges, everywhere.

201. PYRUS.

1. *P. communis*. Wild Pear-tree, Iron Pear.
Sm. Eng. Fl. ii. 361; Eng. Bot. 1784; With. iii. 607.
In hedges near Cocken, D.—W. Weighell's Herb.
Probably not truly indigenous.
2. *P. Malus*. Wild Apple-tree, Crab-tree.
Sm. Eng. Fl. ii. 362; Eng. Bot. 179; Hook. Fl. Scot. 151; Berwick Flora, 110.
In woods, denes, and hedges, common.
3. *P. aucuparia*. Mountain Ash, Quicken-tree.
Sm. Eng. Fl. ii. 364; Hook. Fl. Scot. 151; Berwick Flora, 110; *Sorbus aucuparia*, Eng. Bot. 337; With. iii. 604.
In woods and plantations, common. Near the High Force, and Winch Bridge in Teesdale, D.; and at the foot of Cheviot, N. Certainly wild.
4. *P. Aria*. White Beam-tree, White Wild Pear-tree.
Sm. Eng. Fl. ii. 365; Eng. Bot. 1858; Gr. Fl. Eds. 110; *Cratægus Aria*, With. iii. 602.
β *P. pinnatifida*, Sm. Eng. Fl. ii. 365; Eng. Bot. 2331; *P. hybrida*, Fl. Brit. 534.
α In Castle Eden Dene, on rocks of Magnesian Limestone, and near Winch Bridge, Teesdale, on En-crinial Limestone and Basalt, D. β in plantations.
A variety usually raised by cultivation, and called the Bastard Mountain Ash.

202. SPIRÆA.

1. *S. salicifolia*. Willow-leaved Spiræa.
Sm. Eng. Fl. ii. 367; Eng. Bot. 1468; Hook. Fl. Scot. 152; With. iii. 609.
Naturalized in woods at Wallington, and by Roadley Lake, N. In Gibside woods near the Chapel, D.; but not indigenous as Dr. Smith was erroneously informed.—See Eng. Fl. ii. p. 369.
2. *S. Filipendula*. Common Dropwort.
Sm. Eng. Fl. ii. 368; Eng. Bot. 284; With. iii. 610; Hook. Fl. Scot. 152.
At Baydales, and Conniscliffe near Darlington, and in Byer's Quarry field near Whitburn, D. In Crag Close near Barweford, N.
This plant flourishes both on the Magnesian and En-crinial Limestone.
3. *S. Ulmaria*. Meadow-sweet.
Sm. Eng. Fl. ii. 368; Eng. Bot. 960; Hook. Fl. Scot. 152; Curt. Lond. Fasc. v. t. 33; Berwick Flora, 110.
On the banks of rivers and in moist meadows, frequent.

ICOSANDRIA POLYGYNIA.

203. ROSA.

1. *R. rubella*. Red-fruited Dwarf Rose.
Fruit oval, somewhat bristly. Flower stalks, bristly. Stem spreading, clothed with straight slender spines. Leaflets elliptical, smooth, singly serrated. Segments of the calyx entire.
Eng. Bot. 2521 and 2601, *Fruit* f. 3; With. iii. 613; Sm. Com. 78; Woods, Linn. Trans. xii. 177; Lindley, Mon. 40; Sm. Eng. Fl. ii. 374; Winch, Geog. Pl. 2nd ed., No. 1, App.; Hook. Br. Fl. 225.
Flowers white tinged with pink. Fruit, when

ripe, pear-shaped, scarlet, and pendant. Calyx permanent.

On the sands of the sea coast near South Shields, D., mixed with the dwarf variety of the *Burnet Rose*, rare.—July 17, 1797.

This shrub appears a link between *Rosa spinosissima* and *Rosa alpina*; the latter of which it greatly resembles in habit. It is not *Rosa pimpinellifolia* of the Swiss Botanists, as Mr. Woods conjectures; for, by a specimen procured from Schleicher, that plant appears to be *Rosa spinosissima*. Nor is it *Rosa spinosissima*, var. 3, of Withering, as I am assured by that gentleman.

2. *R. spinosissima*. Burnet Rose.

Fruit globose, smooth as well as the flower stalks. Stem clothed with numerous straight slender spines. Leaflets singly serrated, smooth and round.

Eng. Bot. t. 187; With. iii. 612; Winch, Geog. Pl., 2nd ed., No. 2, App.; Berwick Flora, 111; Hook. Br. Fl. 226; Fl. Scot. 154; Gr. Fl. Eds. 111; Woods, Linn. Trans. xii. 178; Fl. Brit. ii. 537; Lindley Mon. 50; Sm. Eng. Fl. ii. 375; *R. pimpinellifolia*, Linn. Syst. Nat. 10th ed., 1062; Schleicher's Catalogue, 24.

Flowers yellowish white. Fruit first reddish brown, as coloured in English Botany, and then turning black. Calyx permanent.

γ *pusilla*, Woods, Linn. Trans. xii. 179; Sm. Eng. Fl. ii. 376.

Flower stalks short. Fruit large, depressed.

The *Burnet Rose* is a shrub of a very diminutive growth on the sea beach (var. γ), but rises to a tall bush in woods and hedges distant from the coast. It is not very common, but occasionally to be found even in our sub-alpine vallies; and in the woods bordering the Lakes of Cumberland and Westmoreland. It may be met with about Newcastle, Corbridge, the Crag Lake, and on the coast at Holy Island, N. At Hebburn Quay, on the links near South Shields, at Norton; also in Wear-dale and Teesdale, D.

3. *R. gracilis*. Tall Bristly Rose.

Flower stalks bristly, generally bracteated. Branches, fruit and calyx bristly. Leaflets doubly serrated, hairy on both sides.

Woods, Linn. Trans. xii. 186; Sm. Eng. Fl. ii. 379; Winch, Geog. Pl., 2nd ed., No. 4, App.; *R. villosa*, Eng. Bot. t. 583.

β *R. Sabini*, Woods, Linn. Trans. xii. 188; Sm. Eng. Fl. ii. 380; Lindley Mon. 59; Hook. Fl. Scot. 155; Gr. Fl. Eds. 112; Hook. Br. Fl. 229; Eng. Bot. 2594; *R. Doniana*, Woods, Linn. Trans. xii. 185; Sm. Eng. Fl. ii. 378; Eng. Bot. 2601; *R. nivalis*, Hort. Cant. 7th ed., 155. *R. involuta*, Winch, Geog. Pl., 2nd ed., No. 3, App.

γ *R. involuta*, Eng. Bot. 2068; Fl. Brit. ii. 398; With. iii. 613; Woods, Linn. Trans. xii. 183; Sm. Eng. Fl. ii. 380; Hook. Fl. Scot. 154; Br. Fl. 229.

Flowers pink; generally one, but sometimes two or three together. Petals yellowish at the base. Fruit globular scarlet. Calyx permanent, entire.

α At Baydales, near Darlington, D. β in Heaton Dene, below Benton Bridge, and near Goldspink Hall, N. Near Middleton-one-Row, D.—Mr. J. Backhouse.

In *α gracilis* the large prickles are somewhat falcate; this is all the difference I can observe in the plants growing between Keswick and Lorton, from which Woods drew up his specific character, and *β Sabini* the variety found in Heaton Dene. We have not the elegant white variety with red glands, abundant in Ennerdale. With *γ involuta*, I am acquainted by specimens and plants procured on the shores of Arran by the late Mr. G. Don. It is merely a dwarf variety from growing on the sands of the sea coast, as is the case with *Rosa spinosissima* and its petals are occasionally involute, which in dry situations happens to most other roses.

4. *R. villosa*. Soft-leaved round-fruited Rose.

Fruit globose, half as long as the segments of the calyx, bristly as well as the flower-stalks.

Prickles of the stem straight. Leaflets elliptic, ovate, downy on both sides. Calyx permanent.

R. villosa, Woods, Linn. Trans. xii. 139; Winch, Geog. Pl. 2nd ed. No. 5 App.; Hook. Br. Fl. 230; With. iii. 612; Var. 2, Sm. Eng. Fl. ii. 311; *R. villosa*, *β* Fl. Brit. ii. 538; *R. mollis*, Eng. Bot. t. ii. 459; Winch, Geog. of Plants, 1st ed., 42; Lindley, Br. Syn. 100; *R. tomentosa*, Lindley, Mon. 77; Hook. Fl. Scot. 156; *R. villosa β, mollissima*, Willd. Sp. Pl. ii. 1070.

Very common about Newcastle, in hedges and woods. When this shrub grows on a sterile soil, or in a bleak exposed situation, it assumes the stunted habit and full red flower, as delineated in Eng. Bot. t. ii. 459. The fruit varies from smoothness to a considerable degree of roughness. *Rosa villosa*, of Dr. Swartz and other foreign botanists, is the Apple Rose of our gardens, which I believe is not indigenous in Britain. Its fruit is very large, and leaves pointed.

5. *R. tomentosa*. Downy-leaved Dog Rose.

Fruit ovate, bristly as well as the flower stalks. Prickles of the stem slightly curved. Leaflets doubly serrated, ovate, downy on both sides. Divisions of the calyx permanent.

Eng. Bot. t. 990; Fl. Brit. ii. 539; With. iii. 615; Woods, Linn. Tr. xii. 197; Lindley, Mon. 27; Sm. Eng. Fl. ii. 333; Berwick Flora, 111; Winch, Geog. Pl. 2nd ed., No. 6 App.; Hook. Br. Fl. 231.

Flowers bright red, paler at the base.

In woods and hedges about Newcastle, by no means rare.

6. *R. scabriuscula*. Rough-leaved Dog Rose.

Fruit, roundish, ovate, bristly as well as the flower stalks. Prickles awl-shaped, as well as the flower stalks. Leaflets doubly serrated, elliptical, with minute hairs. Divisions of the calyx permanent.

Eng. Bot. t. 1896; Woods, Linn. Trans. xii. 193; Sm. Compend. 78; With. iii. 615; Berwick Flora, 111; Winch, Geog. Pl., 2nd ed., No. 7, App.; *R. tomentosa α?* Hook. Br. Fl. 231; *R. tomentosa β*, Sm. Eng. Fl. ii. 333.

Fruit red. Bristles on the fruit and flower-stalks ending in minute glands; but there is a variety with smooth fruit. Leaflets are more pointed than represented in Eng. Bot. and covered with a hoary, velvety down.

In hedges near Benwell (1797), Paradise, Scotswood, Fenham, Jesmond, Ponteland, and Heaton Dene, N. Near Ravenshead, the High and Low Team,

and Tanfield, D. Near Wallington.—W. C. Trevelyan, Esq. On the banks of Tweed, above the Union Bridge, and in hedges near Berwick, N. —Dr. G. Johnston.

The buds are peculiarly handsome when sufficiently expanded to shew the bright red tints with which the outer edge of the snow-white petals is marked. Probably Sir J. E. Smith is right in considering this rose a variety of *Rosa tomentosa*; but I shall let it stand as a species, till the contrary be proved by sowing its seeds.

7. *R. Eglanteria*. Sweet Briar.

Fruit ob-ovate, bristly as well as the flower-stalks.

Leaves doubly serrated. Prickles of the stem hooked, clothed beneath with rusty-coloured glands. Segments of the calyx deciduous.

Huds. Fl. Ang. 218; Woods, Linn. Trans. xii. 206; Winch, Geog. Pl., 2nd ed., No. 3, App.; *R. rubiginosa*, Eng. Bot. 991; Fl. Brit. ii. 540; With. iii. 616; Sm. Eng. Fl. ii. 335; Lindley, Mon. 86; Hook. Fl. Scot. 157; Gr. Fl. Eds. 113; Hook. Br. Fl. 234; Berwick Flora, 112.

Flower pale red, fruit scarlet.

In hedges near the Friar's Goose and Hebburn Hall, also on rocks below Westoe, D. In Rocoe Lane near Monkwearmouth.—Rev. J. Symons. Near High Conniscliffe.—Mr. Janson. In Raby Park, D.—Mr. J. Backhouse. On the edge of the military road by the twelfth mile stone, also on the north side of the Coquet at Warkworth, almost opposite the church, N.—Wallis, 143. Naturalized about Scremerston and Broom House.—Dr. G. Johnston.

8. *R. Borreri*. Downy-stalked Dog Rose.

Fruit ovate, smooth. Flower-stalks villous, somewhat bristly, clustered. Prickles of the stem hooked. Leaflets ovate, doubly serrated, slightly hairy beneath. Foot-stalks very downy. Woods, Linn. Trans. xii. 210; Winch, Geog. Pl., 2nd ed., No. 9, App.; *R. dumetorum*, Eng. Bot. t. 2579; Sm. Compend. 79; With. iii. 618; Sm. Eng. Fl. ii. 333; *R. inodora*, Hook. Br. Fl. 233; *R. rubiginosa inodora*, Hook. Fl. Lond. t. 117.

♀ Lindley Mon. 88.

Fruit scarlet, ovate. Petals pale pink, yellowish at the base.

In a hedge on Friar's Goose Quay, probably brought with ballast from the south of England.

This rose is accurately delineated in the English Botany, but the calyx remains long on the fruit. Like *Rosa canina*, it frequently throws out long leading shoots, which soon overtop the bunches of flowers. In all likelihood Lindley was not in error in making it a variety of the Eglantine.

9. *R. dumetorum*. Thicket Rose.

Fruit elliptical, smooth, as tall as the bracteas.

Flower-stalks aggregate, slightly hairy. Calyx pinnate. Prickles numerous, scattered, hooked. Leaves simply serrated, hairy on both sides.

Woods, Linn. Trans. xii. 217; Sm. Eng. Fl. ii. 392; Lam. and De Cand. Fl. Fr. iv. 534; Eng. Bot. 2610; Winch, Geog. Pl. 2nd ed., No. 11, App.; *R. casia*, Sm. Eng. Fl. ii. 389; Woods, Linn. Trans. xii. 212; Eng. Bot. 2367; Hook. Br. Fl. 239; *R. canina ζ*, Hook. Fl. Scot. 157; *R. bracteosa*, Woods, Linn. Trans. xii. 216; Sm. Eng. Fl. ii. 391.

Bracteas serrated, pointed and leafy, longer than the flower-stalks, which are short and stout, sometimes four or five together. Tube of the calyx roundish. Segments pinnate, permanent. Flowers pale red. Styles prominent, hairy. Stigmas forming a round head. Fruit, red, globular.

In Heaton Dene, and hedges near Sandyford, N. Between Middleton and Langley Ford, N., and near Berwick.—Dr. G. Johnston.

10. *R. canina*. Common Dog Rose.

Fruit ovate, smooth as well as the flower-stalks. Prickles of the stem hooked. Leaflets ovate, pointed, very smooth, singly serrated.

Eng. Bot. 992; Fl. Brit. ii. 540; With. ii. 617; Woods, Linn. Trans. xii. 223; Sm. Eng. Fl. ii. 394; Hook. Fl. Scot. 157; Gr. Fl. Eds. 113; Winch, Geog. Pl. 2nd ed., No. 12, App.; Berwick Flora, 113.

Flowers pale pink, clustered, soon out-topped by the leading shoots of the shrub. Fruit scarlet, oval. Calyx deciduous. Leaves dark shining green. The young shoots very strong, armed with large hooked prickles.

β *R. Forsteri*. Downy-ribbed Dog Rose.

Sm. Eng. Fl. ii. 392; Eng. Bot. 2611; Berwick Flora, 113; *R. collina* β and γ, Woods, Linn. Trans. xii. 219; *R. canina* ε, Hook. Br. Fl. 236.

Ribs of the leaflets hairy.

α In every hedge. β near Berwick.—Dr. G. Johnston.

11. *R. sarmentacea*. Glaucon-leaved Dog Rose.

Calyx permanent. Fruit egg-shaped, smooth. Leaflets ovate, doubly serrated, glaucous.—Prickles hooked. Calyx deciduous.

R. sarmentacea, Woods, Linn. Trans. xii. 213; Swartz. MSS.; Sm. Eng. Fl. ii. 390; Eng. Bot. 2595; Berwick Flora, 112; Winch, Geog. Pl., 2nd ed., No. 13, App.; *R. canina* β, Hook. Br. Fl. 236; *R. glaucophylla*, Winch, Geog. Pl., 1st ed., 45; With. iii. 619.

In every hedge near Newcastle, both in Northumberland and Durham.

This is much slenderer, though less trailing Briar than *Rosa canina*; its flowers pale pink, growing in pairs or single, and its fruit large. It also further differs in habit, by not having young shoots sprouting beyond the blossoms, so as to give them the appearance of being axillary; and from *Rosa sentriosa* of Acharius (Stockholm Transactions) in the fruit being ovate, not globular. The leaves of the shrub are glaucous—peculiarly so in the spring of the year; and with reluctance I relinquish the name given to it in the first edition of the Geog. of Plants, for the less appropriate one of my late friend, Dr. Swartz. This rose stands exactly in the same predicament as *R. scabriuscula*, and I leave it as a species till ascertained to be a variety of *R. canina*, to which, it must be owned, it bears a strong resemblance.

12. *R. arvensis*. White-trailing Dog Rose.

Style united. Fruit globose, smooth as well as the flower-stalks. Leaves unequally serrated. Stem and leaf-stalks prickly. Flowers generally clustered. Prickles hooked.

Eng. Bot. t. 133; Fl. Brit. ii. 538; With. iii. 611; Woods, Linn. Trans. xii. 232; Sm. Eng.

Fl. ii. 396; Lindley, Mon. 112; Hook. Fl. Scot. 153; Gr. Fl. Eds. 114; Winch, Geog. Pl., 2nd ed., No. 14, App.; Hook. Br. Fl. 241; Var. β Hudson, 219, with only one flower.

Flowers white. Germen oblong. Fruit globose, deep red, terminated by the simple base of the styles. Calyx deciduous. Stems glaucous, sometimes the colour of mahogany.

In woods and hedges at Friar's Goose, near Gateshead, at Cocken, and between Norton and Sadberge, also near Marsden, D. At St. Anthon's, and in Elswick Dene near Newcastle, N. Between Broom House and Haggerstone, N.—Thompson's Berwick Plants.

The foreign Botanists do not seem to be well acquainted with this species, some of them considering it the same as *Rosa sempervirens*, from which it is easily distinguished by the more oval form and colour of its leaves, and the calyx being quite smooth. From Dr. Swartz I have received specimens of a rose named *Rosa arvensis*, but which resembled a small variety of *Rosa canina*, and is *Rosa agrestis* of Schleicher's Catalogue of Swiss Plants. The Ayrshire Rose, which may frequently be seen trained against walls, is scarcely a variety. When the plant grows upon a poor soil, and is weak, its flowers are not clustered, and it then becomes the var. β of Hudson's Flora Anglica and Ray's Synopsis.

204. RUBUS.

1. *R. fruticosus*. Common Bramble.

Sm. Eng. Fl. ii. 399; Eng. Bot. 715; With. ii. 622; Gr. Fl. Eds. 115; Berwick Flora, 114.

In hedges, but not very common.

2. *R. glandulosus*. Glandular Bramble.

Sm. Eng. Fl. ii. 403; Berwick Flora, 114; *R. Kohleri*, Eng. Bot. 2605; Lindley, Br. Syn. 94.

In Heaton Dene and hedges near Jesmond, N., not rare. Hedges near Berwick.—Dr. G. Johnston.

3. *R. idaeus*. Raspberry.

Sm. Eng. Fl. ii. 407; Eng. Bot. 2442; Woodv. t. 133; With. iii. 620; Hook. Fl. Scot. 159; Berwick Flora, 114.

In denes, woods, and by rivulets, not uncommon, N. and D. Among the Cheviot mountains, N. On Alnwick Moor, near Brislie Tower.—Mr. J. Davison. By the brook below Tecket, N.—Wallis, 143.

4. *R. corylifolius*. Hazel-leaved Bramble.

Sm. Eng. Fl. ii. 403; Eng. Bot. 327; Hook. Fl. Scot. 160; With. iii. 621; Berwick Flora, 114; *R. vulgaris*, Lindley, Br. Syn. 93.

The most common bramble in Northumberland and Durham. Near Berwick.—Dr. G. Johnston.

In woods and sheltered denes this shrub becomes almost an evergreen, and is then *Rubus macrophyllus* of Lindley's Synopsis, 93, and the Eng. Bot. t. 2625.

5. *R. casius*. Dew-berry.

Sm. Eng. Fl. ii. 409; Eng. Bot. 326; Hook. Fl. Scot. 160; With. iii. 620; Berwick Flora, 114.

In woods, hedges, and denes, but not common. On the banks of Tweed, beyond Ord Mill.—Dr. Thompson. The double-flowered variety, in Tecket Wood, by the path leading westward from the Rectory Dene Simonburn, N.—Wallis, 144.

6. *R. saxatilis*. Stone Bramble.

Sm. Eng. Fl. ii. 410; Eng. Bot. 2233; Gr. Fl. Eds. 115; With. iii. 623.

In Castle Eden Dene, on the banks of Tees at the

High Force, in Hown's Wood near Butsfield, and near Eglestone and Middleton, D. In Allendale, on the banks of Irthing, and on the rocks at Shewing Shields, N. In plantations north of Wallington, and about Harthurn banks.—Miss Emma Trevelyan. Near Whinety Mill, at West Dibden, Hexhamshire, N.—Wallis, 144.

7. *R. Chamamorus*. Mountain Bramble, or Cloud-berry.

Sm. Eng. Fl. ii. 412; Eng. Bot. 716; Gr. Fl. Eds. 115; Hook. Lond. t. 136; With. ii. 624; Berwick Flora, 115.

On Knoutberry Fell near Eglestone, D. In mosses above Allen Heads, on Kilhope Law, Hedgehope, and Cheviot, N. Above Knaresdale and Coan Wood, N.—Mr. J. Thompson. On Simonside, N.—Miss Emma Trevelyan. On Cronkley Fell in Teesdale.

205. FRAGARIA.

1. *F. vesca*. Wood Strawberry.
Sm. Eng. Fl. ii. 414; Eng. Bot. 1524; Hook. Fl. Scot. 162; Berwick Flora, 115.
In woods and denes.
2. *F. calycina*. Calycene Strawberry.
Loiseleur, Lindley, Br. Syn. 96; *F. grandiflora*, Thuil. i. 254; *F. vesca* γ, Lam. and De Cand. Fl. Fr. iv. 468; Hook. Br. Fl. 250.
In Northumberland.—Lindley.
I know nothing of this strawberry.

206. POTENTILLA.

1. *P. fruticosa*. Shrubby Cinquefoil.
Sm. Eng. Fl. ii. 416; Eng. Bot. 88; With. iii. 626; Ray's Syn. 256.
On the banks of Tees at Eglestone Abbey, at Winch Bridge, and at the High Force, Teesdale, D., where it was observed in Ray's time by Mr. Lawson.
The banks of Tees is the only part of the kingdom where this ornamental shrub grows wild, except in a ravine called the Devil's Sledge-gate in Wastdale Screes, in Cumberland; it was there detected by Mr. Bicheno.
2. *P. anserina*. Silver-weed, Wild Tansey.
Sm. Eng. Fl. ii. 417; Curt. Lond. Fasc. iii. t. 31; Eng. Bot. 861; Hook. Fl. Scot. 162; Berwick Flora, 115.
By road sides and on barren ground.
3. *P. argentea*. Hoary Cinquefoil.
Sm. Eng. Fl. ii. 418; Eng. Bot. 89; With. iii. 628; Gr. Fl. Eds. 116.
Between Sunderland and South Shields, and on Sunderland ballast-hills, D. Near Beaufront, Hexham, N.
4. *P. alpestris*. Orange Alpine Cinquefoil.
Sm. Eng. Fl. ii. 418; Hook. Br. Fl. 252; *P. aurea*, Eng. Bot. 561; Hook. Fl. Scot. 163; With. ii. 630.
On basaltic rocks at Winch Bridge, and near the Cauldron Snout, Teesdale, D. Near Corbridge Mill, N.
5. *P. verna*. Spring Cinquefoil.
Sm. Eng. Fl. ii. 420; Eng. Bot. 37; Gr. Fl. Eds. 117; With. ii. 630; Berwick Flora, 116.
On Spindleston hills, N.—Dr. G. Johnston.
6. *P. reptans*. Common Creeping Cinquefoil.
Sm. Eng. Fl. ii. 423; Eng. Bot. 862; Curt. Lond.

Fasc. i. t. 37; Woodv. t. 59; Hook. Fl. Scot. 163; Berwick Flora, 116.

By way sides and in pastures.

7. *P. Fragariastrum*. Strawberry-leaved Cinquefoil.
Sm. Eng. Fl. ii. 425; Berwick Flora, 116; *P. Fragaria*, Gr. Fl. Eds. 116; *Fragaria sterilis*, Eng. Bot. 1785; Curt. Lond. Fasc. iii. t. 30.
On hedge banks and in dry pastures.

207. TORMENTILLA.

1. *T. officinalis*. Common Tormentil, or Septfoil.
Sm. Eng. Fl. ii. 427; Eng. Bot. 863; Curt. Lond. Fasc. v. t. 35; Hook. Fl. Scot. 164; Berwick Flora, 116; *T. erecta*, Woodv. t. 9; Hudson, 225; *Potentilla Tormentilla*, Gr. Fl. Eds. 116.
On heaths, and barren pastures.
2. *T. reptans*. Trailing Tormentil.
Sm. Eng. Fl. ii. 428; Eng. Bot. 864; Hook. Fl. Scot. 164; With. iii. 632; Berwick Flora, 116; *Potentilla procumbens*, Gr. Fl. Eds. 117.
In the lane leading to Lumley Ford, D.—Rev. J. Symons. On a bank about a hundred yards west from Anick Grange, on the north side of the lane that leads to Hexham, N.—Wallis, 199.

208. GEUM.

1. *G. urbanum*. Common Avens, Herb Bennet.
Sm. Eng. Fl. ii. 429; Eng. Bot. 1400; Curt. Lond. Fasc. ii. t. 36; Hook. Fl. Scot. 165; Berwick Flora, 117; Woodv. Supp. 259.
β *G. intermedium*, With. iii. 634; *G. rivale* β, Sm. Fl. Brit. 555; *G. urbanum* β, Sm. Eng. Fl. ii. 429.
α In thickets, denes, and by hedges, not rare; β in Scotswood and Heaton Denes, N. Near Norton, and in woods at the Friar's Goose below Gateshead, also near Saltwellside, D. Near St. Helen's Well by Darlington, D.—Mr. E. Robson. In the vicinity of Wallington, N.—W. C. Trevelyan, Esq.
2. *G. rivale*. Water Avens.
Sm. Eng. Fl. ii. 430; Eng. Bot. 106; Berwick Flora, 117; Hook. Fl. Scot. 165; β *proliferus*, 2nd. var., With. iii. 634; *G. rivale* γ, Sm. Fl. Brit. 555.
α In damp woods and by the sides of rivulets; β in woods on the Irthing, near Wardrew, N. At Wallington, N.—W. C. Trevelyan, Esq. In Castle Eden Dene, D. Near Darlington, D.—Mr. E. Robson.

209. DRYAS.

1. *D. octopetala*. Mountain Avens.
Sm. Eng. Fl. ii. 432; Eng. Bot. 451; Hook. Fl. Scot. 165; With. iii. 635.
Near the Black Ark on Cronkley Fell, Teesdale.

210. COMARUM.

1. *C. palustre*. Marsh Cinquefoil.
Sm. Eng. Fl. ii. 433; Eng. Bot. 172; Hook. Fl. Scot. 165; With. iii. 635; Berwick Flora, 117.
In bogs, frequent.

POLYANDRIA MONOGYNIA.

211. CHELIDONIUM.

1. *C. majus*. Celandine.
Sm. Eng. Fl. iii. 4; Eng. Bot. 1581; Woodv.

Sup. t. 263; With. iii. 639; Hook. Fl. Scot. 167; Berwick Flora, 119.
In hedges near farm houses and villages.

212. GLAUCIUM.

1. *G. luteum*. Yellow Horned-Poppy.
Sm. Eng. Fl. iii. 6; Hook. Lond. t. 56; Gr. Fl. Eds. 119; Berwick Flora, 119; *Chelidonium glaucium*, Eng. Bot. 8; *C. luteum*, With. iii. 640.
A sea-side plant, but now completely naturalized on the ballast-bills of Tyne and Wear, N. and D. On Wallington ballast-hills, N., where Wallis observed it. At Seaton, D.—Mr. Backhouse.

213. PAPAVER.

1. *P. hybridum*. Mongrel Poppy.
Sm. Eng. Fl. iii. 9; Eng. Bot. 43; With. iii. 642.
In corn fields on the Magnesian Limestone about Whitburn, Cleadon, Fulwell, and Sunderland, D. Near Alnwick, D.—Miss Forster, delin.
This plant is not mentioned in the Flora Scotica.
2. *P. Argemone*. Long Rough-headed Poppy.
Sm. Eng. Fl. iii. 10; Eng. Bot. 643; Curt. Lond. Fasc. v. t. 38; Hook. Fl. Scot. 168; Berwick Flora, 120.
In corn fields.
3. *P. dubium*. Long Smooth-headed Poppy.
Sm. Eng. Fl. iii. 10; Eng. Bot. 644; Curt. Lond. Fasc. v. t. 37; Hook. Fl. Scot. 168; Berwick Flora, 120.
In corn fields, not rare.
4. *P. Rhæas*. Common Red Poppy, Corn Rose.
Sm. Eng. Fl. iii. 11; Eng. Bot. 645; Berwick Flora, 120; Curt. Lond. Fasc. iii. 32; Woody. t. 186; Hook. Fl. Scot. 168.
β Var. *flore albo*.
α In corn fields, common. β near Norton.—J. Hogg, Esq.
5. *P. somniferum*. White Poppy.
Sm. Eng. Fl. iii. 11; Eng. Bot. 2145; Woody. t. 185; Hook. Fl. Scot. 168; With. iii. 645.
On the ballast-hills of Tyne and Wear, N. and D. Near Seaton.—Mr. J. Backhouse; and Norton, D.—J. Hogg, Esq.
A native of the Levant, with but slight claim to be enumerated as an English plant.

214. NYMPHÆA.

1. *N. alba*. White Water-lily.
Sm. Eng. Fl. iii. 14; Eng. Bot. 160; Hook. Lond. t. 140; With. iii. 647; Gr. Fl. Eds. 120.
In Greenley and Broomley Lakes, near Shewing Shields, N. In Grindon Lake.—Wallis, 238. Naturalized in the ponds at Wallington, N.

215. NUPHAR.

1. *N. lutea*. Common Yellow Water-lily.
Sm. Eng. Fl. iii. 15; Hook. Lond. t. 141; Fl. Scot. 169; Berwick Flora, 120; *Nymphaea lutea*, Eng. Bot. 159; With. iii. 646.
β *N. pumila*. Least Yellow Water-lily.
Sm. Eng. Fl. iii. 16; Wahl. Fl. Lapp. 151; Hook. Lond. t. 165; *N. minima*, Eng. Bot. 2292; *N. Kalmiana*, Hook. Fl. Scot. 169; *Nymphaea lutea*, var. 2, With. iii. 647.

α In the Pont, Ouse Burn, and in ponds at Widehaugh, near Dilston, also in the Loughs near Shewing Shields: naturalized in ponds at Wallington, N. In ponds at Park House, and in the Skerne near Darlington, D. Near Norton.—J. Hogg, Esq. β in Chartner's Lough, on the Wallington moors, N.—Sir John Trevelyan, Bart.

Some years since the Least Yellow Water-lily was transplanted from the Sub-alpine moors into the ponds at Wallington, where it now scarcely differs from the common Water-lily; in both varieties, at least I consider them as such, the stigma is entire when young, but becomes toothed as it grows older.

216. TILIA.

1. *T. europæa*. Lime-tree, Linden-tree.
Sm. Eng. Fl. iii. 17; Eng. Bot. 610; Lightfoot, 280.
In woods and plantations, scarcely indigenous.
2. *T. grandifolia*. Broad-leaved Downy Lime-tree.
Sm. Eng. Fl. iii. 18; Hook. Br. Fl. 259; *T. europæa* δ, Sm. Fl. Br. 571.
At Wallington, N.—W. C. Trevelyan, Esq. Probably planted there.
3. *T. parvifolia*. Small-leaved Lime-tree.
Sm. Eng. Fl. iii. 20; Hook. Br. Fl. 259; Eng. Bot. 1705; *T. europæa* β, Sm. Fl. Brit. 571, var. 2; With. iii. 648.
At Wallington, N.—W. C. Trevelyan, Esq. Probably planted there.

217. CISTUS.

1. *C. marifolius*. Hoary Dwarf Cistus.
Sm. Eng. Fl. iii. 23; Eng. Bot. 396; With. iii. 649; Hook. Lond. t. 171; Davies' Welsh Bot. 53; *Helianthemum canum*, Dunal. Lindley, Br. Syn. 36; Hook. Br. Fl. 257.
Near the Black Ark on Cronkley Fell, Teesdale; its northern limits.
2. *C. Helianthemum*. Common Dwarf Cistus.
Sm. Eng. Fl. iii. 26; Eng. Bot. 1321; Curt. Lond. Fasc. v. t. 36; With. iii. 651; Hook. Fl. Scot. 170; Berwick Flora, 120; *Helianthemum vulgare*, Hook. Br. Fl. 258.
On limestone hills at the Lizards, and near Sunderland, also in Castle Eden Dene, and at Winch Bridge in Teesdale, D. On the moor to the north of Hartlepool, and in Close Wood, D.—J. Hogg, Esq. On the banks of Tyne at Whitley Point, by the road side near Walbottle Dene, on the Basaltic rocks and on the Roman wall at Shewing Shields, above Crag Lake (*C. marifolius* of Wallis, 208), near Warden Mills, at Dunstanborough, and on the Heugh at Holy Island, N. East side of the bridge at Barwescford, near Chipchase.—Wallis, 208. On the Chapel Hill at Belford, and on Basaltic beights between it and Bamborough, N.—Thompson's Berwick Plants.

POLYANDRIA TRIGYNIA.

218. DELPHINIUM.

1. *D. Consolida*. Field Larkspur.
Sm. Eng. Fl. iii. 30; Eng. Bot. 1839; With. iii. 655; Hook. Br. Fl. 261.

On the ballast-hills of Tyne and Wear, N. and D. In a clover field near the Lough on Holy Island, N.; probably introduced from the Continent. In corn fields at Norton.—J. Hogg, Esq. In a limestone quarry near Bishopwearmouth, D.—Mr. Backhouse.

Not truly indigenous in the north of England, nor mentioned in the Flora Scotica by Hooker.

POLYANDRIA PENTAGYNIA.

219. AQUILEGIA.

1. *A. vulgaris*. Common Columbine.
Sm. Eng. Fl. iii. 33; Eng. Bot. 297; With. iii. 657; Gr. Fl. Eds. 121; *A. alpina*, Hudson, 235.
By the Ousebourn in Heaton Dene (probably the outcast of a garden), and on the banks of the river Derwent near Allans-ford, N. In Willington Dene, by the path from Wallsend, and in Dilston Park near Hexham, N.—Wallis, 165. In the dene below Dalton-le-Dale, near Middleton-in-Teesdale, at Baydales near Darlington, in Castle Eden Dene, by Pontburn near Medomsley, and at Barley Haugh near Ebchester, D. In Hestledon Dene and in Portrack Lane, half way to Norton, D.—John Hogg, Esq.
So truly distinct did the *Columbine*, in its wild state, appear to Hudson from the cultivated variety that he mistook it for *Aquilegia alpina* of Linnaeus. His *Aquilegia vulgaris*, I suspect, must have been intended for the garden plant which is not rare in the south of England, but generally found in the vicinity of cottages.

220. STRATIOTES.

1. *S. aloides*. Water Aloe, Water-soldier.
Sm. Eng. Fl. iii. 34; Eng. Bot. 379; With. iii. 657; Hook. Fl. Scot. 171.
Naturalized in the ponds at Wallington and north of Cambo, N. Brought from the south of England.

POLYANDRIA POLYGYNIA.

221. ANEMONE.

1. *A. nemorosa*. Wood Anemone.
Sm. Eng. Fl. iii. 36; Eng. Bot. 355; Curt. Lond. Fasc. ii. t. 33; Hook. Fl. Scot. 171; Berwick Flora, 121.
In woods and denes frequent.

222. CLEMATIS.

1. *C. vitalba*. Traveller's Joy.
Sm. Eng. Fl. iii. 39; Eng. Bot. 612; Curt. Lond. Fasc. iv. t. 37; Hook. Fl. Scot. 171; With. iii. 662.
Naturalized on St. Anthon's and Willington ballast hills, N. On Hebburn ballast hills, D.—Mr. J. Thornhill, jun.
This elegant plant does not appear to be a native of the north of England, even on the Magnesian Limestone, where it might be expected.—See Dr. Hooker's remarks in the Fl. Scot. 171.

223. THALICTRUM.

1. *T. alpinum*. Alpine Meadow Rue.
Sm. Eng. Fl. iii. 40; Eng. Bot. 262; Lightfoot, 286 t. xiii. f. 1; With. iii. 662.

VOL. II.

Near Cauldron Snout by the path that leads from thence to Widdy Bank, D. Also upon Cronkley Fell, Teesdale.

2. *T. minus*. Lesser Meadow Rue.
Sm. Eng. Fl. iii. 41; Eng. Bot. 11; Gr. Fl. Eds. 123; With. iii. 663; Berwick Flora, 121.
On the links of the sea coast at Tynemouth, Cullercoats, Hartley, Blyth, Newbiggin, Holy Island, and Berwick, N. At South Shields, Castle Eden, Hartlepool, and Seaton, also on Limestone Crags at Hilton Ferry, D. On the banks of Tweed opposite Spring Gardens, on Spittal Links, and banks beyond Hudshead.—Thompson.
3. *T. majus*. Greater Meadow Rue.
Sm. Eng. Fl. iii. 42; Eng. Bot. 611; With. iii. 664; Berwick Flora, 121.
On the banks of Tees near Barnardcastle, and a little above the foot of Middleton Beck, also near Egglestone, and at Baydales in the vicinity of Darlington, and at Coatham, D.
4. *T. flavum*. Common Meadow Rue.
Sm. Eng. Fl. iii. 42; Eng. Bot. 367; Berwick Flora, 121; Hook. Fl. Scot. 172; With. iii. 663.
On the banks of Tyne above Ovingham, N. On the banks of Wear near Ayre's Quay, and of Team near Lamesley, D. In moist meadows near Hell Kettles, Darlington, D.—John Hogg, Esq.

224. ADONIS.

1. *A. autumnalis*. Corn Pheasant's-eye or Adonis flower.
Sm. Eng. Fl. iii. 43; Eng. Bot. 308; Curt. Lond. Fasc. ii. t. 37; Hook. Fl. Scot. 172; With. iii. 665.
In a potatoe-field near Norton, D.—J. Hogg, Esq.
This pretty annual has but slight claim to be considered indigenous in the north of England.

225. RANUNCULUS.

1. *R. flammula*. Lesser Spear-wort.
Sm. Eng. Fl. iii. 45; Eng. Bot. 387; Berwick Flora, 122; With. iii. 667; Curt. Lond. Fasc. vi. t. 37; Hook. Fl. Scot. 174; δ *reptans*, Lightfoot, 289; fig. in title page.
 α In marshy places frequent. δ by the Loughs at Shewing Shields and Holy Island, N. On Alnwick Moor.—Mr. J. Davison.
2. *R. lingua*. Great Spear-wort.
Sm. Eng. Fl. iii. 46; Eng. Bot. 100; Berwick Flora, 122; Hook. Fl. Scot. 173; Lond. t. 171; With. iii. 668; Robson's Flora, 199.
In ditches at Prestwick Carr, in ponds at Wide Haugh near Dilston, and in bogs at the west end of Little Cow Lake, N. In the pond at Spindlestone, N.—Dr. G. Johnston. At Newham Lough, N.—Miss Forster, delin. Near Darlington, D.
3. *R. Ficaria*. Pilewort, Lesser Celandine.
Sm. Eng. Fl. iii. 47; Eng. Bot. 584; Curt. Lond. Fasc. ii. t. 39; Hook. Fl. Scot. 174; Berwick Flora, 122; *Ficuria ranunculoides*, Gr. Fl. Eds. 126.
In woods and on the banks of hedges, frequent.
4. *R. auricomus*. Wood Crow-foot, Goldilocks.
Sm. Eng. Fl. iii. 47; Eng. Bot. 624; Curt. Lond. Fasc. ii. t. 41; Hook. Fl. Scot. 174.
In woods and shady places, not rare.

L

5. *R. scelerotus*. Water Crow-foot, Celery-leaved Crow-foot.
Sm. Eng. Fl. iii. 48; Eng. Bot. 631; Curt. Lond. Fasc. ii. t. 24; Hook. Fl. Scot. 174; Berwick Flora, 122.
In watery places, frequent.
6. *R. bulbosus*. Bulbous Crow-foot, Butter-cups.
Sm. Eng. Fl. iii. 49; Eng. Bot. 515; Curt. Lond. Fasc. i. t. 38; Hook. Fl. Scot. 175; Berwick Flora, 123.
β flore plena.
α In meadows and pastures everywhere. *β* in Hulne Park, Alnwick, N.—Miss Forster, delin.
7. *R. hirsutus*. Pale Hairy Crow-foot.
Sm. Eng. Fl. iii. 50; Curt. Lond. Fasc. ii. t. 40; Eng. Bot. 1504; Hook. Fl. Scot. 175; With. iii. 672; *R. Philenotis*, Ehrh. Lindley, Brit. Syn. 11.
On St. Anthon's ballast hills, N. On Sunderland ballast hills, D.
8. *R. repens*. Creeping Crow-foot.
Sm. Eng. Fl. iii. 51; Eng. Bot. 516; Curt. Lond. Fasc. iv. t. 38; Hook. Fl. Scot. 175; Berwick Flora, 123.
In moist meadows and near ditches, everywhere.
9. *R. acris*. Upright Meadow Crow-foot.
Sm. Eng. Fl. iii. 51; Eng. Bot. 652; Berwick Flora, 123; Curt. Lond. Fasc. i. t. 39; Hook. Fl. Scot. 174; Woodv. Supp. t. 246.
β flore pleno.
α In meadows and pastures everywhere. *β* in meadows at Mill-green near Ravensworth, D.
10. *R. arvensis*. Corn Crow-foot.
Sm. Eng. Fl. iii. 52; Eng. Bot. 135; Curt. Lond. Fasc. vi. t. 36; Hook. Fl. Scot. 175; Berwick Flora, 123.
In corn-fields, not uncommon.
11. *R. parviflorus*. Small-flowered Crow-foot.
Sm. Eng. Fl. iii. 53; Eng. Bot. 120; With. iii. 670.
By the road side between Cockerton and Norton, D.—Mr. Backhouse. Its most northern locality.
12. *R. hederaceus*. Ivy Crow-foot.
Sm. Eng. Fl. iii. 54; Eng. Bot. 2003; Curt. Lond. Fasc. iv. t. 39; Hook. Fl. Scot. 173; Berwick Flora, 123.
In rivulets and ditches.
13. *R. aquatilis*. Water Crow-foot.
Sm. Eng. Fl. iii. 54; Eng. Bot. 101; Hook. Fl. Scot. 173; Berwick Flora, 124.
β, Ray's Syn. 249; *δ* 250; *R. pantothrix*, De Cand. Lindley, Brit. Syn. 12.
α and *β* In ponds and ditches. *δ* in rivers.
226. TROLLIUS.
T. europæus. Globe-flower.
Sm. Eng. Fl. iii. 56; Eng. Bot. 28; With. iii. 675; Gr. Fl. Eds. 127; Berwick Flora, 124.
In Ravensworth woods, Heaton Dene, and Shipley woods, in Teesdale; also near Belford, Alnwick, and Morpeth, and in most of the moist woods, and on the banks of numerous rivulets in N. and D. In moist mountainous woods, abundant.—Wallis. At Catcherside, Roadley, and Long-witton, N.—W. C. Trevelyan, Esq. Near Norton, D.—John Hogg, Esq. In moist meadows in the vicinity of Berwick.—Dr. G. Johnston.

227. HELLEBORUS.

1. *H. viridis*. Green Hellebore.
Sm. Eng. Fl. iii. 57; Eng. Bot. 200; Curt. Lond. Fasc. vi. t. 34; Hook. Fl. Scot. 176; With. iii. 675.
Upon the banks of the Tees near Whorlton.—Rev. J. Harriman. Near Piercebridge, D.—Mr. Backhouse. In the Abbey grounds at Alnwick, N.—Miss Forster, delin.
2. *H. fœtidus*. Stinking Hellebore, Bear's-foot, Setter-wort.
Sm. Eng. Fl. iii. 58; Eng. Bot. 613; Woodv. t. 19; Gr. Fl. Eds. 127; With. iii. 676.
Upon the banks of Tees a little below Winston Bridge, D.—Rev. J. Harriman. In a wood on the north side of Tyne a little above the Chain Bridge near Hexham, N.—Mr. A. Hancock, Sp.

228. CALTHA.

1. *C. palustris*. Marsh Marygold.
Sm. Eng. Fl. iii. 59; Eng. Bot. 506; Curt. Lond. Fasc. i. t. 40; Berwick Flora, 125; Hook. Fl. Scot. 176.
β De Cand. Syst. i. 309; *C. radicans*, Hook. Fl. Scot. and Gr. Fl. Eds. 127; but not of Forster in Linn. Tr. viii. 324 t. 17, nor of Smith in Eng. Bot. 2175.
α In marshy meadows, and by ponds and rivers. *β* on the margins of the Loughs near Shewing-shields, N. On Egglestone Fell, Teesdale, D.
I believe the late James Dickson was the only botanist who ever found *Caltha radicans* wild; but in what part of Scotland I know not. It still keeps its habit, and the triangular shape of its leaves, in the Botanic Gardens of Edinburgh and Cambridge, and with Edward Forster, Esq. in Essex; and certainly is entitled to rank as a species. Our plant is only a small variety of *C. palustris*.

DIDYNAMIA GYMNASPERMIA.

229. AJUGA.

1. *A. reptans*. Common Bugle.
Sm. Eng. Fl. iii. 65; Eng. Bot. 439; Hook. Fl. Scot. 179; Curt. Lond. Fasc. ii. t. 43; Berwick Flora, 129.
In woods and moist pastures, common.
Ajuga alpina was never found in the county of Durham.—See Sm. Eng. Fl. iii. 66.

230. TEUCRIUM.

1. *T. Scorodonia*. Wood Germander, Wood Sage.
Sm. Eng. Fl. iii. 68; Eng. Bot. 1543; Curt. Lond. Fasc. v. t. 10; Hook. Fl. Scot. 180; Berwick Flora, 129.
In dry woods and on hedge banks, not rare.
2. *T. Chamædryas*. Wall Germander.
Sm. Eng. Fl. iii. 69; Eng. Bot. 680; Woodv. Supp. t. 243; With. iii. 684; Hook. Fl. Scot. 180.
On old hedge banks near Gateshead Park engine, D.

231. NEPETA.

1. *N. cataria*. Nep, or Cat-mint.
Sm. Eng. Fl. iii. 70; Eng. Bot. t. 137; Hook. Fl. Scot. 180; With. iii. 686.

On hedge banks at Ovingham, Bywell, the Riding, and Tyne Green near Hexham; also in the neighbourhood of Chirton, N. In a hedge at Netherwarden, and about Hexham, N.—Wallis, 168. On the ruins of Langley Hall near Witton Gilbert, at West Boldon, and in lanes near Sunderland and Haughton, D.

232. VERBENA.

1. *V. officinalis*. Common Vervain.
Sm. Eng. Fl. iii. 71; Eng. Bot. 767; Woodv. Supp. t. 218; Curt. Lond. Fasc. i. t. 41; With. iii. 687; Hook. Fl. Scot. 190.
On the banks of Tyne at Bywell, where it was observed by Wallis (p. 168), at Corbridge Mill, and the Riding, N. Near Stainton, Bishopton, Darlington, and in the west lane at Chester-le-street, D. Near Norton.—John Hogg, Esq.

233. MENTHA.

1. *M. rotundifolia*. Round-leaved Mint.
Sm. Eng. Fl. iii. 74; Eng. Bot. 446; With. iii. 689; *M. sylvestris*, Sole, Menth. 7. t. 3.
In the lane between Pittington and Elemore where the Sunderland road turns off, D.—Rev. Jas. Dalton. Near Ponteland, N.
2. *M. viridis*. Spear Mint.
Sm. Eng. Fl. iii. 75; Eng. Bot. 2424; Woodv. Supp. t. 170; With. iii. 689; Sole, Menth. 11 t. 5.
β Ray Syn. 1st ed., 79.
α On the east side of the hourn in Blackstone-bank wood, four miles north of Wolsingham, D. By the Tees near Neisham, D.—Mr. Backhouse. *β* in neglected gardens and orchards about Newcastle, N.
3. *M. piperita*. Pepper Mint.
Sm. Eng. Fl. iii. 76; Eng. Bot. 687; Woodv. 169; Berwick Flora, 129; *M. piperita officinalis*, Sole, Menth. 15, t. 7.
β *M. piperita vulgaris*, Sole, Menth. 19, t. 8.
α Near Mason Dinnington and Stannington, N. *α* and *β* in Dene Lane, Castle Eden, D.—Mr. Backhouse.
4. *M. citrata*. Bergamot Mint.
Sm. Eng. Fl. iii. 78; Willd. Sp. Pl. iii. 79; *M. odorata*, Sole, Menth. 21, t. 9; Eng. Bot. 1025; With. iii. 692.
In neglected orchards and near cottage gardens, not truly indigenous.
5. *M. hirsuta*. Hairy Mint.
Sm. Eng. Fl. iii. 78; Eng. Bot. 447; Hook. Lond. t. 166; Fl. Scot. 180; *M. aquatica*, major and minor, Sole, Menth. 25, t. 11 and xxiii. t. 10; Berwick Flora, 129.
By ditches and in watery places, not rare.
6. *M. rubra*. Tall Red Mint.
Sm. Eng. Fl. iii. 82; Eng. Bot. 1413; With. iii. 695; Berwick Flora, 130; *M. sativa*, Sole, Menth. 47, t. 21.
On the banks of Team near the High Forge, D. By the pont above Ponteland, N. On the banks of the Ganness, in the Bishop's Park, Bishop-Auckland, D.—Mr. W. Backhouse.
7. *M. gentilis*. Bushy Red Mint.
Sm. Eng. Fl. iii. 83; Eng. Bot. 2118; With. iii. 695; *M. rubra*, Sole, Menth. 41, t. 18; Berwick Flora, 130.

γ *M. variegata*, Sole, Menth. 43, t. 19.
α On the banks of Team near the High Forge, D. On the banks of Blyth below Stannington Bridge, N. By the road side near Winston, D.—Mr. W. Backhouse. In the bed of the Wooler water near the Haugh Head. *γ* by the side of the water course above the Carding Mill at Wooler, N.—Dr. G. Jobston. About villages, but scarcely wild, N. and D.

8. *M. arvensis*. Corn Mint.
Sm. Eng. Fl. iii. 85; Eng. Bot. 2119; Hook. Fl. Scot. 181; Berwick Flora, 130; Sole, Menth. 29, t. 12; With. iii. 697.
δ Sm. Eng. Fl. iii. 86; With. iii. 697, var. 3.
α In corn fields about Beamish, Cawsey, Urpeth, and Darlington, D. In the vicinity of Berwick.—Dr. G. Johnston. *δ* by ditches near the west end of Prestwick Carr, N.
9. *M. agrestis*. Rugged Field Mint.
Sm. Eng. Fl. iii. 87; Sole, Menth. 33, t. 14; Eng. Bot. 2120; *M. arvensis* *ε*, Sm. Fl. Brit. 624; With. iii. 697, var. 4.
In Cawsey Dene, also near Beamish, and on the banks of Team near Lamesley, D.
10. *M. Pulegium*. Penny-royal.
Sm. Eng. Fl. iii. 87; Eng. Bot. 1026; Sole, Menth. 51, t. 23; Hook. Fl. Scot. 181; With. iii. 698; Woodv. t. 171.
On the borders of a pond at Winston, D.—Rev. J. Harriman.

234. GLECHOMA.

1. *G. hederacea*. Ground Ivy, Gill. Ale-hoof.
Sm. Eng. Fl. iii. 88; Eng. Bot. 853; Curt. Lond. Fasc. ii. 44; Woodv. t. 28; Hook. Fl. Scot. 181; Berwick Flora, 131.
On hedge banks and in shady places.

235. LAMIUM.

1. *L. album*. White Archangel, White Dead-nettle.
Sm. Eng. Fl. iii. 89; Eng. Bot. 763; Curt. Lond. Fasc. ii. t. 45; Hook. Fl. Scot. 181.
In waste ground, everywhere.
2. *L. purpureum*. Red Archangel, or Red Dead-nettle.
Sm. Eng. Fl. iii. 91; Eng. Bot. 769; Curt. Lond. Fasc. i. t. 42; Hook. Fl. Scot. 181.
On waste ground, everywhere.
3. *L. incisum*. Cut-leaved Dead-nettle, or Archangel.
Sm. Eng. Fl. iii. 91; Eng. Bot. 1933; With. iii. 700; Hook. Fl. Scot. 182; Gr. Fl. Eds. 130; Berwick Flora, 131.
In waste places about Darlington, D. Near Alnwick, Belford, and Hexham, N. In the neighbourhood of Berwick, frequent.—Dr. G. Johnston. On Sunderland ballast hills, D.—W. Weighell's Herb.
Probably a variety of *L. purpureum*.
4. *L. amplexicaule*. Henbit Archangel, Great Henbit.
Sm. Eng. Fl. iii. 92; Eng. Bot. 770; Curt. Lond. Fasc. ii. t. 46; With. iii. 701; Gr. Fl. Eds. 130; Berwick Flora, 131.
On hedge banks at East Morton, at the Salt Meadows near Gateshead, and near Whitburn and Darlington, D. At Norton, D.—John Hogg, Esq. On old walls near Ovingham, also at Wylam, Hexham,

and Alnwick, N. At Spittal-point, N.—Thompson's Berwick Plants. About Berwick, common.—Dr. G. Johnston.

236. GALEOPSIS.

1. *G. Ladanum*. Red Hemp-nettle.
Sm. Eng. Fl. iii. 93; Eng. Bot. 884; With. iii. 701; Gr. Fl. Eds. 131.
On the Magnesian Limestone at Whitburn, Fulwell, Easington, and Castle Eden, D. Near Darlington, D.—Mr. E. Robson.
2. *G. Tetralix*. Common Hemp-nettle.
Sm. Eng. Fl. iii. 94; Eng. Bot. 207; Hook. Fl. Scot. 182; Berwick Flora, 132.
In corn, potatoe, and turnip fields, common.
3. *G. versicolor*. Large-flowered, Hemp-nettle, Bee-nettle.
Sm. Eng. Fl. iii. 95; Eng. Bot. 667; Berwick Flora, 132; Curt. Lond. Fasc. vi. t. 38; Gr. Fl. Eds. 131; *G. cannabina*, With. iii. 703.
 γ Dill. Ray Syn. 240.
 α On the banks of North Tyne at Low Park-end near Nunwick, in corn fields between Newcastle and Jesmond, also near the Minories, N. About Tynemouth and Elsdon.—Miss Emma Trevelyan. In a field at the high end of Pandon Dene.—Wilson, Syn. 95. Near Wooler.—Mrs. J. Johnston. Below Langley Ford.—Dr. G. Johnston. Near Alnwick.—Miss Pringle, Sp. In corn fields between Halystone and Harbottle Castle; also on the banks of North Tyne near Smales-mouth, N.—Wallis, 167. In fields near Gateshead, D. γ in corn fields between Newcastle and Jesmond, N.

237. BETONICA.

1. *B. officinalis*. Wood Betony.
Sm. Eng. Fl. iii. 97; Eng. Bot. 1142; Curt. Lond. Fasc. iii. t. 33; Woodv. t. 241; Hook. Fl. Scot. 183; Berwick Flora, 132.
In woods and denes, frequent.

238. STACHYS.

1. *S. sylvatica*. Hedge Woundwort.
Sm. Eng. Fl. iii. 98; Eng. Bot. 416; Curt. Lond. Fasc. iii. t. 34; Hook. Fl. Scot. 183; Berwick Flora, 133.
In woods, denes, and shady hedges, common.
2. *S. ambigua*. Ambiguous Woundwort.
Sm. Eng. Fl. iii. 99; Eng. Bot. 2089; Hook. Fl. Scot. 183; Gr. Fl. Eds. 132.
In fields at Burdon Mills, and by the Skerne near Darlington, D.—Mr. Backhouse. On the banks of Tyne near Hexham, N.
3. *S. palustris*. Marsh Woundwort.
Sm. Eng. Fl. iii. 99; Eng. Bot. 1675; Curt. Lond. Fasc. iii. t. 35; Hook. Fl. Scot. 183; Berwick Flora, 133.
On the banks of rivers, and in wet meadows, frequent.
4. *S. urvensis*. Corn Woundwort.
Sm. Eng. Fl. iii. 100; Eng. Bot. 1154; Curt. Lond. Fasc. iv. t. 41; With. iii. 707; Gr. Fl. Eds. 132; Berwick Flora, 133.
In neglected gardens and on waste ground at Hexham, in fields near Ridley Hall, and near the Barras Bridge, Newcastle, N. On the ballast hills of Tyne and Wear, N. and D. Near Berwick.—Thompson.

239. BALLOTA.

1. *B. nigra*. Black or Stinking Horehound.
Sm. Eng. Fl. iii. 101; Eng. Bot. 46; Hook. Fl. Scot. 184; Berwick Flora, 133.
 β *B. alba*, Linn. Sp. Pl. ii. 814; *B. nigra β , Hudson, 260; With. iii. 708, var. 2.
 α On hedge banks and waste ground, frequent. β near Hartlepool and Castle Eden, D. Near Morpeth, N.*

240. MARRUBIUM.

1. *M. vulgare*. White Horehound.
Sm. Eng. Fl. iii. 103; Woodv. t. 97; Hook. Fl. Scot. 184; Eng. Bot. 410; With. iii. 708; Berwick Flora, 133.
On the island at Hexham Bridge, on waste ground at Cullercoats, and on the rocks and links at Bamborough Castle, N., at which place it was noticed by Wallis. In the lane that leads from the Bearton to the Stanton road, D.—John Hogg, Esq.

241. LEONURUS.

1. *L. Cardiac*. Motherwort.
Sm. Eng. Fl. iii. 104; Eng. Bot. 236; Gr. Fl. Eds. 133; With. iii. 709.
Naturalized in fields at Spring Gardens near Newcastle, N. Near Wycliffe.—Rev. J. Harriman.

242. CLINOPODIUM.

1. *C. vulgare*. Wild Basil.
Sm. Eng. Fl. iii. 105; Eng. Bot. 1401; Hook. Fl. Scot. 184; With. iii. 710; Berwick Flora, 134.
In woods and hedges, especially in the Magnesian Limestone district.

243. ORIGANUM.

1. *O. vulgare*. Common Marjoram.
Sm. Eng. Fl. iii. 106; Eng. Bot. 1143; Curt. Lond. Fasc. v. t. 39; Woodv. t. 164; Hook. Fl. Scot. 184; Berwick Flora, 134.
In woods, particularly on the Magnesian Limestone.

244. THYMUS.

1. *T. Serpyllum*. Wild Thyme, Mother of Thyme.
Sm. Eng. Fl. iii. 107; Eng. Bot. 1514; Curt. Lond. Fasc. ii. t. 47; Berwick Flora, 134; Hook. Fl. Scot. 185.
 ϵ *citratum*, Ray Syn. 231.
 α On dry heaths, frequent. ϵ on Basaltic heights near Bamborough, N.—Thompson's Berwick Plants.
2. *T. Acinos*. Basil Thyme.
Sm. Eng. Fl. iii. 109; Eng. Bot. 411; Curt. Lond. Fasc. i. t. 43; Hook. Fl. Scot. 185; With. iii. 713; *Acinos vulgaris*, Persoon, Syn. ii. 131.
In a field bordering on East Common Wood near Hexham, N.—Mr. F. Scott, Sp. On St. Anthon's ballast hills, N. Between Marsden Cottage and Whitburn, D. In Middleham Lane, D.—R. Surtees, Esq.
3. *T. Calamintha*. Common Calamint.
Sm. Eng. Fl. iii. 109; Eng. Bot. 1676; With. iii. 714; *Calamintha officinalis*, Hook. Br. Fl. 279.
Near Gateshead Ropery, D. Near Conniscliffe, D.—Mr. E. Robson.
4. *T. Nepeta*. Lesser Calamint.

Sm. Eng. Fl. iii. 110; Eng. Bot. 1414; With. iii. 713; *Melissa Nepeta*, Curt. Lond. Fasc. vi. t. 40; *Calamintha Nepeta*, Hook. Br. Fl. 280. —
On the banks of Wear by Durham Abbey.—Wilson, Syn. 97. It still grows there.

245. SCUTELLARIA.

1. *S. galericulata*. Common Skull-cap.
Sm. Eng. Fl. iii. 113; Eng. Bot. 523; Curt. Lond. Fasc. iii. t. 36; With. iii. 716; Gr. Fl. Eds. 134; Berwick Flora, 134.
On the shore of Tyne below St. Anthon's, also by ditches near Hexham, N., where it was observed by Wallis. On Hoppen Bog near Alnwick.—Miss Pringle, Sp. On the banks of Team near Team Bridge and Urpeth, and at Hell Kettles near Darlington, D. By the Tyne below Stella, D.—Wilson's Syn. 99.
2. *S. minor*. Lesser Skull-cap.
Sm. Eng. Fl. iii. 113; Eng. Bot. 524; Curt. Lond. Fasc. iv. t. 43; Hook. Fl. Scot. 185.
On moors south of Wolsingham, D., plentiful.—Mr. Backhouse.

246. PRUNELLA.

1. *P. vulgaris*. Self-heal.
Sm. Eng. Fl. iii. 114; Eng. Bot. 961; Curt. Lond. Fasc. iv. t. 42; Hook. Fl. Scot. 185; Berwick Flora, 134.
In meadows and pastures, frequent.

DIDYNAMIA ANGIOSPERMIA.

247. BARTSIA.

1. *B. alpina*. Alpine Bartsia.
Sm. Eng. Fl. iii. 117; Eng. Bot. 361; Hook. Lond. t. 87; Fl. Scot. 186; With. iii. 719.
By the Whey Syke near Widdy Bank in Teesdale Forest, D. First pointed out to me by the Rev. J. Harriman.
2. *B. Odontites*. Red Bartsia.
Sm. Eng. Fl. iii. 119; Eng. Bot. 1413; Hook. Fl. Scot. 186; Berwick Flora, 135; *Euphrasia Odontites*, Curt. Lond. Fasc. i. 44.
In meadows and pastures on a wet clay soil.

248. RHINANTHUS.

1. *R. Crista-galli*. Yellow Rattle.
Sm. Eng. Fl. iii. 120; Eng. Bot. 657; Curt. Lond. Fasc. v. t. 43; Hook. Fl. Scot. 186; Berwick Flora, 135.
- β *R. major*. Large Bushy Yellow Rattle.
Sm. Eng. Fl. iii. 121; Berwick Flora, 135; *R. Crista-galli* β, Fl. Brit. ii. 649; With. iii. 720, var. 2.
α In meadows and pastures on poor land; β observed in 1723 by Dr. Richardson, among corn near West Newton, N.—Dill. Ray's Syn. *284. At Crawcrook and Ryton, D.—Mr. R. B. Bowman. In corn fields on Stockton Common and other parts of the county, where the soil approaches to peat.—Mr. J. Backhouse. In fields near Benwell, Denton, and Elswick, N.

249. EUPHRASIA.

1. *E. officinalis*. Eye-bright.
Sm. Eng. Fl. iii. 122; Eng. Bot. 1416; Curt. Lond. Fasc. v. t. 42; Woodv. t. 220; Hook. Fl. Scot. 186; Berwick Flora, 135.
On moors and mountainous pastures.

250. MELAMPYRUM.

1. *M. pratense*. Common Yellow Cow-wheat.
Sm. Eng. Fl. iii. 125; Eng. Bot. 113; Hook. Fl. Scot. 187; Berwick Flora, 136; *M. sylvaticum*, Hudson, 270.
In woods and denes, frequent, N. and D. On the hill at Hebburn near Chillingham, and on Cheviot and Hedgehope, N.—Dr. G. Johnston.
2. *M. sylvaticum*. Wood Cow-wheat.
Sm. Eng. Fl. iii. 126; Eng. Bot. 804; Lightfoot, 325; With. iii. 725.
On the banks of Tees above Middleton, also near Winch Bridge, and in Shipley Wood near Eglestone, D. In woods near Hexham, N.—Mr. F. Scott.
I have no specimens from the latter habitat.

251. LATHRÆA.

1. *L. Squamaria*. Greater Tooth-wort.
Sm. Eng. Fl. iii. 127; Eng. Bot. 50; Gr. Fl. Eds. 135; With. iii. 725.
In Shipley, Eglestone, Cocken, and Lumley woods, D. Near Pierce Bridge.—Mr. Backhouse. In Irehope Dene, Weardale, D.—W. C. Trevelyan, Esq. In Twizell woods.—P. J. Selby, Esq. At Break-back near Alnwick, N.—Miss Forster, delin. In the wood bottom at the west end of the Rectory Dene at Simonburn, N.—Wallis, 234.

252. PEDICULARIS.

1. *P. palustris*. Marsh Louse-wort.
Sm. Eng. Fl. iii. 129; Eng. Bot. 399; Hook. Fl. Scot. 187; Berwick Flora, 137.
In boggy meadows and marshes, common.
2. *P. sylvatica*. Pasture Louse-wort.
Sm. Eng. Fl. iii. 129; Eng. Bot. 400; Hook. Fl. Scot. 188; Berwick Flora, 137.
In wet moorland pastures and on commons, frequent.

253. ANTIRRHINUM.

1. *A. Cymbalaria*. Ivy-leaved Snapdragon.
Sm. Eng. Fl. iii. 131; Eng. Bot. 502; Curt. Lond. Fasc. i. t. 45; Gr. Fl. Eds. 136; With. iii. 728; *Linaria Cymbalaria*, Mill. Lindley, Br. Syn. 191.
Naturalized on the bridge over the Greta at Rokeby, and on walls near Cleadon, and in Whitburn-lane, D.
A native of Italy, now naturalized as far north as Edinburgh.
2. *A. spurium*. Round-leaved Fluellin.
Sm. Eng. Fl. iii. 131; Eng. Bot. 691; Curt. Lond. Fasc. iii. t. 37; With. iii. 728; *Linaria spuria*, Mill. Lindley, Br. Syn. 191.
On Hebburn ballast-hills, D. On Sunderland ballast-hills, D.—W. Weighell's Herb.
3. *A. Elatine*. Sharp-pointed Fluellin.
Sm. Eng. Fl. iii. 132; Eng. Bot. 692; Curt. Lond.

- Fasc. i. t. 46; With. iii. 729; *Linaria Elatine*, Desf. Lindley, Br. Syn. 191.
On Sunderland and Hebburn ballast-hills, D. On Willington ballast-hills, N.
4. *A. repens*. Creeping pale-blue Toadflax.
Sm. Eng. Fl. iii. 133; Eng. Bot. 1253; Hook. Fl. Scot. 188; With. iii. 729; *Linaria repens*, Hort. Kew. Lindley, Br. Syn. 191.
On Hebburn ballast-hills, D. On Willington ballast-hills, N.
5. *A. Linaria*. Common Yellow Toadflax.
Sm. Eng. Fl. iii. 134; Eng. Bot. 658; Curt. Lond. Fasc. i. t. 47; Woodv. Supp. 221; Hook. Fl. Scot. 188; Berwick Flora, 137; *Linaria vulgaris*, Mærch. Lindley, Br. Syn. 191.
In dry hedges and on the borders of fields, not rare.
6. *A. minus*. Least Snapdragon.
Sm. Eng. Fl. iii. 135; Eng. Bot. 2014; Curt. Lond. Fasc. v. t. 41; Hook. Fl. Scot. 188; With. iii. 730; Berwick Flora, 138; *Linaria minor*, Desf. Lindley, Br. Syn. 192.
On Fulwell hills near Sunderland, D. By the Union Bridge over the Tweed, N.—Dr. G. Johnston.
7. *A. majus*. Great Snapdragon.
Sm. Eng. Fl. iii. 135; Eng. Bot. 129; Hook. Fl. Scot. 189; With. iii. 732.
Near the Hermitage at Warkworth, N. On the walls of Barnardcastle, and naturalized on old walls at Kibblesworth, D.
8. *A. Orontium*. Lesser Snapdragon.
Sm. Eng. Fl. iii. 136; Eng. Bot. 1155; Curt. Lond. Fasc. iv. t. 45; With. iii. 732.
On the ballast-hills of Tyne and Wear, N. and D.

254. SCROPHULARIA.

1. *S. nodosa*. Knotty-rooted Fig-wort.
Sm. Eng. Fl. iii. 137; Eng. Bot. 1544; Hook. Fl. Scot. 189; Berwick Flora, 138.
In denes, woods, and hedges.
2. *S. aquatica*. Water Fig-wort, Water Betony.
Sm. Eng. Fl. iii. 138; Eng. Bot. 854; Curt. Lond. Fasc. v. t. 44; Hook. Fl. Scot. 189.
On the banks of rivers and ponds, frequent.

255. DIGITALIS.

1. *D. purpurea*. Purple Foxglove.
Sm. Eng. Fl. iii. 140; Eng. Bot. t. 1297; Curt. Lond. Fasc. i. t. 48; Hook. Fl. Scot. 189; Woodv. t. 24; With. iii. 736; Berwick Flora, 138.
In dry woods and on hedge banks, very frequent in the county of Durham, but rather scarce in Northumberland. At the foot of Scotswood Dean, and near Alemouth, N. Rare near Berwick, but common about Houndswood and Renton inns, near Wooler.—Dr. G. Johnston. On Fourstone hills and among the rocks at Tecket. The White-flowered Foxglove, by the road under Blenkinsopp Castle, N.—Wallis, 161.

256. LINNÆA.

1. *L. borealis*. Two-flowered Linnaea.
Sm. Eng. Fl. iii. 142; Eng. Bot. 433; Hook. Fl. Scot. 190; Fl. Lapp. 2nd ed., 214, t. 12, f. 4; With. iii. 737; Winch, Geog. of Pl. 2nd ed., 25.

In an old fir plantation at Catcherside four miles west of Wallington, N., growing with *Trientalis europæa* and *Pyrola minor*.
First discovered by Miss Emma Trevelyan.

257. LIMOSELLA.

1. *L. aquatica*. Common Mid-wort.
Sm. Eng. Fl. 145; Eng. Bot. 357; Hook. Lond. t. 62; Fl. Scot. 190; With. iii. 738.
In ditches near Cocken, D.—W. Weighell, MSS.

258. OROBANCHE.

1. *O. major*. Greater Broom-rape.
Sm. Eng. Fl. iii. 146; Eng. Bot. 421; Curt. Lond. Fasc. iv. t. 44; Gr. Fl. Eds. 138; With. iii. 739; Sutton, Linn. Tr. iv. 175.
In Scotswood Dene, N. Near Beamish, Urpeth, Cawsey Wood, and Derwent Bridge, D. Near Staindrop.—Rev. J. Harriman; and in Raby Park.—Mr. E. Robson; among furze on Fourstone hills near Hexham.—Wallis, 233; at Ellingham.—P. J. Selby, Esq., on Bothal banks, where it was observed by Turner.—Miss Emma Trevelyan; near Alnwick, N.—Miss Forster, delin.
2. *O. elatior*. Tall Broom-rape.
Sm. Eng. Fl. iii. 147; Eng. Bot. 568; With. iii. 739; Sutton, Linn. Tr. iv. 178, t. 17.
Near Ellemore and not far from the gates of Burn Hall, D.—Rev. J. Dalton.

TETRADYNAMIA SILICULOSA.

259. DRABA.

1. *D. verna*. Common Whitlow-grass.
Sm. Eng. Fl. iii. 158; Eng. Bot. 586; Curt. Lond. Fasc. i. t. 49; Hook. Fl. Scot. 196; Berwick Flora, 141.
On walls, banks, and dry places.
2. *D. incana*. Twisted-podded Whitlow-grass.
Sm. Eng. Fl. iii. 160; Eng. Bot. 383 (*bad*); Hook. Fl. Scot. 197; With. iii. 751.
On walls and Limestone rocks north of Middleton, D. Upon Cronkley Fell, Teesdale.

260. CAMELINA.

1. *C. sativa*. Gold of Pleasure.
Sm. Eng. Fl. iii. 164; Hook. Lond. t. 70; Fl. Scot. 198; *Alyssum sativum*, With. iii. 774.
In fields between Newcastle and Jesmond, on newly broken up ground, N. On the ballast hills of Tyne and Wear, N. and D.

261. LEPIDIUM.

1. *L. latifolium*. Broad-leaved Pepperwort.
Sm. Eng. Fl. iii. 165; Eng. Bot. 132; Gr. Fl. Eds. 140; With. iii. 753.
On the cliffs between Prior's Haven and Tynemouth Castle, N. Near Seaton, and by the Wear near Durham Abbey, D. In Limestone quarries at Hartlepool, D.—J. Hogg, Esq. On the banks of hedges at the Hermitage near Hexham, N.—Mr. F. Scott. I have no specimen from this locality.
2. *L. rudercule*. Narrow-leaved Pepperwort.
Sm. Eng. Fl. iii. 165; Eng. Bot. 1595; Hook. Fl. Scot. 194; With. iii. 753.

- On St. Anthon's ballast-hills, N. On the ballast-hills above South Shields; and at Hartlepool, D.
3. *L. campestre*. Common Mithridate Pepperwort. Sm. Eng. Fl. iii. 166; Hook. Fl. Scot. 195; Berwick Flora, 141; *Thlaspi campestre*, Eng. Bot. 1385; Curt. Lond. Fasc. v. t. 45; With. iii. 754, and var. 2.
- On hedge banks and in corn fields, not rare.
4. *L. Smithii*. Smooth Field Pepperwort. Hook. Brit. Fl. 297; *L. hirtum*, Sm. Eng. Fl. iii. 167; *Thlaspi hirtum*, Eng. Bot. 1803; Hook. Fl. Scot. 195; With. iii. 755.
- On hedge banks between Newcastle and Jesmond, also in Heaton Dene, and between Paradise and Scotswood, N.
- I have specimens of *Lepidium hirtum* of the continental botanists, but gathered on the Sunderland ballast-hills, and probably an exotic.

262. TEESDALIA.

1. *T. nudicaulis*. Naked-stalked or Irregular Teesdalia. Sm. Eng. Fl. iii. 170; Hook. Fl. Scot. 194; Berwick Flora, 141; *Iberis nudicaulis*, Eng. Bot. 327; Curt. Lond. Fasc. vi. t. 42; Dicks. Hort. Sicc. Fasc. i. 10; With. iii. 763.
- On Wall-town Crags near Wall-town.—Rev. A. Hedley, Sp. In the vale between Middleton and Langley Ford, N.—Dr. G. Johnston.

263. THLASPI.

1. *T. arvense*. Penny Cross, Smooth Mithridate Mustard. Sm. Eng. Fl. iii. 171; Eng. Bot. 1659; Curt. Lond. Fasc. vi. t. 43; Gr. Fl. Eds. 139; With. iii. 754; Berwick Flora, 141.
- In corn fields near Gateshead, D. In Heaton Dene, below Rennoldson's Mill-race, N. In Ord fields, near Berwick.—Dr. G. Johnston.
2. *T. alpestre*. Alpine Shepherd's Purse. Sm. Eng. Fl. iii. 172; Eng. Bot. 81; With. iii. 756; Hook. Br. Fl. 295.
- Near Winch Bridge, above Middleton-in-Teesdale, D. Near Nentwater, on old lead mine heaps, N. Both these habitats are on the Encrinal Limestone, and are its most northern places of growth.
3. *T. Bursa Pastoris*. Common Shepherd's Purse. Sm. Eng. Fl. iii. 173; Eng. Bot. 1485; Curt. Lond. Fasc. i. t. 50; Hook. Fl. Scot. 194; Berwick Flora, 141; *Caspella Bursa Pastoris*, De Cand. Hook. Br. Fl. 295.
- By way sides and hedge banks, everywhere.

264. COCHLEARIA.

1. *C. officinalis*. Common Scurvy-grass. Sm. Eng. Fl. iii. 175; Eng. Bot. 551; Woodv. t. 29; Berwick Flora, 142; Hook. Lond. 148; Fl. Scot. 195.
- γ Brit. Fl. 175; With. iii. 759, var. 2.
- α On rocks and marshy places on the sea coast, common; and on the shores of Tyne, Wear, &c.; on the Fern Islands, abundant; also naturalized on rocks at Harnham, N. β on wet ground near the Whey Sike House, and at Cauldron Snout, Teesdale, D. In wet places near Coal Cleugh, N.
2. *C. anglica*. English Scurvy-grass.

Sm. Eng. Fl. iii. 176; Eng. Bot. 552; Hook. Fl. Scot. 195; With. iii. 760.

On the shores of Tyne, at the mouth of Coble Dene near North Shields, and on Holy Island, N. By the river Wear, D.—W. Weighell's Herb.

3. *C. danica*. Danish Scurvy-grass. Sm. Eng. Fl. iii. 177; Eng. Bot. 696; Gr. Fl. Eds. 141; With. iii. 760; Berwick Flora, 142.
- On the sea coast beyond Cullercoats, and on Willington ballast-hills, N. On the Pinnacles, one of the Fern Islands, N.—Dr. G. Johnston. On the coast north of Tynemouth.—Mr. J. Thornhill.
4. *C. Armoracia*. Horse-raddish. Sm. Eng. Fl. iii. 177; Eng. Bot. 2323; Woodv. t. 150; Gr. Fl. Eds. 141; With. iii. 761.
- On the banks of Team near Dunston, and of Skerne near Darlington, D.
- Ray observes, we found it plentifully about Alnwick and elsewhere, in Northumberland, in the ditches and by the water sides.—Dill. Ray's Syn. 301.

265. SENEBIERA.

1. *S. Coronopus*. Common Wart-cress, Swine's-cress. Sm. Eng. Fl. iii. 179; Berwick Flora, 142; *Coronopus Ruellii*, Eng. Bot. 1660; Hook. Fl. Scot. 193; With. iii. 762.
- By way sides and on waste ground, but not very common. Near Berwick, and on Holy Island.—Dr. G. Johnston. At Alemouth, N.—Miss Forster, delin.
2. *S. didyma*. Lesser Wart-cress, Procumbent Pepperwort. Sm. Eng. Fl. iii. 180; *Coronopus didyma*, With. iii. 762; Fl. Brit. 691; *Lepidium didymum*, Eng. Bot. 248; *L. anglicum*, Hudson, 280.
- On the ballast-hills of Tyne and Wear, N. and D. Near Hartlepool, D.

266. IBERIS.

1. *I. amara*. Bitter Candy-tuft. Sm. Eng. Fl. iii. 181; Eng. Bot. 52; With. iii. 763.
- In fields on the banks of Tyne near Hexham Bridge, and at Hoford banks, N.
- Probably introduced with corn.

267. ISATIS.

1. *I. tinctoria*. Woad. Sm. Eng. Fl. iii. 182; Eng. Bot. 97; With. iii. 747.
- On the banks of Wear between Framwellgate and the New Bridge, D., where it was noticed by S. Robson.—See Flora, 129. Cultivated in the fields near Newburn, N. On the ballast-hills of Tyne and Wear, N. and D.

268. CAKILE.

1. *C. maritima*. Purple Sea Rocket. Sm. Eng. Fl. iii. 183; Hook. Lond. t. 160; Berwick Flora, 142; Gr. Fl. Eds. 139; *Rumex Cakile*, Eng. Bot. 231; With. iii. 746.
- On the sandy sea-beach, frequent.

TETRADYNAMIA SILIQUOSA.

269. CARDAMINE.

1. *C. hirsuta*. Hairy Ladies'-smock.

- Sm. Eng. Fl. iii. 183; Eng. Bot. 492; Berwick Flora, 143; Curt. Lond. Fasc. iv. t. 48; Hook. Fl. Scot. 199; *C. flexuosa*, With. iii. 766.
In moist shady woods and by rivulets, not rare.
2. *C. protensis*. Meadow Ladies'-smock, Cuckow Flower.
Sm. Eng. Fl. iii. 189; Eng. Bot. 776; Curt. Lond. Fasc. iii. t. 40; Hook. Fl. Scot. 193; Woodv. t. 30; Berwick Flora, 143.
β Var. *flore pleno*.
α In moist meadows and pastures; *β* on Newcastle Town Moor, N. In Cat Dene above Bill Quay, on the Tyne, D.—Mr. J. Thornhill, jun.
The leaflets of var. *β*, fall off and become viviparous.
3. *C. amara*. Bitter Ladies'-smock.
Sm. Eng. Fl. iii. 190; Eng. Bot. 1000; Curt. Lond. Fasc. iii. t. 39; With. iii. 768; Gr. Fl. Eds. 142; Berwick Flora, 144.
In moist woods near Newcastle, Hexham, Morpeth, and Alnwick, N.; and in similar situations in the county of Durham, not rare. In the vicinity of Berwick, rare.—Dr. G. Johnston. In Teesdale, D.—Rev. J. Harriman.
270. NASTURTIIUM.
1. *N. officinale*. Common Water Cress.
Sm. Eng. Fl. iii. 192; Hook. Fl. Scot. 201; Berwick Flora, 144; *Sisymbrium Nasturtium*, Eng. Bot. 855; Curt. Lond. Fasc. vi. t. 44; Woodv. t. 48.
In springs and rivulets, but not very common near Newcastle.
2. *N. sylvestre*. Creeping Yellow Cress.
Sm. Eng. Fl. iii. 193; Hook. Fl. Scot. 201; Berwick Flora, 144; *Sisymbrium sylvestre*, Eng. Bot. 2324; Curt. Lond. Fasc. iii. t. 41; With. iii. 769.
On the banks of Team near the Red Hengh, D. On the banks of the Derwent between Swalwell and the Tyne.—Mr. R. B. Bowman. Near Norton Bridge, D.—J. Hogg, Esq. On the shores of Tyne below Benwell, N. By the Tweed at the Union Bridge.—Dr. G. Johnston; and above West Ord, N.—Dr. Thompson.
3. *N. terrestre*. Annual Yellow Cress.
Sm. Eng. Fl. iii. 193; Hook. Fl. Scot. 201; Berwick Flora, 145; *Sisymbrium terrestre*, Eng. Bot. 1747; Curt. Lond. Fasc. v. t. 49; With. iii. 770.
On the borders of Prestwick Carr, N. Near Darlington, D.—Mr. E. Robson. By the sides of Tweed from West Ord to Norham, and in ponds at Calf Hill and Cow-port, N.—Dr. G. Johnston.
4. *N. amphibium*. Amphibious Yellow Cress, Great Water Radish.
Sm. Eng. Fl. iii. 195; Hook. Fl. Scot. 201; *Sisymbrium amphibium*, Eng. Bot. 1840; With. iii. 769.
On Sunderland ballast-hills, D.—W. Weighell's Herb.
271. SISYMBRIUM.
1. *S. officinale*. Common Hedge-mustard.
Sm. Eng. Fl. iii. 196; Hook. Fl. Scot. 202; Berwick Flora, 145; *Erysimum officinale*, Eng. Bot. 735; Curt. Lond. Fasc. v. t. 50; Woodv. t. 244.
By road sides and on waste ground, everywhere.
2. *S. Iria*. London Rocket.
Sm. Eng. Fl. iii. 197; Eng. Bot. 1631; Curt. Lond. Fasc. v. t. 48; With. iii. 773; Ray's Syn. 298; Berwick Flora, 145.
On the Ramparts of Berwick-upon-Tweed, where it was observed by Ray. Most abundant at the Piergate.—Dr. G. Johnston.
The only locality in the north.
3. *S. Sophia*. Flix-weed.
Sm. Eng. Fl. iii. 197; Eng. Bot. 963; Gr. Fl. Eds. 145; With. iii. 772; Berwick Flora, 145.
Near Scotswood and Ovingham, and on Holy Island, also about Belford and Alnwick, N. On rubbish at West Boldon and Cleadon, D. About East Ord, Etal, and Bamfborough, N.—Thompson's Berwick Plants.
272. BARBAREA.
3. *B. vulgaris*. Yellow Rocket, Bitter Winter-cress.
Sm. Eng. Fl. iii. 198; Hook. Fl. Scot. 200; Berwick Flora, 145; *Erysimum Barbarea*, Eng. Bot. 443.
On the banks of rivulets and in marshy meadows.
2. *B. praecox*. Early Winter Cress.
Sm. Eng. Fl. iii. 199; Hook. Fl. Scot. 201; Berwick Flora, 146; *Erysimum praecox*, Eng. Bot. var. 2, 1129; *E. officinalis*, With. iii. 774.
On a hedge side between Wooler and Earl, N.—Dr. G. Johnston.
Probably the out-cast of a garden.
273. ERYSIMUM.
1. *E. cheiranthoides*. Treacle Hedge-mustard.
Sm. Eng. Fl. iii. 200; Eng. Bot. 942; Hook. Fl. Scot. 202; With. iii. 775.
In Heaton Dene near Rennoldson's Mill, and on hedge banks at the Minorities near Newcastle, N. On Sunderland ballast-hills, D.—W. Weighell's Herb.
2. *E. Alliaria*. Garlic Hedge-mustard, Jack by the hedge, Sauce alone.
Sm. Eng. Fl. iii. 201; Eng. Bot. 796; Curt. Lond. Fasc. ii. t. 48; Woodv. Supp. t. 245; Hook. Fl. Scot. 202; Berwick Flora, 146.
Under hedges and in shady places, common.
3. *E. orientale*. Hare's-ear Treacle-mustard.
Sm. Eng. Fl. iii. 202; Hook. Br. Fl. 306; *Brassica orientalis*, Eng. Bot. 1804; With. iii. 782.
On the ballast-hills of Tyne and Wear, N. and D. On ballast-hills at Bishopwearmouth, D.—Rev. J. Symons, also in W. Weighell's Herb.
274. CHEIRANTHUS.
1. *C. Cheiri*. Wall-flower.
Hudson, 287; Lindley, Syn. 22; Hook. Br. Fl. 307; Lond. Fl. t. 147; *C. fruticulosus*, Sm. Eng. Fl. iii. 203; Eng. Bot. 1934; Berwick Flora, 146; Hook. Fl. Scot. 202; With. iii. 776.
On the ruins of Dawdon Hall, and on the Magnesian Limestone rocks at Southwick, D. On Lindisfern Priory, and on rocks at Tynemouth, N. On the ruins of castles near Berwick, and on Spindleston rocks.—Dr. G. Johnston.
275. HESPERIS.
1. *H. matronalis*. Common Dame's-violet.
Sm. Eng. Fl. 207; Gr. Fl. Eds. 146 s *H. inodora*, Eng. Bot. 731 s With. iii. 778.

In meadows near Chester-le-Street, D.—G. T. Fox, Esq. In the Duke of Northumberland's woods and plantations about Alnwick, N.
Probably not truly indigenous in these counties.

276. ARABIS.

1. *A. thaliana*. Common Wall-cress.
Sm. Eng. Fl. iii. 209; Eng. Bot. 901; Curt. Lond. Fasc. ii. t. 49; With. iii. 779; Hook. Fl. Scot. 199; Berwick Flora, 146.
On walls near Ovingham, near Wooler, and on the ruins of Shewing-shields, also at Wark and Northam Castles, N. On Kylee rocks and near the chain-bridge at Horncliffe, N.—Dr. G. Johnston. On the ruins of the Roman station at Lanchester, of Finchale Abbey, and on walls in Weardale and Teesdale, D.
2. *A. hirsuta*. Hairy Wall-cress.
Sm. Eng. Fl. iii. 213; Gr. Fl. Eds. 143; *Turritis hirsuta*, Eng. Bot. 587; With. iii. 781.
On Painshier and Fulwell Hills, in Castle Eden Dene, also near Eglestone and Middleton-in-Teesdale, D. On the south side of Boldon, Tunstall, and Cleadon Hills, D.—Mr. R. Waugh and Mr. J. Thornhill. On the Roman Wall near Shewing-shields, on rocks at Kirkwhelpington and on hedge banks between Anick Grange and Corbridge, also near Rothbury, N. On an old wall at Colwell by the Chollerton road to Wallington, N.—Wallis, 219. Near Hulne Abbey, Alnwick, N.—Miss Pringle, Sp.

277. TURRITIS.

1. *T. glabra*. Smooth Tower-mustard.
Sm. Eng. Fl. iii. 215; Eng. Bot. 777; Curt. Lond. Fasc. iv. t. 47; With. iii. 781; Hook. Fl. Scot. 200.
On the banks of hedges between Anick Grange and Hexham, and on walls near Ovingham, N. Near Gainford, in hedges not far from the turnpike-gate, D.
Wallis, at p. 218, gives Crag Close near Barwesford as a locality of *Cardamine pumila*; *Bellidis folia alpina*.—Dill. Ray Syn. 300; which Smith refers to *Arabis stricta* of the English Flora, iii. 210, but with a mark of doubt. Gerard's figure, 260, quoted in Ray's work, according to Smith, belongs to a foreign species, *Arabis pumila* of Jaquin; *Arabis nutans* of Willdenow's Species Plantarum, iii. 537. I suspect *Turritis glabra* must have been the plant gathered by the historian of Northumberland in Crag Close.

278. BRASSICA.

1. *B. Napus*. Rape, Navew, or Cole-seed.
Sm. Eng. Fl. iii. 217; Eng. Bot. 2146; Hook. Fl. Scot. 203; Berwick Flora, 147.
On ditch banks and waste ground.
2. *B. Rapa*. Turnip.
Sm. Eng. Fl. iii. 217; Eng. Bot. 2176; Hook. Fl. Scot. 203; Berwick Flora, 147.
Naturalized on the borders of fields.
3. *B. campestris*. Common Wild Navew.
Sm. Eng. Fl. iii. 218; Eng. Bot. 2234; Hook. Fl. Scot. 203; With. iii. 782.
On the ballast-hills of Tyne and Wear, N. and D. This plant, so common by the Thames, does not appear to be truly a native of these counties.

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4. *B. oleracea*. Sea Cabbage.
Sm. Eng. Fl. iii. 219; Eng. Bot. 637; Hook. Fl. Scot. 203; With. iii. 784.
Upon the patch of Magnesian Limestone rock on the north side of Tynemouth Castle, N. Near Monkwearmouth, D.

279. SINAPIS.

1. *S. arvensis*. Charlock, Wild Mustard.
Sm. Eng. Fl. iii. 221; Eng. Bot. 1748; Curt. Lond. Fasc. v. t. 47; Hook. Fl. Scot. 204; Berwick Flora, 147.
In corn fields and on waste ground, common.
2. *S. alba*. White Mustard.
Sm. Eng. Fl. iii. 222; Eng. Bot. 1677; Curt. Lond. Fasc. v. t. 46; Hook. Fl. Scot. 204; Berwick Flora, 147.
In fields and by road sides.
3. *S. nigra*. Common Mustard.
Sm. Eng. Fl. iii. 222; Eng. Bot. 969; Woodv. t. 151; Hook. Fl. Scot. 204; Berwick Flora, 147.
On waste ground and in fields.
4. *S. tenuifolia*. Narrow-leaved Wall Mustard.
Sm. Eng. Fl. iii. 223; Hook. Fl. Scot. 204; Berwick Flora, 148; *Sisymbrium tenuifolium*, Eng. Bot. 525; With. iii. 771; *Brassica muralis*, Curt. Lond. Fasc. iii. t. 38; Hudson, 290.
On rocks at Tynemouth, and on the ruins of the Castle, N. On the sea banks near Marsden Rocks, and at Southwick, D. On the walls of Berwick, where it was observed by Ray.—Dr. G. Johnston.
5. *S. muralis*. Sand Mustard.
Sm. Eng. Fl. iii. 224; *Sisymbrium murale*, Eng. Bot. 1090; With. iii. 772.
On St. Anthon's ballast-hills, N.
Introduced from the south of England.

280. RAPHANUS.

1. *R. Raphanistrum*. Wild Radish, Jointed Charlock.
Sm. Eng. Fl. iii. 226; Eng. Bot. 856; Curt. Fasc. iv. t. 46; Hook. Fl. Scot. 204; Berwick Flora, 148.
In corn fields, common.

MONADELPHIA PENTANDRIA.

281. ERODIUM.

1. *E. cicutarium*. Hemlock Stork's-bill.
Sm. Eng. Fl. iii. 229; Eng. Bot. 1768; Berwick Flora, 150; Hook. Fl. Scot. 205; *Geranium cicutarium*, Curt. Fasc. i. t. 51; With. iii. 803.
α On waste ground. β and γ on the sea coast abundant, N. and D. Between the Glass Houses and Dent's Hole, near Newcastle.—Wilson's Syn. 243. Near Berwick.—Dr. G. Johnston.
2. *E. maritimum*. Sea Stork's-bill.
Sm. Eng. Fl. iii. 231; Eng. Bot. 646; *Geranium maritimum*, Hudson, 301; With. iii. 799.
On Sunderland ballast-hills, D.—W. Weighell's Herb.

MONADELPHIA DECANDRIA.

282. GERANIUM.

1. *G. phaeum*. Dusky Crane's-bill.

- Sm. Eng. Fl. iii. 232; Eng. Bot. 322; Hook. Fl. Scot. 206; With. iii. 793.
In Lumley woods near Chester-le-Street, D.—G. T. Fox, Esq. Probably planted there. In woods about Darlington.—Mr. E. Robson; Turner and Dillwyn's Guide, 253. The late Mr. E. R. assured me that this was an error. Naturalized in Mr. Cook's woods at Newton-on-the-Moor, N.—Mr. J. Davison.
2. *G. sylvaticum*. Wood Crane's-bill.
Sm. Eng. Fl. iii. 234; Eng. Bot. 121; Gr. Fl. Eds. 149; With. iii. 795; Berwick Flora, 151.
In woods and denes, also in subalpine meadows, N. and D.
3. *G. pratense*. Crow-foot-leaved Crane's-bill.
Sm. Eng. Fl. iii. 235; Eng. Bot. 404; Curt. Lond. Fasc. iv. t. 49; Gr. Fl. Eds. 149; With. iii. 799; Berwick Flora, 151.
In moist meadows and on the banks of rivers, N. and D. By the river Aln, near Alnwick.—Mr. J. Davison. Varieties with white flowers striped with purple and with red. In a hilly pasture on the north side of the rectory-house at Simonburn, N.—Wallis, 170.
4. *G. robertianum*. Stinking Crane's-bill, Herb Robert.
Sm. Eng. Fl. iii. 235; Eng. Bot. 1486; Curt. Lond. Fasc. i. t. 52; Hook. Fl. Scot. 207; Berwick Flora, 151.
 β Hudson, 305; Sm. Eng. Fl. iii. 236; *G. purpureum*, Eng. Bot. 2648; *G. Rati*, Lindley, Syn. 57; Dill. Ray, Syn. 358.
 α In denes, woods, and by hedges, common. β on the sands of the sea beach, not rare.
5. *G. lucidum*. Shining Crane's-bill.
Sm. Eng. Fl. iii. 236; Eng. Bot. 75; Gr. Fl. Eds. 151; With. iii. 800; Berwick Flora, 151.
On walls and hedge banks from Middleton-in-Teesdale to Darlington, also by the road side between Stanhope and Chapel-in-Weardale, D. At Cocken.—Rev. J. Symonds. At Gainsford, D.—J. Hogg, Esq. At Honey-cleugh near Chesterwood, at Nent Force, and by hedge sides at the 21 mile-stone near Chollerford, N. At the east end of Walwick by the military road.—Wallis, 171. On a wall near Ratcheugh Crag near Alnwick.—Mr. J. Davison; and Belford Crag, N.—Miss Forster, delin.
6. *G. molle*. Dove's-foot Crane's-bill.
Sm. Eng. Fl. iii. 237; Eng. Bot. 778; Curt. Lond. Fasc. ii. t. 50; Hook. Fl. Scot. 207; Berwick Flora, 151.
On cultivated and waste ground, and by way sides.
7. *G. pusillum*. Small-flowered Crane's-bill.
Sm. Eng. Fl. iii. 238; Eng. Bot. 385; Berwick Flora, 152; Gr. Fl. Eds. 152; *G. parviflorum*, Curt. Lond. Fasc. vi. t. 36; *G. malvaefolium*, With. iii. 697, var. 1.
In lanes near Darlington, and on Hebburn Quay, D. In the lane near Anick Grange, Hexham, N.—Mr. F. Scott.
From this locality I have no specimen.
8. *G. pyrenaicum*. Mountain Crane's-bill.
Sm. Eng. Fl. iii. 239; Eng. Bot. 405; Curt. Lond. Fasc. iii. t. 42; Hook. Fl. Scot. 206; With. iii. 793.
For many years naturalized on old ballast-hills at Hebburn Quay, D.
9. *G. rotundifolium*. Round-leaved Crane's-bill.
Sm. Eng. Fl. iii. 240; Eng. Bot. 157; Lightfoot, 1106; With. iii. 800.
On hedge banks at the Salt-meadows near Gateshead, D. On Sunderland ballast-hills, D.—Mr. E. Robson. In the lane near Anick Grange, Hexham, N.—Mr. F. Scott.
From this locality I have no specimen.
10. *G. dissectum*. Jagged-leaved Crane's-bill.
Sm. Eng. Fl. iii. 241; Eng. Bot. 753; Curt. Lond. Fasc. vi. t. 45; Hook. Fl. Scot. 208; Berwick Flora, 152.
On the banks of hedges and in fallow fields, frequent.
11. *G. columbinum*. Long-stalked Crane's-bill.
Sm. Eng. Fl. iii. 241; Eng. Bot. 259; Gr. Fl. Eds. 151; With. iii. 796.
On Walltown Crag and on Willington ballast-hills, N. On the crags at Gunnedert.—Mr. Wm. Robertson. In the lane near Anick Grange, Hexham, N.—Mr. F. Scott. [No specimen.] On Cleadon Hills, and at Conniscliffe near Darlington, D.
12. *G. sanguineum*. Bloody Crane's-bill.
Sm. Eng. Fl. iii. 242; Eng. Bot. 272; Hook. Fl. Scot. 206; Lond. t. 155; With. iii. 792; Berwick Flora, 152.
In the lower part of Castle Eden Dene, and on the coast at Easington, Seaton, and Hartlepool, D. On the links near Hartley and Blyth, at Dunstanborough, and on Holy Island; also between Cresswell and Druridge, where it was noticed by Wallis. On the sea banks beyond Hudshead, on the links from Scremerston southward, and in Ashwood near Belford, N.—Thompson's Berwick Plants.

MONADELPHIA POLYANDRIA.

283. MALVA.

1. *M. sylvestris*. Common Mallow.
Sm. Eng. Fl. iii. 245; Eng. Bot. 671; Curt. Lond. Fasc. ii. t. 51; Woodv. t. 54; Hook. Fl. Scot. 208; Berwick Flora, 152.
About hedges and by road sides, common.
2. *M. rotundifolia*. Dwarf Mallow.
Sm. Eng. Fl. iii. 246; Eng. Bot. 1092; Curt. Lond. Fasc. iii. t. 43; Hook. Fl. Scot. 208; Berwick Flora, 153.
On waste grounds, near villages, and by footpaths.
3. *M. moschata*. Musk Mallow.
Sm. Eng. Fl. iii. 247; Eng. Bot. 754; Curt. Lond. Fasc. iv. t. 50; Hook. Fl. Scot. 209; With. iii. 808; Berwick Flora, 153.
On the borders of fields and by road sides, but not very common, N. and D. Near Alnwick and Belford, N. Fisher's Maies on the Tweed.—Dr. G. Johnson.

284. LAVATERA.

1. *L. arborea*. Tree Mallow.
Sm. Eng. Fl. iii. 248; Eng. Bot. 1841; Gr. Fl. Eds. 153; With. iii. 808.
On St. Anthon's ballast-hills, N.

DIADELPHIA HEXANDRIA.

285. FUMARIA.

1. *F. lutca*. Yellow Fumitory.

Sm. Eng. Fl. iii. 253; Eng. Bot. 588; With. iii. 815; *Cordialis lutea*, Hook. Br. Fl. 316.

Naturalized on old walls at Netherwitton and on rocks at Harnham, N.

2. *F. claviculata*. White Climbing Fumitory.

Sm. Eng. Fl. iii. 254; Eng. Bot. 103; Hook. Fl. Scot. 211; Berwick Flora, 156; With. iii. 817; *Cordialis claviculata*, Gr. Fl. Eds. 153.

In hedges near Beamish, Greencroft, and Durham, and on rocks between Eglestone and Staindrop, D. In Heaton Dene, among bushes on the banks of Ouseburn, and on Newcastle Town Moor; also on the Oakwood banks near Hexham, N. On Roadley and Great Waney-house Crag.—W. C. Trevelyan, Esq. On rocks above Teckett Water-fall, and at Little Waney-house Crag.—Wallis, 166. Among the rocks at Longridge Dene.—Dr. G. Johnston. On Alnwick Moor.—Mr. J. Davison; and Heckley Crag, N.—Miss Forster, delin.

3. *F. officinalis*. Common Fumitory.

Sm. Eng. Fl. iii. 255; Eng. Bot. 589; Berwick Flora, 156; Curt. Lond. Fasc. ii. t. 52; Hook. Fl. Scot. 210; Woodv. t. 88.

In corn fields, gardens, and hedges, but by no means frequent.

4. *F. capreolata*. Ramping Fumitory.

Sm. Eng. Fl. iii. 256; Eng. Bot. 943; Curt. Lond. Fasc. vi. t. 47; Hook. Fl. Scot. 210; With. iii. 816 t. 30 (*bad*).

In hedges, common, N. and D.

DIADELPHIA OCTANDRIA.

286. POLYGALA.

1. *P. vulgaris*. Milkwort.

Sm. Eng. Fl. iii. 253; Eng. Bot. 76; Hook. Fl. Scot. 211; Berwick Flora, 157.

In dry heathy pastures and on moors, common.

DIADELPHIA DECANDRIA.

287. SPARTIUM.

1. *S. scoparium*. Common Broom.

Sm. Eng. Fl. iii. 261; Eng. Bot. 1339; Berwick Flora, 157; Curt. Lond. Fasc. v. t. 52; Woodv. t. 89; *Genista scoparia*, Hook. Fl. Scot. 211; *Cytisus scoparius*, Br. Fl. 319.

In dry fields, dunes, and on the borders of woods, frequent, but by no means common near the sea-coast.

288. GENISTA.

1. *G. tinctoria*. Dyer's Green-weed, Wood-waxen.

Sm. Eng. Fl. iii. 263; Eng. Bot. 44; Gr. Fl. Eds. 154; With. iii. 820; Berwick Flora, 158. On gravelly banks and in dry pastures, not very common. On the sea coast near the Spanish Battery, Tynemouth, N.

G. anglica. Needle Green-weed, Petty Whin.

Sm. Eng. Fl. iii. 264; Eng. Bot. 132; Gr. Fl. Eds. 155; With. iii. 821.

On heaths and moors, but not very common. On Gateshead Fell, D.; and Newcastle Town Moor, N. Near Harbottle, N.—W. C. Trevelyan, Esq.

On Doddington Moor and between Wooler and Belford, N.—Dr. G. Johnston.

289. ULEX.

1. *U. europaeus*. Common Furze, Whin, or Gorse.

Sm. Eng. Fl. iii. 265; Eng. Bot. 742; Hook. Fl. Scot. 212; Berwick Flora, 158.

On dry moors and commons, frequent.

2. *U. nanus*. Dwarf Furze.

Sm. Eng. Fl. iii. 266; Eng. Bot. 743; With. iii. 822.

On Durham Moor.—Rev. J. Symons.

The Dwarf Furze is common on the Chalk Downs of the south of England, but I never observed it in the north.

290. ONONIS.

1. *O. arvensis*. Common Rest-harrow.

Sm. Eng. Fl. iii. 267; Lightfoot, 386; Hook. Fl. Scot. 212.

β *O. spinosa*, Linn. Sp. Pl. 1006; With. iii. 823; *O. antiquorum*, of Linnæus, according to Borrer. —See Eng. Bot. p. 2659; *O. arvensis*, Eng. Bot. t. 682.

γ *O. repens*, Linn. Sp. Pl. 1006; *O. arvensis*, Eng. Bot. 2659; Berwick Flora, 159.

α By the borders of fields. β by the road side near Hebburn, D. γ on the sea coast of Northumberland and Durham, frequent.

291. ANTHYLLIS.

1. *A. vulneraria*. Kidney-vetch, Ladies'-finger.

Sm. Eng. Fl. iii. 269; Eng. Bot. 104; With. iii. 825; Gr. Fl. Eds. 155; Berwick Flora, 159.

On the Magnesian Limestone, D., not rare. On the coast near Cullercoats and Hartley, also in the vicinity of Belford and Alnwick, N. By the Tweed and on the sea coast near Berwick.—Dr. Thompson.

292. OROBUS.

1. *O. tuberosus*. Common Orobus, Heath Pea.

Sm. Eng. Fl. iii. 272; Eng. Bot. 1153; Curt. Lond. Fasc. i. t. 53; Hook. Fl. Scot. 213; Berwick Flora, 159.

β Sm. Eng. Fl. iii. 272; Hook. Fl. Scot. 213; *O. tenuifolius*, Roth. Germ. i. 305; Don. Wern. Trans. iii. 301.

α In woods and on moors, and mountainous pastures. β near Kingswood, N.—Mr. J. Thompson, Sp. On the banks of Beldon Bourn above Blanchland, N.—W. C. Trevelyan, Esq.

A remarkably broad-leaved variety, but without flowers, was gathered near Featherstone Castle, N., by W. C. Trevelyan, Esq.

293. LATHYRUS.

1. *L. Aphaca*. Yellow Lathyrus, or Vetchling.

Sm. Eng. Fl. iii. 274; Eng. Bot. 1167; Curt. Lond. Fasc. v. t. 51; With. iii. 829.

Oo Willington ballast-hills, N. On Sunderland ballast-hills, D.—W. Weighell's Herb.

2. *L. Nissolia*. Crimson Vetchling, Grass Vetch.

Sm. Eng. Fl. iii. 275; Eng. Bot. 112; Curt. Lond. Fasc. vi. t. 51; With. iii. 829.

In the time of Lawson this plant grew between the Glass Houses and Dent's Hole, Newcastle.—Ray's Syn. 132.

3. *L. hirsutus*. Rough-podded Lathyrus.
Sm. Eng. Fl. iii. 275; Eng. Bot. 1255; With.
iii. 330.
On Sunderland ballast-hills, D.—W. Weighell's
Herb.
4. *L. pratensis*. Common Yellow Lathyrus, Meadow
Vetchling.
Sm. Eng. Fl. iii. 276; Eng. Bot. 670; Curt.
Lond. Fasc. iii. t. 44; Hook. Fl. Scot. 213;
Berwick Flora, 160.
In hedges, meadows, and pastures, frequent.

294. VICIA.

1. *V. sylvatica*. Wood Vetch.
Sm. Eng. Fl. iii. 277; Eng. Bot. 305; Curt.
Lond. Fasc. vi. t. 52; Gr. Fl. Eds. 157; With.
iii. 333; Berwick Flora, 160.
In woods near Barnardcastle and Whorlton, in Stot-
ley Gill near Eglestone, in Castle Eden Dene, on
rocks by the Tyne above Hebburn, and in the wood
opposite St. Peter's Quay, D. In Cat Dene above
Bill Quay, on the Tyne.—Mr. J. Thornhill, jun.—
By Bolts Bourn near Stanhope-in-Weardale, D.—
W. C. Trevelyan, Esq.—In Pella Wood by the
Wear near Durham.—Wilson's Syn. 203. In
woods near Hexham, in Ramshaw and Tecket
Woods on North Tyne, and on the banks of Irthing
near Wardrew Spaw, N. In Roddam Dene.—
W. C. Trevelyan, Esq.—In the Rectory Wood by
the brook at Simonburn.—Wallis, 165. On the
banks of Tweed beyond Ord Mill.—Dr. Thomp-
son. In the hedge of the wood between Hawk's
Hill and the waggon-way near Alnwick.—Mr. F.
Manisty; also in Callas Wood.—Miss Pringle.
In Cauldedge Park, N.—Miss Forster, delin.
2. *V. cracca*. Tufted Vetch.
Sm. Eng. Fl. iii. 280; Eng. Bot. 1163; Curt.
Lond. Fasc. v. t. 54; Hook. Fl. Scot. 214;
Berwick Flora, 160.
In hedges, thickets, and meadows.
3. *V. sativa*. Common Vetch.
Sm. Eng. Fl. iii. 281; Eng. Bot. 334; Hook. Fl.
Scot. 215; Berwick Flora, 160.
 β Ray Syn. 321; With. iii. 335, var. 2.
 γ *V. angustifolia*, Sm. Eng. Fl. iii. 282; Sibthorp,
224; Eng. Bot. 2614; *V. sativa*, With. iii. 335,
var. 3; *V. sativa* γ , Fl. Brit. 770.
 α On cultivated land. β on barren ground. γ on
the sea banks between South Shields and Whitburn
D. At Cullercoats, Newbiggin, and on Ratcheugh
Crag, near Alnwick, N.
4. *V. lathyroides*. Spring Vetch.
Sm. Eng. Fl. iii. 283; Eng. Bot. 30; With. iii.
337; Gr. Fl. Eds. 157; Berwick Flora, 161.
At the salt meadows below Gateshead, D. On the
Heugh at Holy Island, on Chapel Hill near Bel-
ford, and other Basaltic heights between it and Bam-
borough, N.—Thompson's Berwick Plants.
5. *V. sepium*. Bush Vetch.
Sm. Eng. Fl. iii. 283; Eng. Bot. 1515; Hook.
Fl. Scot. 215; Berwick Flora, 161.
 β Ray Syn. 321.
 α In hedges and denes, common. β in hedges be-
tween Ryhope and Sunderland, D.
6. *V. bithynica*. Rough-podded Purple Vetch.
Sm. Eng. Fl. iii. 287; Eng. Bot. 1842; With.
iii. 339.

On Sunderland ballast-hills, D.—W. Weighell's
Herb.

295. ERVUM.

1. *E. tetraspermum*. Smooth Tare.
Sm. Eng. Fl. iii. 288; Eng. Bot. 1223; Curt.
Lond. Fasc. i. t. 55; Hook. Fl. Scot. 216.
In hedges and corn fields near Newcastle, N. Near
Lambton and Darlington, D. At Norton, Bil-
lingham, and Wynyard.—J. Hogg, Esq.
2. *E. hirsutum*. Hairy Tare.
Sm. Eng. Fl. iii. 289; Eng. Bot. 970; Curt.
Lond. Fasc. i. t. 54; Hook. Fl. Scot. 216; Ber-
wick Flora, 161.
In fields and meadows, common.

296. ORNITHOPUS.

1. *O. perpusillus*. Common Bird's-foot.
Sm. Eng. Fl. iii. 290; Eng. Bot. 369; Curt.
Lond. Fasc. vi. t. 53; Gr. Fl. Eds. 158; With.
iii. 340.
On Sunderland ballast-hills and on dry banks near
Urpeth, D.

297. HIPPOCREPIS.

1. *H. comosa*. Tufted Horse-shoe Vetch.
Sm. Eng. Fl. iii. 291; Eng. Bot. 31; Hook. Fl.
Scot. 216; With. iii. 341.
On Cronkley Fell, Teesdale.—Mr. J. Backhouse, Sp.

298. HEDYSARUM.

1. *H. Onobrychis*. Saint-foin.
Sm. Eng. Fl. iii. 292; Eng. Bot. 96; With. iii.
342.
In fields near Ryhope and on Harton-down Hill.
On the Magnesian Limestone. In a field at the
Salt Meadows near Gateshead, D., probably intro-
duced by ballast.—Mr. John Thornhill, jun.

299. ASTRAGALUS.

1. *A. glycyphyllos*. Sweet Milk Vetch, Wild Li-
quorice.
Sm. Eng. Fl. iii. 294; Eng. Bot. 203; Hook.
Fl. Scot. 217; With. iii. 344; Gr. Fl. Eds.
159; Berwick Flora, 161.
On the banks of Wear near Durham, in Pella Wood,
at Baydales near Darlington, and on the banks of
Tees a little below the Abbey Bridge near Barnard-
castle, D. Below Low Conniseliffe, D.—S. Rob-
son, Flora, 135. On the banks of Tyne above
Ovingham, and at the Hermitage near Hexham,
N. At Newburn.—Wilson, Syn. 207. On a hill
called Cockle Hill, at Learmouth near Cornhill,
upon the ramparts at Wark Castle on the Tweed,
by the road to Carham, in hilly pastures at Many-
laws under Flodden Hill, and in Warden Banks
near Hexham.—Wallis, 166. On the sea banks at
Budle, N.—Miss Forster, delin.
2. *A. hypoglottis*. Purple Mountain Milk Vetch.
Sm. Eng. Fl. 294; Eng. Bot. 274; Sibth. 227;
Gr. Fl. Eds. 159; With. iii. 343; Berwick
Flora, 161.
On the sandy banks of the sea coast near Whitburn,
South Shields, Seaton Carew, and Blackwell Hall,
six miles from Hartlepool, D. Near the mouth of
Tees, D.—J. Hogg, Esq. On the summit of Rat-
cheugh Crag near Alnwick, and on the links at

Tynemouth, Dunstanborough, Holy Island, Budle, Bamborough, Beadnel, and north of Newbiggin, N. At Spittal Point and banks to the southward, also on the links below Scremerston.—Thompson's Berwick Plants.

300. MELILOTUS.

1. *M. officinalis*. Common Melilot.

Hook. Br. Fl. 327; *Trifolium officinale*, Sm. Eng. Fl. iii. 297; Eng. Bot. 1340; Hook. Fl. Scot. 217; With. iii. 846; Berwick Flora, 162.

In corn fields near Hetton, Houghton-le-Spring, Painsner, and Lumley, D. Near Whitley and Seaton, N. On the ballast hills of Tyne and Wear, abundant, N. and D. On the banks of the Wansbeck near Ashington, and near the bathing well at Cornhill, N.—Wallis, 197. On the sea banks near Berwick.—Dr. G. Johnston.

2. *M. leucontha*. White-flowered Melilot.

Hook. Br. Fl. 327; *Trifolium germanicum*, Smith in Rees's Cyclop.—See With. iii. 847; *M. officinarum germanica*, flore albo.—Tournef. Inst. 407.

On Willington ballast-hills, N. At the Salt Meadows below Gateshead, D.

Most probably introduced from the continent with ballast. Linnaeus might be correct in considering it a white-flowered variety of the common Melilot.

301. TRIFOLIUM.

1. *T. repens*. White Trefoil, Dutch Clover.

Sm. Eng. Fl. iii. 299; Eng. Bot. 1769; Curt. Lond. Fasc. iii. t. 46; Hook. Fl. Scot. 218; Berwick Flora, 162.

In meadows, pastures, and on reclaimed ground upon moors, common.

Variety, with elongated flower-stalks, segments of the calyx leafy, and flowers pale red. Near Westoe and Marsden, D. On Holy Island, N.—Dr. G. Johnston.

2. *T. subterraneum*. Subterranean Trefoil.

Sm. Eng. Fl. iii. 300; Eng. Bot. 1045; Curt. Lond. Fasc. ii. t. 54; With. iii. 848.

On Sunderland ballast-hills, D.—W. Weighell's Herb.

3. *T. ochroleucum*. Sulphur-coloured Trefoil.

Sm. Eng. Fl. iii. 301; Eng. Bot. 1224; Curt. Lond. Fasc. vi. t. 49; With. iii. 854.

On Sunderland ballast-hills, D.—W. Weighell's Herb.

4. *T. pratense*. Common Purple Clover, Honey-suckle Trefoil.

Sm. Eng. Fl. iii. 302; Eng. Bot. 1770; Hook. Fl. Scot. 218; Berwick Flora, 163.

In meadows and pastures, common.

5. *T. medium*. Zig-zag Trefoil.

Sm. Eng. Fl. iii. 202; Eng. Bot. 190; Hook. Fl. Scot. 213; Berwick Flora, 163.

On dry banks and barren places, frequent.

6. *T. maritimum*. Teasel-headed Trefoil.

Sm. Eng. Fl. iii. 303; Eng. Bot. 220; Hook. Lond. t. 57; With. iii. 855.

On Willington ballast-hills, N. On Sunderland ballast-hills, D.—W. Weighell's Herb.

7. *T. arvensc.* Hare's-foot Trefoil.

Sm. Eng. Fl. iii. 305; Eng. Bot. 944; Curt. Lond. Fasc. vi. t. 50; Hook. Fl. Scot. 218; With. iii. 851; Berwick Flora, 164.

On the banks at Friar's Goose near Gateshead, on Fulwell and Tunstall hills near Sunderland, and near Seaton, D. On the bank of Till near Wooler, and near Barwesford, N. Near Bamborough and in the bed of Wooler Water, also on the Hough at Holy Island, and Chapel Hill near Belford.—Thompson's Berwick Plants. At Ingram, N.—W. C. Trevelyan, Esq.

8. *T. scabrum*. Rough Trefoil.

Sm. Eng. Fl. iii. 306; Eng. Bot. 903; Curt. Lond. Fasc. vi. t. 48; Gr. Fl. Eds. 161; With. iii. 849; Berwick Flora, 164.

In Bishopwearmouth Paddock near Sunderland, D. On rocks at Holy Island, N.

9. *T. glomeratum*. Round-headed Trefoil.

Sm. Eng. Fl. iii. 307; Eng. Bot. 1063; Curt. Lond. Fasc. iv. t. 51; With. iii. 849.

On the ballast-hills of Wear, D.—W. Weighell's Herb.

10. *T. striatum*. Soft-knotted Trefoil.

Sm. Eng. Fl. iii. 307; Eng. Bot. 1843; With. iii. 850; Gr. Fl. Eds. 161; Berwick Flora, 164.

On banks at Friar's Goose, on hills near Whitburn, Cleadon, and Sunderland, and at Baydales near Darlington, D. On rocks at Holy Island, Dunstanborough and Bamborough, N. On Basaltic heights from Kylee to Bamborough, N.—Dr. G. Johnston.

11. *T. fragiferum*. Strawberry-headed Trefoil.

Sm. Eng. Fl. iii. 308; Eng. Bot. 1050; Curt. Lond. Fasc. ii. t. 55; Gr. Fl. Eds. 1161; With. iii. 856.

On the banks of Halypike Loch, and on the shores of Tyne below Elswick, N. In marshes by the lower part of Tees, and near Seaton and Hartlepool, D.

12. *T. procumbens*. Hop Trefoil.

Sm. Eng. Fl. iii. 309; Eng. Bot. 945; Gr. Fl. Eds. 162; Berwick Flora, 164; *T. agrarium*, Curt. Lond. Fasc. iii. t. 45; Hudson, 328.

In dry fields and pastures, common.

13. *T. minus*. Lesser Yellow Trefoil.

Sm. Eng. Fl. iii. 310; Eng. Bot. 1256; Berwick Flora, 164; Hook. Fl. Scot. 220; *T. filiforme*, β Sm. Fl. Brit. 793.

β Sm. Eng. Fl. iii. 310; Eng. Bot. 1257; Hook. Fl. Scot. 220.

α In dry fields and pastures, frequent. β on the Magnesian Limestone at Fulwell, Whitburn, Cleadon, and Castle Eden, D.

302. LOTUS.

1. *L. corniculatus*. Common Bird's-foot Trefoil.

Sm. Eng. Fl. iii. 312; Eng. Bot. 2090; Hook. Fl. Scot. 220; Curt. Lond. Fasc. ii. 56; Berwick Flora, 164.

β *L. major*, Sm. Eng. Fl. iii. 313; Eng. Bot. 2091; Gr. Fl. Eds. 163; Berwick Flora, 165; *L. corniculatus* γ , Fl. Brit. 794; β Hook. Fl. Scot. 220.

α On dry banks, but most abundant on the sea coast. β in woods and hedges not uncommon.

303. MEDICAGO.

1. *M. sativa*. Lucerne, Purple Medick.

Sm. Eng. Fl. iii. 317; Eng. Bot. 1749; Hook. Fl. Scot. 220; With. iii. 861; Berwick Flora, 165. Near Silksworth, D. At Croft, D.—Rev. J. Symons. On the ballast hills of Tyne and Wear, N.

- and D. In the field above the quarry at Sunny-side, about a mile south of Berwick.—Dr. Thompson. Near Gun's Green Hill.—Rev. A. Baird. That the Lucerne has been introduced from the Continent there can be no doubt.
2. *M. falcata*. Yellow Sickle Medick.
Sm. Eng. Fl. iii. 317; Eng. Bot. 1016; With. iii. 862.
On Willington ballast-hills, N. On the Salt Meadows near Gateshead Ropery, and Sunderland ballast-hills, D.
3. *M. lupulina*. Black Medick, or Nonesuch.
Sm. Eng. Fl. iii. 318; Eng. Bot. 971; Curt. Lond. Fasc. ii. t. 57; Hook. Fl. Scot. 220; Berwick Flora, 165.
In meadows and pastures, frequent.
4. *M. maculata*. Spotted Medick.
Sm. Eng. Fl. iii. 319; Sibth. 232; *Medicago polymorpha*, Eng. Bot. 1616; Curt. Lond. Fasc. iii. t. 47; With. iii. 864.
On the quay above South Shields, D. On the ballast-hills of Tyne and Wear, N. and D. Under the Banqueting House at Alnwick, N.—Miss Forster, delin.

POLYADELPHIA POLYANDRIA.

304. HYPERICUM.

1. *H. Androsæmum*. Tutsan, Park Leaves.
Sm. Eng. Fl. iii. 323; Eng. Bot. 1225; Curt. Lond. Fasc. iii. t. 48; Hook. Fl. Scot. 221; With. iii. 865.
Near Birch Carr, three miles east of Darlington.—Mr. Backhouse. By a plantation at Twinkham Lea near Seaton, D.—J. Hogg, Esq.
2. *H. quadrangulum*. Square St. John's-wort, St. Peter's-wort.
Sm. Eng. Fl. iii. 324; Eng. Bot. 370; Curt. Lond. Fasc. iv. t. 52; Hook. Fl. Scot. 221; With. iii. 867; Berwick Flora, 167.
By rivers, and in woods and denes, not very common. In Hulne Woods near Alnwick, N.—Mr. J. Davison.
3. *H. perforatum*. Perforated St. John's-wort.
Sm. Eng. Fl. iii. 325; Eng. Bot. 295; Curt. Lond. Fasc. i. t. 57; Woodv. t. 10; Hook. Fl. Scot. 221; Berwick Flora, 167.
In woods and hedges, frequent.
4. *H. dubium*. Imperforate St. John's-wort.
Sm. Eng. Fl. iii. 326; Eng. Bot. 296; With. iii. 868; Hook. Fl. Scot. 221.
Near Oakwood and Ovingham, N. Near Middleton-in-Teesdale and Egglestone, also in Gibside Woods and by the Derwent near Swalwell Bridge, D. Between Newburn and Wylam, and in the Ollers between Ovingham and Ovington, N. At Hollin-side, D.—Mr. R. B. Bowman.
5. *H. humifusum*. Trailing St. John's-wort.
Sm. Eng. Fl. iii. 326; Eng. Bot. 1226; Curt. Lond. Fasc. iii. t. 50; Gr. Fl. Eds. 163; With. iii. 863; Berwick Flora, 167.
In sandy or gravelly places, but not common. Near Neville's Cross, D. In Heaton Dene, N.
6. *H. montanum*. Mountain St. John's-wort.
Sm. Eng. Fl. iii. 327; Eng. Bot. 371; Hook. Fl. Scot. 222; With. iii. 869.

On the Magnesian Limestone in Hawthorn, Ryhope, Dalton and Castle Eden Denes, and near Harrington, D.

7. *H. hirsutum*. Hairy St. John's-wort.
Sm. Eng. Fl. iii. 328; Eng. Bot. 1156; Curt. Lond. Fasc. iii. t. 49; Gr. Fl. Eds. 164; With. iii. 870; Berwick Flora, 168.
In woods and hedges, frequent.
8. *H. pulchrum*. Small Upright St. John's-wort.
Sm. Eng. Fl. iii. 329; Eng. Bot. 1227; Curt. Lond. Fasc. i. t. 56; With. iii. 871; Gr. Fl. Eds. 164; Berwick Flora, 168.
In woods, denes, and bushy places, by no means rare.

SYNGENESIA POLYGAMIA ÆQUALIS.

305. TRAGOPOGON.

1. *T. pratensis*. Yellow Goat's-beard.
Sm. Eng. Fl. iii. 337; Eng. Bot. 434; Hook. Fl. Scot. 226; Berwick Flora, 172.
In meadows and pastures, not uncommon.
2. *T. major*. Willd. Sp. Pl. iii. 1493; Jacq. Aust. i. t. 29.
Sparingly scattered over the whole of North Durham, N.—Dr. G. Johnston, MSS.
One of the most interesting additions made of late years to the English Flora.

306. PICRIS.

1. *P. echioides*. Bristly Ox-tongue.
Sm. Eng. Fl. iii. 339; Eng. Bot. 972; Curt. Lond. Fasc. iii. t. 51; With. iii. 877; Berwick Flora, 173; *Helminthia echioides*, Hook. Br. Fl. 338.
On St. Anthon's ballast-hills, N. On the sea coast between Whitburn and Sunderland, and between Stockton and Norton, where it was observed by Lawson.—See Wilson's Syn. 37; also near Seaton, D. By the Sunderland road near East Boldon.—Mr. J. Thornhill, jun. In lanes south of Billingham.—J. Hogg, Esq. On Cleadon Hills, near Suter Point, D.—Rev. J. Symons. By the Pier road near the Limekiln, Berwick.—Dr. Thompson. Not found in Scotland.
2. *P. hieracioides*. Hawkweed Ox-tongue.
Sm. Eng. Fl. iii. 339; Eng. Bot. 196; Hook. Fl. Scot. 226; With. iii. 878.
On the ballast-hills of Tyne and Wear, N. and D. At the lower end of Hawthorn Dene, D. At Baydales near Darlington.—Mr. Backhouse. Near Norton, D.—J. Hogg, Esq.

307. SONCHUS.

1. *S. arvensis*. Corn Sow-thistle.
Sm. Eng. Fl. iii. 342; Eng. Bot. 674; Curt. Lond. Fasc. iv. t. 53; Hook. Fl. Scot. 226; Berwick Flora, 173.
In corn fields and on hedge banks, frequent.
2. *S. oleraceus*. Common Sow-thistle.
Sm. Eng. Fl. iii. 343; Eng. Bot. 843; Curt. Lond. Fasc. ii. t. 58; Hook. Fl. Scot. 227; Berwick Flora, 173.
 α , β , γ , δ Every where, on cultivated and waste ground.

308. LACTUCA.

1. *L. virosa*. Strong-scented Lettuce.

Sm. Eng. Fl. iii. 345; Eng. Bot. 1957; Woodv. Supp. t. 250; With. iii. 883; Gr. Fl. Eds. 166; Berwick Flora, 173.

On the bank between the Castle at Barnardcastle and the River Tees, near Harton, Coken, and Darlington, and by hedge sides near Low Team, D. In a hedge near Cleadon.—Mr. J. Thornhill, jun. Near Norton, Stockton, and Billingham, D.—J. Hogg, Esq. On the banks of Tweed above Coldstream Bridge, also near Cullercoats, N. From the Union Bridge to Norham Castle, also near Twizell Toll-bar.—Dr. G. Johnston.

309. PRENANTHES.

1. *P. muralis*. Ivy-leaved Wall-jettuce.
Sm. Eng. Fl. iii. 348; Eng. Bot. 457; Curt. Lond. Fasc. v. t. 58; Hook. Fl. Scot. 227; With. iii. 884.
On rocks in damp woods, and on old walls, but not very frequent.

310. LEONTODON.

1. *L. Taraxacum*. Common Dandelion.
Sm. Eng. Fl. iii. 349; Eng. Bot. 510; Curt. Lond. Fasc. i. t. 58; Woodv. t. 3; Hook. Fl. Scot. 227; Berwick Flora, 174.
 β *L. palustre*, Sm. Eng. Fl. iii. 350; Eng. Bot. 553; Hook. Fl. Scot. 227; With. iii. 886, var. 3; Berwick Flora, 174.
 α On cultivated ground, and in meadows and pastures, everywhere.
 β At Prestwick Carr, N. Near Middleton-in-Teesdale, D. On Seaton Moor in marshy places, D.—Mr. J. Backhouse.

311. APARGIA.

1. *A. hispida*. Rough Hawkbit.
Sm. Eng. Fl. iii. 351; Hook. Fl. Scot. 227; Berwick Flora, 175; *Hedypnois hispida*, Eng. Bot. 554; Fl. Brit. 823; *Leontodon hispidum*, Curt. Lond. Fasc. v. t. 56; With. iii. 888.
In pastures, common.
2. *A. autumnalis*. Autumnal Hawkbit.
Sm. Eng. Fl. iii. 353; Hook. Fl. Scot. 228; Berwick Flora, 175; *Hedypnois autumnalis*, Eng. Bot. 830; *Leontodon autumnale*, With. iii. 887.
In meadows and pastures, common.
3. *A. hirta*. Deficient Hawkbit.
Sm. Eng. Fl. iii. 352; Hook. Fl. Scot. 228; *Hedypnois hirta*, Fl. Brit. 824; Eng. Bot. 554; *Leontodon hirtum*, Curt. Lond. Fasc. vi. t. 59; With. iii. 889; *Thrinicia hirta*, Hook. Br. Fl. 341.
On dry pastures and on heaths, but not very common; on the Sea banks between Tynemouth and Cullercoats, N.

312. HIERACIUM.

1. *H. Pilosella*. Mouse-ear Hawkweed.
Sm. Eng. Fl. iii. 356; Eng. Bot. 1093; Curt. Lond. Fasc. iv. t. 54; Hook. Fl. Scot. 229; With. iii. 890; Berwick Flora, 175.
On dry banks and in open pastures, not rare.
2. *H. murorum*. Wall Hawkweed, Golden Lungwort.

Sm. Eng. Fl. iii. 359; Eng. Bot. 2082; Gr. Fl. Eds. 168; With. iii. 896; Berwick Flora, 175.
 β *H. maculatum*, Sm. Eng. Fl. iii. 360; Eng. Bot. 2121.

α On Limestone rocks and in woods at Hilton, Ryehope, Hawthorn, and Castle Eden Denes, also on the banks of Tyne at Hebburn Quay, D. On the banks of Tweed beyond Yarrow Haugh.—Thompson's Berwick Plants; also from Ord Mill to above the Union Bridge, and on rocks above Killoe.—Dr. G. Johnston. At Swausfield, N.—Mr. J. Davison.
 β Near Cauldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.

3. *H. sylvaticum*. Wood Hawkweed.

Sm. Eng. Fl. iii. 361; Eng. Bot. 2031; Berwick Flora, 175; Gr. Fl. Eds. 169; With. iii. 898; *Hieracium* ———, Northumberland and Durham Guide, vol. i. No. 686, and ii. preface vi.

On old coal-pit heaps and barren ground near Gateshead and Newcastle, N. and D. On the Towns' Walls and Garden Walls near the Fever Hospital, and on St. Anthon's ballast-hills, N. Near Tweedmouth, between the Foundry and Spittal, and by the Till at Wooler Bridge, N.—Dr. G. Johnston.

4. *H. paludosum*. Succory-leaved Mountain Hawkweed.

Sm. Eng. Fl. iii. 363; Eng. Bot. 1094; Gr. Fl. Eds. 169; With. iii. 895; Berwick Flora, 175. In moist woods and boggy places, not rare, N. and D. At West Ord near Berwick.—Dr. G. Johnston.

5. *H. sabaudum*. Shrubby broad-leaved Hawkweed.

Sm. Eng. Fl. iii. 367; Eng. Bot. 349; Hook. Fl. Scot. 233; Berwick Flora, 176.

In denes, woods, and thickets, frequent.

6. *H. umbellatum*. Narrow-leaved Hawkweed.

Sm. Eng. Fl. iii. 369; Eng. Bot. 1771; Curt. Lond. Fasc. vi. t. 58; Hook. Fl. Scot. 233; With. iii. 899; Berwick Flora, 176.

Near South Shields Law, and on the banks forming the coast at Rocoe-gill near Monkwearmouth, D. In Schull Wood, D.—Mr. J. Backhouse. Near Henshaw and Bavington, N.—Miss Emma Trevelyan.

313. CREPIS.

1. *C. fetida*. Stinking Hawk's-beard.

Sm. Eng. Fl. iii. 370; Eng. Bot. 406; With. iii. 900; *Borkhausia fetida*, Hook. Br. Fl. 347.

On St. Anthon's and Willington ballast-hills, N. On the Sunderland ballast-hills, D.

2. *C. tectorum*. Smooth Hawk's-beard, Smooth Succory Hawkweed.

Sm. Eng. Fl. iii. 372; Eng. Bot. 1111; Curt. Lond. Fasc. v. t. 55; Hook. Fl. Scot. 233; Berwick Flora, 176.

In dry meadows, pastures, and on walls, frequent.

3. *C. bicusis*. Rough Hawk's-beard.

Sm. Eng. Fl. iii. 373; Eng. Bot. 149; With. iii. 902.

In fields near Team, South Shields Law, and Whitburn, D. On the coast south of Sunderland, D.—Mr. R. Waugh. Near Elswick, and between Newcastle and Jesmond, also at Newbiggin on the coast, N. On the ballast-hills of Tyne and Wear, N. and D.

These appear its most northern localities.

314. HYPOCHÆRIS.

1. *H. glabra*. Smooth Cat's-ear.

- Sm. Eng. Fl. iii. 375; Eng. Bot. 575; Curt. Lond. Fasc. iii. t. 53; Hook. Fl. Scot. 234; With. iii. 904.
 On Sunderland ballast-hills, D.
 2. *H. radicata*. Long Rooted Cat's-ear.
 Sm. Eng. Fl. iii. 376; Eng. Bot. 831; Curt. Lond. Fasc. iii. t. 52; With. iii. 905; Hook. Fl. Scot. 234; Berwick Flora, 176.
 On cultivated and waste ground, common.

315. LAPSANA.

1. *L. communis*. Nipple-wort.
 Sm. Eng. Fl. iii. 377; Eng. Bot. 844; Curt. Lond. Fasc. i. t. 59; Hook. Fl. Scot. 234; Berwick Flora, 176.
 Under hedges and on waste ground, common.

316. CICHORIUM.

1. *C. Intybus*. Wild Succory.
 Sm. Eng. Fl. iii. 379; Eng. Bot. 539; Curt. Lond. Fasc. iv. t. 56; Woodv. Supp. 248; Gr. Fl. Eds. 171; With. iii. 906; Berwick Flora, 177.
 By no means common in the north. On the ballast-hills of Tyne and Wear, in fields near Sunderland, Milkhouse Bourn, and near Murton House, D. Near Wynyard and Norton, D.—J. Hogg, Esq. Near Snipperley, D.—Rev. J. Symons. By the Tweed opposite Spring Gardens.—Thompson's Berwick Plants. In Linden Dene.—C. W. Bigge, Esq., Sp. On Alnwick Moor.—Miss Forster, delin. On the borders of corn fields about Willington and Howdon Pans, N. The Blue flowered Mountain Sonchus or Sow-thistle.—Wallis, 186.

317. ARCTIUM.

1. *A. Lappa*. Burdock, Clot-bur.
 Sm. Eng. Fl. iii. 380; Eng. Bot. 1228; Curt. Lond. Fasc. iv. t. 55; Woodv. t. 15; Hook. Fl. Scot. 235; Berwick Flora, 177.
 β *A. Bardana*, Sm. Eng. Fl. iii. 381; Willd. Sp. Pl. iii. 1632; Berwick Flora, 177; Eng. Bot. 2478; *A. Lappa* β, Hook. Fl. Scot. 235.
 α and β By way sides and on waste ground, not rare. The variety β differs from α by a cobweb-like down on its calyx.

318. SERRATULA.

1. *S. tinctoria*. Common Saw-wort.
 Sm. Eng. Fl. iii. 382; Eng. Bot. 38; With. iii. 909; Hook. Fl. Scot. 235.
 On Cleadon Hills, on the sea coast near Whitburn, on hedge banks near Hilton Ferry, at Hamsterley, and near Winch Bridge, Teesdale, D. Near Norton.—J. Hogg, Esq. In fields near Walker, N. At West Dipton near Hexham, N.—Wallis, 190.

319. CARDUUS.

1. *C. nutans*. Musk Thistle.
 Sm. Eng. Fl. iii. 384; Eng. Bot. 1112; Gr. Fl. Eds. 171; With. iii. 913; Wilson, Syn. 54; Berwick Flora, 178; Hook. Eng. Fl. 349.
 On waste ground and in fallow fields, not rare.
 2. *C. acanthoides*. Curled, or Welled Thistle.
 Sm. Eng. Fl. iii. 385; Eng. Bot. 973; Gr. Fl. Eds. 172; With. iii. 911; Berwick Flora, 178.

By road sides, commonly west of Newcastle, N. and D.

3. *C. tenuiflorus*. Slender-flowered Thistle.
 Sm. Eng. Fl. iii. 385; Eng. Bot. 412; Curt. Lond. Fasc. vi. t. 55; Gr. Fl. Eds. 172; With. iii. 912; Berwick Flora, 178.
 On the borders of fields and by road sides, not rare; but most abundant near the sea coast, N. and D.
 4. *C. marianus*. Milk Thistle.
 Sm. Eng. Fl. iii. 386; Eng. Bot. 976; Curt. Lond. Fasc. iii. t. 54; Gr. Fl. Eds. 172; With. iii. 915; Berwick Flora, 178.
 On Holy Island opposite the rock called St. Cuthbert's Island, by Willington Bourn near Howdon Pans, in Tynemouth Castle Yard, where it was noticed by Wallis, and near Close House, N. At Hartlepool, and on the banks of Wear at Durham. At Haughton.—Mr. Backhouse. Near Norton, D.—J. Hogg, Esq. On Bank Hill and other parts of the Ramparts, and on Castle Banks, Berwick.—Dr. G. Johnston.

320. CNICUS.

1. *C. lanceolatus*. Spear Plume-thistle.
 Sm. Eng. Fl. iii. 387; Hook. Fl. Scot. 236; Berwick Flora, 179; *Carduus lanceolatus*, Eng. Bot. 107; With. iii. 912.
 On waste ground, common.
 2. *C. palustris*. Marsh Plume-thistle.
 Sm. Eng. Fl. iii. 388; Hook. Fl. Scot. 236; Berwick Flora, 179; *Carduus palustris*, Eng. Bot. 974; Curt. Lond. Fasc. vi. t. 56; With. iii. 910.
 In moist meadows and marshy places, frequent.
 3. *C. arvensis*. Creeping Plume-thistle.
 Sm. Eng. Fl. iii. 389; Hook. Fl. Scot. 237; Berwick Flora, 179; *Carduus arvensis*, Eng. Bot. 975; Curt. Lond. Fasc. vi. t. 57; With. iii. 914.
 On cultivated land and by road sides, common; var. *flore albo*, at Holy Island, N.
 4. *C. eriophorus*. Woolly-headed Plume-thistle.
 Sm. Eng. Fl. iii. 390; Gr. Fl. Eds. 173; *Carduus eriophorus*, Eng. Bot. 386; With. iii. 915.
 In the lane near the Quarry at Fulwell, D. Between Pitlington Hall-garth and Elemore, D.—Mr. J. Backhouse. Under the hill by the Church at Wallsend, N.—Wallis, 187.
 5. *C. heterophyllus*. Melancholy Plume-thistle.
 Sm. Eng. Fl. iii. 392; Gr. Fl. Eds. 173; Berwick Flora, 179; *Carduus heterophyllus*, Eng. Bot. 675; With. iii. 917.
 By the road side near Haltwhistle, in ditches north of Cambo, on the banks of Tyne at the King's Meadows, also near Allendale Town, at Shewing Shields, on the banks of Reed, and at the foot of Cheviot, N. Near Roadley and Long Witton.—W. C. Trevelyan, Esq. Common in moist alpine woods, N.—Wallis, 186. On Teesdale Forest, in Gibside Woods, Castle Eden Dene, and near Saltwellside, and on the banks of Tyne opposite Scotswood, D.
 6. *C. pratensis*. Meadow Plume-thistle.
 Sm. Eng. Fl. iii. 393; Hook. Fl. Scot. 237; *Carduus pratensis*, Eng. Bot. 177; With. iii. 916.
 In Twizell House Wood.—Rev. J. Dodd, Turner and Dillwyn's Guide. There is a specimen in

Weighell's Herbarium, marked the county Durham.—Mrs. S. Brand.
Wallis, at p. 186, mentions *Cnicus acaulis*, as "not unfrequent in mountainous pastures and on dry banks," but never having met with this plant in the north of England, and our sub-alpine pastures being an unlikely situation for this native of the chalky downs of the south; I conclude the author of the History of Northumberland, must have mistaken the species.

321. ONOPORDUM.

1. *O. Acanthium*. Cotton-thistle.
Sm. Eng. Fl. iii. 395; Eng. Bot. 977; Curt. Lond. Fasc. v. t. 57; Hook. Fl. Scot. 238; With. iii. 919; Berwick Flora, 179.
On waste ground and hedge banks, but not very common, except near the sea coast. Near the Scotch Gate, Berwick.—Dr. Thompson.

322. CARLINA.

1. *C. vulgaris*. Common Carline.
Sm. Eng. Fl. iii. 397; Eng. Bot. 1144; Hook. Fl. Scot. 238; With. iii. 920; Berwick Flora, 180.
On dry heathy pastures, not rare; also on the sea coast.

323. BIDENS.

1. *B. tripartita*. Trifid Bur-marygold.
Sm. Eng. Fl. iii. 398; Eng. Bot. 1113; Curt. Lond. Fasc. iv. t. 57; With. iii. 921; Hook. Fl. Scot. 238.
In ditches at Lamesley, near Chester-le-street, and Durham, D. At Prestwick Carr, N. In a ditch near Corbridge, N.—Mr. F. Scott.
2. *B. cernua*. Nodding Bur-marygold.
Sm. Eng. Fl. iii. 399; Eng. Bot. 1114; Curt. Lond. Fasc. iii. t. 55; With. iii. 921; Gr. Fl. Eds. 174.
In ditches near Chester-le-Street, D. At Prestwick Carr, N. Near Crow Hall Mill opposite Ridley Hall, N.—Mr. J. Thompson.

324. EUPATORIUM.

1. *E. cannabinum*. Hemp-agrimony.
Sm. Eng. Fl. iii. 400; Eng. Bot. 428; Hook. Fl. Scot. 238; Berwick Flora, 180.
On the banks of rivers and in watery places.

SYNGENESIA POLYGAMIA
SUPERFLUA.

325. TANACETUM.

1. *T. vulgare*. Common Tansey.
Sm. Eng. Fl. iii. 405; Eng. Bot. 1229; Woodv. t. 115; Berwick Flora, 180; Hook. Fl. Scot. 239; β Dill. Ray's Syn. 188; With. iii. 925, var. 2.
 α On the borders of fields and banks of rivers, N. and D. By the Tweed and Till, N.—Thompson's Berwick Plants. β in a lane near Wolsington Hall, N. By the Tees near Conniscliffe, D.—Mr. E. Robson.

326. ARTEMISIA.

1. *A. maritima*. Sea Wormwood.

VOL. II.

Sm. Eng. Fl. iii. 407; Woodv. t. 122; Eng. Bot. 1706; Gr. Fl. Eds. 175; With. iii. 926; Berwick Flora, 181.

β Hook. Br. Fl. 355; *A. gallica*, Sm. Eng. Fl. iii. 408; Eng. Bot. 1001 and 1706, at the bottom; Gr. Fl. Eds. 174; Berwick Flora, 181.

α On the shores of Wear near Hilton Castle, also at Hartlepool and Seaton, D. Near the Tees' mouth, D.—J. Hogg, Esq. On the shores of Tyne at Coble Dene, and at the mouth of Wallsend Bourn, N. On the coast beyond Goswick, and on Emblestones. Thompson's Berwick Plants. On a rock near Howick, called Rumble-churn.—Wallis, 169. β by Coble Dene and Wallsend Bourn, and on a rock called St. Cuthbert's Island, Holy Island, N., where it was observed by Turner.—See Wallis, 169. The variety β , Upright-flowered Sea Wormwood, may be distinguished from α by its flowers being erect, those of α droop. This cannot be a specific difference I should presume.

2. *A. Absinthium*. Common Wormwood.

Sm. Eng. Fl. iii. 408; Eng. Bot. 1230; Woodv. t. 120; Hook. Fl. Scot. 239; Berwick Flora, 181.

About villages and on waste ground, particularly abundant near the sea coast.

3. *A. vulgaris*. Mugwort.

Sm. Eng. Fl. iii. 409; Eng. Bot. 978; Woodv. t. 121; Hook. Fl. Scot. 240; Berwick Flora, 182.
On waste ground and about hedges, common.

327. GNAPHALIUM.

1. *G. dioicum*. Mountain Cudweed.
Sm. Eng. Fl. iii. 413; Eng. Bot. 267; Lightfoot, 470, t. 20, f. 1; With. iii. 930; Wilson's Syn. 46; Berwick Flora, 182.

On dry heathy pastures and moors, N. and D.

2. *G. rectum*. Upright Cudweed.
Sm. Eng. Fl. iii. 415; Eng. Bot. 124; Berwick Flora, 182; With. iii. 931; *G. sylvaticum* β , Hook. Fl. Scot. 340; Hudson, 360.

In woods and sandy pastures, but not very common N. and D. In the Quarry on Sunnyside Moor, at Ord Hill, and road side above Fenham, N.—Dr. G. Johnston.

3. *G. uliginosum*. Marsh Cudweed.
Sm. Eng. Fl. iii. 416; Eng. Bot. 1194; Hook. Fl. Scot. 241; Berwick Flora, 182.

In sandy places where water has stagnated, frequent.

4. *G. minimum*. Least Cudweed.
Sm. Eng. Fl. iii. 417; Eng. Bot. 1157; Hook. Fl. Scot. 241; Berwick Flora, 182.

In barren sandy places, not rare.

5. *G. germanicum*. Common Cudweed.
Sm. Eng. Fl. iii. 418; Eng. Bot. 946; Hook. Lond. t. 43; Fl. Scot. 241; Berwick Flora, 182.

In barren fields and on waste ground, frequent.

328. CONYZA.

1. *C. squarrosa*. Plowman's Spikenard.
Sm. Eng. Fl. iii. 420; Eng. Bot. 1195; Hook. Fl. Scot. 241; With. iii. 935.
On Willington ballast-hills, N.

329. ERIGERON.

1. *E. canadense*. Canada Flea-bane.

N

- Sm. Eng. Fl. iii. 421; Eng. Bot. 2019; With. iii. 936.
 On Sunderland ballast-hills, D.—W. Weighell's Herb.
 2. *E. acre*. Blue Flea-bane.
 Sm. Eng. Fl. iii. 422; Eng. Bot. 1158; Curt. Lond. Fasc. i. t. 60; Hook. Fl. Scot. 242; With. iii. 937; Berwick Flora, 183.
 In Castle Eden Dene, also at Fawdon-slate and Byers's Quarry near Whitburn, on the sand-hills at Hartlepool, and on Hebburn and Sunderland ballast-hills, D. At Hesledon Dene, and pastures at Owton, near Greatham, D.—J. Hogg, Esq. On Holy Island links north of the Castle, and on St. Anthon's and Willington ballast-hills, N.

330. TUSSILAGO.

1. *T. Farfara*. Colt's-foot.
 Sm. Eng. Fl. iii. 425; Eng. Bot. 429; Woodv. t. 13; Curt. Lond. Fasc. ii. t. 60; Hook. Fl. Scot. 242; Berwick Flora, 183.
 In moist woods and fields, very common.
 2. *T. Petasites*. Common Butter-bur.
 Sm. Eng. Fl. iii. 425; Eng. Bot. 431; Berwick Flora, 183; Curt. Lond. Fasc. ii. t. 59; β *T. hybrida*, Eng. Bot. 430; With. iii. 940; *T. Petasites fcm.*, Hook. Lond. t. 129; Gr. Fl. Eds. 177.
 α In moist woods and on the sandy banks of rivers; β on the banks of Tyne at the foot of Scotswood Dene, in Walbottle Dene, and near Haltwhistle, N. On the banks of the Derwent at Derwent-haugh, D. Near Darlington, D.—Mr. E. Robson.

331. SENECEO.

1. *S. vulgaris*. Common Groundsel, Simson.
 Sm. Eng. Fl. iii. 428; Eng. Bot. 747; Curt. Lond. Fasc. i. t. 61; Hook. Fl. Scot. 243.
 On cultivated ground, everywhere.
 2. *S. viscosus*. Stinking Groundsel.
 Sm. Eng. Fl. iii. 429; Eng. Bot. 32; Gr. Fl. Eds. 178; With. iii. 941; Berwick Flora, 184.
 By road sides and on the ballast-hills. Near Seaton and Hartlepool, D. Near Benwell, Alemouth, and in Heaton Dene, N. About the Riding Stable at Easington near Belford, N.—Dr. G. Johnston.
 3. *S. sylvaticus*. Mountain Groundsel.
 Sm. Eng. Fl. iii. 430; Eng. Bot. 748; Berwick Flora, 184; Hook. Fl. Scot. 244; With. iii. 942.
 β *S. lividus*, Linn. Sp. Pl. 1216; Sm. Eng. Fl. iii. 429; Eng. Bot. 2515; Hook. Fl. Scot. 243; Lindley's Syn. 146; With. iii. 943.
 On hedge banks in Jesmond fields, and similar situations about Newcastle, not rare, N. and D. In Teesdale near Middleton, and in Raby Park, D. In the lane between Sadbergh and Norton, D.—J. Hogg, Esq. Near Berwick.—Dr. G. Johnston.
 On Alnwick Moor, N.—Mr. J. Davison.
 Variety β is the same plant in a more luxuriant state, from growing on fresh turned-up ground.
 4. *S. tenuifolius*. Hoary Ragwort.
 Sm. Eng. Fl. iii. 432; Eng. Bot. 574; Berwick Flora, 184; With. iii. 944; *S. crucifolius*, Hudson, 366; Curt. Lond. Fasc. v. t. 64.
 By hedges in the Magnesian Limestone district, frequent. At Baydales near Darlington, D.—Mr.

- E. Robson. On the banks of Tweed near Ord Mill, N.—Dr. Thompson.
 5. *S. Jacobaea*. Common Ragwort.
 Sm. Eng. Fl. iii. 433; Eng. Bot. 1130; Hook. Fl. Scot. 244; Berwick Flora, 184.
 In pastures and on waste ground, common.
 A peculiar variety, with remarkably long petals, was gathered in 1828, about three quarters of a mile above Swalwell New Bridge, D., by Mr. John Thornhill, jun., Curator of the Newcastle Museum.
 6. *S. aquaticus*. Marsh Ragwort.
 Sm. Eng. Fl. iii. 434; Eng. Bot. 1131; Gr. Fl. Eds. 179; With. iii. 946; Berwick Flora, 185.
 In marshy places, frequent.
 7. *S. saracenicus*. Broad-leaved Ragwort.
 Sm. Eng. Fl. iii. 435; Eng. Bot. t. 2211; Hook. Fl. Scot. 244; With. iii. 947.
 By the bourro side near Hallington, between five and six miles south-west of Capheaton, N.—Mr. J. Thompson, Sp.
 Probably the out-cast of some garden.

332. ASTER.

1. *A. Tripolium*. Sea Starwort.
 Sm. Eng. Fl. iii. 436; Eng. Bot. 87; Gr. Fl. Eds. 179; With. iii. 948; Berwick Flora, 185.
 On the sea coast and in salt marshes on Tweed, Aln, Blyth, Tyne, Wear, and Tees, N. and D.

333. SOLIDAGO.

1. *S. Virgaurea*. Common Golden-rod.
 Sm. Eng. Fl. iii. 438; Eng. Bot. 301; Berwick Flora, 185; Hook. Fl. Scot. 244; γ *S. cambrica*, Hudson, 367; With. iii. 950.
 α In woods and on dry banks of denes, N. and D. Near Berwick.—Dr. G. Johnston. γ on Basaltic rocks at Winch Bridge, and Cauldron Snout in Teesdale, D.

334. INULA.

1. *I. Helcnium*. Elecampane.
 Sm. Eng. Fl. iii. 440; Eng. Bot. 1546; Woodv. t. 108; Hook. Fl. Scot. 245; With. iii. 953.
 In Castle Eden Dene, on the north side, about a mile from the sea, D.—Mr. Janson, Sp. In many places by the River Tees, D.—Robson's Flora, 160.
 2. *I. dysenterica*. Common Flea-bane.
 Sm. Eng. Fl. iii. 440; Eng. Bot. 1115; Berwick Flora, 185; Curt. Lond. Fasc. iii. 56; Hook. Fl. Scot. 245; With. iii. 954; *Pulicaria dysenterica*, Hook. Br. Fl. 363.
 In ditches and damp places by road sides, not rare, N. and D. Near Berwick.—Dr. G. Johnston.

335. DORONICUM.

1. *D. Pardalianches*. Great Leopard's-bane.
 Linn. Sp. Pl. 1247; Eng. Bot. 2654; Hook. Fl. Scot. 245; Br. Fl. 364; Fl. Lond. t. 88; Light-foot, 485.
 Naturalized on the banks of Wear at Durham, below Mr. Fox's garden. Gathered on the cold mountains of Northumberland by Dr. Penny.—Gerard.
 A very unlikely habitat. I have a specimen of the *Doronicum*, figured in Eng. Bot. at 630, gathered by Mr. Maughan in woods near Culross, Perthshire.

336. BELLIS.

1. *B. perennis*. Common Daisy.
Sm. Eng. Fl. iii. 447; Eng. Bot. 424; Curt.
Lond. Fasc. i. t. 62; Hook. Fl. Scot. 246.
In meadows and pastures, everywhere.

337. CHRYSANTHEMUM.

1. *C. Leucanthemum*. Great White Ox-eye, Moon Daisy.
Sm. Eng. Fl. iii. 449; Eng. Bot. 601; Curt.
Lond. Fasc. v. t. 62; Hook. Fl. Scot. 246;
Berwick Flora, 187.
In fields and pastures, very common.
2. *C. segetum*. Yellow Ox-eye, Corn Marygold.
Sm. Eng. Fl. iii. 449; Eng. Bot. 540; Curt.
Lond. Fasc. vi. t. 60; Gr. Fl. Eds. 180; With.
iii. 959; Berwick Flora, 187.
Rare in the north of England. Near Rennoldson's Mill in Heaton Dene, and in corn-fields near Haltwhistle, N. On the ballast-bills of Tyne and Wear, N. and D. In corn fields near Norton, D.—John Hogg, Esq.

338. PYRETHRUM.

1. *P. Parthenium*. Common Feverfew.
Sm. Eng. Fl. iii. 451; Eng. Bot. 1231; Hook.
Fl. Scot. 246; Berwick Flora, 188; *Matricaria Parthenium*, With. iii. 960; Woodv. t. 249.
On hedge banks and in waste places, but generally near houses, N. and D. About Berwick.—Dr. G. Johnston.
2. *P. inodorum*. Corn Feverfew, Scentless May-weed.
Sm. Eng. Fl. iii. 452; Eng. Bot. 676; Berwick Flora, 188; Hook. Fl. Scot. 246; Lond. t. 101;
Chrysanthemum inodorum, With. iii. 958.
In corn fields and by way sides, everywhere; variety, *flore pleno* in fields near Castle Eden, D.
3. *P. maritimum*. Sea Feverfew.
Sm. Eng. Fl. iii. 452; Eng. Bot. 979; Gr. Fl. Eds. 181; Berwick Flora, 188; *Matricaria maritima*, With. iii. 960.
On rocks below Hawthorn Dene, at Byers's Quarry, Whitburn, and on the sea coast near Sunderland, D. Near Tynemouth Castle, and on Dunstanborough and Bamborough Castle rocks, also at Holy Island, N.

339. MATRICARIA.

1. *M. Chamomilla*. Common Wild Chamomile.
Sm. Eng. Fl. iii. 454; Eng. Bot. 1232; Curt.
Lond. Fasc. v. t. 63; Hook. Fl. Scot. 246;
With. iii. 961.
On rubbish near Gateshead, Monkton, and Newcastle, and on the ballast-hills of Tyne and Wear, N. and D. By hedges about Ponteland, N. Near Twizell House Mill, N.—Rev. J. Dodd, Turner and Dillwyn's Guide.

340. ANTHEMIS.

1. *A. maritima*. Sea Chamomile.
Sm. Eng. Fl. iii. 455; Eng. Bot. 2370; With. iii. 965.
At Sunderland, D.—Mr. E. Robson in Eng. Bot., the only British locality.

Probably gathered on the ballast-bills, but there was no specimen of this rare plant in W. Weighell's Herb.

2. *A. nobilis*. Common Chamomile.
Sm. Eng. Fl. iii. 456; Eng. Bot. 980; Woodv. t. 103; Hook. Fl. Scot. 247; With. iii. 963.
Between Lintz-green Hall and the Turnpike, D.—Mr. R. Waugh and Mr. J. Thornhill. On Sunderland ballast-bills.—W. Weighell's Herb.
3. *A. arvensis*. Corn Chamomile.
Sm. Eng. Fl. iii. 457; Eng. Bot. 602; With. iii. 962; Gr. Fl. Eds. 181; Berwick Flora, 188.
In corn fields and on rubbish near Gateshead, D. In Heaton Dene near Rennoldson's Mill, N. Near the inn at Doddington Moor Bank and Cheswick buildings.—Dr. G. Johnston. By the old tower near Magdalen-field Farm House.—Thompson's Berwick Plants.
4. *A. Cotula*. Stinking May-weed, or Chamomile.
Sm. Eng. Fl. iii. 458; Eng. Bot. 1772; Curt.
Lond. Fasc. v. t. 61; Gr. Fl. Eds. 182; With. iii. 963.
By road sides near Harton, and among corn near Stella, D. Rare in the north of England.
5. *A. tinctoria*. Ox-eye Chamomile.
Sm. Eng. Fl. iii. 459; Eng. Bot. 1472; Hook.
Fl. Scot. 247; With. iii. 965.
On a bank by the river Tees not far from Sockburn.—Ray, Syn. 183. It has often been sought there of late years without success.—Robson's Flora, printed in 1777, p. 165. On Sunderland ballast hills, D.—W. Weighell's Herb. By the road side near St. Anthon's, N.

341. ACHILLEA.

1. *A. Ptarmica*. Sneezewort, Yarrow, Goose-tongue.
Sm. Eng. Fl. iii. 460; Eng. Bot. 757; Curt.
Lond. Fasc. v. t. 60; Hook. Fl. Scot. 248;
Berwick Flora, 189.
In moist meadows, and by rivulets.
2. *A. Millefolium*. Common Yarrow, Milfoil.
Sm. Eng. Fl. iii. 462; Eng. Bot. 758; Curt.
Lond. Fasc. vi. t. 61; Woodv. t. 64; Hook.
Fl. Scot. 248; Berwick Flora, 189.
In meadows and pastures, abundant.

SYNGENESIA POLYGAMIA FRUSTRANEA.

342. CENTAUREA.

1. *C. Jacca*. Brown Radiant Knapweed.
Sm. Eng. Fl. iii. 464; Eng. Bot. 1678; Hook. Fl. Scot. 248.
On Willington ballast-hills, N. On Hebburn and Jarrow ballast-hills, D.
2. *C. nigra*. Black or Lesser Knapweed.
Sm. Eng. Fl. iii. 465; Eng. Bot. 278; Hook. Fl. Scot. 248; Berwick Flora, 189.
 β flowers radiated.—Ray, Syn. 199; With. iii. 970, var. 2.
 α In pastures and by road sides, common. β in Walbottle Dene, and near the Powder Magazine at Walker, N.
3. *C. Cyanus*. Corn Blue-bottle.
Sm. Eng. Fl. iii. 466; Eng. Bot. 277; Curt.

- Lond. Fasc. vi. t. 62; Gr. Fl. Eds. 183; With. iii. 968; Berwick Flora, 189.
- Rare in the north of England. In corn fields on Millfield Plain, N. In Tweedmouth fields.—Thompson's Berwick Plants. Between Auk Grange and Corbridge, N.—Mr. F. Scott. Near Conniscliffe.—Mr. Backhouse. Near Norton, Seaton, and Stainton, D.—J. Hogg, Esq. In corn fields near Berwick, but not common.—Dr. G. Johnston. On Alnwick Moor, N.—Miss Forster, delin.
4. *C. Scabiosa*. Greater Knapweed.
Sm. Eng. Fl. iii. 467; Eng. Bot. 56; Gr. Fl. Eds. 183; With. iii. 971.
On the borders of fields, particularly on the Magnesian Limestone in the county of Durham.
5. *C. Calcitrapa*. Common Star-thistle.
Sm. Eng. Fl. iii. 468; Eng. Bot. 125; With. iii. 971.
On the west end of St. Anthon's ballast-hills, N., where it has been naturalized for many years. On Hebburn and Jarrow ballast-hills, D.

SYNGENESIA POLYGAMIA NECESSARIA.

343. CALENDULA.

1. *C. arvensis*. Field Marigold.
With. iii. 972; Wild. Sp. Pl. iii. 2339.
Naturalized on Sunderland ballast-hills, D.—W. Weighell's Herb.
Scarcely entitled to a place in an English Flora, though admitted by the late Dr. Withering.

GYNANDRIA MONANDRIA.

344. ORCHIS.

1. *O. bifolia*. Butterfly Orchis.
Sm. Eng. Fl. iv. 9; Eng. Bot. 22; Curt. Lond. Fasc. vi. t. 65; Berwick Flora, 191; With. ii. 27; *Habenaria bifolia*, Gr. Fl. Eds. 185.
 β Ray, Syn. 380.
 α In meadows at Gibside, Beamish, Medomsley, Egglestone, Witton-le-Wear, Dinsdale, and Castle Eden, D. Near Woolcoats, Rothbury, Shewing-shields, Cambo, and Wallington, N. On mountainous meadows, N.—Wallis, 228. On moors in the vicinity of Berwick, but not frequent.—Dr. G. Johnston.
 β In barren pastures near Fox Hill, between Norton and Sadbergh, six miles from Norton, D.—J. Hogg, Esq.
2. *O. pyramidalis*. Pyramidal Orchis.
Sm. Eng. Fl. iv. 10; Eng. Bot. 110; Hook. Fl. Scot. 251; Lond. t. 106; With. ii. 29.
In fields on the Magnesian Limestone near Houghton-le-Spring, Castle Eden, and Hartlepool; on the coast south of Sunderland, also near Whitburn, Cleadon, Fullwell, and at Rocoe Gill, D. Near Gilsland, Haltwhistle, and Wooler, N. In the meadows on the north and north-west side of Crag Lake, under the Roman Wall, N.—Wallis, 227.
3. *O. Morio*. Meadow Orchis.
Sm. Eng. Fl. iv. 11; Eng. Bot. 2059; Curt. Lond. Fasc. iii. t. 59; Hook. Fl. Scot. 250; With. ii. 29.

- On Dunstan Haughs, D., near Prudhoe, N., and in similar situations, but not common.
It does not occur in the vicinity of Berwick.
4. *O. mascula*. Early Purple Orchis.
Sm. Eng. Fl. iv. 11; Eng. Bot. 631; Woodv. t. 90; Berwick Flora, 191; Curt. Lond. Fasc. ii. t. 62; Hook. Fl. Scot. 250; With. ii. 30.
In woods in Northumberland and Durham, frequent, also on the coast between South Shields and Sunderland, D.
5. *O. ustulata*. Dwarf Orchis.
Sm. Eng. Fl. iv. 12; Eng. Bot. 18; With. ii. 31; Hook. Lond. t. 36.
On Fulwell and Boldoo Hills, on the sea coast near Marsden Cottage and Ryhope, and in pastures near the new bridge at Lambton Gate, D. At Baydales, D.—Mr. Backhouse. On the east side of Cleadon Hills, D.—Mr. R. Waugh and Mr. J. Thornhill.
6. *O. albida*. White Cluster-rooted Orchis.
Sm. Eng. Fl. iv. 18; *Satyrium albidum*, Eng. Bot. 505; With. ii. 39; *Habenaria albida*, Hook. Lond. t. 107; Gr. Fl. Eds. 185.
In pastures at Shewing Shields near the Roman Wall, also near Roadley Lake, Fallowlees Bourn, and Baybridge above Blanchland, N. At the north end of Crag Close near Barwesford.—Wallis, 229. In a field between Cambo and the Close Houses, N.—Miss Emma Trevelyan. Near Winch Bridge, and between Whey Syke and Widdy Bank, also on the banks of Nucton Bourn, D.
7. *O. viridis*. Frog Orchis.
Sm. Eng. Fl. iv. 20; *Satyrium viride*, Eng. Bot. 94; With. ii. 37; *Habenaria viridis*, Hook. Lond. t. 130; Fl. Scot. 252.
In meadows at Chester-le-Street, Lampton, Beamish, Urpeth, Castle Eden, Murton, Sunderland, Shincliffe, and Middleton-in-Teesdale, D. Between Norton and Sadbergh, D.—J. Hogg, Esq. Near Low Park End, Gilsland, and Blanchland, N. Near Wallington.—Miss Emma Trevelyan. At the north end of Crag Close near Barwesford.—Wallis, 229. In Hulne woods near Alnwick, N.—Mr. J. Davison.
8. *O. latifolia*. Marsh Orchis.
Sm. Eng. Fl. iv. 21; Eng. Bot. 2308; Berwick Flora, 192; Curt. Lond. Fasc. v. t. 65; Hook. Fl. Scot. 251; With. ii. 33; β Dill. Ray's Syn. 382.
 α In bogs and marshy meadows, not rare. β at Prestwick Carr, N.
Smith remarks that this variety has not been noticed since the time of Dillenius; it differs from α in having flowers of a full rose-red colour. I have gathered it in North Wales as well as in Northumberland, and am inclined to think it is not very rare, but has been overlooked by modern Botanists.
9. *O. maculata*. Spotted Palmate Orchis.
Sm. Eng. Fl. iv. 22; Eng. Bot. 632; Hook. Fl. Scot. 251; Lond. t. 112; With. iii. 34; Berwick Flora, 192.
In woods, meadows, and pastures, frequent.
10. *O. conopsea*. Aromatic Orchis.
Sm. Eng. Fl. iv. 23; Eng. Bot. 10; With. ii. 35; Berwick Flora, 192; *Gynadenia conopsea*, Gr. Fl. Eds. 184.
In Castle Eden and Dalton Dene, and in meadows near Urpeth, Beamish, Tanfield, Witton-le-Wear,

and Sunderland, also on moors in Teesdale and Weardale, D. Near Norton and in Close Wood, also on the cliffs near Black-halls, D.—J. Hogg, Esq. In meadows at Shewing Shields, Wardrew, Hexham, and Corbridge, N. Near Wallington.—Miss Emma Trevelyan. On a bank by the road on the east side of Simonburn Castle, also on the north-west side of the Ostium of the brook at Wark in Tynedale, and on Broad-pool Common, between Con-shields and Blakelaw, near Simonburn, N.—Wallis, 227. In moist meadows and pastures near Berwick not uncommon.—Dr. G. Johnston.

345. OPHRYS.

1. *O. muscifera*. Fly Ophrys, or Orchis.
Sm. Eng. Fl. iv. 29; Eng. Bot. 64; Hook. Lond. t. 31; With. ii. 47.
On the Magnesian Limestone in Hawthorn, Dalton, and Castle Eden Denes, D. Near Middleton-one-Row.—Mr. E. Robson. At Dinsdale, D.—Mr. S. Robson.
2. *O. apifera*. Bee Ophrys, or Orchis.
Sm. Eng. Fl. iv. 30; Eng. Bot. 333; Curt. Lond. Fasc. i. t. 66; With. ii. 48.
On the Magnesian Limestone near the coast at Marsden, Rocoe-gill near Sunderland, and Ryehope, D. At Baydales, D.—Mr. E. Robson.

346. GOODYERA.

1. *G. repens*. Creeping Goodyera.
Sm. Eng. Fl. iv. 33; Hook. Fl. Scot. 253; Lond. 144; *Satyrion repens*, Eng. Bot. 289; With. ii. 39.
"I met with a plant of it in Ramshaw Wood by the road to the mill on the south side of Wark Burn in Tynedale, N.—Wallis, 232." I have no better authority for inserting this northern plant, but wish some Botanist would carefully search Ramshaw Wood, and ascertain which of the *Orchideæ* grow there. Assuredly not this rare inhabitant of the fir woods of Scotland.

347. LISTERA.

1. *L. ovata*. Common Twayblade.
Sm. Eng. Fl. iv. 37; Hook. Fl. Scot. 253; Berwick Flora, 193; *Ophrys ovata*, Eng. Bot. 22; Curt. Lond. Fasc. iii. t. 60; With. iii. 43.
In woods, marshy meadows, and hedge banks, not very common, N. and D. Near Berwick.—Dr. G. Johnston.
2. *L. cordata*. Heart-leaved Mountain Twayblade.
Sm. Eng. Fl. iv. 38; Hook. Fl. Scot. 253; Lond. t. 143; Berwick Flora, 193; Gr. Fl. Eds. 186; *Ophrys cordata*, Eng. Bot. 358; With. ii. 44.
At Gold-hill near Muggleswick, and among the heath at Charnberry near Eglestone, D. On the banks of Beldon Bourn, and on moors in the vicinity, N. By Darden Lough, Roadley Lake, and on Simonside.—W. C. Trevelyan, Esq. On moors to the south of Haltwhistle.—Rev. T. Baker. On the east side of Hedgehope, rather more than half-way up.—Dr. G. Johnston. At Rock Houses near Unthank, N.—Mr. J. Thompson, Sp. On Alpine bogs, not uncommon, N.—Wallis, 233.
3. *L. Nidus-avis*. Bird's-nest Listera.
Sm. Eng. Fl. iv. 38; Hook. Fl. Scot. 253; Lond. t. 58; Berwick Flora, 193; Gr. Fl. Eds. 186; *Ophrys Nidus-avis*, Eng. Bot. 48; With. ii. 40.

VOL. II.

In Castle Eden and Hawthorn Denes, and Whorlton-haugh Wood, Cocken, D. In Capheaton and Wallington Woods.—Miss Emma Trevelyan. In Willimoteswick Dene and near Wardrew.—Mr. J. Thompson, Sp. In Twizell woods, N.—Miss Forster, delin.

348. EPIPACTIS.

1. *E. latifolia*. Broad-leaved Helleborine.
Sm. Eng. Fl. iv. 40; Hook. Fl. Scot. 254; Lond. t. 102; *Scrapias latifolia*, Eng. Bot. 269; With. ii. 51.
In woods, not uncommon. In Heaton Wood near Newcastle, N.
2. *E. palustris*. Marsh Helleborine.
Sm. Eng. Fl. iv. 42; Hook. Fl. Scot. 254; Lond. t. 39; Berwick Flora, 193; *Scrapias palustris*, Eng. Bot. t. 270; With. ii. 52.
In bogs at Hilton and Castle Eden, Butterby, Dinsdale and Cocken, D. Near Polam.—Mr. Backhouse. Near the Dyke House, Hartlepool.—Mr. J. Backhouse. At Norton, D.—J. Hogg, Esq. In bogs near Hexham, N. Near Belsay, Roadley Mill, and Kirkharle.—Miss Emma Trevelyan. In a bog at Slaterfield near Simonburn.—Wallis, 230. In the Pond Field above Spindleston.—Dr. G. Johnston. Near Alnwick, N.—Miss Forster, delin.
3. *E. ensifolia*. Narrow-leaved White Helleborine.
Sm. Eng. Fl. iv. 44; Hook. Fl. Scot. 255; Lond. t. 77; *Scrapias ensifolia*, Eng. Bot. 494; With. ii. 53.
In the main branch of Castle Eden Dene, and in the north branch or Black Dene, growing with the Lady's Slipper, D.—July 9, 1797. In Hawthorn Dene, D.—Rev. T. Baker.

349. MALAXIS.

1. *M. paludosa*. Marsh Tender-tway-blade.
Sm. Eng. Fl. iv. 47; Eng. Bot. 72; Hook. Fl. Scot. 255; With. ii. 50.
In bogs on Eglestone Moor, Teesdale, D. On moors south of Wolsingham, D.—Mr. Backhouse.

GYNANDRIA DIANDRIA.

350. CYPRIPEDIUM.

1. *C. Calceolus*. The Lady's Slipper.
Sm. Eng. Fl. iv. 51; Eng. Bot. 1; Hook. Lond. t. 42; With. ii. 54; Robson's Flora, 150.
In the north branch of Castle Eden Dene, called the Black Dene, and in the main branch opposite the Garden of Eden, also on the first great white rock on the north side nearest the sea coast, D.—July 9, 1797.
I know not who first discovered this fine plant in the county of Durham; it is noticed by S. Robson in his Flora, printed in 1777; but Wilson, who published his Synopsis in 1744, only mentions its Yorkshire localities. "The Lady's Slipper, said by Dr. Turner to grow in a boggy place in a field at Newton-on-the-Moor, near Alnwick, N., is not now observed to grow there."—Wallis. The first edition of Turner's Herbal was printed in 1531, the second in 1568.

Q

MONOECIA MONANDRIA.

351. EUPHORBIA.

1. *E. Peplus*. Petty Spurge.
Sm. Eng. Fl. iv. 60; Eng. Bot. 959; Curt. Lond.
Fasc. i. t. 35; Hook. Fl. Scot. 148.
On cultivated ground, everywhere.
2. *E. exigua*. Dwarf Spurge.
Sm. Eng. Fl. iv. 60; Eng. Bot. 1336; Curt. Lond.
Fasc. iv. t. 36; Gr. Fl. Eds. 106; With. ii. 588;
Berwick Flora, 197.
In corn fields near Cleadon, Fulwell, and Castle Eden,
D. Near Norton, Wynyard, and Seaton, D.—J.
Hogg, Esq. Near Prestwick.—Mr. W. Robert-
son. In Greenfield Moor-fields near Alnwick.
—Mr. J. Davison. By the road side at the Inn
below Mountholy, N.—Dr. G. Johnston
3. *E. Lathyrus*. Caper Spurge.
Sm. Eng. Fl. iv. 61; Eng. Bot. 2225; With. ii.
588.
In corn stubble near Norton, D.—J. Hogg, Esq.
Naturalized on the banks of Wear below Mr. Fox's
garden, Durham.
A very doubtful native.
4. *E. paralia*. Sea Spurge.
Sm. Eng. Fl. iv. 63; Eng. Bot. 195; With. ii.
589.
On Sunderland ballast-hills, D. On Willington bal-
last-hills, N.
Plentiful on the Cumberland coast, but it does not ap-
pear to cross the Solway Frith.
5. *E. helioscopia*. Sun Spurge, Common Wart-wort.
Sm. Eng. Fl. iv. 63; Eng. Bot. 833; Curt. Lond.
Fasc. i. t. 36; Hook. Fl. Scot. 148.
Everywhere, on cultivated ground.
6. *E. stricta*. Upright Warty Spurge.
Sm. Eng. Fl. iv. 64; β Eng. Bot. 333; *E. platy-*
phylla, With. ii. 591, var. 2.
By the race below Rennoldsun's Mill in Heaton
Dene, N.
Probably brought there with corn.
7. *E. Cyparissias*. Cypress Spurge.
Sm. Eng. Fl. iv. 66; Eng. Bot. 840; Gr. Fl. Eds.
106; With. ii. 593.
On the banks of hedges four miles south of Alnwick.
—July 17, 1804; and naturalized on the walls of
Hulne Abbey, N.

352. CALLITRICHE.

1. *C. verna*. Water Starwort.
Sm. Eng. Fl. i. 10; Wahl. Fl. Lapp. 2; *C. aqua-*
tica, Eng. Bot. 722; Hook. Lond. 127; Fl. Scot.
259.
In ditches, ponds, &c.
When growing in deep pools the submersed leaves of
this plant are linear, and in this state it has often
been mistaken for the succeeding species.
2. *C. autumnalis*. Autumnal Water Starwort.
Wahl. Fl. Lapp. 2; Sm. Eng. Fl. i. 10; Berwick
Flora, 3.
In pools of water in the vale below Langley Ford at
the foot of Cheviot.—Dr. G. Johnston.
C. autumnalis, may be considered a rare species with
us, though it is abundant in the deep ditches which
communicate with Derwentwater in Cumberland.
If the following distinctions be attended to, the two
plants can never be confounded with each other, as
has heretofore frequently been the case. *C. verna*.

Fruit stalks with two bracteas at their base, fruit
regularly tetragonal, each portion bluntly keeled at
the back. *C. autumnalis*. Fruit stalks without
bracteas, fruit irregularly tetragonal, each portion
broadly and acutely winged at the back.—Arnott,
MSS.

253. ZOSTERA.

1. *Z. marina*. Grass Wrack.
Sm. Eng. Fl. i. 5; Eng. Bot. 467; With. iii. 658;
Hook. Lond. t. 35; Gr. Fl. Eds. 183; Berwick
Flora, 2.
At Jarrow Slake and Hartlepool, D. On Fenham
Flats, N. Between Goswick Links and the Old
Law.—Thompson's Berwick Plants. Among the
rejectionments of the sea on the coast, abundant.

354. ZANNICHELLIA.

1. *Z. palustris*. Horned Podweed.
Sm. Eng. Fl. iv. 70; Eng. Bot. 1844; With. ii.
8; Gr. Fl. Eds. 187; Berwick Flora, 197.
In ditches near St. Peter's Quay, and in ponds at St.
Anthon's, Walker, and Benwell, N. In ditches
near Gateshead, in ponds near Hilton Castle, at
Hebburn Quay, and Monkwearmouth, D. In the
pond at Scremmerton Lime-kilns, and ditches near
Windmill Hill, Berwick.—Dr. G. Johnston.

MONOECIA TRIANDRIA.

355. TYPHA.

1. *T. latifolia*. Great Cat's-tail, or Reed-mace.
Sm. Eng. Fl. iv. 71; Eng. Bot. 1455; With. ii.
163; Gr. Fl. Eds. 183; *T. major*, Curt. Lond.
Fasc. iii. t. 61; Berwick Flora, 197.
In slow streams and pools, common, N. and D. In
the mill pond at Grange Bourn and North Fluve
near Goswick.—Thompson's Berwick Plants.
2. *T. angustifolia*. Lesser Cat's-tail, or Reed-mace.
Sm. Eng. Fl. iv. 72; Eng. Bot. 1456; With. ii.
163; Hook. Fl. Scot. 259; *T. minor*, Curt.
Lond. Fasc. iii. t. 62.
In a pond near the Friar's Goose, below Gateshead,
D. In a pond by the road to Nesham from Dar-
lington, D.—Mr. Janson.

356. SPARGANIUM.

1. *S. ramosum*. Branched Bur-reed.
Sm. Eng. Fl. iv. 74; Eng. Bot. 744; Curt. Lond.
Fasc. v. t. 66; With. ii. 164; Gr. Fl. Eds. 189;
Berwick Flora, 198.
In slow streams and pools.
2. *S. simplex*. Unbranched Upright Bur-reed.
Sm. Eng. Fl. iv. 75; Eng. Bot. 745; Curt. Lond.
Fasc. v. t. 67; Gr. Fl. Eds. 189; With. ii.
164; Berwick Flora, 198.
In pools and slow streams, N. and D. By the sides
of the Lough on Holy Island, and in the pond above
Spindleston, N.—Dr. G. Johnston.
3. *S. natans*. Floating Bur-reed.
Sm. Eng. Fl. iv. 75; Eng. Bot. 273; Gr. Fl. Eds.
189; With. ii. 164; *S. simplex* β , Hudson, 401.
In the rivers Derwent and Team, D. In the Ouse-
bourn in Heaton Dene, and in the River Pont, N.
In Prestwick Carr, N.—Mr. J. Thornhill.

357. CAREX.

1. *C. dioica*. Common Separate-headed Carex.
Sm. Eng. Fl. iv. 77; Eng. Bot. 543; Gooden. Linn. Tr. ii. 139; With. ii. 129; Gr. Fl. Eds. 189; Berwick Flora, 198.
In bogs near Hilton Castle, on Beamish Moor, Chester Common, and in Teesdale and Weardale, D. Near Darlington, D.—S. Robson, Flora 262. Near Shewing Shields, at Prestwick Carr, and on moors near Blanchland and Cold-cleugh, N.
2. *C. pulicaris*. Flea Carex.
Sm. Eng. Fl. iv. 78; Eng. Bot. 1051; Hook. Fl. Scot. 261; Lond. t. 177; With. ii. 130; Berwick Flora, 198.
In marshy meadows and on moors, frequent, N. and D. Near Berwick.—Dr. G. Johnston.
3. *C. pauciflora*. Few-flowered Carex.
Sm. Eng. Fl. iv. 79; Eng. Bot. 2041; Lightfoot, 543, t. 6, f. 2; With. ii. 131.
In a peat moss between a public-house called Twice-brewed Ale and the south-west end of Crag Lake near the Roman Wall, and on the Muckle Moss, N.—June 29, 1803.
The only English habitats.
4. *C. stellulata*. Little Prickly Carex.
Sm. Eng. Fl. iv. 80; Eng. Bot. 806; Gooden. Linn. Tr. ii. 144; Berwick Flora, 198; With. ii. 131; Hook. Fl. Scot. 263; C. *muricata*, Lightfoot, 549; Hudson, 406.
In marshy meadows and on moors, not rare.
5. *C. curta*. White Carex.
Sm. Eng. Fl. iv. 81; Eng. Bot. 1336; Gooden. Linn. Tr. ii. 145; With. ii. 132; Hook. Fl. Scot. 263; Berwick Flora, 198.
In bogs near Edmond-byers and Crook Oak, D. In Teesdale.—Rev. J. Harriman. By Halypike Lake, near Allenheads, in Beldon Bourn, and near Gilsland, N.—On Wallington moors.—W. C. Trevelyan, Esq. In bogs near Berwick, not rare.—Dr. G. Johnston.
6. *C. ovalis*. Oval-spiked Carex.
Sm. Eng. Fl. iv. 82; Gooden. Linn. Tr. ii. 148; Eng. Bot. 306; Hook. Fl. Scot. 263; With. ii. 133; Berwick Flora, 199; C. *leporina*, Hudson, 404; Lightfoot, 547.
In marshy meadows and on moors, not rare.
7. *C. remota*. Remote Carex.
Sm. Eng. Fl. iv. 84; Eng. Bot. 832; Hook. Fl. Scot. 263; With. ii. 133; Berwick Flora, 199.
In Ravensworth and Cawsey woods, and in all the woods on the Derwent, D. In Tecket and Ramshaw woods, and on the banks of Wooler Water below Langley Ford, N.
8. *C. arenaria*. Sand Carex.
Sm. Eng. Fl. iv. 85; Eng. Bot. 928; Gr. Fl. Eds. 195; With. ii. 135, t. 20; Berwick Flora, 199.
On the sands of the sea coast, frequent.
9. *C. intermedia*. Soft Brown Carex.
Sm. Eng. Fl. iv. 86; Eng. Bot. 2042; Gooden. Linn. Tr. ii. 154; Hook. Fl. Scot. 262; Berwick Flora, 199; With. ii. 136; C. *disticha*, Hudson, 403.
In bogs and by slow streams not rare, N. and D. Near Berwick.—Dr. G. Johnston.
10. *C. muricata*. Greater Prickly Carex.
Sm. Eng. Fl. iv. 88; Eng. Bot. 1097; Hook. Fl. Scot. 262; With. ii. 138; C. *spicata*, Hudson, 405; Lightfoot, 548.
Near Darlington, D.
11. *C. divulsa*. Grey Carex.
Sm. Eng. Fl. iv. 89; Eng. Bot. 629; With. ii. 138; Gooden. Linn. Tr. ii. 160; C. *muricata* β, Wahl. Fl. Suec. 539.
Near Darlington, D.—Mr. Backhouse.
12. *C. vulpina*. Great Spiked Carex.
Sm. Eng. Fl. iv. 90; Eng. Bot. 307; Gr. Fl. Eds. 191; With. ii. 139; Berwick Flora, 199.
On the shores of Tyne, Pont, Wear, Tees, Skerne, &c. N. and D. By the North Fluve at Goswick, and on the coast at Budle, N.—Thompson's Berwick Plants. Near Berwick.—Dr. G. Johnston.
13. *C. paniculata*. Great Panicked Carex.
Sm. Eng. Fl. iv. 92; Eng. Bot. 1064; Hook. Fl. Scot. 262; With. ii. 140; Berwick Flora, 200.
On moors and in wet pastures, common.
14. *C. pendula*. Great Pendulous Carex.
Sm. Eng. Fl. iv. 95; Eng. Bot. 2315; Hook. Fl. Scot. 264; Berwick Flora, 200; Curt. Lond. Fasc. iii. t. 63; With. ii. 142.
In Ravensworth, Cocken, Beamish, and Urpeth Woods, also by the Wear near Southwick, D. By the Tees near Croft, D.—Mr. E. Robson. In Gibside Woods, D.—Mr. J. Thornhill. In Oakwood, Scotswood, Walbottle, and Denton Denes, N. On Bothal Banks, N.—Miss Emma Trevelyan.
15. *C. sylvatica*. Pendulous Wood Carex.
Sm. Eng. Fl. iv. 96; Eng. Bot. 995; Hook. Fl. Scot. 264; Gooden. Linn. Tr. ii. 138; Berwick Flora, 200; With. ii. 150; C. *Drymeia*, Willd. Sp. Pl. iv. 296.
In every wood, N. and D.
16. *C. capillaris*. Capillary Carex.
Sm. Eng. Fl. iv. 100; Eng. Bot. 2069; Hook. Fl. Scot. 265; With. ii. 148.
Near Widdy Bank in Teesdale Forest, D., also on Cronkley Fell.
Its most southern locality in Britain.
17. *C. limosa*. Green and Gold Carex.
Sm. Eng. Fl. iv. 102; Eng. Bot. 2043; Hook. Fl. Scot. 265; With. ii. 152; Berwick Flora, 200.
Near Wardrew, N. On the Wallington Moors, N.—W. C. Trevelyan, Esq. Near Berwick.—Dr. G. Johnston.
18. *C. pallescens*. Pale Carex.
Sm. Eng. Fl. iv. 105; Eng. Bot. 2135; Hook. Lond. 178; Gr. Fl. Eds. 195; With. ii. 151; Berwick Flora, 201.
Near Beamish and the Hounds, at Birch Carr near Darlington, and on the banks of Nuckton Burn, D. In bogs near Scotswood, and at Shewing Shields, and Gilsland, N. On the banks of Wooler Water below Langley Ford, N.—Dr. G. Johnston.
19. *C. flava*. Yellow Carex.
Sm. Eng. Fl. iv. 106; Eng. Bot. 1294; Hook. Fl. Scot. 266; With. ii. 144; Berwick Flora, 201.
In boggy meadows and on wet moors, frequent.
20. *C. Oederi*. Oederian Carex.
Sm. Eng. Fl. iv. 107; Eng. Bot. 1773; C. *flava* β, Hook. Fl. Scot. 266.
On wet moors, not rare.
A dwarf variety of the last species I suspect.

21. *C. fulva*. Tawny Carex.
Sm. Eng. Fl. iv. 107; Eng. Bot. 1295; Gooden. Linn. Tr. ii. 177, t. 20, f. 6; Hook. Fl. Scot. 266; *C. flava*, With. ii. 145, var. 2.
In bogs at Ryhope and Hilton, D. On the south side of the Ropery above Shields Law, D.—Mr. R. Waugh. At Birch Carr near Darlington.—Mr. Backhouse. At Prestwick Carr, and on the Muckle Moss near the Roman Wall, N.
22. *C. extensa*. Long-bracteated Carex.
Sm. Eng. Fl. iv. 108; Eng. Bot. 833; Gooden. Linn. Tr. ii. 175, t. 21, f. 7; With. ii. 146; Gr. Fl. Eds. 195.
Near the sea coast in a marsh on the Wear at Hilton Castle, as well as at Hartlepool and Seaton, also in the west of the county of Durham, and on bogs in Waskerley Park, D. In bogs at Spencer's Quarry near Medomsley, D.—Mr. J. Thornhill. On the sea beach north of the town at Holy Island, N.—Thompson's Berwick Plants.
23. *C. distans*. Loose Carex.
Sm. Eng. Fl. iv. 109; Eng. Bot. 1234; Hook. Fl. Scot. 267; With. ii. 147.
In boggy ground near the sea coast at Hilton Castle, and near the Law at South Shields, D. At the mouth of Tees, D.—J. Hogg, Esq. On marshy ground near Willington Bourn, N.
All these may be considered maritime localities.
24. *C. binervis*. Green-ribbed Carex.
Sm. Eng. Fl. iv. 110; Eng. Bot. 1235; With. ii. 147; Berwick Flora, 201; *C. distans*, Lightfoot, 561; Hook. Fl. Scot. 267.
On boggy and wet moors, frequent. On Newcastle Town Moor, N. Near Berwick.—Dr. G. Johnston.
25. *C. præcox*. Vernal, or Spring Carex.
Sm. Eng. Fl. iv. 111; Eng. Bot. 1099; Gooden. Linn. Tr. ii. 170; Hook. Fl. Scot. 267; Lond. Fl. 22; With. ii. 143; Berwick Flora, 201; *C. saxatilis*, Hudson, 408.
On moors and in barren pastures.
26. *C. pilulifera*. Round-headed Carex.
Sm. Eng. Fl. iv. 112; Eng. Bot. 835; Hook. Fl. Scot. 267; Berwick Flora, 201; With. ii. 154; *C. montana*, Hudson, 407.
In moist meadows and on moors, not rare.
27. *C. panicea*. Pink-leaved Carex.
Sm. Eng. Fl. iv. 114; Eng. Bot. 1505; Hook. Fl. Scot. 267; With. ii. 148; Berwick Flora, 201.
In moist meadows and pastures, common.
28. *C. recurva*. Glaucous Heath Carex.
Sm. Eng. Fl. iv. 114; Eng. Bot. 1506; Gooden. Linn. Tr. ii. 184; Hook. Fl. Scot. 268; With. ii. 150; Berwick Flora, 202.
 β *C. Michelliana*, Eng. Bot. 2236.
 α On moors and in moist meadows, everywhere. β in bogs near Hilton Castle, D.
29. *C. rigida*. Rigid Carex.
Sm. Eng. Fl. iv. 116; Eng. Bot. 2047; Berwick Flora, 202; Gooden. Linn. Tr. ii. 193, t. 22, f. 10; With. ii. 156; *C. caespitosa* β , Hook. Fl. Scot. 268; *C. saxatilis*, Wahl. Fl. Lapp. 247, according to specimens from the late Dr. Swartz. On the summit of Cheviot, N., July 22d, 1804. On Teesdale Forest near the Cauldron Snout, D.
30. *C. caespitosa*. Tufted Bog Carex.
Sm. Eng. Fl. iv. 117; Eng. Bot. 1507; With. ii. 156; Gooden. Linn. Tr. ii. 195, t. 21, f. 8; Hook. Fl. Scot. 268; Berwick Flora, 202.
In marshy meadows and on moors, not rare.
31. *C. stricta*. Glaucous Straight-leaved Carex.
Sm. Eng. Fl. iv. 118; Eng. Bot. 914; Hook. Fl. Scot. 268; Gooden. Linn. Tr. ii. 196, t. 21, f. 9; With. ii. 157; *C. caespitosa*, Hudson, 412; *C. caespitosa* β , Lightfoot, 561.
In the marsh behind St. Anthon's ballast-hills, on the banks of the Ousebourn near Haddrick's Mill, and in Heaton Wood, N. In Westcote Bourn near Wolsingham, and at Hell Kettles near Darlington, also by the Tyne below Gateshead, D.
32. *C. acuta*. Slender Spiked Carex.
Sm. Eng. Fl. iv. 119; Gooden. Linn. Tr. ii. 203; Berwick Flora, 202; Hook. Fl. Scot. 269; With. ii. 160; Eng. Bot. 580; *C. gracilis*, Curt. Lond. Fasc. iv. t. 62.
By the river Skerne near Darlington, D.—Mr. Backhouse. On the banks of Tweed from West Ord to the Chain Bridge.—Dr. G. Johnston.
33. *C. paludosa*. Lesser Common Carex.
Sm. Eng. Fl. iv. 120; Eng. Bot. 807; Hook. Fl. Scot. 269; Berwick Flora, 203; Gooden. Linn. Tr. ii. 202; With. ii. 159; *C. acuta*, Curt. Lond. Fasc. iv. t. 61.
In bogs and on the banks of slow rivers, frequent.
34. *C. riparia*. Great Common Carex.
Sm. Eng. Fl. iv. 121; Eng. Bot. 579; Curt. Lond. Fasc. iv. t. 60; Gooden. Linn. Tr. ii. 200; Hook. Fl. Scot. 269; With. ii. 158; *C. acuta*, Hudson, 413; Lightfoot, 565.
On the banks of rivers and in marshy places, frequent.
35. *C. lavigata*. Smooth-stalked Beaked Carex.
Sm. Eng. Fl. iv. 122; Eng. Bot. 1387; Hook. Fl. Scot. 269; With. ii. 159; Gr. Fl. Eds. 199; Berwick Flora, 203.
On the banks of Wooler Water below Langley Ford, and at the base of the hill at Hepburn near Chillingham, N.—Dr. G. Johnston.
36. *C. vesicaria*. Short-spiked Bladder Carex.
Sm. Eng. Fl. iv. 123; Eng. Bot. 779; Hook. Fl. Scot. 269; With. ii. 161; Gr. Fl. Eds. 199; *C. inflata*, Lightfoot, 567.
On the banks of the river Team, in bogs near Castle Eden, and near Darlington, D. In Heaton Wood, by Craglake near Shewing-shields, and on the Muckle Moss, N. On moors near Wallington, N.—W. C. Trevelyan, Esq. At Prestwick Carr, N.—Mr. J. Thornhill.
37. *C. ampullacea*. Slender-beaked Bladder Carex.
Sm. Eng. Fl. iv. 124; Eng. Bot. 780; Gooden. Linn. Tr. ii. 207; Hook. Fl. Scot. 270; With. ii. 161; Berwick Flora, 203; *C. vesicaria*, Hudson, 413; Lightfoot, 566.
On the banks of lakes, rivers, and on bogs, N. and D. On the Wallington Moors, N.—W. C. Trevelyan, Esq. In the vicinity of Berwick.—Dr. G. Johnston.
38. *C. hirta*. Hairy Carex.
Sm. Eng. Fl. iv. 125; Eng. Bot. 685; Hook. Fl. Scot. 270; With. ii. 162; Berwick Flora, 203.
In marshy meadows and on bogs, frequent.

358. ELYNA.

1. *E. caricina*. Compound-headed Elyna.
Hook. Br. Fl. 401; *Kobresia caricina*, Willd. Sp. Pl. iv. 206; Sm. Eng. Fl. iv. 129; *Schænus monicus*, Eng. Bot. 1410; Northumberland and Durham Guide, v. 5.
On the Widdy Bank in Teesdale Forest, D., also on Cronkley Fell.
This plant was pointed out to me in these localities, Aug. 25, 1799, by the Rev. J. Harriman.

MONOECIA TETRANDRIA.

359. LITTORELLA.

1. *L. lacustris*. Plantain Shore-weed.
Sm. Eng. Fl. iv. 130; Eng. Bot. 468; Hook. Fl. Scot. 271; Lond. t. 168; With. ii. 270; Berwick Flora, 204.
At Prestwick Carr, and on the shores of Bromley and Greenley Loughs, also by Holy Island Lough, N. By Roadley Lake.—W. C. Trevelyan, Esq. By Hoseley Lough, N.—Dr. Richardson, Dill. Ray Syn. 316.

360. ALNUS.

1. *A. glutinosa*. Common Alder.
Sm. Eng. Fl. iv. 131; Hook. Lond. t. 59; Fl. Scot. 271; *Betula alnus*, With. ii. 286; Berwick Flora, 204; Eng. Bot. 1508.
By rivers, lakes, and pools of water.

361. URTICA.

1. *U. pilulifera*. Roman Nettle.
Sm. Eng. Fl. iv. 134; Eng. Bot. 148; With. iii. 280.
On the ballast-hills of Tyne and Wear, N. and D., rare.
2. *U. urens*. Small Nettle.
Sm. Eng. Fl. iv. 134; Eng. Bot. 1236; Curt. Lond. Fasc. vi. t. 70; Hook. Fl. Scot. 271.
Everywhere on cultivated ground.
3. *U. dioica*. Great Nettle.
Sm. Eng. Fl. iv. 135; Eng. Bot. 1750; Curt. Lond. Fasc. vi. t. 69; Hook. Fl. Scot. 271.
On waste ground everywhere.

MONOECIA PENTANDRIA.

362. XANTHIUM.

1. *X. strumarium*. Broad-leaved Bur-weed.
Sm. Eng. Fl. iv. 136; Eng. Bot. 2544; With. ii. 384.
On Byker and Willington ballast-hills, N. On Jar-row and South Shields ballast-hills, D. On Sunderland ballast-hills, D.—W. Weighell's Herb.

363. AMARANTHUS.

1. *A. Blitum*. Wild Amaranth.
Sm. Eng. Fl. iv. 137; Eng. Bot. 2212; With. ii. 248.
On Willington ballast-hills, N. On Hebburn and Jarrow ballast-hills, D. On Sunderland ballast-hills, D.—W. Weighell's Herb.

VOL. II.

364. BRYONIA.

1. *B. dioica*. Red-berried Bryony.
Sm. Eng. Fl. iv. 138; Eng. Bot. 439; With. ii. 102; *B. alba*, Lightfoot, 159; Woody. t. 189.
In hedges near Birtley, Gainford, Darlington, and Bishop Auckland, D. At Barneyside, Miss Forster, delin.; and Rugley near Alnwick, N.—Mr. J. Davison.
Not a common plant in the north.

MONOECIA POLYANDRIA.

365. CERATOPHYLLUM.

1. *C. demersum*. Common Hornwort.
Sm. Eng. Fl. iv. 141; Eng. Bot. 947; Hook. Fl. Scot. 272; With. ii. 579.
In ditches on Durham Moor.—Rev. J. Symons.

366. MYRIOPHYLLUM.

1. *M. spicatum*. Spiked Water-Milfoil.
Sm. Eng. Fl. iv. 143; Eng. Bot. 83; Hook. Fl. Scot. 272; With. ii. 519; Berwick Flora, 205.
In loughs, ponds, and rivulets, frequent, N. and D. In Tweed and ponds near Berwick.—Dr. G. Johnston.
2. *M. verticillatum*. Verticillate Water Milfoil.
Sm. Eng. Fl. iv. 143; Eng. Bot. 218; With. ii. 519.
At Polam, D.—Mr. Backhouse.
The limit of its range to the north.

367. SAGITTARIA.

1. *S. sagittifolia*. Common Arrow-head.
Sm. Eng. Fl. iv. 144; Eng. Bot. 84; With. iii. 678.
Near Bellingham and Norton.—Mr. Backhouse. In hecks near Witton, Thorp, Portrack, and Stockton, D.—J. Hogg, Esq.
The most northern localities.

368. ARUM.

1. *A. maculatum*. Cuckow-pint, Wake Robin.
Sm. Eng. Fl. iv. 146; Eng. Bot. 1298; Woody. t. 25; Curt. Lond. Fasc. ii. t. 63; Hook. Fl. Scot. 272; Berwick Flora, 205.
In woods and under hedges, frequent.

369. POTERIUM.

1. *P. Sanguisorba*. Common Burnet.
Sm. Eng. Fl. iv. 147; Eng. Bot. 860; Hook. Fl. Scot. 273; Curt. Lond. Fasc. ii. t. 64; With. iii. 654; Berwick Flora, 206.
On dry Limestone hills, not very rare. On Spindle-stone Hills, N.—Dr. G. Johnstone.

370. QUERCUS.

1. *Q. Robur*. Common British Oak.
Sm. Eng. Fl. iv. 148; Eng. Bot. 1342; Hook. Fl. Scot. 373; Berwick Flora, 206; Woody. t. 126; *Q. fæmina*, With. ii. 516; *Q. pedunculata*, Willd. Sp. Pl. iv. 450.
In woods and hedges, everywhere.
2. *Q. sessiliflora*. Sessile-fruited Oak.

R

Sm. Eng. Fl. iv. 150; Eng. Bot. 1845; Hook.
Fl. Scot. 273; Berwick Flora, 207; Q. *Robur*,
With. ii. 515.

In woods and hedges, frequent.

371. FAGUS.

1. *F. Castanea*. Chesnut-tree.
Sm. Eng. Fl. iv. 151; Eng. Bot. 836; With. ii.
583; *Castanea vulgaris*, Hook. Br. Fl. 408.
In plantations.
Not a native of the north of England.
2. *F. sylvatica*. Beech-tree.
Sm. Eng. Fl. iv. 152; Eng. Bot. 1847; Hook.
Fl. Scot. 274; Berwick Flora, 207.
In woods and hedges, common.

372. BETULA.

1. *B. alba*. Common Birch.
Sm. Eng. Fl. iv. 153; Eng. Bot. 2198; Hook.
Fl. Scot. 274; Berwick Flora, 208.
B. pendula, Lindley's Syn. 229.
In mountainous woods and by lakes, frequent.
Roth and Lindley consider *Betula pendula* a distinct
species from *B. alba*, owing to its weeping branches;
and, when young, its bark being smooth and warted.

373. CARPINUS.

1. *C. Betulus*. Horn-beam.
Sm. Eng. Fl. iv. 155; Eng. Bot. 2032; Hook.
Fl. Scot. 274.
In plantations.
Not originally a native of the north of England,

374. CORYLUS.

1. *C. Avellana*. Hazel-nut-tree.
Sm. Eng. Fl. iv. 157; Eng. Bot. 723; Hook. Fl.
Scot. 275; Lond. t. 17; Berwick Flora, 208.
In woods, hedges, and dunes, common.

MONOECIA MONADELPHIA.

375. PINUS.

1. *P. sylvestris*. Scotch Fir.
Sm. Eng. Fl. iv. 158; Eng. Bot. 2460; Light-
foot, 587; Woodv. t. 207; With. iii. 811.
Only in planted woods at present, though the roots
and trunks of the Fir abound in all the bogs on our
highest moors.

DIOECIA DIANDRIA.

376. SALIX.

1. *S. triandra*. Long-leaved Triandrous Willow.
Sm. Eng. Fl. iv. 166; Eng. Bot. 1435; With. ii.
65; Hook. Fl. Scot. 273.
In hedges near Chester-le-Street, D. On the banks
of the Pont at Ponteland, N.
Rare in the north.
2. *S. amygdulina*. Broad-leaved Triandrous Willow,
Almond-leaved Willow.
Sm. Eng. Fl. iv. 169; Eng. Bot. 1637; With. ii.
66.
In hedges near Birtley, and at Chester-le-Street
new bridge, also at Beamish and on the banks of

the Derwent, D. In Heaton Wood, and in hedges
near Gilsland and Cambo, at Allan Heads, and on
the banks of Little Cow Lough, also near the Ro-
man station at Risingham, N.

3. *S. pentandra*. Sweet Willow, Bay-leaved Willow.
Sm. Eng. Fl. iv. 171; Eng. Bot. 1805; Hook.
Fl. Scot. 279; With. ii. 69; Berwick Flora, 212.
In the Roman Foss between Shewing-shields and
Carrow, in hedges near Gilsland and House-steads,
in Heaton Wood, on the banks of North Tyne and
of Tweed, N. By the Team near Beamish and
Pockerley, on the banks of Wear near Chester-le-
Street new bridge, and of Tees near Eglestone,
also between Norton and Billingham, D. Near
West Boldon and Cleadon, D.—Mr. R. Wagh
and Mr. J. Thornhill. Near Berwick, not uncommon.—Dr. G. Johnston.

4. *S. radicans*. Rooting-branched Willow.
Sm. Fl. Brit. iii. 1053; Hook. Fl. Scot. 280; Br.
Fl. 428; Northumberland and Durham Guide,
ii. 21; *S. phylicifolia*, Sm. Fl. Brit. iii. 1049;
Eng. Fl. iv. 173; Eng. Bot. 1958; With. ii. 71.
By ditches communicating with Prestwick Carr, N.
On both banks of Derwent above Blanchland, N.
and D.

That this is not *Salix phylicifolia* of the Swedish bo-
tanists I am certain, from Lapland specimens com-
municated by the late Dr. Swartz. The figure in
the English Botany is good, and agrees with the
plant received from Sir J. Smith.

5. *S. bicolor*. Shining dark-green Willow.
Sm. Eng. Fl. iv. 178; Eng. Bot. 1806; With. ii.
70; *S. laurina*, Sm. Linn. Tr. vi. 122.
On the banks of Wear near Lumley Castle, and on
Tees from Croft to Middleton, D. On the banks
of Derwent, and of Beldon and Nuckton bourns
above Blanchland, D. and N. In the hedges north
of Cambo, N. By the Lune at its junction with the
Tees.—W. C. Trevelyan, Esq.

6. *S. vitellina*. Yellow Willow.
Sm. Eng. Fl. iv. 182; Eng. Bot. 1389; Hook.
Fl. Scot. 281; With. ii. 72.
On the banks of Team, Tyne, and Wear, D. and N.
At Morton Carrs, D.—Mr. Janson.

7. *S. decipiens*. Deceiving Willow.
Sm. Eng. Fl. iv. 183; Eng. Bot. 1937; With. ii.
68; Berwick Flora, 212.
On the banks of Tyne, Wear, Team, and Derwent,
N. and D. By the sides of Grange Bourn near
Berwick.—Dr. G. Johnston.

8. *S. fragilis*. Crack Willow.
Sm. Eng. Fl. iv. 184; Eng. Bot. 1807; Hook.
Fl. Scot. 279; With. ii. 73.

In dunes and on the banks of rivers, frequent.

9. *S. Russelliana*. Bedford Willow, Leicestershire or
Dishley Willow.
Sm. Eng. Fl. iv. 186; Eng. Bot. 1808; Hook.
Fl. Scot. 279; With. ii. 67; Berwick Flora,
212.

On the banks of Wear and Tees, D. Near Haugh-
ton and Cockerton, D.—Mr. Janson. Near Cambo
and Wallington, also by the Pont and in Heaton
Dene, N. By the Tweed, common.—Dr. G. John-
ston. Near Aluwick, N.—Miss Forster, delin.

10. *S. Helix*. Rose Willow.
Sm. Eng. Fl. iv. 188; Eng. Bot. 1343; With. ii.
63; Berwick Flora, 212; *S. monandra*, Curt.
Lond. Fasc. vi. t. 71, excluding f. 2.

- On the banks of the rivers Tweed, Tyne, Derwent, Wear, and Tees, N. and D., but not very abundant, nor does it occur near Newcastle.
11. *S. Forbiana*. Basket Osier.
Sm. Eng. Fl. iv. 191; Eng. Bot. 1344; With. ii. 64; Berwick Flora, 214; *S. fissa*, Sm. Linn. Tr. vi. 115.
Mas. and Fœm. On the banks of Tean, Derwent, Tees, Tyne, and Wear, N. and D. By the Tyne at Hopper's Fishery below Paradise, N. On the banks of Wooler Water, N.—Dr. G. Johnston.
Very distinct from *S. Helix* in the shape and texture of its leaves and its mode of growth. The figure in the English Botany is but indifferent.
12. *S. rubra*. Green-leaved Osier.
Sm. Eng. Fl. iv. 191; Eng. Bot. 1145; With. ii. 64; *S. fissa*. Hoff. Sal. i. 61, t. 13, 14.
Mas. and Fœm. By the Wear at Durham, and Chester-le-Street new bridge, also on the banks of the Derwent near Ebchester, D.—Fœm. About Newcastle N., and Gateshead D.
13. *S. Crowana*. Broad-leaved Monadelphous Willow.
Sm. Eng. Fl. iv. 192; Eng. Bot. 1146; With. ii. 65; *S. Weigelliana* β , Hook. Br. Fl. 429; *S. nitens*, Fœm. Eng. Bot. t. 2655.
Mas. North of Cambo, and near Roadley Lake, N.—Mas. and Fœm. On the banks of Tees near Eglestone, and above Middleton-in-Teesdale, also of Wear at Burtreeford in Weardale, D. On the banks of Derwent, and of Beldon and Nuckton Bourns above Blanchland, N. and D.
With us, the stamens of this willow are combined, proving it to be distinct from *Selix Weigelliana*, of Willdenow, its germens are also downy as Smith correctly described them.—See Hook. Eng. Fl. p. 430.
14. *S. arenaria*. Downy Mountain Willow.
Sm. Eng. Fl. iv. 204; Eng. Bot. 1309; Hook. Fl. Scot. 283; With. ii. 78; *S. lapponum*, Lightfoot, 604; Hudson, 651.
Fœm. On the Teesdale moors, but I do not know the exact spot, D.—Rev. J. Harriman, Sp.
Its most southern locality.
15. *S. argentea*. Silky Sand Willow.
Sm. Eng. Fl. iv. 206; Eng. Bot. 1364; With. ii. 78; Berwick Flora, 214; *S. arenaria*, Lightfoot, 604; *S. repens* ϵ , Hook. Fl. Scot. 284.
Near Percy's Cross and by Roadley Lake, N. On the sea sands near Berwick.—Dr. G. Johnston.
At Birch Carr, D.—Mr. Janson.
Probably an erect growing variety of *S. repens*.
16. *S. repens*. Creeping Dwarf Willow.
Sm. Eng. Fl. iv. 209; Eng. Bot. 133; With. ii. 81; Hook. Fl. Scot. 284; Berwick Flora, 214; *S. prostrata*, Eng. Bot. 1959; Berwick Flora, 214; *S. parvifolia*, 1969; *S. ascendens*, Eng. Bot. 1962.
On wet moors, not rare. Newcastle Town Moor, N.; Gateshead Fell D. Near Berwick.—Dr. G. Johnston.
17. *S. fusca*. Brownish Dwarf Willow.
Sm. Eng. Fl. iv. 210; Eng. Bot. 1960; With. ii. 80; *S. repens* δ , Hook. Fl. Scot. 284.
Mas. In barren pastures near Shewing Shields, on the Roman Wall, N. On the banks of Waskerley Bourn, D.
This little willow is well figured in the English Botany, it is a dwarf, but upright shrub, with nearly smooth leaves. Having never seen female catkins, I will not take upon me to say that it may not be one of the endless varieties of *Salix repens*.
18. *S. rosmarinifolia*. Rosemary-leaved Willow.
Sm. Eng. Fl. iv. 214; Eng. Bot. 1365; With. ii. 82.
Fœm. On the banks of the Derwent, near Friar Side, D. Near Ebchester, D.—Mr. J. Thornhill.
19. *S. aurita*. Round-eared Willow, Trailing Sallow.
Sm. Eng. Fl. iv. 216; Eng. Bot. 1487; With. ii. 83; Berwick Flora, 215; Hook. Fl. Scot. 285; β Dill. Ray, 450.
 α In woods and hedges; β on sterile moors.
20. *S. aquatica*. Common Willow, Water Sallow.
Sm. Eng. Fl. iv. 218; Eng. Bot. 1437; With. ii. 83; Berwick Flora, 215; *S. cinerea*, Hook. Fl. Scot. 284.
 β *S. oleifolia*, Sm. Eng. Fl. iv. 219; Eng. Bot. 1402; With. ii. 84; Berwick Flora, 216; Forster's Tonb. 111; *S. cinerea*, Hook. Fl. Scot. 284.
 γ *S. cinerea*, Sm. Eng. Fl. iv. 215; Eng. Bot. 1397; With. ii. 82; Forster, Tonb. 111; Berwick Flora, 215.
 α In woods and hedges, common; β generally on the banks of rivers. γ on the banks of Irthing near Gilsland, N. In hedges about two miles north of Chester-le-Street, D. In Allerton Mill Dene and other places near Berwick.—Dr. G. Johnston.
Through the medium of specimens communicated to me long ago by Mr. E. Forster and Mr. D. Turner, I am acquainted with the three preceding varieties of this willow, considered by Smith as three species. The fructifications of all, are alike, the leaves of α are broader than those of β , which is the only difference between them, but γ has rather a better right to be considered distinct. It is a low growing tree, with leaves much smaller than the first and second varieties. At the foot of Derwent-water, Cumberland, it is abundant.
21. *S. hirta*. Hairy-branched Sallow.
Sm. Eng. Fl. iv. 221; Eng. Bot. 1404; Hook. Br. Fl. 426; With. ii. 90.
In Castle Eden Dene, D.—Mr. Backhouse.
22. *S. rupestris*. Silky Rock Sallow.
Sm. Eng. Fl. iv. 222; Eng. Bot. 2342; With. ii. 90; Hook. Fl. Scot. 285; Br. Fl. 427.
Fœm. By the Derwent above Blanchland, N. and D. By the Wear near Burtreeford, D.
23. *S. Andersoni*. Green Mountain Sallow.
Sm. Eng. Fl. iv. 223; Eng. Bot. 2343; Hook. Fl. Scot. 285; Br. Fl. 427.
Mas. In Heaton Dene. Fœm. By the River Derwent above Blanchland, N.
24. *S. Forsteriana*. Glaucous Mountain Sallow.
Sm. Eng. Fl. iv. 224; Eng. Bot. 2344; Hook. Fl. Scot. 285; Br. Fl. 427.
Fœm. In Heaton Dene, N. On the south banks of Tyne near Friar's Goose, D. By the Derwent above Blanchland, N. and D. In a hedge at Mount Pleasant near Berwick.—Dr. G. Johnston. In hedges near the Chain Bridge over the Tweed, N.
25. *S. caprea*. Great Round-leaved Sallow.
Sm. Eng. Fl. iv. 225; Eng. Bot. 1488; Hook. Fl. Scot. 286; With. ii. 85; Berwick Flora, 217.
In woods and hedges, common.

26. *S. acuminata*. Long-leaved Sallow.
Sm. Eng. Fl. iv. 227; Eng. Bot. 1434; Hook.
Fl. Scot. 286; With. ii. 86; Berwick Flora,
217.

On the banks of Irthing at Gilsland, N. By Nuck-
ton Bourn above Blanchland, N. and D. By Mor-
ton Carr, D.—Mr. Janson. In hedges near
Berwick.—Dr. G. Johnston.

27. *S. viminalis*. Common Osier.
Sm. Eng. Fl. iv. 228; Eng. Bot. 1898; Hook.
Fl. Scot. 287; With. ii. 88; Berwick Flora,
217.

By ditches and on the banks of rivers, common.

28. *S. Smithiana*. Silky-leaved Osier.
Sm. Eng. Fl. ii. 229; Berwick Flora, 217; *S.*
mollissima, Eng. Bot. 1509; With. ii. 87.

In hedges near Prestwick Carr, in Pandon Dene near
Newcastle, at Jesmond, Chirton, Kirkwhelpington,
Cámbo, Roadley, and on Holy Island, N. At the
Hope and near Leatham-shank in the vicinity of
Berwick.—Dr. G. Johnston. At Whitburn, and
by the Wear at Lambton, D.

29. *S. ferruginea*. Ferruginous Willow.
Hook. Br. Fl. 424; Eng. Bot. ii. 2665.

On the banks of Tyne near Warden, N.
I also gathered this willow several Years since, grow-
ing, together with *Salix tenuifolia* of Smith, a little
below Kirby Lonsdale Bridge, Westmorland.

30. *S. alba*. Common White Willow.
Sm. Eng. Fl. iv. 231; Eng. Bot. 2430; Berwick
Flora, 218; Hook. Fl. Scot. 287; With. ii. 89;
β S. cœrulea, Eng. Bot. 2431.

In woods and hedges.
Between varieties *α* and *β* I can perceive no difference.

DIOECIA TRIANDRIA.

377. EMPETRUM.

1. *E. nigrum*. Black Crow, or Crake Berry.
Sm. Eng. Fl. iv. 233; Eng. Bot. 526; Gr. Fl.
Eds. 209; With. ii. 250; Berwick Flora, 218.
On moors, frequent.

378. RUSCUS.

1. *R. aculeatus*. Common Butcher's-broom.
Sm. Eng. Fl. iv. 235; Eng. Bot. 560; Hook. Fl.
Scot. 288; Woody. Supp. t. 237; With. ii. 103.
Near Cockerton.—Mr. James Backhouse. In Cliff
Wood, D.—W. Weighell's Herb.

DIOECIA TETRANDRIA.

379. VISCUM.

1. *V. album*. Common White Mistletoe.
Sm. Eng. Fl. iv. 236; Eng. Bot. 1470; Woody.
Supp. 270; Hook. Fl. Scot. 288; With. ii.
281.

In woods at Chipchase, rare. Introduced from the
south of England into Sir D. Smith's garden at
Alnwick, N.—Miss Pringle. Near Bedlington, N.
—The Rev. Mr. Coates. Also introduced into the
gardens at Bradley, D.

I have never been so fortunate as to meet with this
parasite in the north, and cannot recollect who in-

formed me that it had been seen either at Chipchase
or at Bradley.

380. MYRICA.

1. *M. Gale*. Sweet Gale, Dutch Myrtle.
Sm. Eng. Fl. iv. 239; Eng. Bot. 562; Hook. Fl.
Scot. 283; With. ii. 287; Berwick Flora, 219.
On moors near Harbottle Castle, and by Roadley
Lake, N. On the south side of Tyne opposite
Hepple, and between Woodhall and Harbottle.—
Mr. E. Woodhouse. On the banks of Kimmer
Lake near Ellingham, N.—Wallis, 154. Near
Berwick.—Dr. G. Johnston.

DIOECIA PENTANDRIA.

381. HUMULUS.

1. *H. Lupulus*. Hop.
Sm. Eng. Fl. iv. 240; Eng. Bot. 427; Gr. Fl.
Scot. 209; With. ii. 375.
Naturalized in hedges near Jesmond, Hexham, Oving-
ham, Wylam, and Dilston, N. On the banks of
Hyshope Bourn, D. Near Norton, D. J. Hogg,
Esq.

DIOECIA HEXANDRIA.

382. TAMUS.

1. *T. communis*. Black Briony.
Sm. Eng. Fl. iv. 241; Eng. Bot. 91; With. ii.
460.
In Dalton, Hawthorn, and Castle Eden Denes, also
in woods at Hetton, and near Hilton Castle on the
Wear, D. In hedges about Norton and near Wyn-
yard on the Fulthorp road, D.—J. Hogg, Esq.
On the woody bank in Heaton Dene, below Benton
Bridge, N.—Mr. J. Thornhill, jun.
Its most northern locality.

DIOECIA OCTANDRIA.

383. POPULUS.

1. *P. alba*. Great White Poplar, Abele-tree.
Sm. Eng. Fl. iv. 243; Eng. Bot. 1618; Hook.
Fl. Scot. 283; Berwick Flora, 219.
In woods, hedges, and denes. It may also be noticed
at a considerable elevation on the sides of our moors;
truly indigenous.
2. *P. canescens*. Grey Poplar.
Sm. Eng. Fl. iv. 243; Eng. Bot. 1619; Hook.
Br. Fl. 436.
In hedge rows.
3. *P. tremula*. Ash Aspen, Trembling Poplar.
Sm. Eng. Fl. iv. 244; Eng. Bot. 1909; Hook.
Fl. Scot. 289; Berwick Flora, 219.
In woods and hedges, common.
4. *P. nigra*. Black Poplar.
Sm. Eng. Fl. iv. 245; Eng. Bot. 1910; Hook.
Fl. Scot. 289; Berwick Flora, 220.
On the banks of rivers and in hedges, frequent.

384. RHODIOLA.

1. *R. rosea*. Mountain Rose-root.
Sm. Eng. Fl. iv. 246; Eng. Bot. 508; Hook.

Fl. Scot. 239; With. ii. 513; Berwick Flora, 220.

At the head of Cauledge Bourn, among the Cheviots, N.—W. C. Trevelyan, Esq.

This plant which usually grows in Alpine situations has been found on rocks near the sea coast between Berwick and Fast Castle, and in a ravine near St. Abbs' Head, by Dr. G. Johnston, and between Lamberton and Burnmouth, by the Rev. A. Baird.

DIOECIA ENNEANDRIA.

385. MERCURIALIS.

1. *M. perennis*. Dog's Mercury, Perennial Mercury. Sm. Eng. Fl. iv. 243; Eng. Bot. 1872; Curt. Lond. Fasc. ii. t. 65; Hook. Fl. Scot. 239; Berwick Flora, 221.

In dunes, woods, and under hedges, frequent.

2. *M. annua*. Annual Mercury. Sm. Eng. Fl. iv. 243; Eng. Bot. 559; Curt. Lond. Fasc. v. t. 63; Gr. Fl. Eds. 211; With. ii. 521.

On rubbish by the road side on Newcastle Town Moor, N. About Newcastle.—S. Robson's Flora, 223. About Sunderland, D.—Mr. E. Robson.

386. HYDROCHARIS.

1. *H. Morsus-rance*. Common Frogbit. Sm. Eng. Fl. iv. 250; Eng. Bot. 808; Curt. Lond. Fasc. iii. t. 64; Gr. Fl. Eds. 211; With. ii. 523.
- In a ditch behind St. Anthon's ballast-hills, N.

DIOECIA MONADELPHIA.

387. JUNIPERUS.

1. *J. communis*. Common Juniper. Sm. Eng. Fl. iv. 251; Eng. Bot. 1100; Hook. Fl. Scot. 290; Woodv. t. 95; With. iii. 790; Berwick Flora, 221.
- β *J. nana*, Sm. Eng. Fl. iv. 252; Willd. Sp. Pl. iv. 854; *J. communis* β, Lightfoot, 642; With. 709, var. 2.
- α In Castle Eden Dene, and on the cliffs between it and Black Halls, in woods on the banks of Tees, also on moors near Lanchester and Auckland, D. On Bede Hills and banks at West Dipton near Hexham, N. On the sea banks in the vicinity of Berwick, also on Chapel Hill near Belford.—Thompson's Berwick Plants. On the banks of

Tyne near the Riding below Hexham, N.—Wallis, 142. β On Teesdale Moors above the High Force, D. On Broad-pool Common near Swinburne, N.—Wallis, 142.

β Is no more than a procumbent alpine variety of the Common Juniper.

388. TAXUS.

1. *T. baccata*. Yew Tree. Sm. Eng. Fl. iv. 253; Eng. Bot. 746; Lightfoot, 626; With. iii. 809; Berwick Flora, 221.
- On rocks in Castle Eden Dene, and on the banks of Derwent above Gibside, also in Shipley Wood near Egglestone in Teesdale, D. In the cliffs on the western margin of the Allen, N.—Wallis, 136.
- Truly indigenous in all these localities.

POLYGAMIA MONOECIA.

389. ATRIPLEX.

1. *A. portulacoides*. Shrubby Orache. Sm. Eng. Fl. iv. 256; Eng. Bot. 261; Gr. Fl. Eds. 211; With. ii. 372.
- At the mouth of Coble Dene near North Shields, N. On the shores of Wear near Hilton Dene, and at Hartlepool, D.
2. *A. laciniata*. Frosted Sea Orache. Sm. Eng. Fl. iv. 257; Eng. Bot. 165; Gr. Fl. Eds. 212; With. ii. 372.
- On the sea beach, frequent.
3. *A. patula*. Spreading Halberd-leaved Orache. Sm. Eng. Fl. iv. 257; Eng. Bot. 936; Gr. Fl. Eds. 212; Berwick Flora, 223; With. ii. 372; *A. hastata*, Curt. Lond. Fasc. ii. t. 66.
- γ Sm. Eng. Fl. iv. 258; Dill. Ray's Syn. 152.
- α On waste ground and dunghills; γ on the sea beach, not rare.
4. *A. angustifolia*. Spreading Narrow-leaved Orache. Sm. Eng. Fl. iv. 258; Eng. Bot. 1774; With. ii. 373; Berwick Flora, 224; *A. patula*, Lightfoot, 637; Hudson, 443.
- On cultivated and waste ground, common.
5. *A. littoralis*. Grass-leaved Sea Orache. Sm. Eng. Fl. iv. 260; Eng. Bot. 708; Gr. Fl. Eds. 212; With. ii. 374; Berwick Flora, 224.
- In salt marshes, frequent.
6. *A. pedunculata*. Stalked Sea Orache. Sm. Eng. Fl. iv. 261; Eng. Bot. 232; With. ii. 375.
- On Sunderland ballast-hills, D.—W. Weighell's Herb.

PART II.

CRYPTOGAMIC PLANTS.

CRYPTOGAMIA CHARACEÆ.

I. CHARA.

1. *C. vulgaris*. Common Chara.
Sm. Eng. Fl. i. 6; Gr. Fl. Eds. 281; Eng. Bot. 336; Berwick Flora, 2.
 β Spreng. Syst. Veg. iv. 345; *C. Hedwigii*, Trevelyan, MSS.
 α In muddy ditches and ponds, common. β in streams running into the Weel near Cauldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.
2. *C. hispida*. Prickly Chara.
Sm. Eng. Fl. i. 7; Eng. Bot. 463; Gr. Fl. Eds. 281; With. ii. 3.
 β *C. tomentosa*, Hudson, 398; Robson's Flora, 295.
 α In a pond at Hartley old engine, and in pools near Hartley Link House, N. In Hell-kettles near Darlington, D. In ponds at Norton.—J. Hogg, Esq. At Polam.—Mr. Backhouse. α and β in the Whey Syke near Widdy Bank, on Teesdale Forest, D.—W. C. Trevelyan, Esq.
3. *C. aspera*. Rough Chara.
Gr. Crypt. Fl. t. 339.
At Prestwick Carr, N.—Mr. Wm. Robertson. In the Lough on Holy Island, N.—Dr. G. Johnston. In the Irthing at Gilsland, also in Grindon and Crag Loughs, N.—Mr. J. Thompson, Sp.
4. *C. flexilis*. Smooth Chara.
Sm. Eng. Fl. i. 7; Eng. Bot. 1070; With. ii. 4; Gr. Fl. Eds. 280.
In an old quarry in Leming Lane, and at Cocken, D. Near Darlington.—Mr. Backhouse. In a pond at Walker, and in Bromley and Crag Loughs near Shewing-shields, N. In the mouth of the rivulet at Goswick, N.—Thompson's Berwick Plants.
5. *E. arvense*. Corn Horsetail.
Sm. Eng. Fl. iv. 337; Eng. Bot. 2020; Bolt. Fil. t. 34; Curt. Lond. Fasc. iv. t. 64; Gr. Fl. Eds. 213; With. iii. 979; Berwick Flora, ii. 7.
In woods and fallow fields, common.
4. *E. palustre*. Marsh Horsetail.
Sm. Eng. Fl. iv. 338; Eng. Bot. 2021; Bolt. Fil. t. 35; Hook. Fl. Scot. 161; With. iii. 980; Gr. Fl. Eds. 215; Berwick Flora, ii. 7.
By slow streams, and in ditches.
5. *E. limosum*. Smooth Naked Horsetail.
Sm. Eng. Fl. iv. 339; Eng. Bot. 929; Bolt. Fil. t. 38; Gr. Fl. Eds. 214; With. iii. 981; Berwick Flora, ii. 8.
In ponds and watery places, but not frequent.
6. *E. hyemale*. Rough Horsetail, Shave-grass.
Sm. Eng. Fl. iv. 339; Eng. Bot. 915; Berwick Flora, ii. 8; Gr. Fl. Eds. 214; With. iii. 983; Hook. Lond. t. 161.
In woods not uncommon, N. and D. In Castle Eden Dene, D.—S. Robson's Flora, 263.
7. *E. variegatum*. Variegated Rough Horsetail.
Sm. Eng. Fl. iv. 340; Eng. Bot. 1937; Hook. Fl. Scot. 161.
By the river Irthing at Gilsland, N.—Mr. J. Thompson, Sp. Near Winch Bridge, by the Whey Syke, and opposite the mouth of the Lune in Teesdale, D.—W. C. Trevelyan, Esq.
The most southern localities in Britain.

MARSILEACEÆ.

3. ISOETES.

1. *I. lacustris*. Quill-wort.
Sm. Eng. Fl. iv. 343; Eng. Bot. 1084; Hook. Fl. Scot. 160; Lond. t. 131; With. iii. 988.
In Crag Lake, N.
Rare, and unaccompanied by its usual attendant in the northern lakes, the elegant *Labelia Dortmanna*.

4. PILULARIA.

1. *P. globulifera*. Pill-wort.
Sm. Eng. Fl. iv. 342; Eng. Bot. 521; Hook. Lond. t. 83; Bolt. Fil. t. 40; Gr. Fl. Eds. 215; With. iii. 987.
At Prestwick Carr, N. Near a pond by the road half a mile north of Wolsington House, N.—Mr. R. Waugh and Mr. J. Thornhill.

EQUISETACEÆ.

2. EQUISETUM.

1. *E. sylvaticum*. Branched Wood Horsetail.
Sm. Eng. Fl. iv. 336; Eng. Bot. 1874; Bolt. Fil. t. 32, 33; Gr. Fl. Eds. 215; With. iii. 979; Berwick Flora, ii. 5.
In woods and dunes, frequent.
2. *E. fluviatile*. Great Bog Horsetail.
Sm. Eng. Fl. iv. 337; Eng. Bot. 2022; Gr. Fl. Eds. 213; Bolt. Fil. t. 36, 37; With. iii. 981; Berwick Flora, ii. 5.
In boggy woods, not rare.

LYCOPODINEÆ.

5. LYCOPODIUM.

1. *L. clavatum*. Common Club-moss.
Sm. Eng. Fl. iv. 331; Eng. Bot. 224; Hook.
Fl. Scot. 159; With. iii. 984; Gr. Fl. Eds.
215; Berwick Flora, ii. 20.
On moors, frequent.
2. *L. Selaginoides*. Prickly Club-moss.
Sm. Eng. Fl. iv. 332; Eng. Bot. 1148; Hook.
Fl. Scot. 159; With. iii. 984; Gr. Fl. Eds.
216; Berwick Flora, ii. 21.
In bogs, but not very common. On the Muckle-
moss, near the Roman Wall, and at Prestwick
Carr, N. On the Weardale and Teesdale Moors,
and on Gateshead Fell, D.
3. *L. Selago*. Fir Club-moss.
Sm. Eng. Fl. iv. 333; Eng. Bot. 233; Gr. Fl.
Eds. 216; With. iii. 985; Berwick Flora, ii.
21.
On moors, frequent.
4. *L. alpinum*. Savin-leaved Club-moss.
Sm. Eng. Fl. iv. 334; Eng. Bot. 234; Gr. Fl.
Eds. 216; With. iii. 986; Berwick Flora, ii. 22.
On alpine moors, not rare.

FILICES.

6. OPHIOGLOSSUM.

1. *O. vulgatum*. Common Adder's-tongue.
Sm. Eng. Fl. iv. 329; Eng. Bot. 108; Hook.
Lond. t. 78; Bolt. Fil. t. 3; Gr. Fl. Eds. 217;
With. iii. 989.
In meadows near Fulwell, Gateshead, and Saltwell-
side, D. In East Common Wood near Hexham,
N. Near Netherwitton, N.—Miss Forster, delin.
By a foot way below Honeycleugh Crag on the
east side of a streamlet near Chester Wood, N.—
Wallis, 243.

7. BOTRYCHIUM.

1. *B. Lunaria*. Common Moonwort.
Sm. Eng. Fl. iv. 328; Hook. Lond. t. 66; Fl.
Scot. ii. 158; Berwick Flora, ii. 19; *Osmunda*
Lunaria, Eng. Bot. 318; Bolt. Fil. t. 4; With.
ii. 990.
On the sea coast between South Shields and Sunder-
land, near Marsden, on Gateshead Fell, Beamish
Moor, Lanchester Fell, and near the High Force
of Tees, D. On moors near Blanchland, on the
coast near Tynemouth, on Newcastle Town Moor,
also near Longhorsley and Alnwick, on Hexham
Fell and Bradley Crag near St. Oswald, N. Near
Cambo, Netherwitton, and at Shaftoe Crag near
Wallington, N.—W. C. Trevelyan, Esq. On both
sides of the Roman Wall, at Tower-tay, near
Wallwick, and near the High Woodhouse, or
West Wood near Hexham.—Wallis, 244. Near
Langley Ford, N.—Dr. G. Johnston.

8. BLECHNUM.

1. *B. boreale*. Northern Blechnum, Rough Spleen-
wort.
Sm. Eng. Fl. iv. 316; Eng. Bot. 1159; Hook.
Fl. Scot. 157; Berwick Flora, ii. 17; *B. Spi-*

cant, With. iii. 994; *Osmunda Spicant*, Curt.
Lond. Fasc. ii. t. 67; Bolt. Fil. t. 6.
On heaths and moors, and in denes, not rare.

9. PTERIS.

1. *P. aquilina*. Common Brakes.
Sm. Eng. Fl. iv. 318; Eng. Bot. 1679; Bolt.
Fil. t. 16; Hook. Fl. Scot. ii. 156; Berwick
Flora, ii. 18.
On moors, and in woods and denes, common.

10. CRYPTOGRAMMA.

1. *C. crispa*. Curled or Rock Brakes.
Hook. Brit. Fl. 449; *Pteris crispa*, Sm. Eng. Fl.
iv. 319; Eng. Bot. 1160; Hook. Fl. Scot. ii.
156; Berwick Flora, ii. 19; With. iii. 993;
Osmunda crispa, Bolt. Fil. t. 7; Hudson, 450.
On Basaltic rocks on which the Roman Wall is built
above Crag Lake, and at the foot of Cheviot be-
yond Langley Ford, N. Near the summit of
Cheviot.—Dr. G. Johnston. On the banks of
Common Bourn, N.—W. C. Trevelyan, Esq. In
Waskerley Park, and on stone walls in Teesdale
Forest, D.

11. SCOLOPENDRIUM.

1. *S. vulgare*. Common Hart's-tongue.
Sm. Eng. Fl. iv. 314; Eng. Bot. 1150; Gr. Fl.
Eds. 218; Berwick Flora, ii. 17; *Asplenium*
Scolopendrium, Curt. Lond. Fasc. i. t. 67; Bolt.
Fil. 11; Woodv. Supp. t. 272; With. iii. 995.
In Cawsey and Cocken Woods, in Castle Eden Dene,
and on the Roman station near Lanchester, D.
In Benwell, Scotswood, and Wallbottle Denes,
and in woods near Alnwick, N. At Honeycleugh
Crag, near Chester Wood, on South Tyne, and in
the gill at Sandhoe near Hexham, N.—Wallis, 246.

12. ASPLENIUM.

1. *A. Trichomanes*. Common Maidenhair Spleen-
wort.
Sm. Eng. Fl. iv. 305; Eng. Bot. 576; Hook.
Lond. t. 156; Fl. Scot. ii. 155; Woodv. t. 204;
Bolt. Fil. t. 13; With. iii. 997; Berwick Flora,
ii. 16.
In Cawsey and Gibside Woods, and on the rocks at
Boldon, Cleadon, and Castle Eden, D. On Whit-
burn church, D.—Rev. J. Symons. On the ruins
of Hulne Abbey, and on Gunnerton Crag, also on
rocks at Rothbury, N.
2. *A. viride*. Green Maidenhair Spleenwort.
Sm. Eng. Fl. iv. 306; Eng. Bot. 2257; Hook.
Fl. Scot. ii. 155; Bolt. Fil. t. 14; With. iii.
998.
On Basaltic rocks below the High Force, at Caul-
dron Snout, and the Widdy Bank, Teesdale, D. In
Irehope Dene in Weardale, D.—W. C. Trevelyan,
Esq. At Wardrew and Whinnetty, N.—Mr. J.
Thompson, Sp.
3. *A. marinum*. Sea Spleenwort.
Sm. Eng. Fl. iv. 307; Eng. Bot. 392; Hook.
Lond. t. 60; Fl. Scot. ii. 155; Bolt. Fil. t. 15;
With. iii. 998; Berwick Flora, ii. 16.
On Magnesian Limestone rocks, on the coast near
Byers's Quarry in the vicinity of Whitburn, and
near Seaton, D. At Black Hall Dene near Hart-
lepool, D.—Rev. Jas. Dalton.

4. *A. Ruta muraria*. Wall-rue Spleenwort, White Maidenhair.
Sm. Eng. Fl. iv. 309; Eng. Bot. 150; Hook. Fl. Scot. ii. 156; Bolt. Fil. t. 16; With. iii. 999; Berwick Flora, ii. 16.
On rocks on Boldon and Cleadon Hills, and at Castle Eden Dene, also on walls at Gibside and near Hilton Castle, and at the Roman station near Lanchester, D. On Ovingham Church walls, and on the Roman Wall at Shewing Shields, also at Alnwick, N. On the bridge at Corbridge, and on the church wall at Simonburn, N.—Wallis, 249.
5. *A. Adiantum nigrum*. Black Maidenhair, Spleenwort.
Sm. Eng. Fl. iv. 310; Bolt. Fil. t. 17; Eng. Bot. 1950; Berwick Flora, ii. 16; Gr. Fl. Eds. 219; With. iii. 1000.
 β Sm. Eng. Fl. iv. 311; Pluk. Phyt. t. 282, f. 3.
 α On the walls of Blanchland Church, and on crags at West Dipton near Hexham, on the Town walls of Newcastle, and rocks at Warkworth Hermitage and walls at Alnwick, also near Haltwhistle, N. In the Freestone quarry on the west side of Hallbarns, and in the wood at Blakelaw opposite Low Moralee near Wark in Tynedale.—Wallis, 248.
On the sea banks beyond Hudshead, and on Chapel Crags near Belford.—Dr. Thompson. Near Berwick, not rare, N.—Dr. G. Johnston. On rocks in Cawsey Dene, and near the High Force Teesdale, also on walls at Lumley Castle, D. On ruins at Bear's Park, D.—Rev. J. Symons. β on rocks at Cocken, D., rare.

13. ASPIDIUM.

1. *A. Lonchitis*. Rough Alpine Shield-fern.
Sm. Eng. Fl. iv. 284; Hook. Fl. Scot. 153; *Polypodium Lonchitis*, Eng. Bot. 797; Bolt. Fil. t. 19; With. iii. 1004.
In fissures of rocks between Widdy Bank and Cauldron Snout, Teesdale, D.
First found by the Rev. J. Harriman.
2. *A. Oreopteris*. Heath Shield-fern, Fragrant-fern.
Sm. Eng. Fl. iv. 286; Gr. Fl. Eds. 222; Berwick Flora, ii. 11; *Polypodium Oreopteris*, Eng. Bot. 1019; With. iii. 1005; *P. Thelypteris*, Bolt. Fil. 40, 22, f. 1, 2.
In the west quarries near Spring Gardens, Newcastle, and at the foot of Cheviot above Langley Ford, N. In Cawsey Wood, on Gateshead Fell, on Beamish Moor, near Urpeth, and on the banks of Pont Bourn, also in Waskerley Dene, and near Medomsley and Darlington, D. On the banks of Derwent above Blanchland, and of Beldon and Nuckton Bourns, D. and N. In Arngill, D.—Mr. J. Backhouse.
3. *A. Filix-mas*. Male Fern, Male Shield-fern.
Sm. Eng. Fl. iv. 288; Hook. Fl. Scot. ii. 154; Lond. t. 40; Eng. Bot. 1458; Berwick Flora, ii. 11; *A. cristatum*, Eng. Bot. 1949; *Polypodium Filix-mas*, Woodv. t. 49; Bolt. Fil. t. 44.
In woods, denes, and on hedge banks, common.
4. *A. lobatum*. Close-leaved Prickly Shield-fern.
Sm. Eng. Fl. iv. 291; Eng. Bot. 1563; Berwick Flora, ii. 11; Forster, Tonbr. 118; *A. aculeatum*, Hook. Fl. Scot. ii. 154; Br. Fl. 443; Gr. Fl. Eds. 221; *Polypodium lobatum*, Hudson, 459.
 β *F. Lonchitidis affinis*, Ray. Syn., 2d ed., 48; *Aspidium aculeatum* β , Sm. Eng. Fl. iv. 290.

α and β in woods and denes, common; β being the plant in a young state.

Though *A. lobatum* is common in every wood in these counties, I have never met with *A. aculeatum*, or its variety, *A. angulare*, which grow in the dene above and below the Pease Bridge in Berwickshire.—See Berwick Flora. In the south of England it is common.

5. *A. dilatatum*. Great Crested Shield-fern.
Sm. Eng. Fl. iv. 293; Eng. Bot. 1461; Forster, Tonbr. 119; Berwick Flora, ii. 14; Hook. Fl. Scot. ii. 154; *Polypodium cristatum*, Bolt. Fil. t. 23; With. iii. 1010.
 β *A. spinulosum*, Eng. Bot. t. 1460; Sm. Eng. Fl. iv. 292; Forster's Tonbr. 119; Swartz, Syn. Fil. 54, according to specimens from the Author.
 α In woods and denes, frequent. β in Cawsey Wood, D. On Shaftoe Crags near Wallington, N.
 β Should scarcely be considered a variety, being merely the young state of the plant.
6. *A. Filix-femina*. Female Shield-fern.
Sm. Eng. Fl. iv. 295; Eng. Bot. 1459; Berwick Flora, ii. 14; Hook. Fl. Scot. ii. 155; *Polypodium Filix-femina*, Hudson, 458; Bolt. Fil. t. 25.
In woods, denes, and under hedges, frequent.

14. POLYPODIUM.

1. *P. vulgare*. Common Polypody.
Sm. Eng. Fl. iv. 280; Eng. Bot. 1149; Woodv. Supp. 271; Bolt. Fil. t. 18; Curt. Lond. Fasc. i. t. 68; Hook. Fl. Scot. ii. 153; Berwick Flora, ii. 10.
On old walls, shady banks, and the trunks of trees.
2. *P. Phlegopteris*. Pale Mountain Polypody.
Sm. Eng. Fl. iv. 282; Eng. Bot. 2224; Bolt. Fil. t. 20; Gr. Fl. Eds. 222; With. iii. 1005; Berwick Flora, ii. 10.
In Cawsey Wood and Waskerley Dene, D. In Cowclose and Arngills, D.—Mr. Jas. Backhouse. On rocks at the foot of Cheviot, above Langley Ford, and at Shewing-shields, N. On the banks of Derwent, of Nuckton and Beldon Bourns above Blanchland, N. and D. On the banks of Fallowlees Bourn, and on moors near Wallington, N.—W. C. Trevelyan, Esq.
3. *P. Dryopteris*. Tender Three-branched Polypody.
Sm. Eng. Fl. iv. 282; Eng. Bot. 616; Bolt. Fil. t. 28; Gr. Fl. Eds. 222; With. iii. 1012; Berwick Flora, ii. 11.
In Cawsey Wood, Feldon and Waskerley Denes, Howns Wood, and above Winch Bridge Teesdale, D. In Arngill and woods near Darlington, D.—Mr. J. Backhouse. In Walbottle and Scotswood Denes, on rocks at the foot of Cheviot above Langley Ford, at Shewing-shields, and West Dipton near Hexham, also near Alnwick, N. On the banks of the Derwent, and of Nuckton and Beldon Bourns, N. and D. On the banks of Fallowlees Bourn, near Hartburn, and on the south bank of the Wansbeck south of Wallington, also in Twizell Dene, N.—W. C. Trevelyan, Esq.

15. WOODSIA.

1. *W. ilvensis*. Oblong Woodsia.
Sm. Eng. Fl. iv. 322; Brown, Linn. Tr. xi. 173; *Polypodium ilvensc*, Swartz, Syn. Fil. 39.
At the foot of the Basaltic rocks on the Durham side of the river Tees about two hundred yards below

Cauldron Snout.—Mr. J. Backhouse, Sp. Near the summit of some bold Basaltic rocks called Falcon Clints about ten miles west of Middleton-in-Teesdale.—Mr. S. Halestone.
These localities cannot be far asunder.

16. CYSTEA.

1. *C. fragilis*. Brittle Bladder-fern.
Sm. Eng. Fl. iv. 298; Berwick Flora, ii. 16;
Cyathea fragilis, Eng. Bot. 1587; *Aspidium fragile*, Gr. Fl. Eds. 220; *Polypodium fragile*, Bolt.
Fil. t. 27 and 46; With. iii. 1010.
In Cawsey Wood, on walls at Beamish and Stanhope, on rocks at the Gunner's Pool in Castle Eden Dene, and in Ravensworth Woods, D. On rocks at Shewing Shields, and near Tecket Water-fall, N. On the banks of Common Bourn near Cheviot.—W. C. Trevelyan, Esq. On Little Waney-house Crag near Sweethope Lake, N.—Wallis, 254.
This fern, when growing at different elevations, in various exposures, and on rocks dissimilar in chemical composition, becomes so much altered in general appearance, that it has afforded botanists opportunities of multiplying the species fourfold at least.
2. *C. dentata*. Toothed Bladder-fern.
Sm. Eng. Fl. iv. 300; *Cyathea dentata*, Eng. Bot. 1588; *Aspidium dentatum*, Hook. Fl. Scot. ii. 155; *Polypodium dentatum*, Dickson, Crypt. iii. 1, t. 7.
On rocks between Widdy Bank and Cauldron Snout Teesdale, D.—Rev. J. Harriman.
I have no specimen collected in this habitat, but those of G. Don, from Ben Lawers, strongly resemble *Cystea fragilis*, of which it is probably a variety.

17. HYMENOPHYLLUM.

1. *H. Wilsoni*. Scottish Filmy-fern.
Hook. Br. Fl. 450; Eng. Bot. 2686.
On Simonside Hills, N.—W. C. Trevelyan, Esq.

MUSCI.

18. PHASCUM.

1. *P. serratum*.
Hook. and Tay. Musc. 4; Berwick Flora, ii. 56;
Dick. Crypt. Fasc. 1, t. 1, f. 1; Eng. Bot. 460;
Turn. Musc. 4; *P. stoloniferum*, Dicks. Crypt.
Fasc. 3, t. 7, f. 2; Eng. Bot. 2006.
Near Berwick, in corn fields of a light peat soil, not common.—Dr. G. Johnston.
2. *P. crispum*.
Hook. and Tay. Musc. 6; Eng. Bot. 1680; Arn.
Disp. Musc. 7; *P. multicapsule*, Eng. Bot. 618.
At West Dipton near Hexham, N. Near Darlington, D.—Mr. Backhouse.
3. *P. subulatum*.
Hook. and Tay. Musc. 6; Eng. Bot. 2177; Berwick Flora, ii. 56; Arn. Disp. Musc. 7; *P. acaule*, Dill. Musc. t. 32, f. 10.
On banks near the Redheugh, Gateshead, D. On the fragment of the Roman wall at Denton Bourn, also at Prestwick Carr, in East Common Wood, and on Newcastle Town Moor, N. Near Crowhall Mill, N.—Mr. J. Thompson, Sp.

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4. *P. axillare*.
Hook. and Tay. Musc. 7; Eng. Bot. 1036; Arn.
Disp. Musc. 7; *P. strictum*, Eng. Bot. 2093;
Dick. Crypt. Fasc. iv. t. 10, f. 1.
At West Dipton near Hexham, N.
5. *P. patens*.
Hook. and Tay. Musc. 7; Eng. Bot. 1279.
Near Darlington, D.—Mr. Backhouse.
6. *P. muticum*.
Hook. and Tay. Musc. 8; Eng. Bot. 2027; Arn.
Disp. Musc. 7; Turn. Musc. 3.
Near Darlington, D.—Mr. Backhouse.
7. *P. cuspidatum*.
Hook. and Tay. Musc. 8; Eng. Bot. 2025; Arn.
Disp. Musc. 7; Berwick Flora, ii. 56; *P. Schreberianum*, Eng. Bot. 2026; *P. curvisetum*,
Eng. Bot. 2259.
β piliferum, Hook. and Tay. Musc. 8.
On hedge banks near Gateshead, Hedworth, Jarrow, Sunderland, East Murton, and Medomsley, D. Near Darlington, D.—Mr. Backhouse. In East Common Wood, near Hexham, and on walls near Benwell and Denton, N. At the foot of Cheviot, also about Berwick, N.—Dr. G. Johnston. Near Crowhall Mill, N.—Mr. Jno. Thompson, Sp.
8. *P. bryioides*.
Hook. and Tay. Musc. 10; Eng. Bot. 1180;
Arn. Disp. Musc. 8.
On gravel walks about Darlington, D.—Mr. Backhouse.
9. *P. curvicolium*.
Hook. and Tay. Musc. 11; Eng. Bot. 905; Arn.
Disp. Musc. 8.
In gravel pits near Darlington, D.—Mr. Backhouse.

19. SPHAGNUM.

1. *S. obtusifolium*.
Hook. and Tay. Musc. 13; Berwick Flora, ii. 55;
S. latifolium, Eng. Bot. 1405.
In bogs abundant.
2. *S. squarrosum*.
Hook. and Tay. Musc. 14; Eng. Bot. 1498.
In bogs on moors, not rare.
3. *S. acutifolium*.
Hook. and Tay. Musc. 14; Berwick Flora, ii. 55;
S. capillifolium, Eng. Bot. 1406.
In bogs, frequent.
4. *S. cuspidatum*.
Hook. and Tay. Musc. 15; Eng. Bot. 2392;
Berwick Flora, ii. 55; Dill. Musc. t. 2, f. 2 B;
Arn. Disp. Musc. 6.
In bogs; immersed in water.

20. GYMNOSTOMUM.

1. *G. ovatum*.
Hook. and Tay. Musc. 21; Eng. Bot. 1689; Arn.
Disp. Musc. 10; Berwick Flora, ii. 54.
On walls near Benwell, Denton, and Newcastle, N. On the Windmill Hills, Gateshead, D. Near Berwick.—Dr. G. Johnston.
2. *G. truncatum*.
Hook. and Tay. Musc. 22; Eng. Bot. 1975;
Berwick Flora, ii. 53.
β intermedium, Eng. Bot. 1976; Turn. Musc. vii.
t. 1, f. a.
α On walls about Newcastle, common. *β* in Cawsey Wood on the bank near the Bridge, on walls near

T

the Long Bank between Newcastle and Chester-le-Street, also near Sunderland, D. Near Backworth, Killingworth, and West Denton, N.

3. *G. Heimii*.

Hook. and Tay. Musc. 22; Turn. Musc. 9; Gr. Fl. Eds. 228; *G. obtusum*, Eng. Bot. 1407; Turn. Musc. 9.

In meadows near Beamish, and on banks near the Law at South Shields, D. At Heddon-on-the-Wall, and near Wylam, N. At Cullercoats, N.—Mr. R. B. Bowman, Sp.

4. *G. fasciculare*.

Hook. and Tay. Musc. 23; Eng. Bot. 1245; Turn. Musc. t. 10; Gr. Fl. Eds. 223.

On boggy ground on the banks of Tyne above Gateshead, D. On stones in a rivulet above Edmondbyers, D.—Mr. J. Thornhill. At Prestwick Carr and in East Common Wood near Hexham, N.

5. *G. pyriforme*.

Hook. and Tay. Musc. 24; Eng. Bot. 413; Arn. Disp. Musc. 10; Gr. Fl. Eds. 229; Berwick Flora, ii. 54.

In damp situations near Urpeth, Beamish, Kipp Hill, and Medomsley, D. Near Hexham, Lemington, Benton, and Gosforth, N. On rocks at Ord Mill, near Berwick.—Dr. G. Johnston.

6. *G. tenue*.

Hook. and Tay. Musc. 24; Arn. Disp. Musc. 11; Gr. Fl. Eds. 229; Berwick Flora, ii. 55; *G. paucifolium*, Eng. Bot. 2506; *Bryum paucifolium*, Dick. Crypt. Fasc. iv. t. 11, f. 3; *Dicranum cylindricum*, Fl. Brit. 1221.

On a Sandstone rock in the plantations above Ord Mill near Berwick.—Dr. G. Johnston.

7. *G. Donianum*.

Hook. and Tay. Musc. 25; Eng. Bot. 1532; Arn. Disp. Musc. 10.

On rocks near the High Force, Teesdale, D.—Mr. R. B. Bowman, Sp.

8. *G. microstomum*.

Hook. and Tay. Musc. 25; Eng. Bot. 2215; Arn. Disp. Musc. 10; Gr. Fl. Eds. 229.

In fields near Saltwellside, Gateshead, and Maiden Law, D. At Prestwick Carr, and in Dilston Park, N.

21. ANICTANGIUM.

1. *A. ciliatum*.

Hook. and Tay. Musc. 27; Arn. Disp. Musc. 11; Berwick Flora, ii. 53; Gr. Fl. Eds. 229; *Gymnostomum ciliatum*, Eng. Bot. 1179.

On rocks in Waskerley Park, in Teesdale and Wear-dale, and on the banks of Derwent near Blanchland, D. On Shafto Crags, near Wallington, and on trees at Wardrew, N.

22. DYPHYSCIUM.

1. *D. foliosum*.

Hook. and Tay. Musc. 32; Arn. Disp. Musc. 12; *Buxbaumia foliosa*, Eng. Bot. 329; Sm. Fl. Brit. 1148.

Near the High Force and Cauldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.

23. TETRAPHIS.

1. *T. pellucida*.

Hook. and Tay. Musc. 33; Eng. Bot. 1020;

Berwick Flora, ii. 53; Gr. Fl. Eds. 230; Arn. Disp. Musc. 14.

In Cawsey, Ravensworth, and Beamish Woods, and on the banks of Derwent above Gibside, D. In Walbottle and Scotswood Denes, and in Oakwood and East Common Wood, N. On Murton Crags near Berwick.—Dr. G. Johnston.

2. *T. Browniana*.

Hook. and Tay. Musc. 33; Gr. Crypt. t. 169; Fl. Edin. 230; Arn. Disp. Musc. 14; *T. ovato*, Hook. and Tay. Musc., 1st ed., 17; *Bryum Brownianum*, Dick. Crypt. Fasc. iv. t. 10, f. 16; *Orthotrichum Brownianum*, Fl. Brit. 1269; *Grimmia Browniana*, Eng. Bot. t. 1422 (*bad*).

On ledges of Sandstone rocks in Cawsey Dene, D.—Mr. R. B. Bowman, Sp. In Twizell Dene, N.—Greville, Sps. from Dr. G. Johnston.

24. SPLACHNUM.

1. *S. sphaericum*.

Hook. and Tay. Musc. 36; Eng. Bot. 1174; Arn. Disp. Musc. 12; Berwick Flora, ii. 53; *S. gracile*, Dick. Crypt. Fasc. iv. t. 10, f. 5; *S. ovatum*, Eng. Bot. 1590.

At Holliswell Moss and Ebchester, also on Cheviot and at Prestwick Carr, N. At Catcherside near Cambo, N.—W. C. Trevelyan, Esq. In Teesdale, D. not rare.

2. *S. minioides*.

Hook. and Tay. Musc. 38; Eng. Bot. 1539; Arn. Disp. Musc. 13.

Near the Cauldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.

3. *S. omphallaceum*.

Hook. and Tay. Musc. 39; Eng. Bot. 144; Gr. Fl. Eds. 231; *S. Turnerianum*, Eng. Bot. 1116.

At Prestwick Carr, and on the Muckle Moss, N. At Gold-hill, D. Near Darlington, D.—Mr. E. Robson, Sp.

25. POLYTRICHUM.

1. *P. undulatum*.

Hook. and Tay. Musc. 43; Eng. Bot. 1220; Berwick Flora, ii. 44; *Bryum undulatum*, Dill. Musc. t. 46, f. 18.

On hedge banks and in denes.

2. *P. piliferum*.

Hook. and Tay. Musc. 44; Eng. Bot. 1199; Berwick Flora, ii. 43.

On dry heaths and stone fences.

3. *P. juniperinum*.

Hook. and Tay. Musc. 45; Eng. Bot. 1200; Berwick Flora, ii. 43; *P. strictum*, Eng. Bot. 2435.

On moors, frequent.

4. *P. commune*.

Hook. and Tay. Musc. 46; Eng. Bot. 1197; Berwick Flora, 242; *β P. attenuatum*, Eng. Bot. 1198; Turner, Musc. 84; *P. gracile*, Eng. Bot. 1827; Turner, Musc. 85.

On moors, common.

5. *P. alpinum*.

Hook. and Tay. Musc. 48; Eng. Bot. 1905; Gr. Fl. Eds. 246; Arn. Disp. Musc. 71; Berwick Flora, ii. 44.

On Cheviot, Hedgehope, Simonside, and the banks of Beldon Bourn, N. On Swinhope, D.

- P. urnigerum*.
Hook. and Tay. Musc. 49; Eng. Bot. 1218; Gr. Fl. Eds. 246; Berwick Flora, ii. 44.
On wet sandy banks, not rare. On Gateshead Fell and near Ravensworth, D. Near Pont Bourn.—Mr. J. Thornhill. Near Harlow Hill, and on Cheviot and Hedgehope, N.
7. *P. aloides*.
Hook. and Tay. Musc. 49; Eng. Bot. 1619; Berwick Flora, ii. 44; *P. rubellum*, Eng. Bot. 1939; Turner, Musc. 87; *β P. Dicksoni*, Eng. Bot. 1605.
On moist banks, not uncommon.
8. *P. nanum*.
Hook. and Tay. Musc. 50; Eng. Bot. 1625; Berwick Flora, ii. 44; *P. subrotundum*, Eng. Bot. 1624; *P. pumilum*, Swartz. Musc. t. 9, f. 19.
On hedge banks and stone fences. On Newcastle Town Moor, also near Heddon-on-the-Wall, and in East Common Wood near Hexham, N. In the western part of the county of Durham, frequent. Near Berwick.—Dr. G. Johnston.

26. CINCLODOTUS.

1. *C. fontinaloides*.
Hook. and Tay. Musc. 51; Arn. Disp. Musc. 23; Gr. Fl. Eds. 231; Berwick Flora, ii. 50; *Trichostomum fontinaloides*, Turn. Musc. 41; *Fontinalis minor*, Eng. Bot. 557.
In Dalton Bourn on the Durham coast and in the Wear near Chester-le-Street new Bridge, D. In the Wansbeck at Wallington and Kirkwhelpington, also in the Tweed at Carham and near Coldstream, N.

27. TORTULA.

1. *T. cnervis*.
Hook. and Tay. Musc. 52; Supp. t. 2; *T. rigida*, Eng. Bot. 180.
On walls at the Stoney Flat near Gateshead, and near Beamish Hall, also on Fulwell hills, D.
2. *T. convoluta*.
Hook. and Tay. Musc. 54; Berwick Flora, ii. 46; Eng. Bot. 2382; Turner, Musc. Hib. 149; Sm. Fl. Brit. iii. 1253.
On banks near Berwick, N., rare.—Dr. G. Johnston.
3. *T. revoluta*.
Hook. and Tay. Musc. 54; Berwick Flora, ii. 46; Arn. Disp. Musc. 37; *T. nervosa*, Eng. Bot. 2383.
On banks above New Mills near Berwick, N.—Dr. G. Johnston.
4. *T. muralis*.
Hook. and Tay. Musc. 55; Eng. Bot. 2033; Arn. Disp. Musc. 37; Berwick Flora, ii. 45.
On walls and hedge banks, everywhere.
5. *T. ruralis*.
Hook. and Tay. Musc. 56; Eng. Bot. 2070; Gr. Fl. Eds. 231; Berwick Flora, ii. 45.
On the sea coast but never in fructification, and in the southern part of the county of Durham, frequent. At Saggerston Haugh and Muggleswick, D. At Dilston, near Hexham, N. Near Berwick.—Dr. G. Johnston.
6. *T. subulata*.
Hook. and Tay. Musc. 57; Eng. Bot. 1101; Arn. Disp. Musc. 38; Berwick Flora, ii. 45.
On hedge banks, frequent.

7. *T. unguiculata*.
Hook. and Tay. Musc. 57; Arn. Disp. Musc. 38; Berwick Flora, ii. 45; *T. mucromulata*, Eng. Bot. 1299; *T. aristata*, Eng. Bot. 2393; *T. barbata*, Eng. Bot. 2391; *T. apiculata*, Eng. Bot. 2494; *T. erictorum*, Eng. Bot. 2495.
On walls and hedge banks, common.
8. *T. tortuosa*.
Hook. and Tay. Musc. 59; Eng. Bot. 1708; Gr. Fl. Eds. 232.
On rocks at Cleadon, Bolden, and Fawdon Slate, in Bolihope Dene, also near Stanhope-in-Wear-dale and Middleton-in-Teesdale, D.
Near the coast it is seldom in fructification.
9. *T. fallax*.
Hook. and Tay. Musc. 60; Eng. Bot. 2179; Berwick Flora, ii. 45; *T. imberbis*, Eng. Bot. 2329; *T. unguiculata*, 2316; Turner, Musc. 47.
On Gateshead Fell, Beamish Moor, at Sunnyside, and Painsner, also near Darlington D. Near Wylam and Hexham, N. Near Berwick.—Dr. G. Johnston.
10. *T. gracilis*.
β viridis, Hook. and Tay. Musc. 61; *T. brevifolia*, Eng. Bot. 2453; Fl. Brit. 1259; *Barbula brevifolia*, Bridel. Meth. 92.
In the dene between Oakwood House and Wylam, N. In bogs on the moors near Blanchland and Wellingham, N. and D.

28. ENCALYPTA.

1. *E. streptocarpa*.
Hook. and Tay. Musc. 62; Eng. Bot. 2163; Arn. Disp. Musc. 23.
On rocks and stone fences at Roadley near Wallington, N.—W. C. Trevelyan, Esq.
2. *E. vulgaris*.
Hook. and Tay. Musc. 63; Turner, Musc. 17; Berwick Flora, ii. 52; Gr. Fl. Eds. 234; *Bryum extinctorium*, Eng. Bot. 558.
On walls at Dilston Park near Hexham and near Ovingham, N. On the Roman Station near Lancaster, and at East Merton, Dawden Tower, Cleadon, and in Teesdale, D. Near Berwick.—Dr. G. Johnston. Near Crowhall and Hanshaw.—Mr. John Thompson. Near Crawcrook, D.—Mr. R. B. Bowman.
3. *E. ciliata*.
Hook. and Tay. Musc. 63; Eng. Bot. 1418; Gr. Fl. Eds. 234.
Near the High Force, Teesdale, D.

29. GRIMMIA.

1. *G. apocarpa*.
Hook. and Tay. Musc. 65; Eng. Bot. 1134; Berwick Flora, ii. 52; Gr. Fl. Eds. 234; *G. rivularis*, Eng. Bot. 1345; Turner, Musc. 21, t. 2, f. 2.
On moist rocks and trees and in alpine rivulets, not rare.
2. *G. maritima*.
Hook. and Tay. Musc. 66; Berwick Flora, ii. 52; Eng. Bot. 1645; Gr. Fl. Eds. 234.
On the sea coast near Dalton-le-Dale, D. On the Fern Islands and at Hudshead near Berwick.—Dr. G. Johnston. Near Scremerston, N.

3. *G. pulvinata*.

Hook. and Tay. Musc. 68; Eng. Bot. 1723; Berwick Flora, ii. 52; *Dicranum pulvinatum*, Fl. Brit. 1214.

On walls, everywhere.

4. *G. tricophylla*.

Hook. and Tay. Musc. 68; Grev. Crypt. Fl. t. 100; Arn. Disp. Musc. 21.

On Alnwick Moor, N. On the banks of Waskerley Bourn and near Allansford, D. On rocks at the Canldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.

30. PTEROGONIUM.

1. *T. filiforme*.

Hook. and Tay. Musc. 75; Eng. Bot. 2297; Arn. Disp. Musc. 49; *P. caespitosum*, Eng. Bot. 2526; *Hypnum cylindricum*, Dicks. Crypt. Fasc. ii. 12. On Porphyritic rocks in the dunes above Wooler, N.—Dr. G. Johnston.

31. WEISSIA.

1. *W. nigrita*.

Hook. and Tay. Musc. 73; Arn. Disp. Musc. 26; *Grimmia nigrita*, Eng. Bot. 1325.

In the second field from the Tees between Whey-syke House and Harewood Bourn, D.—Mr. R. B. Bowman, Sp.

2. *W. lanceolata*.

Hook. and Tay. Musc. 30; Gr. Fl. Eds. 236; Arn. Disp. Musc. 24; *Grimmia lanceolata*, Eng. Bot. 1408.

On banks near Whitburn, Boldon, and Cleadon, and on walls near Hedworth and Jarrow, D.

3. *W. cirrata*.

Hook. and Tay. Musc. 32; Gr. Fl. Eds. 237; *Grimmia cirrata*, Eng. Bot. 2356; *G. Dicksoni*, Eng. Bot. 1420.

On the banks of hedges and in meadows, not rare near Newcastle, N. and D.

4. *W. curvirostra*.

Hook. and Tay. Musc. 84; Arn. Disp. Musc. 25; Berwick Flora, ii. 50; *Grimmia recurvirostra*, Eng. Bot. 1438.

On Cheviot and Hedgehope, also on walls at West Denton, near Wylam, and in Wallbottle Dene, N. At Darlington, also near Beamish Hall, and on Gateshead Fell, D. In Stella Dene, D.—Mr. R. B. Bowman.

5. *W. controversa*.

Hook. and Tay. Musc. 84; Arn. Disp. Musc. 25; Berwick Flora, ii. 50; *Grimmia controversa*, Eng. Bot. 1367; Turner, Musc. 27.

On walls at Dilston Park and at Fallowlees Bourn, N. At Beamish, Urpeth, and Gateshead Fell, D. Near Berwick.—Dr. G. Johnston.

6. *W. recurvata*.

Hook. and Tay. Musc. 35; Gr. Fl. Eds. 237; *Grimmia recurvata*, Eng. Bot. 1489; Turner, Musc. 24.

On Sandstone rocks in Cawsey Wood, Stella Dene, and at Pont Bourn near Hamsterley, D. In Scotswood, Denton, and Wallbottle Denes, N. Near East Ord, N.—Dr. G. Johnston.

7. *W. verticillata*.

Hook. and Tay. Musc. 36; Gr. Fl. Eds. 238;

Berwick Flora, ii. 50; *Grimmia verticillata*, Eng. Bot. 1258; Turner, Musc. 31.

On the banks of Tyne at Warden Mill, and of the Deals Water at Dilston, N. Near Berwick, and in Twizell Dene near the bridge.—Dr. G. Johnston. Near Crowhall, N.—Mr. J. Thompson, Sp. In the Ouse Bourn near Haddrick's Mill, also near Cullercoats, N.—Mr. R. B. Bowman.

This moss will usually be found encrusted with carbonate of lime.

8. *W. acuta*.

Hook. and Tay. Musc. 37; Gr. Fl. Eds. 238; *Grimmia acuta*, Eng. Bot. 1644; Turner, Musc. 29.

On the banks of Beldon Bourn above Blanchland, and in East Common Wood near Hexham, N.

32. DICRANUM.

1. *D. bryoides*.

Hook. and Tay. Musc. 38; Eng. Bot. 625; Berwick Flora, ii. 48; Swartz. Musc. t. 2, f. 4; Turner, Musc. t. 53; *D. viridulum*, Eng. Bot. 1368; *D. osmundioides*, Eng. Bot. 1662.

α In fields, meadows, and woods. *β* on the heath at Prestwick Carr, in Dilston Park, and on moors near Blanchland, N. In Waskerley Park, D. Near Berwick.—Dr. G. Johnston.

2. *D. adiantoides*.

Hook. and Tay. Musc. 90; Berwick Flora, ii. 49; Gr. Fl. Eds. 233; Turner, Musc. 57; *Hypnum adiantoides*, Eng. Bot. 264.

In meadows, fields, and woods.

3. *D. taxifolium*.

Hook. and Tay. Musc. 91; Gr. Fl. Eds. 238; Berwick Flora, ii. 49; *Hypnum taxifolium*, Eng. Bot. 416; Dill. Musc. t. 34, f. 2.

In fields, meadows, and woods, N. and D. Near Berwick.—Dr. G. Johnston.

4. *D. glaucum*.

Hook. and Tay. Musc. 92; Eng. Bot. 2166; Berwick Flora, ii. 47; *Bryum glaucum*, Dill. Musc. t. 46, f. 20, and t. 33, f. 8.

In bogs on moors, frequent.

5. *D. longifolium*.

Hook. and Tay. Musc. 93; Arn. Disp. Musc. 29. In Waskerley Park, D., but not in fructification.

The Durham plant agrees with specimens from Scotland named by Dr. Greville, but is much larger, and its leaves more curved than those of *D. longifolium*, of Swartz. Many years ago, Turner would not allow my plant to be the true *D. longifolium* of the foreign botanists, but declined naming it.

6. *D. cerviculatum*.

Hook. and Tay. Musc. 93; Eng. Bot. 1661; Gr. Fl. Eds. 239; *D. pusillum*, Eng. Bot. 2491; *D. uncinatum*, Eng. Bot. 2261.

At Prestwick Carr, N. On the banks of Beldon and Nucton Bourns above Blanchland, D. and N.

7. *D. flexuosum*.

Hook. and Tay. Musc. 94; Eng. Bot. 1491; Gr. Fl. Eds. 239; *β nigro viride*, *Sphagnum alpinum*, Dill. Musc. t. 47, f. 33, and t. 32, f. 3.

At Prestwick Carr, N. On Holliwell Moss between Nucton and Beldon Bourns, N. and D. On Hedgehope and Cheviot, N.

8. *D. polycarpum*.

- Hook. and Tay. Musc. 96; Sm. Fl. Brit. iii. 1227; Eng. Bot. 2269; Berwick Flora, MSS.
On rocks in Humbleton Dene above Wooler, N.—Dr. G. Johnston.
9. *D. squarrosus*.
Hook. and Tay. Musc. 98; Eng. Bot. 2004; Gr. Fl. Eds. 240; Berwick Flora, ii. 48.
On Beamish Moor, and on the banks of Hishope Bourn, D. On Hedgehope and Cheviot, N.
10. *D. pellucidum*.
Hook. and Tay. Musc. 98; Eng. Bot. 1346; Gr. Fl. Eds. 240; Berwick Flora, ii. 48.
In Cawsey Wood, on Beamish Moor, by Pont Bourn, also in Ravensworth and Gibside Woods, D. In Walbottle and Scotswood Denes, at Prestwick Carr, and in Dilston Park, N. Near Berwick.—Dr. G. Johnston.
11. *D. crispum*.
Hook. and Tay. Musc. 99; Eng. Bot. 1151; Arn. Disp. Musc. 33; Berwick Flora, ii. 47.
On Urpeth and Beamish Moors, D. Below Shoreswood Hall.—Dr. Thompson. In the dene below Allerton Mill, N.—Dr. G. Johnston.
12. *D. undulatum*.
Hook. and Tay. Musc. 100; Eng. Bot. 2260; Gr. Fl. Eds. 240; Berwick Flora, ii. 47; *D. polysetum*, Swartz. Musc. t. 3, f. 5.
On Gateshead and Ravensworth Fells, also near Felton Lead Mill, D. In Dilston Park, and East Common Wood near Hexham, N. Near Crowhall, N.—Mr. J. Thompson, Sp. Near Berwick.—Dr. G. Johnston.
13. *D. scoparium*.
Hook. and Tay. Musc. 101; Berwick Flora, ii. 47; *D. majus*, Eng. Bot. 1490; *Bryum scoparium*, Eng. Bot. 354.
On moors and in woods, frequent.
14. *D. fuscescens*.
Turner, Musc. 60; Fl. Brit. 1204; Eng. Bot. 1597; Gr. Fl. Eds. 241; *D. scoparium* β , Hook. and Tay. Musc. 101.
On rocks near Heddon-on-the-Wall, N. On stone fences in Muggleswick and Waskerley Parks, also on the Weardale and Teesdale Moors, D.
15. *D. varium*.
Hook. and Tay. Musc. 102; Berwick Flora, ii. 47; Eng. Bot. 1215; Gr. Fl. Eds. 241; *D. rigidulum*, Eng. Bot. 1439; *D. rufescens*, Eng. Bot. 1216; *Bryum rufescens*, Dill. Musc. t. 50, f. 59.
 α In fields and meadows.
 β Appears to be merely tinged by moss water.
16. *D. heteromallum*.
Hook. and Tay. Musc. 103; Eng. Bot. 1272; Gr. Fl. Eds. 241; Berwick Flora, ii. 48; *D. interruptum*, Eng. Bot. 2508; Dill. Musc. t. 47, f. 37, 38.
On moist banks, not rare, N. and D. Near Berwick, and in Twizell Dene, N.—Dr. G. Johnston. Near Crowhall, N.—Mr. J. Thompson, Sp.
33. TRICHOSTOMUM.
1. *T. lanuginosum*.
Hook. and Tay. Musc. 105; Eng. Bot. 1348; Gr. Fl. Eds. 242; Berwick Flora, ii. 51.
On rocks at Shewing Shields, Simonside, Hedgehope, and Cheviot, N. On moors near Urpeth, Waskerley, in Teesdale, and similar situations in the north-west of the county of Durham, abundant.
2. *T. canescens*.
Hook. and Tay. Musc. 106; Eng. Bot. 2434; Gr. Fl. Eds. 242; Berwick Flora, ii. 51; *T. ericoides*, Eng. Bot. 1991; Turner, Musc. 38.
On rocks near Cawsey Arch, Gateshead Fell, Ravensworth Fell, and on moors in Teesdale, also near Blanchland, D. On Simonside, Cheviot, and Hedgehope, N.
3. *T. heterostichum*.
Hook. and Tay. Musc. 106; Eng. Bot. 1347; Gr. Fl. Eds. 242; Berwick Flora, ii. 51.
On rocks and stones in the west of the county of Durham, frequent. At Wardrew, and on Simonside, Hedgehope, and Cheviot, N.
4. *T. microcarpon*.
Hook. and Tay. Musc. 107; Eng. Bot. 1440; Arn. Disp. Musc. 22.
On Cheviot, Hedgehope, and Alnwick Moor, N.
5. *T. aciculare*.
Hook. and Tay. Musc. 107; Gr. Fl. Eds. 243; Berwick Flora, ii. 51; *Dicranum aciculare*, Eng. Bot. 1978; Turner, Musc. 67.
On stones and rocks in sub-alpine rivulets, not rare. In Scotswood Dene, Dilston Park, in Wooler Water above Langley-ford, in the Wansbeck near Wallington. In Reedsdale, N.—W. C. Trevelyan, Esq.
6. *T. fasciculare*.
Hook. and Tay. Musc. 108; Eng. Bot. 2005; Gr. Fl. Eds. 243.
On Beamish Moor and in Cawsey Dene, and on moors in the west of the county of Durham, frequent. On Simonside, Hedgehope, and Cheviot, N.
7. *T. polyphyllum*.
Hook. and Tay. Musc. 108; Gr. Fl. Eds. 243; Berwick Flora, ii. 51; *Dicranum polyphyllum*, Eng. Bot. 1217.
On rocks on Holliwell Moss near Blanchland, N. By Howdon Bourn, D.—Mr. J. Thornhill.
This plant, so common in the vicinity of the Cumberland lakes, is rare on the east side of the island.
34. LEUCODON.
1. *L. sciurioides*.
Hook. and Tay. Musc. 112; Arn. Disp. Musc. 50; *Dicranum sciurioides*, Eng. Bot. 1903.
On rocks in Castle Eden Dene, and on trees near Lamesley, Beamish, and Cawsey, D. Above Langley Ford at the foot of Cheviot, and in Dilston Park, N.
35. DIDYMODON.
1. *D. purpureum*.
Hook. and Tay. Musc. 113; Gr. Fl. Eds. 244; Berwick Flora, ii. 46; *Dicranum purpureum*, Eng. Bot. 2262; *D. strictum*, Eng. Bot. 1294; *D. bipartitum*, Eng. Bot. 2357; *D. Celsii*, Eng. Bot. 2418.
On the ground and hedge banks. Very large on the heathy part of Prestwick Carr, N. *D. strictum* of Smith.—See Eng. Bot. 1294.
2. *D. rigidulum*.
Hook. and Tay. Musc. 117; Arn. Disp. Musc. 35; *Trichostomum lineare*, Eng. Bot. 1598. *T. rigidulum*, Eng. Bot. 2178; Turner, Musc. 34.
On rocks in the Ouse Bourn, near Haddrick's Mill, and near Wylam, N. On rocks by the Tyne above

- Hebburn Quay, and on the banks of Feldon and Pont Bourns, D.
3. *D. trifarium*.
Hook. and Tay. Musc. 118; Gr. Fl. Eds. 244; Berwick Flora, ii. 46; *Trichostomum linoides*, Eng. Bot. 2295; *T. trifarium*, Eng. Bot. 1707.
By the High Force of Tees, and above Stanhope in Weardale, D. At Prestwick Carr, N. Near Berwick.—Dr. G. Johnston.
4. *D. capillaceum*.
Hook. and Tay. Musc. 119; Gr. Fl. Eds. 224; *Trichostomum capillaceum*, Eng. Bot. 1152.
On Cheviot, Hedgehope, and in Tecket Wood, N. On Boldon and Cleadon Hills, also in Bolyhope Dene, near Stanhope in Weardale, and in Teesdale, D.
5. *D. heteromallum*.
Hook. and Tay. Musc. 119; Gr. Fl. Eds. 244; *Grimmia heteromalla*, Eng. Bot. 1899; *Grimmia homomalla*, Eng. Bot. 1900.
On Simonside, Cheviot, and in East Common Wood near Hexham, N. By Feldon and Winlaton Bourns, D. By Nuckton and Beldon Bourns, N. and D.

36. FUNARIA.

1. *F. hygrometrica*.
Hook. and Tay. Musc. 121; Gr. Fl. Eds. 247; Berwick Flora, ii. 39; *Bryum hygrometricum*, Eng. Bot. 342.
On walls and hedge banks, but most frequent on old pit heaps and coal ashes.
This moss is abundant on the lava of Vesuvius.
2. *F. Muhlenbergii*.
Hook. and Tay. Musc. 122; Eng. Bot. 1498; Arn. Disp. Musc. 42.
Near Darlington, D.—Mr. Backhouse.

37. ORTHOTRICHUM.

1. *O. cupulatum*.
Hook. and Tay. Musc. 125; Gr. Fl. Eds. 248; Berwick Flora, ii. 40; *O. anomalum*, Eng. Bot. 1423; *O. nudum*, Eng. Bot. 1325.
On rocks in the river Wear near Chester-le-Street New Bridge, and in Waskerley Bourn near Wolsingham, D. In rivulets near Berwick.—Dr. G. Johnston.
2. *O. anomalum*.
Hook. and Tay. Musc. 126; Gr. Fl. Eds. 247; Arn. Disp. Musc. 13; Berwick Flora, ii. 40; Eng. Bot. 2696; *Bryum striatum* β , Dill. Musc. t. 55, f. 9.
On rocks at Cleadon and Boldon, and on walls at Saltwellside, D. Near Berwick.—Dr. G. Johnston. At Penpugh, N.—Mr. John Thompson.
3. *O. Drummondii*.
Hook. and Tay. Musc. 126; Supp. t. 4; Gr. Crypt. Fl. t. 115; Berwick Flora, ii. 40.
Upon Alder trees on the banks of Wooler Water below Langley Ford, N.—Dr. G. Johnston.
4. *O. affine*.
Hook. and Tay. Musc. 127; Eng. Bot. 1323; Berwick Flora, ii. 41; Gr. Fl. Eds. 248.
 β *O. punctatum*, Eng. Bot. 2168; Turner, Musc. 98.
On trees, not uncommon. Near Berwick.—Dr. G. Johnston.
5. *O. rupeicola*.
Hook. and Tay. Musc. 127; Gr. Fl. Eds. 248; Berwick Flora, ii. 41.

- On Limestone rocks at Carham and Wark on the Tweed, N. On rocks at Easington House below Belford, N.—Dr. G. Johnston.
6. *O. diaphanum*.
Hook. and Tay. Musc. 128; Eng. Bot. 1324; Gr. Fl. Eds. 249; *O. aristatum*, Turner, Musc. t. 9, f. 2; Fl. Brit. 1265.
On trees at Painsier, Hollinside, Cawsey, and Lamesley, and at East Morton, D. Near Gosforth and Fenham, N.
7. *O. rivulare*.
Hook. and Tay. Musc. 128; Eng. Bot. 2188; Turner, Musc. 96, t. 8.
On stones in Cawsey Bourn, and in the Wear at Chester-le-Street New Bridge, D.
8. *O. striatum*.
Hook. and Tay. Musc. 128; Eng. Bot. 2187; Gr. Fl. Eds. 250; Berwick Flora, ii. 42.
On trees, frequent.
9. *O. crispum*.
Hook. and Tay. Musc. 133; Eng. Bot. 996; Gr. Fl. Eds. 248; Berwick Flora, ii. 41.
On trees, common.
10. *O. Hutchinsiae*.
Hook. and Tay. 131; Eng. Bot. 2523; Arn. Disp. Musc. 18.
On trees in Teesdale near Cronkley Fell, D.—W. C. Trevelyan, Esq.
11. *O. pulchellum*.
Hook. and Tay. Musc. 134; Eng. Bot. 1787; Gr. Fl. Eds. 249; Berwick Flora, ii. 41.
On trees in Cawsey Wood, January, 1801, and at Gibside, Allansford, and Hamsterley, 1802, D. Behind Fenham, on Newcastle Town Moor, N., 1803. In Longridge Dene near Berwick.—Dr. G. Johnston. Near Crowhall, N.—Mr. J. Thompson.

38. NECKERA.

1. *N. crispa*.
Hook. and Tay. Musc. 136; Gr. Fl. Eds. 251; Turner, Musc. 101; *Hypnum crispum*, Eng. Bot. 617.
In Cawsey, Painsier, Friarside, and Gibside Woods, in Castle Eden Dene, and woods above Derwent Bridge, also in Weardale, D. In woods on the banks of Irthing near Wardrew, and at the foot of Cheviot, N. On the banks of Fallowlees Bourn, N.—W. C. Trevelyan, Esq.

39. ANOMODON.

1. *A. curtispiculum*.
Hook. and Tay. Musc. 137; Gr. Fl. Eds. 250; *Neckera curtispicula*, Eng. Bot. 1444.
On trees on Waskerley Bourn, on Muggleswick Park wall, on the banks of the Derwent near Allansford and on trees in Howns Wood near Lancaister, D. On the south bank of the Derwent near Crook Oak, D.—Mr. J. Thornhill.
2. *A. viticulosum*.
Hook. and Tay. Musc. 138; Gr. Fl. Eds. 250; Berwick Flora, ii. 35; *Neckera viticulosa*, Turner, Musc. 103; *Hypnum viticulosum*, Eng. Bot. 265.
In woods and on Limestone rocks in the denes on the coast, N. and D., but seldom in fructification. On rocks in Humbleton Dene above Wooler, N.—Dr. G. Johnston.

40. DALTONIA.

1. *D. heteromalla*,
Hook. and Tay. Musc. 139; Arn. Disp. Musc. 55;
Neckera heteromalla, Eng. Bot. 1180.
On trees near Kibblesworth, D. Near Wardrew,
N.

41. FONTINALIS.

1. *F. antipyretica*.
Hook. and Tay. Musc. 140; Eng. Bot. 859; Gr.
Fl. Eds. 251; Berwick Flora, ii. 35.
In the Tweed near Carham, Wark, and Norham, N.
In rivers and brooks, N. and D., not very common.
2. *F. squamosa*.
Hook. and Tay. Musc. 141; Eng. Bot. 1861;
Gr. Fl. Eds. 251; Turner, Musc. 199.
In the river Wear near Lumley Castle, and in the
Tees above Middletoe, D. In Wooler Water,
N.

42. BARTRAMIA.

1. *B. pomiformis*.
Hook. and Tay. Musc. 144; Eng. Bot. 998; Gr.
Fl. Scot. 252.
β major, Hook. and Tay. Musc. 145; Berwick
Flora, ii. 35; *B. crispata*, Eng. Bot. 1526; Swartz,
Musc. 73; Ann. of Bot. i. 527.
α On hedge banks near Gateshead, Ravensworth,
Gibside, and Busty Bank, D. Near Hexham, N.
β on rocks at Shewing Shields, on Cheviot, and
above Blanchland, also in Allendale and in the
Roman Foss at Walwick, N. On the banks of Fal-
lowlees Bourn, and on Cottingham Hope, Reeds-
dale, N.—W. C. Trevelyan, Esq. Near Burn
House Coan Wood, N.—Mr. J. Thompson. On
Redwell Hills near Pontop Pike, and in Waskerley
and Feldon Denes, D. Near Edmond Byers, D.
—Mr. J. Thornhill.
β Occurs in subalpine situations; *α* in the lower part
of the country.
2. *B. ithyphylla*.
Hook. and Tay. Musc. 145; Eng. Bot. 1710;
Arn. Disp. Musc. 40.
On Cheviot, and in Allendale and Teesdale, also on
a wall at Eal's Bridge near Blanchland, N. Near
Edmondhyers, and at Healey Field, also near Caul-
dron Snout, D. On banks near Crowhall, N.—Mr.
Jno. Thompson.
This is *Bartramia pomiformis*, of Swartz, Musc. 73;
according to specimens from the author.
3. *B. gracilis*.
Hook. and Tay. Musc. 146; Eng. Bot. 1826;
Arn. Disp. Musc. 40; *B. Aediri*, Schw. Supp.
49, t. 59.
By Irehope Bourn, Weardale, D.—W. C. Trevelyan,
Esq.
4. *B. fontana*.
Hook. and Tay. Musc. 146; Gr. Fl. Eds. 252;
Berwick Flora, ii. 36; *Bryum fontanum*, Eng.
Bot. 390.
In wet places and bogs, frequent.
5. *B. arcuata*.
Hook. and Tay. Musc. 148; Gr. Fl. Eds. 253;
Berwick Flora, ii. 36; Eng. Bot. 1237; Turn-
ner, Musc. 109; *Mnium arcuatatum*, Dick. Crypt.
Fasc. iii. 2, t. 7, f. 3.
In woods at the foot of Cheviot and Hedgehope, N.
On moors near Feldon Lead Mill, D.

43. HOOKERIA.

1. *H. lucens*.
Hook. and Tay. Musc. 149; Gr. Fl. Eds. 253;
Berwick Flora, ii. 35; Eng. Bot. 1902; *Hyp-
num lucens*, Fl. Brit. 1295; Turner, Musc. 155.
In woods near Newcastle, not rare. In Scotswood
and Heaton Denes, N. In Cawsey, Gibside, and
Ravensworth Woods, D. On rocks at Hudshead
and other places near Berwick.—Dr. G. Johnston.

44. HYPNUM.

1. *H. trichomanoides*.
Hook. and Tay. Musc. 152; Eng. Bot. 1493;
Gr. Fl. Eds. 253.
In woods, not rare.
2. *H. complanatum*.
Hook. and Tay. Musc. 152; Eng. Bot. 1492;
Gr. Fl. Eds. 253; Berwick Flora, ii. 34.
On trees in woods, frequent.
3. *H. riparium*.
Hook. and Tay. Musc. 152; Eng. Bot. 2060;
Gr. Fl. Eds. 254.
In the water course of Derwent Coat Forge, D. At
Prestwick Carr, N.
4. *H. undulatum*.
Hook. and Tay. Musc. 153; Eng. Bot. 1181;
Gr. Fl. Eds. 254; Berwick Flora, ii. 34.
In every wood near Newcastle, N. and D. On Che-
viot and the adjoining hills, N.—Dr. G. Johnston.
5. *H. denticulatum*.
Hook. and Tay. Musc. 153; Eng. Bot. 1260;
Gr. Fl. Eds. 254; Berwick Flora, ii. 34; *H.
Donianum*, Eng. Bot. 1446.
In woods and on hedge banks, frequent.
6. *H. medium*.
Hook. and Tay. Musc. 154; Eng. Bot. 1274;
Arn. Disp. Musc. 67; *H. imundatum*, Eng. Bot.
1922.
On trees near Cleadon, Boldon, and Cocken, D. At
Beaufront near Hexham, N.
7. *H. tenellum*.
Hook. and Tay. Musc. 155; Eng. Bot. 1859;
Gr. Fl. Eds. 254.
On rocks in Cawsey Wood, D.
8. *H. serpens*.
Hook. and Tay. Musc. 155; Eng. Bot. 1037;
Gr. Fl. Eds. 255; Berwick Flora, ii. 26.
In every wood near Newcastle.
9. *H. populeum*.
Hook. and Tay. Musc. 157; Gr. Fl. Eds. 255;
Berwick Flora, ii. 26; *H. implexum*, Eng. Bot.
1584; Turner, Musc. 173, t. 16.
On stones in fields near Gateshead, and in Urpeth,
Beamish, and Ravensworth Woods, also in Was-
kerley and Cawsey Denes, D. In Scotswood,
Horsley, and Jesmond Denes, and in Dilston Park,
N. Near Berwick.—Dr. G. Johnston.
10. *H. Schreberi*.
Hook. and Tay. Musc. 159; Eng. Bot. 1621
Gr. Fl. Eds. 255; Berwick Flora, ii. 28.
In Cawsey Wood, D. On Newcastle Town Moor
also near Blanchland, N. Near Berwick.—Dr.
G. Johnston.
- H. stramineum*.
Hook. and Tay. Musc. 160; Eng. Bot. 2465;
Arn. Disp. Musc. 60.
In bogs near Muggleswick, D., but not in fructification.

12. *H. murale*.
Hook. and Tay. Musc. 161; Turner, Musc. 166;
H. confertum, Eng. Bot. 1038; *H. abbreviatum*,
Hedw. Musc. t. 65, f. 1; Northumberland and
Durham Guide, i. 113, and Addenda, 24.
On walls near Bywell, and in Walbottle Dene, N.
On Gateshead Fell, and on stones in a rivulet near
Ravensworth, also at Spring Houses near Muggles-
wick, on the banks of Tyne near the Redheugh, at
Painsher, and in Dalton Dene, D.
13. *H. purum*.
Hook. and Tay. Musc. 162; Eng. Bot. 1599;
Gr. Fl. Eds. 255; Berwick Flora, ii. 28; *H.*
ilicebrum, Eng. Bot. 2189; Dill. Musc. t. 40, f.
45.
In woods and on shady banks, everywhere.
14. *H. plumosum*.
Hook. and Tay. Musc. 162; Eng. Bot. 2071;
Gr. Fl. Eds. 256; Berwick Flora, ii. 26;
Turner, Musc. 172, t. 15, f. 1; *H. alpinum*,
Eng. Bot. 1496; Turner, Musc. 192.
On stones in Pont Bourn and the Derwent above
Blanchland, also in Cawsey Wood and near Der-
went Coat, D. In the bourn in Heaton and
Scotswood Denes, also in Oakwood and Dilston
Park, D. Near Berwick.—Dr. G. Johnston.
15. *H. polyanthos*.
Hook. and Tay. Musc. 164; Arn. Disp. Musc.
69; Berwick Flora, ii. 27; *Leskea polyantha*, Gr.
Crypt. t. 151.
On apple, and at the foot of hawthorn trees near
Darlington.—Mr. Backhouse. In the dene above
Twizell Castle Bridge, N.—Rev. A. Baird. Near
Croft, D.—Rev. James Dalton.
16. *H. sericeum*.
Hook. and Tay. Musc. 165; Gr. Fl. Eds. 256;
Eng. Bot. 1445; Arn. Disp. Musc. 64; Ber-
wick Flora, ii. 27.
On rocks, stone walls, and the trunks of trees, but not
very common, N. and D. Near Wallington, N.—
W. C. Trevelyan, Esq. About Berwick.—Dr. G.
Johnston.
17. *H. salebrosum*.
Hook. and Tay. Musc. 166; Gr. Crypt. t. 184.
In boggy places in Ravensworth, Cawsey, and Bea-
mish Woods, D.
18. *H. lutescens*.
Hook. and Tay. Musc. 166; Eng. Bot. 1301;
Gr. Fl. Eds. 257; Berwick Flora, ii. 27.
On Boldon and Cleadon Hills, and at Painsher, D.
Near Berwick.—Dr. G. Johnston.
19. *H. nitens*.
Hook. and Tay. Musc. 176; Eng. Bot. 1646;
Sm. Fl. Brit. iii. 1316; Berwick Flora, ii.
28.
In bogs on the Wolsingham Moors, D., but not in
fruit. In Haiden Dene, near Berwick.—Dr. G.
Johnston.
20. *H. albicans*.
Hook. and Tay. Musc. 167; Eng. Bot. 1300;
Gr. Fl. Eds. 257; Berwick Flora, ii. 28.
On Gateshead Fell, D. On Holy Island, N. On
Spittle and Scremmerton Links, N.—Dr. G.
Johnston.
21. *H. alopecurum*.
Hook. and Tay. Musc. 168; Eng. Bot. 1182;
Gr. Fl. Eds. 258; Berwick Flora, ii. 30.
In woods on the banks of the Irthing near Wardrew,
in Dilston Park and East Common Wood, also at
the foot of Cheviot, N. On Allen Banks, N.
—Mr. Jno. Thompson. In Cawsey Dene and
most of the woods in the west of the county of
Durham.
22. *H. dendroides*.
Hook. and Tay. Musc. 168; Eng. Bot. 1565;
Gr. Fl. Eds. 258; Berwick Flora, ii. 30.
In woods near Lamesley, and at Cawsey Wood, also
near the Redheugh, D. At the foot of Cheviot
and Hedgehope, in East Common Wood, Teckett
Wood, and in the vicinity of Gilsland, N. Near
Berwick.—Dr. G. Johnston. Near Crowhall, N.
—Mr. Jno. Thompson.
23. *H. curvatum*.
Hook. and Tay. Musc. 169; Eng. Bot. 1566;
Gr. Fl. Eds. 258; Berwick Flora, ii. 30.
On trees, not rare. Near Berwick.—Dr. G. John-
ston.
24. *H. myosuroides*.
Hook. and Tay. Musc. 169; Eng. Bot. 1567;
Gr. Fl. Eds. 258; Berwick Flora, ii. 30.
In Cawsey, Beamish, and Ravensworth Woods, D.
In Dilston Park, East Common Wood, and at the
foot of Cheviot, N. In the neighbourhood of Ber-
wick.—Dr. G. Johnston. On the banks of Fal-
lowlees Bourn, N.—W. C. Trevelyan, Esq.
25. *H. splendens*.
Hook. and Tay. Musc. 170; Eng. Bot. 1424;
Gr. Fl. Eds. 259; Berwick Flora, ii. 28.
In woods and on moors, frequent.
26. *H. proliferum*.
Hook. and Tay. Musc. 170; Eng. Bot. 1494;
Gr. Fl. Eds. 259; Berwick Flora, ii. 29.
In woods, common.
27. *H. praelongum*.
Hook. and Tay. Musc. 172; Eng. Bot. 2035;
Gr. Fl. Eds. 259; Berwick Flora, ii. 29; *H.*
Stokesii, Eng. Bot. 2036.
In woods, frequent.
28. *H. flagellare*.
Hook. and Tay. Musc. 174; Arn. Disp. Musc.
64; *H. umbratum*, Eng. Bot. 2565; Turner,
Musc. 158.
On dripping rocks near the upper end of Waskerley
Dene near Wolsingham, D.
29. *H. abietinum*.
Hook. and Tay. Musc. 174; Eng. Bot. 2037;
Arn. Disp. Musc. 64; Turner, Musc. 162.
On the Magnesian Limestone at Boldon, Cleadon,
and Ryhope, D., but never in fructification.
30. *H. piliferum*.
Hook. and Tay. Musc. 175; Eng. Bot. 1516;
Gr. Fl. Eds. 259.
Near Painsher, D. In East Common Wood near
Hexham, N.
31. *H. rutabulum*.
Hook. and Tay. Musc. 176; Gr. Fl. Eds. 260;
Berwick Flora, ii. 29; *H. crenulatum*, North-
umberland and Durham Guide, 108, No. 997;
Eng. Bot. 1261; *H. brevirostre*, Eng. Bot. 1647.
On trees and stone walls, common.
H. crenulatum is a woodland variety, and from that
circumstance owes its peculiar habit.
32. *H. velutinum*.
Hook. and Tay. Musc. 177; Gr. Fl. Eds. 260;
Eng. Bot. 1568; Berwick Flora, ii. 29; *H.*

- intricatum*, Eng. Bot. 2421; *H. Teesdalii*, Dicks. Crypt. Fasc. iv. 16; Eng. Bot. 203.
In woods and on hedge banks, not rare.
33. *H. ruscifolium*.
Hook. and Tay. Musc. 177; Eng. Bot. 1275;
Gr. Fl. Eds. 260; Berwick Flora, ii. 30.
In rivulets and pools of water, not rare.
34. *H. striatum*.
Hook. and Tay. Musc. 178; Eng. Bot. 1648;
Gr. Fl. Eds. 261; Berwick Flora, ii. 29.
In woods, denes, and on hedge banks, frequent.
35. *H. confertum*.
Hook. and Tay. Musc. 178; Gr. Fl. Eds. 261;
Eng. Bot. 2407; Berwick Flora, ii. 30; *H. serrulatum*, Eng. Bot. 1262.
On walls near Urpeth, and trees in Cawsey Wood, also on Gateshead Fell, and at Spring Houses near Muggleswick, D. In Heaton Wood, Oak Wood, and Dilston Park, N.
36. *H. cuspidatum*.
Hook. and Tay. Musc. 178; Eng. Bot. 2407;
Gr. Fl. Eds. 261; Turner, Musc. 177; Berwick Flora, ii. 28.
In bogs, common.
37. *H. cordifolium*.
Hook. and Tay. Musc. 179; Eng. Bot. 1447;
Gr. Fl. Eds. 261; Arn. Disp. Musc. 66.
In fruit in old pit holes, on Newcastle Town Moor, also on the Muckle Moss, and at Prestwick Carr, N. In bogs on moors near Blanchland, and at the source of Horsley Hope Bourn, also near the Smelt Mill Forge at Team, D. Near Crowhall Mill, N.—Mr. J. Thompson.
38. *H. polymorphum*.
Hook. and Tay. Musc. 179; Eng. Bot. t. 2671;
H. chrysophyllum, Bridel. Musc. ii. 2, f. 2;
Hedw. Musc. 66; Northumberland and Durham Guide, i. 113, and Addenda, 24.
In fallow fields near Medomsley and Lanchester, also near Lamesley, and Ravensworth, D.
The specimen figured in Eng. Bot. grew near Lanchester.
39. *H. stellatum*.
Hook. and Tay. Musc. 180; Eng. Bot. 1302;
Gr. Fl. Eds. 262; Berwick Flora, ii. 31.
In bogs near Feldon Lead Mill, and on Ravensworth Fell, D. At Prestwick Carr, and on moors beyond Blanchland, N. Near Berwick.—Dr. G. Johnston.
40. *H. loricum*.
Hook. and Tay. Musc. 181; Eng. Bot. 2072;
Gr. Fl. Eds. 262; Berwick Flora, ii. 31.
In woods, common.
41. *H. triquetrum*.
Hook. and Tay. Musc. 182; Eng. Bot. 1622;
Gr. Fl. Eds. 262; Berwick Flora, ii. 31.
In woods, abundant.
42. *H. squarrosum*.
Hook. and Tay. Musc. 182; Eng. Bot. 1593;
Gr. Fl. Eds. 262.
In woods, and on moors, abundant.
43. *H. filicinum*.
Hook. and Tay. Musc. 183; Eng. Bot. 1570;
Gr. Fl. Eds. 263; Berwick Flora, ii. 32.
On bogs and by rivulets.
44. *H. polustre*.
Hook. and Tay. Musc. 185; Eng. Bot. 1655;
Gr. Fl. Eds. 263; Berwick Flora, ii. 33;
VOL II.
- H. luridum*, Hedw. St. Cr. iv. t. 33; *H. fluviatile*, Eng. Bot. 1303; Turner, Musc. 192; *H. adnatum*, Turner, Musc. 165; Eng. Bot. 2406.
In the river Derwent, in Pont, Waskerley, and Cawsey Bourns, also on the moor at Sunnyside near Whickham, D. In the De'il's Water in Dilston Park and in the Irthing at Gilsland, N.
45. *H. fluitans*.
Hook. and Tay. Musc. 185; Eng. Bot. 1448;
Gr. Fl. Eds. 263; Berwick Flora, ii. 33.
In fruit in old pit holes, on Newcastle Town Moor, in East Common Wood, and Dilston Park, on the Muckle Moss, and at Prestwick Carr, N. In ponds on Gateshead Fell, and on the moor at Sunnyside near Whickham, D.
46. *H. aduncum*.
 α *revolvens*, Hook. and Tay. Musc. 186; Gr. Fl. Eds. 263; Berwick Flora, ii. 33; *H. revolvens*, Eng. Bot. 2073; Swartz, Musc. t. 7, f. 14; Northumberland and Durham Guide, 111, No. 1034.
 β *H. rugosum*, Eng. Bot. 2250; Dicks. Crypt. Fasc. ii. 12; Northumberland and Durham Guide, 111.
 γ On the heathy part of Prestwick Carr, on moors near Blanchland and Wardrew, N. In the Black Syke near Spring Houses, also on the Teesdale Moors, and near Feldon Lead Mill, D. Near Berwick.—Dr. G. Johnston. β at Prestwick Carr, and by Roadley Lake, N. On the south bank of Derwent near Crook-oak, D.
In uniting these species I have followed Dr. Hooker, but the great difference of size between *H. revolvens* and *H. rugosum*, even when growing close together, makes me suspect that they will, after all, prove distinct species. *H. aduncum* of Swartz has extremely fine leaves, and is unlike any British moss which has come under my observation.
47. *H. uncinatum*.
Hook. and Tay. Musc. 187; Eng. Bot. 1600;
Gr. Fl. Eds. 264; Berwick Flora, ii. 33; Turner, Musc. 190.
In bogs near Blanchland, Wardrew, and in East Common Wood, N. On Gateshead Fell, and in Cawsey and Friarside Woods, also near Hilton Castle, D. Near Berwick.—Dr. G. Johnston.
48. *H. commutatum*.
Hook. and Tay. Musc. 188; Eng. Bot. 1569;
Gr. Fl. Eds. 264; Berwick Flora, ii. 32.
In Heaton Dene, on bogs near Blanchland, and by the Irthing at Wardrew, also on the moors near Wallington, N. In Castle Eden Dene, on Ravensworth Fell and the Teesdale Moors, D. Near Berwick.—Dr. G. Johnston.
This moss usually occurs in springs whose waters are impregnated with lime.
49. *H. scorpioides*.
Hook. and Tay. Musc. 188; Eng. Bot. 1039; (*bad*); Gr. Fl. Eds. 264; Turner, Musc. 187; Berwick Flora, ii. 31.
On the heath at Prestwick Carr, N.
50. *H. silesianum*.
Hook. and Tay. Musc. 189; Eng. Bot. 2016;
Arn. Disp. Musc. 68.
On the high ground at the head of Waskerley Bourn, D., rare.
51. *H. cupressiforme*.
 α *vulgare*, Hook. and Tay. Musc. 189; Eng. Bot.

- 1860; Berwick Flora, ii. 31; Gr. Fl. Eds. 265; *H. nigro-viride*, Dick. Crypt. Fasc. iv. 18; Northumberland and Durham Guide, 108; β *compressum*, Dill. Musc. t. 36, f. 22; γ *tenue*, *H. polyanthos*, Eng. Bot. 1664; Turner, Musc. 137.
 α On trees, everywhere; β in woods; γ always on trees. Variety *nigro viride* on rocks in Cawsey Wood, D.
52. *H. molluscum*.
 Hook. and Tay. Musc. 181; Eng. Bot. 1327; Gr. Fl. Eds. 265; Turner, Musc. 198; Berwick Flora, ii. 32.
 On moors, frequent, N. and D. Near Berwick.—Dr. G. Johnston.
45. BRYUM.
1. *B. androgynum*.
 Hook. and Tay. Musc. 193; Turner, Musc. 113; *Mnium androgynum*, Eng. Bot. 1328.
 At Prestwick Carr, and on the Muckle Moss, N. In Cawsey Wood and near Tanfield, also in Waskerley Dene, D. In Twizell Dene, N.—Dr. G. Johnston.
2. *B. palustre*.
 Hook. and Tay. Musc. 193; Eng. Bot. 391; Berwick Flora, ii. 38; Gr. Fl. Eds. 265; *Mnium palustre*, Fl. Brit. 1346.
 On bogs, frequent.
3. *B. trichodes*.
 Hook. and Tay. Musc. 195; Eng. Bot. 1517; Arn. Disp. Musc. 43.
 In bogs on Holliwell Moss, and the Muckle Moss, N. Near Feldon Lead Mill, and by Nuckton Bourn, D.
4. *B. dealbatum*.
 Hook. and Tay. Musc. 196; Eng. Bot. 1571; Gr. Fl. Eds. 266; Turner, Musc. 115.
 On the banks of Nuckton and Feldon Bourns, D. Of Beldon Bourn, and on the Muckle Moss, N.
5. *B. pyriforme*.
 Hook. and Tay. Musc. 196; Arn. Disp. Musc. 45; Gr. Fl. Eds. 266; *B. aureum*, Eng. Bot. 389.
 In Mr. Falla's nursery grounds, Gateshead, D.
6. *B. crudum*.
 Hook. and Tay. Musc. 198; Eng. Bot. 1604; Gr. Fl. Eds. 266.
 On the banks of Nuckton Bourn, D.
7. *B. carneum*.
 Hook. and Tay. Musc. 198; Eng. Bot. 360; Gr. Fl. Eds. 267; Berwick Flora, ii. 37.
 On boggy ground near the Red Heugh, and on Gateshead Fell, also near Sunderland, D. Near Dilston and Hexham, N. Near Berwick.—Dr. G. Johnston.
8. *B. argenteum*.
 Hook. and Tay. Musc. 199; Eng. Bot. 1602; Gr. Fl. Eds. 267; Berwick Flora, ii. 37.
 On walls, hedge banks, &c., common.
9. *B. Zierii*.
 Hook. and Tay. Musc. 199; Eng. Bot. 1021; Gr. Fl. Eds. 267; Arn. Disp. Musc. 45; Turner, Musc. 123.
 Near the Cauldron Snout, D.—W. C. Trevelyan, Esq.
10. *B. roseum*.
 Hook. and Tay. Musc. 200; Eng. Bot. 2395; Gr. Fl. Eds. 267; Turner, Musc. 132; Berwick Flora, ii. 39.
 In Ravensworth and Cawsey Woods, also near Darlington, D. In Scotswood and Walbottle Denes, and at the foot of Cheviot, N. In Twizell Dene, and at Hudshead, N.—Dr. G. Johnston.
 I never met with this moss in fructification.
11. *B. capillare*.
 Hook. and Tay. Musc. 200; Eng. Bot. 2007; Berwick Flora, ii. 37; Gr. Fl. Eds. 267; *B. annotinum*, Eng. Bot. 1862.
 In woods and on boggy ground near the Red Heugh, also near Darlington, D. At Blanchland, Gilsland, in Dilston Park, and at Prestwick Carr, N.
12. *B. caespitium*.
 Hook. and Tay. Musc. α 201; Eng. Bot. 1904; Berwick Flora, ii. 37; Gr. Fl. Eds. 268; β *B. bicolor*, Eng. Bot. 1601; Dick. Crypt. Fasc. iv. 16; Turner, Musc. 11, f. 2.
 α On walls and the roofs of houses, &c., everywhere.
 β on Gateshead Fell, Ravensworth Fell, and near Medomsley, also near Healy Field, D. Near Allansford, at Prestwick Carr, and Corbridge, N.
 The minute green filaments, so common on damp walls, garden posts, &c., and figured at t. 77 of Dillwyn's work, as *Conferva velutina*, are now considered to be the radicles of this moss.
13. *B. turbinatum*.
 Hook. and Tay. Musc. 202; Eng. Bot. 1572; Gr. Fl. Eds. 268; Berwick Flora, ii. 37; *B. nigricans*, Eng. Bot. 1528; *B. interruptum*, Eng. Bot. 2371.
 In bogs near the Red Heugh, and on the banks of Feldon and Nuckton Bourns, also on Gateshead Fell, Beamish Moor, and in Cawsey and Ravensworth woods, D. At Prestwick Carr, and in Scotswood, also on the banks of Beldon Bourn, on the Muckle Moss, and near Wardrew, N. Near Berwick.—Dr. G. Johnston.
14. *B. nutans*.
 Hook. and Tay. Musc. 203; Eng. Bot. 1240; Gr. Fl. Eds. 268; Turner, Musc. 117; Berwick Flora, ii. 29; *B. compactum*, Eng. Bot. 1257.
 At Prestwick Carr, and on Newcastle Town Moor, in Dilston Park, on the Muckle Moss, and near Wardrew, N. At the Red Heugh, Beamish, and Cawsey, also in Weardale and Teesdale, D.
15. *B. ventricosum*.
 Hook. and Tay. Musc. 205; Eng. Bot. 2270; Gr. Fl. Eds. 268; Berwick Flora, ii. 38; *B. binum*, Eng. Bot. 1518; *B. cubitale*, Eng. Bot. 2554.
 In bogs near the Red Heugh and on Ravensworth Fell, Beamish Moor, in Weardale and Teesdale, D. At the Muckle Moss, on Wallington Moors, Holliwell Moss, Prestwick Carr, and near Gilsland, N. Near Burn House in Coan Wood, N.—Mr. J. Thompson.
16. *B. punctatum*.
 Hook. and Tay. Musc. 207; Eng. Bot. 1183; Gr. Fl. Eds. 269; Berwick Flora, ii. 38; Turner, Musc. 132.
 In shady woods and damp denes, not rare. Near Berwick.—Dr. G. Johnston.
17. *B. ligulatum*.
 Hook. and Tay. Musc. 207; Eng. Bot. 1449; Berwick Flora, ii. 39; Gr. Fl. Eds. 269; B.

- undulatum*, Turner, Musc. 133.
In woods, frequent.
18. *B. rostratum*.
Hook. and Tay. Musc. 208; Eng. Bot. 1475;
Gr. Fl. Eds. 269; Berwick Flora, ii. 38.
In Waskerley Dene near Wolsingham, D. Near
Wallington, N.—W. C. Trevelyan, Esq. Near
Berwick.—Dr. G. Johnston.
19. *B. marginatum*.
Hook. and Tay. Musc. 208; Dicks. Crypt. Fasc.
2, t. 5, f. 1; Eng. Bot. 1493; Arn. Disp. Musc.
44.
Near the High Force of Tees, and at Winch Bridge
in the same Neighbourhood, D.
20. *B. hornum*.
Hook. and Tay. Musc. 209; Eng. Bot. 2271;
Gr. Fl. Eds. 270; Berwick Flora, ii. 39.
In woods, common.
21. *B. cuspidatum*.
Hook. and Tay. Musc. 209; Eng. Bot. 1474;
Gr. Fl. Eds. 270; Berwick Flora, ii. 38.
In woods, not very rare, N. and D. In Castle Eden
Dene, and at Cocken, D.

46. ANDRÆA.

1. *A. alpina*.
Hook. and Tay. Musc. 2; Eng. Bot. 1278; Arn.
Disp. Musc. 6.
Upon rocks, on the moors at the head of Derwent,
between Nuckton and Beldon Bourns, N. and D.
2. *A. rupestris*.
Hook. and Tay. Musc. 2; Eng. Bot. 1277; Ber-
wick Flora, ii. 56.
Upon rocks on the Teesdale Moors, D. On Cheviot,
N. On the summit of Hedgehope, N.—Dr. G.
Johnston.
3. *A. Rothii*.
Hook. and Tay. Musc. 2; Eng. Bot. 2162; Arn.
Disp. Musc. 6; *A. rupestris*, Sm. Fl. Brit. 1178.
On the Wolsingham Moors, D. On the Teesdale
Moors near the Cauldron Snout, D.—W. C. Tre-
velyan, Esq.

HEPATICÆ.

47. JUNGERMANNIA.

1. *J. trichophylla*.
Hook. and Tay. Musc. 226; Hook. Jung. t. 7;
Eng. Bot. 2252; Dill. Musc. t. 73, f. 37.
On heaths near Darlington.—Mr. E. Robson.
2. *J. asplenoides*.
Hook. and Tay. Musc. 227; Gr. Fl. Eds. 272;
Eng. Bot. 1788; Hook. Jung. t. 13; Berwick
Flora, ii. 62; Dill. Musc. t. 69, f. 5.
In every wood near Newcastle.
3. *J. lanceolata*.
Hook. and Tay. Musc. 228; Hook. Jung. t. 18;
Berwick Flora, ii. 63.
In dunes and woods near Newcastle, also at Prest-
wick Carr, and Gilsland, N. Near Berwick.—Dr.
G. Johnston.
4. *J. Sphagni*.
Hook. and Tay. Musc. 228; Eng. Bot. 2470;
Hook. Jung. t. 33, and Supp. t. 2; Gr. Fl. Eds.
273.
In boggy places on moors, N. and D.

5. *J. crenulata*.
Hook. and Tay. Musc. 229; Eng. Bot. 1463;
Hook. Jung. t. 37.
At the foot of Bolt's Law, on Muggleswick Fell, also
near Gilsland, and in Weardale and Teesdale, D.
On Cheviot, N.
6. *J. emarginata*.
Hook. and Tay. Musc. 229; Eng. Bot. 1022;
Hook. Jung. t. 27; Berwick Flora, ii. 63.
In Beldon Dene, and near Wardrew, also on Hedge-
hope and Cheviot, N. At the foot of Bolt's Law,
also in Weardale and Teesdale, D. On Gateshead
Fell, D.—Mr. J. Thornhill.
7. *J. concinnata*.
Hook. and Tay. Musc. 229; Eng. Bot. 2229;
Hook. Jung. t. 3.
On rocks in the upper part of Waskerley Dene, D.
At the Cauldron Snout, Teesdale, D.—W. C. Tre-
velyan, Esq.
8. *J. excisa*.
Hook. and Tay. Musc. 230; Eng. Bot. 2497;
Hook. Jung. t. 9; Berwick Flora, ii. 64.
In shady dunes and on wet heaths.
9. *J. ventricosa*.
Hook. and Tay. Musc. 230; Eng. Bot. 2568;
Hook. Jung. t. 28; Berwick Flora, ii. 63.
In woods, but not frequent.
10. *J. bicuspidata*.
Hook. and Tay. Musc. 230; Eng. Bot. 2239;
Hook. Jung. t. 11; Gr. Fl. Eds. 273; Berwick
Flora, ii. 64.
In woods near Newcastle, not rare.
11. *J. byssacea*.
Hook. and Tay. Musc. 230; Hook. Jung. t. 12;
Berwick Flora, ii. 65; *J. divaricata*, Eng. Bot.
719.
On dry open situations, on moors, N. and D.
12. *J. connivens*.
Hook. and Tay. Musc. 231; Eng. Bot. 2436;
Hook. Jung. t. 15; Gr. Fl. Eds. 274; Berwick
Flora, ii. 64.
In boggy places in Heaton Dene, N. Near the Red
Heugh near Gateshead, D.
13. *J. curvifolia*.
Hook. and Tay. Musc. 231; Eng. Bot. 1304;
Hook. Jung. t. 16; Dicks. Crypt. t. 5, f. 9.
On Teesdale Forest, D. On Cheviot, N.
14. *J. incisa*.
Hook. and Tay. Musc. 231; Hook. Jung. t. 10;
Eng. Bot. 2528; Gr. Fl. Eds. 274.
In bogs, not rare.
15. *J. pusilla*.
Hook. and Tay. Musc. 231; Hook. Jung. t. 69;
Eng. Bot. 1775; Berwick Flora, ii. 64.
In fields by the borders of woods, N. and D. Near
Berwick.—Dr. G. Johnston.
16. *J. nemorosa*.
Hook. and Tay. Musc. 232; Eng. Bot. 607 and
2437; Gr. Fl. Eds. 274; Hook. Jung. t. 21;
Berwick Flora, ii. 61.
On Gateshead Fell, D. In Scotswood Dene, N.
The alpine variety, in Gibside and Ravensworth
Woods, and Waskerley Dene, also in rivulets near
the Roman Aqueduct west of Woodlands, D. At
Birch Carr near Darlington, D.—Mr. E. Robson.
On the Wallington and Gilsland moors and Che-
viot, N.

17. *J. undulata*.
Hook. and Tay. Musc. 232; Eng. Bot. 2251;
Hook. Jung. t. 22; Berwick Flora, ii. 61; Gr.
Fl. Eds. 274; *J. purpurea*, Eng. Bot. 1023.
On Lanchester Moor, and at the foot of Bolt's Law,
also in Weardale and Teesdale, D. On Cheviot,
the Wallington moors, and at Gilsland, N.
18. *J. resupinata*.
Hook. and Tay. Musc. 232; Eng. Bot. 2498;
Hook. Jung. t. 23; Gr. Fl. Eds. 275.
In woods and denes, but not common.
19. *J. albicans*.
Hook. and Tay. Musc. 233; Eng. Bot. 2240;
Hook. Jung. t. 25; Gr. Fl. Eds. 275; Berwick
Flora, ii. 62.
In denes and woods, frequent. At Cottenhope in
Reedsdale, N.—W. C. Trevelyan, Esq. Near
Berwick.—Dr. G. Johnston.
20. *J. obtusifolia*.
Hook. and Tay. Musc. 233; Eng. Bot. 2511;
Hook. Jung. t. 26; Gr. Fl. Eds. 275.
On banks near Heddou-on-the-Wall, N.—Mr. J.
Thornhill.
21. *J. minuta*.
Hook. and Tay. Musc. 233; Hook. Jung. t. 44;
Eng. Bot. 2231.
Among moss on the high moors, N. and D.
22. *J. cochleariformis*.
Hook. and Tay. Musc. 234; Hook. Jung. t. 68;
Eng. Bot. 2500.
In Waskerley Dene, D.—W. C. Trevelyan, Esq.
23. *J. complanata*.
Hook. and Tay. Musc. 234; Eng. Bot. 2499;
Berwick Flora, ii. 62; Hook. Jung. t. 81; Gr.
Fl. Eds. 276; Dill. Musc. t. 72, f. 26.
On the bark of trees, not rare.
24. *J. scalaris*.
Hook. and Tay. Musc. 234; Hook. Jung. t. 61;
Gr. Fl. Eds. 276; *J. lanceolata*, Eng. Bot. 605;
Berwick Flora, ii. 61.
In woods and denes, N. and D.
25. *J. polyanthos*.
Hook. and Tay. Musc. 234; Hook. Jung. t. 62;
Eng. Bot. 2475; Gr. Fl. Eds. 276.
In Gilsland Woods, N. In woods near Darlington,
D.—Mr. E. Robson.
26. *J. viticulosa*.
Hook. and Tay. Musc. 235; Hook. Jung. t. 60;
Eng. Bot. 2513.
In Cocken woods, D. In East Common Wood, N.
27. *J. Trichomanis*.
Hook. and Tay. Musc. 235; Hook. Jung. t. 79;
Eng. Bot. 1875; Gr. Fl. Eds. 276; Berwick
Flora, ii. 60.
In moist places in woods, and on moors, N. and D.
On Murton Crag, N.—Dr. G. Johnston.
28. *J. bidentata*.
Hook. and Tay. Musc. 235; Eng. Bot. 606; Ber-
wick Flora, ii. 59; Gr. Fl. Eds. 277; Hook.
Jung. t. 30; *J. bicuspidata*, Eng. Bot. 281.
In woods near Newcastle, not rare.
29. *J. heterophylla*.
Hook. and Tay. Musc. 235; Hook. Jung. t. 31;
Berwick Flora, ii. 60.
In Cawsey and Beamish Woods, D. In woods at
Gilsland, N. In woods about Twizell, on the Tweed,
N.—Rev. A. Baird.
30. *J. barbata*.
Hook. and Tay. Musc. 236; Hook. Jung. t. 70;
Berwick Flora, ii. 60; Gr. Fl. Eds. 277; *J.*
quinquedentata, Eng. Bot. 2517.
In woods near Newcastle, N. On Murton Crag,
N.—Dr. G. Johnston. Near Darlington, D.
31. *J. reptans*.
Hook. and Tay. Musc. 236; Hook. Jung. t. 75;
Eng. Bot. 608; Gr. Fl. Eds. 277.
In woods, but not frequent.
32. *J. trilobata*.
Hook. and Tay. Musc. 236; Gr. Fl. Eds. 277;
Berwick Flora, ii. 59; Hook. Jung. t. 76; *J.*
radicans, Eng. Bot. 2232.
In Teesdale and Weardale, and on Muggleswick
Fell, D. On Wardrew Moors, N. On Murton
Crag, N.—Dr. G. Johnston.
33. *J. platyphylla*.
Hook. and Tay. Musc. 237; Eng. Bot. 789; Gr.
Fl. Eds. 278; Hook. Jung. t. 40, and Supp. t.
3; Berwick Flora, ii. 59.
On trees near Lanchester, Tanfield, and Darlington,
D. In East Common Wood near Hexham, Dil-
ston Park, and Gilsland Woods, N. Near Ber-
wick, N.—Dr. G. Johnston.
34. *J. ciliaris*.
Hook. and Tay. Musc. 237; Eng. Bot. 2241;
Hook. Jung. t. 65; Gr. Fl. Eds. 278.
On moors, not rare.
35. *J. tomentilla*.
Hook. and Tay. Musc. 237; Hook. Jung. t. 36;
Eng. Bot. 2242.
In Cawsey Wood near Allansford, and Witton-le-
Wear, D. In Gilsland Woods, N.
36. *J. minutissima*.
Hook. and Tay. Musc. 238; Hook. Jung. t. 52;
Eng. Bot. 1633.
In Heaton Wood, N.
37. *J. dilatata*.
Hook. and Tay. Musc. 239; Gr. Fl. Eds. 279;
Hook. Jung. t. 5; Berwick Flora, ii. 58; *J.*
amariscifolia, Eng. Bot. 1086.
On the trunks of trees, common.
38. *J. Tamarisci*.
Hook. and Tay. Musc. 239; Gr. Fl. Eds. 279;
Berwick Flora, ii. 58; Hook. Jung. t. 6; *J.*
amariscina, Eng. Bot. 2480.
In woods near Egglestone, D. At the foot of Cbe-
viot, and in Gilsland Woods, N. Near Berwick.
—Dr. G. Johnston.
39. *J. pinguis*.
Hook. and Tay. Musc. 240; Hook. Jung. t. 46;
Eng. Bot. 185; Gr. Fl. Eds. 270; Berwick
Flora, ii. 66.
On bogs and in watery places.
40. *J. multifida*.
Hook. and Tay. Musc. 240; Hook. Jung. t. 45;
Gr. Fl. Eds. 271; Berwick Flora, ii. 66; Eng.
Bot. 186; *J. sinuata*, Eng. Bot. 1476.
In marshy places near Ravensworth and the Red-
hough, D. Near Darlington, D.—Mr. E. Robson.
At Prestwick Carr, and in Dilston Park, also in
Benwell Dene, N.
41. *J. epiphylla*.
Hook. and Tay. Musc. 240; Hook. Jung. t. 47;

Eng. Bot. 771; Gr. Fl. Eds. 271; Berwick Flora, ii. 65.

In East Common Wood near Hexham, and in Heaton and Scotswood Denes, N. In Cawsey, Ravensworth, Longacre, and Gibside Woods, also near Darlington, D. Near Berwick.—Dr. G. Johnston.

42. *J. furcata*.

Hook. and Tay. Musc. 241; Hook. Jung. t. 55, 56; Eng. Bot. 1632; Gr. Fl. Eds. 271; Berwick Flora, ii. 66.

On the trunks of trees in woods, frequent.

43. *J. pubescens*.

Hook. and Tay. Musc. 241; Hook. Jung. t. 73; Berwick Flora, ii. 66.

On rocks in Cawsey Wood, D. Near Berwick.—Dr. G. Johnston.

48. MARCHANTIA.

1. *M. polymorpha*.

Hook. and Tay. Musc. 219; Eng. Bot. 110; Berwick Flora, ii. 67; Gr. Fl. Eds. 279; Dill. Musc. t. 76, f. 6, E. F.

In moist, wet, and shady situations, frequent.

2. *M. conica*.

Hook. and Tay. Musc. 221; Gr. Fl. Eds. 280; Eng. Bot. 504; Dill. Musc. t. 75, f. 1.

On rocks, in woods, and damp places, not rare

3. *M. hemispharica*.

Hook. and Tay. Musc. 222; Gr. Fl. Eds. 279; Eng. Bot. 503, and t. 2545, excluding the two lower figures; *Reboulia hemispharica*, Dill. Musc. t. 75, f. 2.

On moist rocks, in sub-alpine situations, N. and D. By the lighthouse at Wardre, N.

49. ANTHOCEROS.

1. *A. punctatus*.

Hook. and Tay. Musc. 216, Berwick Flora, ii. 67; *A. major*, Eng. Bot. ii. 1538; Dill. Musc. t. 68, f. 2.

In watery places at Little Chesters, N.—W. C. Trevelyan, Esq.

50. RICCIA.

1. *R. crystallina*, *α glauca*.

Hook. and Tay. Musc. 212; Berwick Flora, ii. 68; Eng. Bot. 2546; Gr. Fl. Eds. 280; *R. minima*, Dill. Musc. t. 78, f. 10, 11.

On the banks of fish ponds at Wallington, N.

2. *R. natans*.

Hook. and Tay. Musc. 214; Eng. Bot. 252; *R. capellata*, Dill. Musc. t. 78, f. 18.

At Hell-kettles near Darlington, D.—Mr. E. Robson, Sp.

LICHENES.

51. SPILOMA.

1. *S. tumidulum*.

Ach. Syn. 1; Eng. Bot. 2151; Gr. Fl. Scot. 324; Berwick Flora, ii. 101; *Lichen impositus*, Eng. Bot. 981? *Sphaeria gregaria*, Sowerby, Fungi. 375, f. 5; Dick. Crypt. Fasc. i. 22.

VOL. II.

On the smooth bark of trees in Teesdale, also near Gainford, and in Cawsey Wood, D. In Oakwood, N.

2. *S. microscopicum*.

Eng. Bot. 2396.

Upon heaths, mosses, &c.

3. *S. melanopum*.

Eng. Bot. 2358; Ach. Meth. 10, t. 1, f. 8.

On the bark of apple trees.

4. *S. murale*.

Eng. Bot. 2397.

On old mortar, common.

5. *S. dispersum*.

Eng. Bot. 2398.

On old rails, frequent.

6. *S. decolorans*.

Eng. Bot. 2399.

On the bark of old oak trees.

7. *S. punctatum*.

Eng. Bot. 2472.

On the bark of old oak trees.

8. *S. tuberculosum*.

Eng. Bot. 2556.

On Sandstone rocks, N. and D.—Mr. Wm. Robertson.

52. ARTHONIA.

1. *A. moriformis*.

Ach. Syn. 5.

On the bark of trees near Gainford, D.—Rev. John Harriman.

2. *A. astroides*.

Ach. Syn. 6; *Opegrapha astroides*, Eng. Bot. 1847; Hook. Fl. Scot. ii. 36.

β A. Swartziana, Ach. Syn. 5; Eng. Bot. 2079; Berwick Flora, ii. 101.

On the smooth bark of trees, not rare.

With the variety *β* I am acquainted by specimens communicated by Dr. Swartz. To me it appears to be only *A. astroides*, in a young state.

3. *A. obscura*.

Ach. Syn. 6; *Lichen obscurus*, Eng. Bot. 1752.

On the bark of trees, but not common.

4. *A. lyncea*.

Ach. Syn. 7; *Lichen lynceus*, Eng. Bot. 809; *Lecidea lyncea*, Northumberland and Durham Guide, ii. 35.

On old oaks in Newton-cap Wood near Auckland, also in the Bishop's park, D.

5. *A. prunosa*.

Ach. Syn. 7; *A. imposita*, Eng. Bot. 2692, f. 1.

On trunks of trees in Teesdale, D.

53. SOLORINA.

1. *S. saccata*.

Ach. Syn. 8; *Lichen saccatus*, 283; Lightfoot, 385; Dill. Musc. t. 30, f. 121.

On earth upon Eocene Limestone rocks near Middleton-in-Teesdale, D.

54. LECIDEA.

1. *L. atro-alba*.

Ach. Syn. 11; Berwick Flora, ii. 88; *Lichen atro-albus*, Eng. Bot. t. 2336; Gr. Fl. Eds. 324.

On Basaltic rocks near Eglestone, D. On Gannerton Crag, N.

Y

2. *L. verruculosa*.
Lichen verruculosus, Eng. Bot. 2317.
Upon fine-grained Sandstone on Muggleswick Fell, D.
3. *L. fusco-atra*.
Ach. Syn. 12; Gr. Fl. Eds. 324; *L. dendritica*, Northumberland and Durham Guide, ii. 33 and 112; *Lichen dendriticus* Eng. Bot. 1734.
On fragments of Quartz in the Millstone grit in Wear-dale and Teesdale, D. On Shaftoe Crags, N., upon the same kind of rock.
L. fusco-atra, *L. atro-alba*, *Lichen acrotellus*, Eng. Bot. 1712, and *L. fimbriatus*, Eng. Bot. 2438, are probably modifications of the same species. It grows very elegantly on the smooth rocks of white Quartz in the Highlands of Scotland.
4. *L. fumosa*.
Ach. Syn. 12; *L. cecumenus*, Ach. Meth. 42; *L. anthroocarpa*, Northumberland and Durham Guide, ii. 33; *Lichen anthroocarpus*, Eng. Bot. 1829; *L. cecumenus*, Eng. Bot. 1830.
On Sandstone in Charnberry Gill near Eglestone, and on rocks in Horsley Hope Dene, D. On Basalt upon Cronkley Fell, also on the fell above Holwick, Teesdale; first discovered by the Rev. John Harriman. On Cheviot and Hedgehope, N.
5. *L. lapicida*.
Ach. Syn. 13; *Lichen contiguus*, Eng. Bot. 821.
In Cawsey Dene, and on Gateshead Fell; also on walls at Barnardcastle, D. On Gunnerton Crags near Barweford, N.
6. *L. petraea*.
Ach. Syn. 15; Gr. Fl. Eds. 324; Berwick Flora, ii. 87; *Lichen concentricus*, Eng. Bot. 246.
On Sandstone rocks near Eglestone, and in the neighbourhood of Gainford, also in Cawsey Wood, D. On Gunnerton Crags near Barweford, and in Heaton Dene, N.
7. *L. confluent*.
Ach. Meth. 16; Berwick Flora, ii. 86; Eng. Bot. 1964.
L. pilularis.
On Sandstone rocks in lilly situations.
8. *L. parosema*.
Ach. Syn. 17; Gr. Fl. Eds. 325; Berwick Flora, ii. 87; *Lichen parosemus*, Eng. Bot. 1450.
On the bark of trees common.
9. *L. sanguinaria*.
Ach. Syn. 19; Berwick Flora, ii. 86; *Lichen sanguinarius*, Eng. Bot. 155.
On stones upon Gateshead Fell, and on stones, decayed mosses, and old trees, in the neighbourhood of Eglestone, D. On Hedgehope and Cheviot, N. On Murton Crags, N.—Dr. G. Johnston.
The circumstance on account of which the name *sanguinaria* is given, is a disease to which several Lichens are subject, and some that one would not certainly suspect; as, for instance, *Lecidea muscorum* and *Parmelia quadricolor*; and it is not confined to the Apothecia only, the whole inside of the crust is frequently diseased and becomes crimson.—Harriman.
10. *L. sabuletorum* β *geochroa*.
Ach. Syn. 20; *Lichen muscorum*, Eng. Bot. 626.
On decayed mosses at Fawdon Slate and near Hilton Castle, also in Teesdale Forest and Weardale, D. On Gunnerton Crags, Cheviot, and Hedgehope, N.
11. *L. miscella*.
Ach. Syn. 21; *Lichen miscellus*, Eng. Bot. 1831; *L. escharoides*, Eng. Bot. 1257.
On Basaltic rocks near Winch Bridge and Whey Syke, in Harewood, on Teesdale Forest, also in Horsley Hope Dene, D.
12. *L. atro-virens*, and β *geographica*.
Ach. Syn. 21; Gr. Fl. Eds. 325; Berwick Flora, ii. 88; *Lichen geographicus*, Eng. Bot. 245.
On rocks and stones especially in the sub-alpine parts of Durham and Northumberland.
13. *L. silacea*.
Ach. Syn. 22; *Lichen silaceus*, Eng. Bot. 1118.
On rocks and stones in sub-alpine situations. On the Teesdale Moors, D. On Cheviot and Hedgehope, N.
14. *L. Oederi*.
Ach. Syn. 22; Gr. Fl. Eds. 325; Berwick Flora, ii. 88; *Lichen Oederi*, Eng. Bot. 1117; *Lichen caesius*, Dick. Crypt. Fasc. ii. 19, t. 6, f. 6; *L. Dicksoni*, Ach. Pred. 76.
On rocks in the sub-alpine parts of Northumberland and Durham, particularly on Basalt and Porphyry.
15. *L. alba*.
Ach. Syn. 24; Gr. Fl. Eds. 326; *Lepraria alba*, Eng. Bot. 1349; *Byssus lacteus*, Lightfoot, 1007.
On rocks and trees in the sub-alpine parts of Durham and Northumberland.
16. *L. citrinella*.
Ach. Syn. 25; β *scabrosa*, *Lichen citrinellus*, Eng. Bot. 1877; *L. flavo-virescens*, Dick. Crypt. Fasc. iii. 13, t. 8, f. 9.
On earth upon the tops of walls near Eglestone, D. First discovered by the Rev. J. Harriman.
17. *L. uliginosa*.
Ach. Syn. 25; *Lichen uliginosus*, Eng. Bot. 1466.
On the heathy part of Prestwick Carr, and on Cheviot, N. In boggy places near the Redheugh, and near Eglestone, D.
18. *L. immersa*.
Ach. Syn. 27; *Lichen immersus*, Eng. Bot. 193; *L. calcivorus*, Ehrh. Cr. Ex. No. 244.
On the Magnesian Limestone, Durham, and on the Enderbush Limestone, D. and N.
Ehrhart's name *calcivorus* is very appropriate.
19. *L. rivulosa*.
Ach. Syn. 28; *Lichen rivulosus*, Eng. Bot. 1737.
On Basaltic rocks in Horsley Hope Bourn, D. In Wooler Water at the foot of Cheviot, N.
20. *L. albo-cærulescens*.
Ach. Syn. 29; *Lichen pruinosus*, Dick. Crypt. Fasc. iii. 15, t. 9, f. 4; *L. pruinosus*, Eng. Bot. f. 2244.
On stone walls near Gainford, D. By the West Turnpike Road a mile and half from Newcastle.
21. *L. abietina*.
Ach. Syn. 30; Gr. Fl. Scot. 326; *Lichen abietinus*, Eng. Bot. 1682.
On old trees in Charnberry Gill near Eglestone, D. On fir trees beyond West Denton, N.
22. *L. specireo*.
Ach. Syn. 31; *Lichen specireus*, Eng. Bot. 1864.
On the Magnesian Limestone upon Cleadon, Boldon, and Fulwell Hills, D.
23. *L. margaritacea*.
Ach. Syn. 31; *L. conspurcata*, Berwick Flora, ii. 88; *Lichen conspurcatus*, Eng. Bot. 964; Loud. Ency. No. 15, 406.
On the Magnesian Limestone, D. On Sandstone rocks at Hudshead, N.—Dr. G. Johnston.

24. *L. rimosa*.
Lichen rimosus, Eng. Bot. 1736.
Upon the Eucrinal Limestone on the Teesdale Moors, and in Weardale and Allendale, D. and N.
25. *L. epipolia*.
Ach. Syn. 32; *Lichen epipolius*, Eng. Bot. 1137;
L. niveo-ater, Dick. Crypt. Fasc. iv. t. 12, f. 3.
On Cleadon, Boldon, and Fulwell Hills, and on walls at Gainford, D. On the walls of Wycliffe Church.
26. *L. corticola*.
Ach. Syn. 32; *Lichen corticola*, Eng. Bot. 1892.
On old trees at Gainford, and near Medomsley, D.
27. *L. quercea*.
Ach. Syn. 36; *Lichen querceus*, Eng. Bot. 485.
On old trees about Newcastle, N. In Newton Cap Wood, near Bishop Auckland, D.
28. *L. viridescens*.
Ach. Syn. 36; *L. hypnophila*, Northumberland and Durham Guide, ii. 37; *Lichen viridescens*, Eng. Bot. 2217.
On *Hypnum sericeum*, in woods near Eglestone in Teesdale, D.—Rev. J. Harriman.
29. *L. incana*.
Ach. Syn. 36; Gr. Fl. Eds. 326; *Lichen incanus*, Eng. Bot. 1683.
On the barks of trees and mosses, but never in fructification.
30. *L. sulphurea*.
Ach. Syn. 37; Berwick Flora, ii. 83; *Lichen sulphureus*, Eng. Bot. 1186.
On rocks and stones frequently covering other Lichens.
Probably not a good species.
31. *L. orosthea*.
Ach. Syn. 37; *Lichen orosthea*, Eng. Bot. 1549.
Upon the bark of trees by the Derwent near Gibside, D.
32. *L. decolorans*.
Ach. Syn. 37; Hook. Fl. Scot. ii. 39.
 β *Lichen escharoides*, Eng. Bot. 1247; *L. quadricolor*, Eng. Bot. 1185.
 α In a wood at Eglestone. β upon the ground on Gateshead Fell, and on earth upon the tops of walls near Eglestone, also on Peat bogs on the Teesdale Moors, on Muggleswick Fell, and near Medomsley, D. At Prestwick Carr, and on Cheviot and Hedgehope, N.
33. *L. anomala*.
Ach. Syn. 38; *Lichen ferruginosus*, Turner, Linn. Tr. v. 7; *L. tricolor*, With., 5th ed., iv. 20.
 β *cyrtella*, *Lichen cyrtellus*, Eng. Bot. 2155.
On the bark of trees near Gainford, D.
34. *L. calva*.
Northumberland and Durham Guide, ii. 39; *Lichen calvus*, Eng. Bot. 948; Dick. Crypt. Fasc. ii. 18, t. 6, f. 4; *L. rupestris*, Ach. Syn. 39.
On the Magnesian Limestone on Cleadon and Boldon Hills, on the Eucrinal Limestone near Middleton-in-Teesdale, and near the New Bridge below Barnardcastle, D.
35. *L. rupestris*.
Northumberland and Durham Guide, ii. 39; *Lichen rupestris*, Eng. Bot. 2245.
On Sandstone walls behind Beamish Hall and in the neighbourhood of Gainford, D.
This species differs from *L. calva* by its crust being cracked and green within, whereas that of *L. calva* is contiguous and white within.
36. *L. luteola*.
Ach. Syn. 41; Hook. Fl. Scot. ii. 39; Berwick Flora, ii. 89; *Lichen vernalis*, Eng. Bot. 845;
L. porriginosus, Turner, Linn. Tr. vii. 94, t. 8, f. 4; *L. vernalis*, Ach. Syn. 36?
On trees near Hexham, N. On trees and moss near Eglestone and Gainford, D.
By no means rare in the north.
37. *L. carneola*.
Ach. Syn. 42; *Lichen corneus*, Eng. Bot. 965.
On old oaks in a wood near Eglestone, D. First found by the Rev. J. Harriman.
38. *L. Griffithii*.
L. carneola β , Ach. Syn. 42; *Lichen Griffithii*, Eng. Bot. 1735; *L. tricolor*, Northumberland and Durham Guide, ii. 36.
On the bark of old oaks in Newton Cap Wood, near Bishop Auckland, and in the Bishop's Park, also near Gainford, D. Found by the Rev. J. Harriman.
39. *L. fusco-lutea*.
Ach. Syn. 42; *Lichen fusco-luteus*, Eng. Bot. 1007.
Upon Cheviot and Hedgehope, N.
40. *L. anthracino*.
Ach. Syn. 43; Hook. Fl. Scot. ii. 39; Berwick Flora, ii. 89; *Lichen byssinus*, Eng. Bot. 432.
On rocks at Hudshead, N.—Dr. G. Johnston.
Probably not distinct from *Lecanora crenulata*.
41. *L. ferruginea*.
Lichen ferrugineus, Eng. Bot. 1650; Hudson, 526;
L. casto-rufa, Ach. Syn. 44; Gr. Fl. Eds. 237;
Berwick Flora, ii. 89; *L. crenulato*, Ach. Meth. 71.
On trees and walls near Lanchester, also near Eglestone, D. On Roadley Crag, N. On Hudshead near Berwick.—Dr. G. Johnston.
I see no reason for altering the very appropriate specific name given by Hodson to this Lichen.
42. *L. icmadophila*.
Ach. Syn. 45; Gr. Fl. Eds. 327; *Lichen criccorum*, Eng. Bot. 372.
On Peat bogs, frequent.
43. *L. marmorca*.
Ach. Syn. 46; Gr. Fl. Eds. 327; *Lichen marmorca*, Eng. Bot. 739.
 β *L. cupularis*, Ach. Meth. 56.
On the Magnesian Limestone at Fawdon Slate, and on the Eucrinal Limestone in Bolyhope Bourn, also near Middleton-in-Teesdale, on mosses and Limestone rocks in Harewood, and near Wycliffe in the bed of the Tees, D.
44. *L. alabastrina*, β *sphaeroides*.
Ach. Syn. 46; *Lichen sphaeroides*, Dick. Crypt. Fasc. i. 9, t. 2, f. 2.
In Bradley Wood near Medomsley, D.
Only a variety of *Lichen vernalis*, Eng. Bot. 845.
45. *L. rosella*.
L. alabastrina γ , Ach. Syn. 46; *Lichen rosellus*, Eng. Bot. 1651.
On the bark of trees near Eglestone, D.
46. *L. argena*.
Ach. Syn. 47; *Lichen argenus*, Eng. Bot. 1923.
On the bark of trees in Cawsey Wood, D.
47. *L. Ehrhartiana*.
Ach. Syn. 47; *Lichen Ehrhartianus*, Eng. Bot. 1136; β *polytropa*, *L. polytropus*, Eng. Bot. 1264.

α and β on Sandstone walls near Newcastle, N. On rocks and walls on Gateshead Fell, also in Teesdale and Weardale, D.

48. *L. luteo-alba*.

Ach. Syn. 49; *Lichen luteo-albus*, Eng. Bot. 1426. On the bark of trees in West Crow Wood near Wolsingham, and near Gainford, D.

49. *L. vesicularis*.

Ach. Syn. 51; *Lichen cæruleo-nigricans*, Eng. Bot. 1139; Lightfoot, 805.

On Limestone rocks at Fawdon Slate and Boldon, also upon earth on Limestone in Weardale and Middleton-in-Teesdale, D. On Cleadon and Fulwell Hills, D.—Mr. J. Thornhill.

50. *L. lurida*.

Ach. Syn. 51; *Lichen luridus*, Eng. Bot. 1329. On earth upon a rock called the Marble Stone near Middleton-in-Teesdale, D.

51. *L. atro-rufa*.

Ach. Syn. 51; Northumberland and Durham Guide, ii. 41; *Lichen atro-rufus*, Eng. Bot. 1102; Dicks. Crypt. Fasc. iv. 22, t. 12, f. 4.

On earth upon wall tops in Teesdale Forest, D. Also in Lunedale.—Rev. J. Harriman.

52. *L. pholidiota*.

Ach. Syn. 53; *Lichen glebulosus*, Eng. Bot. 1955. Abundant on Sandstone rocks at Lanchester, and walls at Knitsley, D., Nov. 1804.

53. *L. canescens*.

Ach. Syn. 54; *Lichen canescens*, Eng. Bot. 582; Dick. Crypt. Fasc. i. 10, t. 2, f. 5.

On walls and trees near Gainford and Houghton-le-Spring, D. Near Hexham and Brinkburn Priory, N.

54. *L. æruginosa*.

Eng. Bot. 2682.

On old rails and gate posts, not rare.

55. CALICIUM.

1. *C. stigonellum*.

Ach. Syn. 56; *C. sessile*, Eng. Bot. 2520; *Lichen gelatinatus*, With., 5th ed., iv. t. 31, f. 1.

On the bark of trees near Gainford, D.—Rev. J. Harriman. In Oakwood and Dilston Park, N.

2. *C. claviculare*.

Ach. Syn. 57; *Lichen clavellus*, Eng. Bot. 1465.

β *subtile*.

α On trees in Oak Wood and near Hexham, N. Near Eglestone, D. β in Cawsey Wood, D.

3. *C. sphaerocephalum*.

Ach. Syn. 57; *Lichen sphaerocephalus*, Eng. Bot. 414. On trees near Hexham, N. On trees and old wood near Eglestone, D.

4. *C. hypercellum*, β *roscidium*.

Ach. Syn. 59; *Lichen graniformis*, Eng. Bot. 1464. On trees in Cawsey Wood, D. In Oak Wood and Felton Woods, N.

5. *C. cantharellum*.

Ach. Syn. 61; Eng. Bot. 2557.

β *C. peronellum*, Ach. Meth. 96.

In East Common Wood near Hexham, and in Felton Wood, N. On decayed wood near Eglestone, D.

6. *C. capitellatum*.

Ach. Syn. 61; *Lichen capitatus*, Eng. Bot. 1539.

On banks at Cow-close near Ravensworth, and in Long-acre Wood, D. In Felton Wood, N. Near the roots of trees on the south bank of the

Wansbeck at Wallington, N.—Miss Emma Trevelyan, Sp.

56. GYROPHORA.

1. *G. glabra*.

Ach. Syn. 63; β *polyphylla*, *Lichen polyphyllus*, Eng. Bot. 1272.

On Cheviot and Hedgehope, also on Shaftoe and Roadley Crags near Wallington, N. On rocks and stones above Blanchland, and near Hunt Hall, Teesdale, N. and D.—W. C. Trevelyan, Esq. In the neighbourhood of Eglestone, and on walls at Healy Field and Conset Park. In fructification on rocks at the foot of Hunsterley Peak, between Waskerley Park and Hishope, D.—Mr. J. Thornhill.

2. *G. proboscidea*.

Ach. Syn. 64; Berwick Flora, ii. 99; *Lichen proboscideus*, Eng. Bot. 522 and 2484; *G. cylindrica*, Ach. Syn. 65; Berwick Flora, ii. 99; *Lichen deustus*, Lightfoot, 861.

On Shaftoe Crags near Wallington, and on Cheviot and Hedgehope, N. On walls and rocks in Teesdale near the High Force, in Harewood, particularly between Widdy Bank and Cauldron Snout, D; also on Cronkley Fell.

Acharius has separated *G. proboscidea* from *G. cylindrica*, but they are the same plant in different stages of growth.

3. *G. crosa*.

Ach. Syn. 65; Eng. Bot. 2066; *Lichen torrifactus*, Lightfoot, 862.

On rocks at Hunsterley Peak, north-west of Waskerley Park, also near Eglestone, particularly about Blackburn, D. On Cronkley Fell, Teesdale. On Cheviot and Hedgehope, N.

4. *G. deusta*.

Ach. Syn. 66; Eng. Bot. 2483; Hook. Fl. Scot. ii. 42; Gr. Fl. Eds. 328.

On rocks of the Millstone Grit at Roadley near Wallington, N.—W. C. Trevelyan, Esq.

5. *G. pustulata*.

Ach. Syn. 66; Hook. Fl. Scot. ii. 42; *Lichen pustulatus*, Eng. Bot. 1283.

On the Millstone Grit at Shaftoe Crags near Wallington, N.

First noticed there by Miss Emma Trevelyan.

6. *G. pellita*.

Ach. Syn. 67; Hook. Fl. Scot. ii. 42; *Lichen pellitus*, Eng. Bot. 931; *L. polyrrhizus*, Lightfoot, 864.

On Shaftoe Crags, Hedgehope and Cheviot, also on Hexham Fell, N. On Muggleswick Fell, D. On Cronkley Fell, Teesdale.

57. OPEGRAPHA.

1. *O. Persoonii*.

Ach. Syn. 71; Eng. Bot. 2345; Berwick Flora, ii. 99.

Upon sandstone rocks on the coast of Northumberland. Upon Hudshead, and on Sandstone dykes near Berwick, abundant, N.—Dr. G. Johnston.

2. *O. tesscrata*.

Eng. Bot. t. 2632, f. 3; Lam. and De Cand. ii. 313; *O. petraea*, Ach. Syn. 72.

On rocks above Middleton-in-Teesdale, D.

Sent to Acharius by the Rev. J. Harriman.

3. *O. calcarea*.

- Ach. Syn. 72; Eng. Bot. 1790.
On the Magnesian Limestone Rocks near Whitburn, Sunderland, and Castle Eden, D. On the walls and mortar of Wycliffe Church.
Probably only a variety of *O. Persoonii*.
4. *O. macularis*.
Ach. Syn. 72; Berwick Flora, ii. 100; *O. opiphoga*, Eng. Bot. 2282; *Lichen rugosus*, Linn. Sp. Pl. 1607; Lightfoot, 802; Sibthorp, 317.
On the bark of trees, common.
 5. *O. herpctica*.
Ach. Syn. 72; Eng. Bot. 1789.
On trees in woods near Newcastle.
 6. *O. vulgata*.
Ach. Syn. 73; Eng. Bot. 1811.
On trees, frequent, N. and D.
 7. *O. cripata*.
Ach. Syn. 74; Eng. Bot. 1828.
On the smooth bark of trees near Newcastle.
 8. *O. microscopica*.
Eng. Bot. 1911; *O. cripata* β , Ach. Syn. 75
On the bark of trees near Newcastle.
 9. *O. stenocarpa*, β *denigrata*.
Ach. Syn. 75; *O. denigrata*, Eng. Bot. 1753; *O. atra*, Berwick Flora, ii. 100.
On the bark of the Ash, the Hazel, &c., not rare, N. and D. Near Berwick.—Dr. G. Johnston.
 10. *O. notha*.
Ach. Syn. 76; Eng. Bot. 1890; Berwick Flora, ii. 100.
On trees in Teesdale, and in Cawsey Wood, D. Near Hexham and Corbridge, N. Near Berwick.—Dr. G. Johnston.
 11. *O. diaphora*.
Eng. Bot. 2280.
On trees in Weardale and Teesdale, also in Ravensworth and Cawsey Woods, D.
Probably not distinct from the preceding species.
 12. *O. rubella*.
Eng. Bot. 2347; *O. herpetica*, β *disparata*, Ach. Syn. 73.
On trees near Eglestone, D.
 13. *O. cerasi*.
Eng. Bot. 2301.
On the bark of Cherry and Plum Trees.
 14. *O. cerabrina*.
Eng. Bot. t. 2632, f. 1; *Lecidea plocina*, Ach. Syn. 16.
On Eucrinial Limestone rocks in Teesdale, D.—Rev. J. Harriman.

53. GRAPHIS.

1. *G. scripta*.
Ach. Syn. 81; *Opegrapha scripta*, Eng. Bot. 1813; Berwick Flora, ii. 100; *Lichen scriptus*, Linn. Sp. Pl. 1606; Lightfoot, 800.
On trees in Weardale and Teesdale, D. Near Newcastle and Hexham, N.
2. *G. pulverulenta*. *G. scripta* β , Ach. Syn. 82; *Opegrapha pulverulenta*, Eng. Bot. 1754.
On trees in Weardale and Teesdale, D. Near Newcastle and Hexham, N.
3. *G. betulinigra*.
Ach. Syn. 83; *Opegrapha betulinigra*, Eng. Bot. 2281.
On the bark of Birch Trees, common.
4. *G. serpentaria*.
Ach. Syn. 83; Eng. Bot. 1755.

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On the bark of trees near Eglestone, also in Cawsey and Ravensworth Woods, D. In woods near Newcastle, N.

59. VERRUCARIA.

1. *V. punctiformis*.
Ach. Syn. 87; *Lichen punctiformis*, Eng. Bot. 2412.
On the smooth bark of trees, not rare.
2. *V. analepta*.
Ach. Syn. 88; *Lichen analeptus*, Eng. Bot. 1848.
On the smooth bark of trees in Teesdale, D. In woods near Newcastle, N.
3. *V. carpinca*.
Ach. Syn. 88; *V. olivacea*, Eng. Bot. t. 2597, f. 1.
On the smooth bark of the Ash, Thorn, &c.
Probably only a variety of *V. epidermidis*.
4. *V. epidermidis*.
Ach. Syn. 89; Berwick Flora, ii. 102 Gr. Fl. Eds. 353.
On the bark of the birch, common.
5. *V. stigmatella*.
Ach. Syn. 89; α and β *atomaria*, *Lichen stigmatellus*, Eng. Bot. 1891.
On the smooth bark of trees, N. and D.
6. *V. gemmata*.
Ach. Syn. 90; Northumberland and Durham Guide, ii. 45; Eng. Bot. t. 2617, f. 2.
On the bark of trees, in woods on the Derwent, D. and N.
7. *V. Schraderi*.
Ach. Syn. 93; *Lichen Schraderi*, Eng. Bot. 1711.
On the Magnesian Limestone, on Cleadon and Boldon Hills, also near Castle Eden, D. On the Eucrinial Limestone near Middleton-in-Teesdale, and between Widdy bank and Cauldron Snout, D.
8. *V. Harrimani*.
Ach. Syn. 93; *Lichen Harrimani*, Eng. Bot. t. 2539.
On Limestone rocks in Teesdale, D.
9. *V. lacvata*.
Ach. Syn. 94; Eng. Bot. t. 2623, f. 2.
On rocks and stones in the Tees near Middleton, and in the Derwent near Blanchland, D. and N.
10. *V. pipolava*.
Ach. Syn. 95; Eng. Bot. 2647, f. 3.
On rocks near Eglestone and Middleton, D.—Rev. J. Harriman. On Limestone in Castle Eden Dene, D.
11. *V. maura*.
Ach. Syn. 95; *Lichen maurus*, Eng. Bot. 2546.
On Magnesian Limestone rocks at Boldon, Cleadon, and Castle Eden Dene. On the Eucrinial Limestone in Teesdale, D. On Basaltic rocks at Bamthorough, Dunstanborough, and Holy Island, N.
12. *V. striatula*, β *acrotella*.
Ach. Syn. 95; *Lichen acrotellus*, Eng. Bot. 1712.
On the Millstone Grit in Teesdale and Weardale, D.
13. *V. muralis*.
Ach. Syn. 95; Eng. Bot. 2647, f. 2; *Sphæria communis*, Sowerby, Fungi, t. 295, upper figure.
On Magnesian Limestone rocks at Cleadon, Boldon, and Castle Eden Dene, and on Gainford Church, D. On the mortar of walls in Heaton Dene, and near Jesmond, N.
14. *V. spongiosa*.
Ach. Syn. 96; Northumberland and Durham Guide, ii. 45.
On earth upon wall tops near Middleton-in-Teesdale, D.; also near Romaldkirk.—Rev. J. Harriman.

Z

Perhaps this is nothing but *Byssus velutina* in old age.
—Harriman.

15. *V. epigea*.
Ach. Syn. 96; Berwick Flora, ii. 102; *Lichen terrestris*, Eng. Bot. 1681; *Sphæria epigea*, Pearson, Syn. Appx. xxvii.
Upon hedge banks and earth, upon the tops of stone fences, N. and D.
16. *V. concinna*.
Eng. Bot. t. 2623, f. 1.
On the Encrinal Limestone near Middleton and Eglestone, D.

60. ENDOCARPON.

1. *E. smaragdulum*.
Ach. Syn. 98; *Lichen Smaragdulus*, Eng. Bot. 1512.
On walls near Eglestone, Buttsfield, and the Woodlands, D.
2. *E. tephroides*, β *polythecium*.
Ach. Syn. 93; *Lichen fuscillus*, Eng. Bot. 1500, Turner, Linn. Tr. 7, 90, t. 8, f. 2.
On rocks and stones about Gainford and Eglestone, D.—Rev. J. Harriman.
3. *E. Hedwigii*.
Ach. Syn. 99; *Lichen trapcziformis*, Eng. Bot. 595.
On earth in the neighbourhood of Eglestone, D.—Rev. J. Harriman.
4. *E. minutum*.
Ach. Syn. 101; *E. complicatum*, 102; *Lichen minutus*, Eng. Bot. 593 and f. 2; Lightfoot, 857.
On rocks of Magnesian Limestone at the Gunners Pool in Castle Eden Dene, and on the Encrinal Limestone near Stanhope-in-Weardale, Middleton-in-Teesdale, Eglestone, and Rokeby, D.
5. *E. cuplocum*.
Ach. Syn. 102; *E. minutum*, β *pusillum*, Wahl. Fl. Lapp. 462; *Verrucaria cuploca*, Eng. Bot. t. 2602, f. 2.
On Sandstone rocks by the Tyne west of Newcastle, N.—Mr. W. Robertson.
6. *E. Weberi*.
Ach. Syn. 102; Berwick Flora, ii. 103; *Lichen aquaticus*, Eng. Bot. 594.
On rocks in the Tees below Wycliffe, D. On stones in a bourn on the north side of the Derwent opposite Gibside, D.—Mr. J. Thornhill. In a rivulet in Holwick.—Rev. J. Harriman. On rocks at Cauldron Snout, D.—W. C. Trevelyan, Esq. In the Loughs near the Roman Station at Shewing Shields, in Wooler Water, and in the Irthing at Gilsland, N.

61. PORINA.

1. *P. pertusa*.
Ach. Syn. 109; Berwick Flora, ii. 102; *Lichen pertusus*, Eng. Bot. 677; Lightfoot, 302.
On the bark of trees, common.
2. *P. fallax*, β *hymenia*.
Ach. Syn. 110; *Lichen hymenius*, Eng. Bot. 1731.
On trees near Eglestone, also on the banks of the Derwent near Gibside, and in Horsleyhope Bourn, D. In East Common Wood, and Felton Wood on the Coquet, N.

62. THELOTREMA.

1. *T. lepadinum*.
Ach. Syn. 115; *Lichen inclusus*, Eng. Bot. 678.

On the bark of trees near Eglestone, and in Gibside, Ravensworth, and Cawsey Woods. On Sandstone rocks at Eglestone, D.—Rev. J. Harriman.
On trees in Bearl Wood, East Common Wood, and Felton Woods, N.

2. *T. exanthematicum*.

Ach. Syn. 116; *Lichen exanthematicus*, Sm. Tr. Linn. Soc. i. 81, t. 4, f. 1; Eng. Bot. 1184; L. *volvatus*, Villar's Delph. t. 55; *Verrucaria clausa*, Hoffm. Fl. Germ. 177.

On Encrinal Limestone rocks near Mr. Morritt's Bridge at Rokeby, and below the New Bridge at Barnardcastle, D.

First found by the Rev. John Harriman. This Lichen, though widely dispersed over Europe, is rare in England, nor does it appear to have been found in Scotland by any Botanist but the late Mr. Dickson. In his Fasc. iii. 14, he gives no precise locality, but merely says "In rupibus Calcareis Scotiæ," with us it is confined to the Encrinal Limestone, which it has the property of excavating in the same way as *Lecidea immersa*, and some other Lichens that grow on chalk and limestone. Its structure is so peculiar that it might constitute a genus.

63. PYRENULA.

1. *P. umbonata*.
Ach. Syn. 121; *Verrucaria thelostoma*, Northumberland and Durham Guide, ii. 44; *Lichen thelostomus*, Eng. Bot. 2153.
On Basaltic rocks near Eglestone, D.—Rev. J. Harriman.
2. *P. nitida*.
Ach. Syn. 125; *Verrucaria nitida*, Northumberland and Durham Guide, ii. 45; Eng. Bot. t. 2607, f. 1; *Sphæria nitida*, Sowerby, Fungi, t. 275.
On the bark of trees near Eglestone, and in Horsleyhope Dene, D. In East Common and Oak Wood, N.
3. *P. tessellata*.
Ach. Syn. 126; *Lichen tessellatus*, Eng. Bot. 533.
On stones near Gainford, D.—Rev. J. Harriman.
4. *P. nigrescens*.
Ach. Syn. 126; *Verrucaria umbrina*, Eng. Bot. 1499.
On stones near Gainford, D. On rocks and old walls near Newcastle, &c., N. and D.
5. *P. leucocephala*.
Ach. Syn. 126; *Verrucaria leucocephala*, Eng. Bot. t. 2642, f. 2; *Sphæria lichenoides*, Sowerby, Fungi, t. 373, f. 12.
On the bark of old trees in woods, N. and D.

64. VARIOLARIA.

1. *V. velata*.
Ach. Syn. 129; *Lichen velatus*, Eng. Bot. 2062.
On the bark of trees in Gibside and Ravensworth Woods, D. In East Common Wood and Felton Woods, N.
2. *V. multipunctata*.
Ach. Syn. 129; *Lichen multipunctatus*, Eng. Bot. 2061.
On the bark of trees in Teesdale, also in Gibside and Ravensworth Woods, D. In Felton Woods and Dilston Park, N.
3. *V. aspergilla*.

- Northumberland and Durham Guide, ii. 30; Eng. Bot. 2401; *V. communis*,* g. Ach. Syn. 131.
On the bark of trees in Conset Park, D. In East Common Wood near Hexham, in Felton Woods, and at the foot of Cheviot, N.
4. *V. globulifera*.
Ach. Syn. 130; *Lichen globuliferus*, Eng. Bot. 2008; Turner, in Linn. Tr. ix. 139, t. 10, f. 2.
On trees and rocks, N. and D.
Probably not a good species.
5. *V. amara*.
Ach. Syn. 131; Berwick Flora, ii. 101; *Lichen fagineus*, Eng. Bot. 1713.
On the bark of trees, common.
6. *V. lactea*.
Ach. Meth. 132; Eng. Bot. 2410; Hook. Fl. Scot. ii. 46.
On Basaltic rocks near Middleton-in-Teesdale, D. On the Crags near Shewing Shields, and at the foot of Cheviot, N.
7. *V. griseo-virens*.
Eng. Bot. 2400.
On the bark of the Cherry, Birch, &c.
65. URCEOLARIA.
1. *U. Acharii*.
Ach. Syn. 137; *Lichen Acharii*, Eng. Bot. 1087; *β cyrtapsis*.
On stones in Bolt's Hope Bourn, also in the Derwent, in the Tees and rivulets in Teesdale, D. In Horsleyhope Bourn, D.—Mr. J. Thornhill. On rocks in the Coquet at Rothbury, and in Wooler Water, N.
2. *U. gibbosa*.
Ach. Syn. 139. *U. fimbriata*, Northumberland and Durham Guide, ii. 48; *Lichen fibrosus*, Eng. Bot. 1732.
On Quartz pebbles, in the Millstone Grit near Eglestone, and on the Weardale Moors, D. On Slaty Crags near Wallington, and at Roadley, N.
3. *U. cinerea*.
Ach. Syn. 140; *Lichen cinereus*, Eng. Bot. 1751.
On stones near Eglestone, and on Limestone rocks near Boldon and Cleadon, D.
4. *U. scruposa*.
Ach. Syn. 142; *Lichen scruposus*, Eng. Bot. 266.
Upon earth on the tops of stone walls near Eglestone, and on rocks in Harewood Forest, between Widdy Bank and Canldron Snout, D.
5. *U. calcarea*.
Ach. Syn. 143; *β U. Hoffmanni*, *Lichen Hoffmanni*, Eng. Bot. 1940.
On the Magnesian Limestone near Boldon, Whitburn, and Castle Eden, and on the Encrinal Limestone in Teesdale and Weardale, D.
6. *U. cpulotica*.
Ach. in Northumberland and Durham Guide, ii. 48.
On Limestone rocks near Middleton-in-Teesdale, D.—Rev. J. Harriman. In Boltshope Bourn, D. A doubtful species.
66. LECANORA.
1. *L. atra*.
Ach. Syn. 146; Berwick Flora, ii. 83; *Lichen ater*, Eng. Bot. 949; Lightfoot, 813.
On rocks, stones, and the bark of trees, frequent.
2. *L. coarctata*.
Ach. Syn. 149; *Lichen coarctatus*, Eng. Bot. 534; *Parmelia clacista*, Ach. Meth. 159, t. 4, f. 4.
On Sandstone upon Gateshead Fell, and about Eglestone and Gainford, D. In Heaton Dene, and near Gosforth, N.
3. *L. periclea*.
Ach. Syn. 150; *Lichen pinicola*, Eng. Bot. 1851; *L. pericleus*, Eng. Bot. 1850.
On fir trees near Gainford, and in Newton-cap Wood near Bishop Auckland, also near Ryton, D. In Fenham Woods, N.
4. *L. exigua*.
Lichen exiguus, Eng. Bot. 1849.
On tiles on the roofs of houses in and about Gainford, D.—Rev. J. Harriman.
5. *L. privigna*.
L. mitvina β, Ach. Syn. 151; *Lecidea privigna*, Ach. Syn. 49; Northumberland and Durham Guide, ii. 34; *Lichen simplex*, Eng. Bot. t. 2152, the upper figure.
On Sandstone rocks and walls near Gainford, and on Gateshead Fell, D. In Heaton Dene, and near Jesmond, N.
By no means rare in the north.
6. *L. mitvina*.
Ach. Syn. 151; Eng. Bot. t. 2662, f. 1; Wahl. Fl. Lapp. 410; Fl. Suec. 305.
On Sandstone rocks in Teesdale, D.—Rev. J. Harriman.
7. *L. sophodes*.
Ach. Syn. 153; *Lichen sophodes*, Eng. Bot. 1791.
On trees in Newton-cap Wood near Bishop Auckland, D. In Felton Woods, N.
8. *L. badia*.
Ach. Syn. 154; *Lichen piccus*, Dick. Crypt. Fasc. iv. t. 12, f. 5; *Lecidea picea*, Northumberland and Durham Guide, ii. 34.
On Basalt near Eglestone, D.—Rev. J. Harriman.
9. *L. aipospola*.
Ach. Syn. 155; Eng. Bot. t. 2662, f. 2; *Lichen aipospolus*, Wahl. Fl. Lapp. 409, t. 27, f. 2; Fl. Suec. 305.
On Basaltic rocks at Holy Island, N. At Bamboorough, and on the Staples, N.—Mr. W. Robertson.
10. *L. spodophaea*.
Ach. Syn. 155; Eng. Bot. 2662, f. 3; Wahl. Fl. Lapp. 409; Fl. Suec. 305.
On Basaltic rocks at Holy Island, N. At Bamboorough, and on the Staples, N.—Mr. W. Robertson.
To me this appears to be a variety of the preceding species.
11. *L. subfusca*.
Ach. Syn. 157; Berwick Flora, ii. 83; *Lichen subfuscus*, Eng. Bot. 2109.
On rocks and the bark of trees, common.
12. *L. punctata*.
Lichen punctatus, Eng. Bot. 450; *Parmelia ostracoderma*, Northumberland and Durham Guide, ii. 49.
On Limestone rocks near Eglestone, and on Sandstone rocks upon Gateshead Fell, D. In Heaton Dene, N.
13. *L. ventosa*.
Ach. Syn. 159; Berwick Flora, ii. 84; *Lichen ventosus*, Eng. Bot. 906.
On Basaltic rocks in Teesdale Forest, also in

- Weardale, D. In Allendale, and on the west side of the Roman Station at Shewing-shields, also on Cheviot and Hedgehope, N.
14. *L. chloroleuca*.
Ach. Syn. 160; *Lichen chloroleucus*, Eng. Bot. 1373; *Parmelia chloroleuca*, Northumberland and Durham Guide, ii. 52.
On moss upon the Magnesian Limestone on Fulwell Hills, also on the Encrinal Limestone near Middleton-in-Teesdale, and between Widdy Bank and Cauldron Snout, D.
15. *L. varia*.
Ach. Syn. 161; Eng. Bot. 1666.
On old gate posts, rails, &c. common.
16. *L. rubricosa*.
Ach. Syn. 162; *Lichen cæsius-rufus*, Eng. Bot. 1040; *Parmelia craspedia*, Ach. Meth. 172; *Lecidea cinereo-fusca*, Northumberland and Durham Guide, ii. 39.
On walls near Wycliffe.—Rev. J. Harriman.
17. *L. glaucoma*.
Ach. Syn. 165; *Lichen Glaucoma*, Eng. Bot. 2156.
On rocks and stones in sub-alpine situations.
18. *L. diacapsis*.
Lichen diacapsis, Eng. Bot. 1954; *Parmelia diacapsis*, Northumberland and Durham Guide, ii. 51.
On stones between Barnardcastle and Early Banks, D.—Rev. J. Harriman.
19. *L. angulosa*.
Ach. Syn. 166; *Parmelia angulosa*, Northumberland and Durham Guide, ii. 51.
On the bark of trees in Teesdale, D.
20. *L. Hageni*.
Ach. Syn. 167; *Parmelia Hageni*, Northumberland and Durham Guide, ii. 51.
On the bark of trees in Teesdale, D.
21. *L. parella*.
Ach. Syn. 169; Berwick Flora, ii. 84; *Lichen parellus*, Eng. Bot. 727.
On rocks, stones, and the bark of trees in sub-alpine situations, not rare, N. and D. On the Fern Islands, N.
22. *L. tartarea*.
Ach. Syn. 172; Berwick Flora, ii. 84; *Lichen tartareus*, Eng. Bot. 156.
β *Lichen Turneri*, Eng. Bot. 857.
γ *L. frigidus*, Eng. Bot. 1879.
On rocks and the branches of trees in subalpine situations, N. and D.
23. *L. cerina*.
Ach. Syn. 173; *Lichen cerinus*, Eng. Bot. 627.
β *stillicidiorum*, Ach.
On trees in woods on the Derwent, and near Healeyfield, also about Gainford, D. β on the thatched roof of a house at Eglestone, D.—Rev. J. Harriman.
24. *L. vitellina*.
Ach. Syn. 174; *L. citrina*, Berwick Flora, ii. 85; *Lichen vitellinus*, Eng. Bot. 1792.
On old gate posts, pales, &c., not rare.
25. *L. salicina*.
Ach. Syn. 175; *Lichen salicinus*, Eng. Bot. 1305.
On trees at Cocken, and in Castle Eden and Dalton Denes, also by the Derwent near Gibside and Hamsterley, and in Teesdale, D. Near Hexham and Chollerford, N. On walls near Berwick.—Dr. G. Johnston.
26. *L. rubra*.
Ach. Syn. 177; *Lichen ulmi*, Eng. Bot. 2218.
Near Greta Bridge.—Mr. Borrer in Eng. Bot.
27. *L. Hæmatomma*.
Ach. Syn. 178; Hook, Fl. Scot. ii. 49; *L. Stonei*, Ach. Syn. 172; *Lichen Hæmatomma*, Eng. Bot. 486; *L. coccineus*, Eng. Bot. 223.
On Gunnerton Crags near Barwesford, also on rocks near Heddou-on-the-Wall, and at Harlow Hill, N. On the walls of Muggleswick Park, and on Basaltic rocks and old trees near the High Force, and at Winch Bridge in Teesdale, also on walls near Eglestone, D.
28. *L. epigea*.
Ach. Syn. 179; *Lichen candicans*, Eng. Bot. 1778; Dick. Crypt. Fasc. iii. 15, t. 9, f. 5.
On Limestone rocks on Boldon and Cleadon Hills, D. On Gunnerton Crags near Barwesford, N.
29. *L. saxicola*.
Ach. Syn. 180; *Lichen saxicola*, Eng. Bot. 1695.
On Gunnerton Crags near Barwesford, and on rocks near Warden Mill, also on rocks at Carham and Wark by the Tweed, N. On walls and stones near Urpeth, at Cawsey Hall, also near Eglestone and Gamford, D.
30. *L. murorum*.
Ach. Syn. 181; Berwick Flora, ii. 85; *Lichen murorum*, Eng. Bot. 2157.
On old walls near Gainford, D. On the Limestone rocks on the coast of Durham, and on Basaltic and Sandstone rocks on the coast of Northumberland, abundant.
31. *L. miniata*.
Ach. Syn. 182; *Parmelia miniata*, Northumberland and Durham Guide, ii. 54.
On Gainford church, D.—Rev. J. Harriman.
32. *L. elegans*.
Ach. Syn. 182; *Lichen elegans*, Eng. Bot. 2181.
On calcareous stones in Teesdale Forest, and on rocks near Whitburn and Sunderland, D., rare.
33. *L. circinata*.
Ach. Syn. 184; *Lichen circinatus*, Eng. Bot. 1941.
On Encrinal Limestone rocks near the New Bridge below Barnardcastle, D.
34. *L. gelida*.
Ach. Syn. 186; Hook. Fl. Scot. ii. 50; *Lichen Hecla*, Fl. Dan. t. 270, f. 2; *L. gelidus*, Eng. Bot. 699.
In fructification on Basaltic rocks at Winch Bridge and the Cauldron Snout, also in Charnberry near Eglestone, and in Teesdale Forest, D. In Holwick, and on Cronkley Fell, Teesdale.—Rev. J. Harriman.
35. *L. crenulata*.
Lecidea crenulata, Northumberland and Durham Guide, ii. 40; *Lichen crenulatus*, Dick. Crypt. Fasc. iii. 14, t. 9, f. 1; Eng. Bot. 930; *L. galactina* β *dispersa*, Ach. Syn. 187.
On the Magnesian Limestone rocks at Castle Eden, Fulwell, Boldon, and Cleadon, also on the Encrinal Limestone, by Middleton Beck, and near Barnardcastle, D. On Limestone by the Tweed at Carham and Wark, N.
36. *L. anthracina*.
Hook. Fl. Scot. ii. 39; Berwick Flora, ii. 89; *Lichen byssinus*, Eng. Bot. t. 432.

- On Red Sandstone rocks at Hudshead, south of Berwick, N.—Dr. G. Johnston.
Probably only a variety of the preceding species.
35. *L. squamulosa*.
Hook. Fl. Scot. ii. 50; *Lichen squamulosus*, Eng. Bot. 2011; Dick. Crypt. Fasc. iv. 22, t. 12, f. 5; *Parmelia squamulosa*, Northumberland and Durham Guide, ii. 53; *L. cervina*, Ach. Syn. 138.
On Sandstone rocks upon Muggleswick Fell, and on Basalt near Eglestone, D.
36. *L. crassa*.
Ach. Syn. 190; *Lichen cortilaginus*, Lightfoot, 815
L. crassus, Eng. Bot. 1893.
On a rock called the Marble Stone near Middleton-in-Teesdale, D.
37. *L. virella*.
Ach. Syn. 191; *Lichen virellus*, Eng. Bot. 1696.
On stone walls near Gainford and Saltwellside, and in the west of the county of Durham, common. Near Ovingham and Hexham, N.
38. *L. candelaria*.
Ach. Syn. 192; *Lichen candelarius*, Eng. Bot. 1794; *L. concolor*, Dick. Crypt. Fasc. iii. 18, t. 9, f. 8.
On trees and stones, frequent.
39. *L. hypnorum*.
Ach. Syn. 193; *L. lepidora*, Lich. Univ. 418; *Lichen hypnorum*, Eng. Bot. 740.
On earth and moss upon stones in Hag Crag Wood, and about Eglestone and Middleton, also in Teesdale Forest, D. On Gunnerton Crags near Barweford, and at Shewing-shields, also on Cheviot, N.
40. *L. carnosa*.
Hook. Fl. Scot. ii. 51; *Lichen carnosus*, Eng. Bot. 1684; Dick. Crypt. Fasc. ii. 21, t. 6, f. 7; *L. muscorum*, Ach. Syn. 193; *Lecidea carnosa*, Northumberland and Durham Guide, ii. 41.
On stones in Hag Crag Wood in Teesdale Forest, D.
41. *L. microphylla*.
Lecidea microphylla, Northumberland and Durham Guide, ii. 41; *Lichen microphyllus*, Eng. Bot. 2128.
On stones near Eglestone, D., but extremely scarce.—Rev. J. Harriman.
42. *L. brunnea*.
Ach. Syn. 193; *Lichen brunneus*, Eng. Bot. 1246; *L. pezizoides*, Dick. Crypt. Fasc. i. 10, t. 11, f. 4.
On the south bank of the Derwent above Blanchland, N. In Howns Wood near Lanchester, and in Teesdale Forest, D.
67. PARMELIA.
1. *P. glomulifera*.
Ach. Syn. 195; *Lichen glomuliferus*, Lightfoot, 853; Eng. Bot. 293.
On the bark of old trees in Hishope and Horsleyhope Denes, D. In East Common Wood near Hexham, N. In the neighbourhood of Romalldkirk.—Rev. J. Harriman.
2. *P. caperata*.
Ach. Syn. 196; *Lichen caperatus*, Eng. Bot. 654.
On rocks near Heddon-on-the-Wall, and at West Dipton near Hexham, N. In the vicinity of Romalldkirk.—Rev. J. Harriman.
3. *P. scortea*.
Ach. Syn. 197; *Lichen scorteus*, Eng. Bot. 2065.
On trees, and the thatched roof of the house at Foggerforth near Eglestone, D.—Rev. J. Harriman.
4. *P. herbacea*.
Ach. Syn. 198; *Lichen herbaceus*, Hudson, 544; *L. late-virens*, Eng. Bot. 294.
On trees in Horsleyhope and Hishope Denes, also on stones and trees in Shipley Wood near Eglestone, D. In Irehope Dene, Weardale, D.—W. C. Trevelyan, Esq. In woods near Healy Field, D.—Mr. R. Waugh and Mr. J. Thornhill.
5. *P. olivacea*.
Ach. Syn. 200; Berwick Flora, ii. 79; *Lichen olivaceus*, Eng. Bot. 2180.
On the bark of trees, common.
6. *P. parietina*.
Ach. Syn. 200; Berwick Flora, ii. 80; *Lichen parietinus*, Eng. Bot. 194.
On trees, walls, and stones, common.
7. *P. plumbea*.
Ach. Syn. 202; *Lichen plumbeus*, Eng. Bot. 353; Lightfoot, 826, t. 26.
On trees near Healy-field, and Middleton-in-Teesdale, also on trees and stones in woods near Eglestone, D.
8. *P. rubiginosa*.
Ach. Syn. 202; *P. affinis*, Northumberland and Durham Guide, ii. 56; *Lichen affinis*, Eng. Bot. 983.
On trees in Charnberry and Eglestone Woods, D.
9. *P. omphalodes*.
Ach. Syn. 203; Berwick Flora, ii. 82; *Lichen omphalodes*, Eng. Bot. 604.
On rocks and stones upon moors, in sub-alpine situations, D. and N.
10. *P. saxatilis*.
Ach. Syn. 203; Berwick Flora, ii. 81; *Lichen saxatilis*, Eng. Bot. 603.
On rocks, stones, and trees, in sub-alpine situations.
11. *P. fuliginensis*.
Ach. Syn. 204; *Lichen fuliginensis*, Eng. Bot. 653.
On stones and rocks upon the moors in Teesdale and Weardale, also near Buttsfield and Horsleyhope, D. On Cheviot, N.
12. *P. stygia*.
Ach. Syn. 204; *Lichen stygius*, Eng. Bot. 2048.
Upon stones on moors near Buttsfield, D.
13. *P. aquila*.
Ach. Syn. 205; Berwick Flora, ii. 80; *Lichen aquilus*, Eng. Bot. 982; *L. pullus*, Lightfoot, 825.
On Basaltic rocks at the Heugh on Holy Island, and on the Fern Islands, N. On Sandstone rocks at Hartley Bates, N.—Mr. J. Thornhill. On rocks at Hudshead, N.—Dr. G. Johnston.
14. *P. recurva*.
Ach. Syn. 206; *Lichen incurvus*, Eng. Bot. 1375; *L. multifidus*, Dick. Crypt. Fasc. iii. 16, t. 9, f. 7.
On Sandstone rocks, on Beamish Moor, and Eglestone Fell, D. Upon Porphyry on Hedgehope and Cheviot, N.
15. *P. conspersa*.
Ach. Syn. 209; Berwick Flora, ii. 82; *Lichen conspersus*, Eng. Bot. 2097.
On rocks and stone walls near Middleton-in-Teesdale, D. On the banks of North Tyne near Warden Mill, D.

16. *P. pulverulenta*.
Ach. Syn. 214; Berwick Flora, ii. 81; *Lichen pulverulentus*, Eng. Bot. 2063.
On the bark of trees, not rare.
17. *P. stellaris*.
Ach. Syn. 216; Berwick Flora, ii. 81; *Lichen stellaris*, Eng. Bot. 1697.
On trees in Ravensworth and Cawsey Woods, D. At West Dipton near Hexham, and in Oak Wood near Wylam, N.
18. *P. caesi*.
Ach. Syn. 216; *Lichen caesi*, Eng. Bot. 1052; Dick. Crypt. Fasc. iii. 17.
On tiles upon the roofs of houses in and about Gainford, and upon rocks at Fawdon Slate, D. On the Crags at West Dipton near Hexham, N.
19. *P. cyclosclis*.
Ach. Syn. 216; *Lichen cyclosclis*, Eng. Bot. 1942.
Upon the branches of old Apple trees, N. and D.
20. *P. physodes*.
Ach. Syn. 218; Berwick Flora, ii. 82; *Lichen physodes*, Eng. Bot. 126.
γ platyphylla.
α On trees and stones, common. In fructification on the stems of Heath upon Gateshead Fell, D.
γ On trees by Wakerley Bourn, and on the walls of Wolsingham Park, D.

68. BORRERA.

1. *B. ciliaris*.
Ach. Syn. 221; Berwick Flora, ii. 79; *Lichen ciliaris*, Eng. Bot. 1352.
On trees in woods, not rare.
2. *B. tenella*.
Ach. Syn. 221; Berwick Flora, ii. 79; *Lichen tenellus*, Eng. Bot. 1351; *L. ciliaris* β, Hudson, 538.
β *leptalea*, *Parmelia leptalea*, Northumberland and Durham Guide, ii. 55.
α Upon trees, particularly the Black Thorn, and on Basaltic rocks at Holy Island, N. β on stones near Gainford, D.—Rev. J. Harriman.
3. *B. furfuracea*.
Ach. Syn. 222; Berwick Flora, ii. 79; *Lichen furfuraceus*, Eng. Bot. 984.
On the walls of Conset and Wakerley Park, and in the neighbourhood of Eglestone, also at Water Gate near Healy Field, D. Near Harbottle, and on Cheviot, Hedgehope, and Simonside, N. In Chillingham Park, and near Rawse Castle, N.—Dr. G. Johnston.

69. CETRARIA.

1. *C. juniperina*, β *pinastri*.
Ach. Syn. 226; *Lichen pinastri*, Eng. Bot. 2111; *L. juniperinus*, Lightfoot, 836.
On the juniper near the High Force, on the south side of the Tees.—Rev. J. Harriman.
Never found in fructification.
2. *C. glauca*.
Ach. Syn. 227; Berwick Flora, ii. 77; *Lichen glaucus*, Eng. Bot. 1606; Lightfoot, 833.
On rocks and stones among moss in Sub-alpine situations, N. and D. Near Heddon-on-the-Wall, N.
3. *C. islandica*.
Ach. Syn. 229; Berwick Flora, ii. 76; *Lichen islandicus*, Eng. Bot. 1330.
On Gateshead, Whickham, and Muggleswick Fells,

also on the moors in Teesdale and Weardale, D. On Cheviot, Hedgehope, Simonside, and the Wallington Moors, N. On Murton Crags, and the moors west of Belford, N.—Thompson's Berwick Plants.

70. STRICTA.

1. *S. pulmonacea*.
Ach. Syn. 233; Berwick Flora, 75; *Lichen pulmonarius*, Eng. Bot. 572; Lightfoot, 831.
On trees near Unthank and Rothbury, also at the foot of Cheviot above Langley Ford, N. On trees and rocks at Blackston Bank Wood near Wolsingham, also near Eglestone and Middleton-in-Teesdale, D. On trees between Healey Field and Allansford, D.—Mr. J. Thornhill.
2. *S. scrobiculata*.
Ach. Syn. 234; Berwick Flora, ii. 275; *Lichen scrobiculatus*, Eng. Bot. 497; Lightfoot, 850; *L. verrucosus*, Hudson, 545.
At the foot of Cheviot above Langley Ford, N. On rocks at Rawse Castle above Chillingham, and in woods above Renton Inn, N.—Dr. G. Johnston.
On trees and stones in Shipley Wood near Eglestone, also near the High Force, Teesdale, and on the banks of Wakerley Bourn, near Wolsingham, D.
3. *S. limbata*.
Ach. Syn. 236; *Lichen limbatus*, Eng. Bot. 1104; Hook. Fl. Scot. ii. 59.
On rocks among moss near Eglestone, D. At the foot of Cheviot above Langley Ford, N.
4. *S. sylvatica*.
Ach. Syn. 236; *Lichen sylvaticus*, Eng. Bot. 2298; Lightfoot, 848.
On rocks among moss in Cawsey, Eglestone, and Blackstone Bank Woods, D. At the foot of Cheviot above Langley Ford, and in East Common Wood, N.

71. PELTIDEA.

1. *P. horizontalis*.
Ach. Syn. 238; *Lichen horizontalis*, Eng. Bot. 888; Lightfoot, 849.
On Gunnerton Crags, and at the foot of Cheviot above Langley Ford, N. On stones among moss in Hag-crag Wood in Teesdale Forest, and in the neighbourhood of Healy Field, D.
2. *P. apthasa*.
Ach. Syn. 238; *Lichen apthosus*, Eng. Bot. 1119; Lightfoot, 847.
At the foot of Cheviot above Langley Ford, and on Gunnerton Crags, also on rocks at Shewing Shields, where it was noticed by Wallis, N. On stones among moss in Hag-crag Wood in Teesdale Forest, D. In Holwick.—Rev. J. Harriman.
3. *P. canina*.
Ach. Syn. 239; Berwick Flora, ii. 73; *Lichen caninus*, Eng. Bot. 2299.
On earth and stones, common.
4. *P. rufescens*.
Northumberland and Durham Guide, ii. 61; Berwick Flora, ii. 74; *Lichen rufescens*, Eng. Bot. 2300; *Peltidea canina γ crista*, Ach. Syn. 329.
On Gunnerton Crags near Barwesford, and at Shewing-shields, N. In Teesdale, and the neighbourhood of Healey Field, D.

5. *P. polydactyla*.
Ach. Syn. 240; Hook. Fl. Scot. ii. 61; *Lichen caninus* γ, Lightfoot, 846.
On the earth among moss in woods near Eglestone, and on the banks of the Derwent near Gibside, D.
6. *P. spuria*.
Ach. Meth. 283, t. 5, f. 2; Berwick Flora, ii. 74;
P. canina, Ach. Syn. 239; *Lichen spurius*, Eng. Bot. 1542.
On the sea banks at Hudshead, N.—Dr. G. Johnston. Acharius appears now to consider *P. spuria* not even a variety of *P. canina*. *P. rufescens*, of Smith, is his variety γ, and probably *P. polydactyla* might be enumerated as another variety. Lightfoot at least considered it as such.

72. NEPHROMA.

1. *N. resupinata*.
Ach. Syn. 241; Berwick Flora, ii. 75; *Lichen resupinatus*, Eng. Bot. 305; *Peltidea resupinata*, Northumberland and Durham Guide, ii. 62.
On stones among moss at Healey Field, Beamish, Urpeth, and in Cawsey Wood, also in woods near Eglestone, D. At the foot of Cheviot above Langley Ford, and in Dilston Park and East Common Wood, N.

73. EVERNEA.

1. *E. prunastri*.
Ach. Syn. 245; Berwick Flora, ii. 89; *Lichen prunastri*, Eng. Bot. 859.
On trees, common. In fructification in Gibside Woods, D. At Wallington, N.—Miss Emma Trevelyan.

74. CENOMYCE.

1. *C. papillaria*.
Ach. Syn. 248; *Bacomyces papillaria*, Northumberland and Durham Guide, ii. 64; *Lichen papillaria*, Eng. Bot. 907.
Upon moors near Ravensworth, Butsfield, the Woodlands, and Eglestone, D. On Cheviot, Hedgehope, and the Wallington Moors, N.
2. *C. caespititia*.
Ach. Syn. 249; *Lichen caespititius*, Eng. Bot. 1796.
On earth upon a stone wall in Heaton Dene above Hadrick's Mill, N.
3. *C. alcornis*.
Ach. Syn. 250; *Lichen alcornis*, Eng. Bot. 1392; Lightfoot, 872.
On moors and mountains, N. and D.
4. *C. cervicornis*.
Ach. Syn. 251; *Lichen cervicornis*, Eng. Bot. 2574; Hook. Fl. Scot. ii. 62.
On moors and mountains, N. and D. Near the Roman aqueduct at Butsfield, D.
5. *C. pixidata*.
Ach. Syn. 252; Berwick Flora, ii. 97; *Lichen pixidatus*, Eng. Bot. 1393.
In dunes and on moors, common.
6. *C. pocillum*.
Ach. Syn. 253; *Bacomyces pocillum*, Northumberland and Durham Guide, ii. 65.
Upon Cronkley Fell in Teesdale.—Rev. J. Hariman.
7. *C. fimbriata*.
Ach. Syn. 254; Berwick Flora, ii. 97; *Lichen fimbriatus*, Eng. Bot. 2438.

- β *L. cornutus*, Eng. Bot. 1836.
γ *L. radiatus*, Eng. Bot. 1835.
On earth in mountainous situations, N. and D.
8. *C. gonorega*, β *anomala*.
Ach. Syn. 258; *Lichen anomæus*, Eng. Bot. 1867.
On high moors, N. and D.
9. *C. ecmocyna*, α *gracilis*.
Ach. Syn. 261; Berwick Flora, ii. 96; *Lichen gracilis*, Eng. Bot. 1284.
β *hybrida*, Ach. Syn. 262.
On sub-alpine moors, N. and D.
10. *C. bacillaris*.
Ach. Syn. 266; *Lichen filiformis*, Eng. Bot. 2028;
L. tubiformis, Lightfoot, 871.
In sub-alpine dunes and on moors, N. and D.
11. *C. digitata*.
Ach. Syn. 267; Berwick Flora, ii. 96; *Lichen digitatus*, Eng. Bot. 2439; Lightfoot, 874.
On moors, frequent.
12. *C. deformis*.
Ach. Syn. 268; *Lichen deformis*, Eng. Bot. 1394; Lightfoot, 876.
In sub-alpine dunes and on moors, N. and D.
13. *C. coccifera*.
Ach. Syn. 269; Berwick Flora, ii. 96; *Lichen cocciferus*, Eng. Bot. 2051.
β *L. cornucopioides*, Lightfoot, 868.
α and β On moors and heaths, frequent.
14. *C. bellidiflora*.
Ach. Syn. 270; Berwick Flora, ii. 96; *Lichen bellidiflorus*, Eng. Bot. 1894.
At Prestwick Carr, on Hexham and Dilston Fells, and on Cheviot, N. On the Teesdale and Wear-dale Moors, D.
Probably a variety of *C. coccifera*.
15. *C. cenotea*.
Ach. Syn. 271; *Bacomyces cenoteus*, Northumberland and Durham Guide, ii. 63; Ach. Hist. 345, t. 7, f. 7.
On the moors near Edmondbyers, D.
16. *C. sparassia*.
Ach. Syn. 273; *Lichen sparassus*, Eng. Bot. 2362;
L. ventricosus, Lightfoot, 275.
In sub-alpine dunes, N. and D.
17. *C. delicata*.
Ach. Syn. 274; *Lichen delicatus*, Eng. Bot. 2052.
On moors near Lanchester, D. In Dilston Park and on Cheviot, N.
18. *C. racemosa*.
Ach. Syn. 275; *Lichen spinosus*, Lightfoot, 882; Hudson, 459; *Bacomyces spinosus*, Northumberland and Durham Guide, ii. 66.
On walls near Lanchester, D. On Hexham and Dilston Fells, N.
19. *C. furcata*.
Ach. Syn. 276; *Lichen furcatus*, Hudson, 458.
β *subulata*. *Bacomyces subulata*, Northumberland and Durham Guide, ii. 66.
α and β On moors near Eglestone, and in the vicinity of the Roman aqueduct at Butsfield, D. On Hexham and Dilston Fells, N.
20. *C. uncialis*.
Ach. Syn. 276; Berwick Flora, ii. 95; *Lichen uncialis*, Eng. Bot. 174.
β *adunca*, Dill. Musc. t. 16, f. 21, A. B.
α On heaths, common. β on Cheviot and the Teesdale Moors, N. and D.

21. *C. rangeferina*.
Ach. Syn. 277; Berwick Flora, ii. 93; *Lichen rangeferinus*, Eng. Bot. 173.

♂ *pungens*.

α On moors and heaths, abundant. ♂ on Hexham and Dilston Fells, N.

75. BEOMYCES.

1. *B. roseus*.
Ach. Syn. 280; *Lichen ericetorum*, Eng. Bot. 372; Lightfoot, 809.
On earth, in mountainous situations.
2. *B. rufus*.
Ach. Syn. 280; Berwick Flora, ii. 98; *Lichen rufus*, Hudson, 527; *B. rupestris*, Northumberland and Durham Guide, ii. 64; *Lichen Byssoides*, Eng. Bot. 372; Lightfoot, 809.
On earth and stones in denes and on moors, N. and D. In Scotswood and Heaton Denes, and on the Roman station at Caervoran, N. In Twizell Dene, N.—Mrs. Selby.
3. *B. placophyllus*.
Ach. Syn. 281; Northumberland and Durham Guide, ii. 64.
On the moors about Eglestone, D., rare.—Rev. J. Harriman.

76. ISIDIUM.

1. *I. corallinum*.
Ach. Syn. 281; Berwick Flora, ii. 98; *Lichen corallinus*, Eng. Bot. 1541.
β *dealbatum*, *Variolaria dealbata*, Eng. Bot. 2519.
α On rocks and stones in mountainous situations, N. and D. On the Roman wall at Housesteads, N. On Murton Crags, N.—Dr. G. Johnston. β on the Teesdale Moors, D.
2. *I. Westringii*.
Ach. Syn. 282; *Lichen Westringii*, Eng. Bot. 2204; Dicks. Crypt. Fasc. iv. 20.
On stone walls in Teesdale Forest, and in Weardale, D. In Allendale, and on the Roman wall at Housesteads, N. In Holwick.—Rev. J. Harriman.
3. *I. microsticticum*.
Hook. Fl. Scot. ii. 66; *Lichen microsticticus*, Eng. Bot. 2243; *I. punctatus*, Dicks. Crypt. Fasc. iii. 15.
On walls in Teesdale Forest, D.
4. *I. phymatodes*.
Ach. Syn. 282; Northumberland and Durham Guide, ii. 47.
In Newton-cap Wood, and in the Bishop's park at Bishop Auckland, D.—Rev. J. Harriman.

77. STEREOCAULON.

1. *S. paschale*.
Ach. Syn. 284; Hook. Fl. Scot. ii. 66; *Lichen paschale*, Eng. Bot. 232.
On rocks and stones in sub-alpine situations.
2. *S. condyloideum*.
Ach. Syn. 285.
On the Roman wall at Housesteads, N. In the north-west of the county of Durham.—Mr. John Thornhill.
3. *S. cercolinum*.
Ach. Syn. 285; *S. Cereolus*, Eng. Bot. t. 2667; *Lichen Vulcani*, Bory, Voy. ii. 147.
On Basaltic rocks and stones near Eglestone, D.—

Rev. John Harriman. On the Roman Wall at Walltown, and east of Housesteads, N.

4. *S. nanum*.

Ach. Syn. 285.

On rocks and stones in Teesdale Forest, D.—Rev. John Harriman.

78. SPHÆROPHORON.

1. *S. coralloides*.
Ach. Syn. 287; Berwick Flora, ii. 97; *Lichen globiferus*, Eng. Bot. 115; Lightfoot, 837.
On the Teesdale and Weardale Moors, D. On Cheviot, Simonside, Hedgehope, and on the Roman wall at Housesteads, also on Gunnerton Crags, and near Harbottle and Heddon-on-the-Wall, N.
2. *S. fragile*.
Ach. Syn. 287; Berwick Flora, ii. 97; *Lichen fragilis*, Lightfoot, 838; Eng. Bot. 2474.
On Cheviot, Hedgehope, Simonside, and the Harbottle Moors, N. On the Weardale and Teesdale Moors, D.
Probably a variety of *S. globiferus*.
3. *S. compressum*.
Ach. Syn. 287; Hook. Fl. Scot. ii. 67; *Lichen fragilis*, Eng. Bot. 114.
On rocks at Eglestone, Knitsley, and Muggleswick, D. On Shaftoe Crags, Harbottle Moor, and Gunnerton Crags near Barwesford, also on Cheviot, Hedgehope, and Simonside, N.

79. ALECTORA.

1. *A. jubata*.
Ach. Syn. 291; Berwick Flora, ii. 92; *Lichen jubatus*, Lightfoot, 891; Eng. Bot. 1830; *Parmelia jubata*, Northumberland and Durham Guide, ii. 60.
β *chalybeiformis*.
α On Gunnerton Crags and rocks at Harlow Hill, near Rothbury, on Cheviot and Simonside, also at Shewing-shields, where it was observed by Wallis, N. On Murton Crags, at Rawse Castle and Hepburn Hill near Chillingham, N.—Dr. G. Johnston. Upon the common heath, and on rocks and trees near Eglestone, D. β on trees in Charnberry near Eglestone, D. α on Gateshead Fell, D.—Mr. J. Thornhill.

80. RAMALINA.

1. *R. polymorpha*.
Ach. Syn. 295; *Parmelia polymorpha*, Northumberland and Durham Guide, ii. 60.
On rocks and stones in the neighbourhood of Eglestone, D.—Rev. J. Harriman.
2. *R. fraxinea*.
Ach. Syn. 296; Berwick Flora, ii. 90; *Lichen fraxineus*, Eng. Bot. 1781.
On trees, common.
3. *R. fastigiata*.
Ach. Syn. 296; Berwick Flora, ii. 91; *Lichen fastigiatus*, Eng. Bot. 890.
On trees and pales, frequent.
4. *R. scopulorum*.
Ach. Syn. 297; Hook. Fl. Scot. ii. 68; Gr. Fl. Eds. 348; Berwick Flora, ii. 90; *Lichen scopulorum*, Eng. Bot. 688; β *siliquosus*, With. iv. 40.
On rocks near the sea coast at Newbiggen, Dunstanborough, and Bamborough Castles, on the Heugh and St. Cuthbert's Island, Holy Island, also on the

- Staples and Fern Islands, N. At Hudshead.—
Dr. G. Johnston. On Hartley Bates, N.—Mr.
J. Thornhill. β on the top of a wall in Lune.—
Rev. J. Harriman.
5. *R. farinacea*.
Ach. Syn. 297; Berwick Flora, ii. 91; *Lichen farinaceus*, Eng. Bot. 889.
On trees, common.
6. *R. pollinaria*.
Ach. Syn. 298; *Lichen pollinarius*, Eng. Bot. 1607;
Parmelia pollinaria, Northumberland and Durham Guide, ii. 60.
On old pales and rocks in Teesdale, D.—Rev. J. Harriman.

81. CORNICULARIA.

1. *C. tristis*.
Ach. Syn. 299; Berwick Flora, ii. 92; *Lichen tristis*, Eng. Bot. 720; *L. corniculatus*, Lightfoot, 855.
On Cheviot, Hedgehope, and Simonside, N. On rocks near Blackton not far from Eglestone, also in the neighbourhood of Middleton-in-Teesdale, D. On Cronkley Fell, D.—Rev. J. Harriman.
2. *C. aculeata*.
Ach. Syn. 299; β *spadicea*, Berwick Flora, ii. 91; *Lichen hispidus*, Eng. Bot. 452; Lightfoot, 883; δ *muricata*, L. *muricatus*, Swartz. Nov. Act. Ups. v. 248.
On Simonside and at Prestwick Carr, N. On Gateshead and Ravensworth Fells, D. In sub-alpine situations, not rare, D. and N.
3. *C. ochroleuca*.
Ach. Syn. 301; Hook. Fl. Scot. ii. 69; *Lichen ochroleucus*, Eng. Bot. 2374.
On Eglestone Moors, D., rare.—Rev. J. Harriman.
4. *C. lanata*.
Ach. Syn. 302; *Lichen lanatus*, Eng. Bot. 846; Lightfoot, 892.
On stones upon the Teesdale Moors, D. On Cheviot, Simonside, and Hedgehope, N.

82. USNEA.

1. *U. florida*.
Ach. Syn. 304; *Lichen floridus*, Eng. Bot. 872; β *L. hirtus*, Eng. Bot. 1356; *Usnea plicata* β , Ach. Syn. 305.
In fructification in Gibside Woods, D. On trees in woods, not rare, N. and D.
2. *U. plicata*.
Ach. Syn. 305; *U. hirta*, Berwick Flora, ii. 93; *Lichen plicatus*, Eng. Bot. 257; Lightfoot, 889.
Upon trees on the banks of Waskerley Bourn near Wolsingham, D.

83. COLLEMA.

1. *C. nigrum*.
Ach. Syn. 308; Berwick Flora, ii. 78; *Lichen niger*, Eng. Bot. 1161; *Lecidea nigra*, Northumberland and Durham Guide, ii. 41.
Upon rocks on Cleadon and Boldon Hills, on Gateshead Fell, and near Eglestone, D. In Scotswood and Heaton Denes, and near Heddon-on-the-Wall, N. In the Quarry at Hudshead, N.; and near the Old Castle, Berwick.—Dr. G. Johnston.

2. *C. crispum*.
Ach. Syn. 311; Berwick Flora, ii. 77; *Lichen crispus*, Eng. Bot. 834; β *cristatum*, Ach. Syn. 312.
 α and β On the ground in the neighbourhood of Eglestone; β on Cleadon and Boldon Hills, D. Near Berwick, and in Dilston Park, also near Ridley Hall, N.
3. *C. melanum*.
Ach. Syn. 315; Northumberland and Durham Guide, ii. 59; Hook. Fl. Scot. ii. 71; Berwick Flora, ii. 78.
On stones about Eglestone, D. On Sandstone walls near Berwick, N.—Dr. G. Johnston.
4. *C. fuscicularc*.
Ach. Syn. 317; *Lichen fuscicularis*, Eng. Bot. 1162; Lightfoot, 841.
On Calcareous stones near Middleton-in-Teesdale, and Wycliffe, D. On stone walls near Hexham, N.
5. *C. saturinum*.
Ach. Meth. 320; *Lichen saturinus*, Eng. Bot. 1980; Dicks. Crypt. Fasc. ii. 21, t. 6, f. 8.
On trees in Horsley Hope Dene, and on trees and stones near Eglestone, D. On stones near Hexham, and above Langley Ford at the foot of Cheviot, N.
6. *C. flaccidum*.
Ach. Syn. 322; *Lichen flaccidus*, Eng. Bot. 1653; *L. rupestris*, Swartz. Nor. Act. Ups. iv. 249.
On stones in a rivulet in Holwick.—Rev. J. Harriman. On rocks in Wooler Water above Langley Ford, N.
7. *C. tuniforme*.
Ach. Syn. 322; *Parmelia tuniformis*, Northumberland and Durham Guide, ii. 58.
On Limestone rocks about Eglestone and Middleton-in-Teesdale.—Rev. J. Harriman. Near Wycliffe, D.
8. *C. furvum*.
Ach. Syn. 323; *Lichen granulatus*, Eng. Bot. 1757.
On trees in the neighbourhood of Eglestone, D.—Rev. J. Harriman. In East Common Wood and Dilston Park, N.
9. *C. scotinum*.
Ach. Syn. 323; β *sinuatum*, *Lichen sinuatus*, Eng. Bot. 772; *Parmelia scotino*, Northumberland and Durham Guide, ii. 53.
 α and β On the ground and on stones about Eglestone, D.—Rev. J. Harriman. In Dilston Park, N.
10. *C. lacrum*.
Ach. Syn. 327; *Lichen lacer*, Eng. Bot. 1982; *L. tremelloides*, Lightfoot, 842.
Among moss in Cocken, Cawsey, the Howns, Gibside, and Ravensworth Woods, and on Lanchester and Cronkley Fells, D. In Dilston Park and above Langley Ford, also in the Felton Woods, N.
11. *C. muscicola*.
Ach. Syn. 328; Hook. Fl. Scot. ii. 72; *Lichen muscicola*, Eng. Bot. 2264.
On Cheviot and Simonside, N. Upon the Hag Crag in Teesdale Forest, D. Near Muggleswick, D.—Mr. J. Thornhill.
12. *C. spongiosum*.
Ach. Syn. 329; *Lichen spongiosus*, Eng. Bot. 1374; *Parmelia spongiosa*, Northumberland and Durham Guide, ii. 53.

On Lanchester Fell upon earth, D. On Eglestone and Teesdale Moors, and near the Smelt Mill in Harewood, D.—Rev. J. Harriman.

84. LEPRARIA.

1. *L. chlorina*.
Ach. Syn. 329; Eng. Bot. 2038.
On rocks and old walls.
2. *L. flava*.
Ach. Syn. 330; Eng. Bot. 1350; Berwick Flora, ii. 103; *Byssus candclarius*, Lightfoot, 1005.
On trees and old pales, common.
3. *L. Jolithus*.
Hook. Fl. Scot. ii. 73; Eng. Bot. 2471; *L. rubens*, Ach. Meth. 6.
On rocks and trees in Teesdale, and in woods on the Derwent, also in Cawsey Wood, D. In East Common Wood near Hexham, N.
Not rare in sub-alpine situations. It has the scent of violets, but faint.
4. *L. aruginosa*.
Hook. Fl. Scot. ii. 73; Eng. Bot. 2182; *Conserva pulveria*, Dillwyn, p. 78.
On old stone walls in damp places.
5. *L. latebrarum*.
Ach. Syn. 331; Eng. Bot. 2147; Hook. Fl. Scot. ii. 73; Berwick Flora, ii. 103.
On rocks in shady situations, and in caverns.
6. *L. nigra*.
Eng. Bot. 2409; Hook. Fl. Scot. ii. 73.
On old oak posts, pales, &c.
7. *L. ? alba*.
Eng. Bot. 1349; *Byssus lactea*, Hudson, 669; Berwick Flora, ii. 104.
Upon mosses and the bark of trees, frequent.
8. *L. lutescens*.
Eng. Bot. 1529; Ach. Meth. 5.
On the bark of old trees, common.
9. *L. ochracea*.
Eng. Bot. 2408.
On the bark of trees in woods.
10. *L. virscens*.
Eng. Bot. 2149.
On the bark of trees in woods, particularly Elms, not rare.

HYPOXYLA.

85. RHIZOMORPHA.

1. *R. subcorticalis*.
Gr. Fl. Eds. 354; Ach. Syn. 283; Berwick Flora, ii. 143; Persoon, Syn. 704; *R. patens*, Northumberland and Durham Guide, ii. 111; Sowerby, t. 392, f. 1, 2.
Between the wood and bark of Fir and other trees not rare; in Bradley Wood, at Cleadon, and near Eglestone, D. In Scotswood, Walbottle, and Heaton Denes, also near Wallington, N.
2. *R. divergens*.
Gr. Crypt. t. 154; Berwick Flora, ii. 143; *Clavaria phosphorea*, Sowerby, t. 100.?
Between the wood and bark of Fir trees, not rare.
3. *R. farinacea*.
Gr. Fl. Eds. 354.
On decayed stumps of trees in Heaton and Scotswood Denes, N. In Gibside and Ravensworth Woods, D.

4. *R. scitiformis*.

Persoon, Syn. 705; Berwick Flora, ii. 143; *Hypoxylon loculiferum*, Bull. 195, f. 1, A. B.; *Sphæria hypotrichoides*, Sowerby, t. 200; Dill. 76, t. 13, f. A. B.

On dead wood and leaves, also in cellars.

5. *R. spinosa*.

Ach. Syn. 283; Sowerby, t. 299; Northumberland and Durham Guide, ii. 110.

On timber in the Weardale, Allendale, and Nenthead Lead Mines, D. and N. In the Charnberry Lead Mine, Teesdale, D.—Rev. J. Harriman.

6. *R. dichotoma*.

Ach. Syn. 289; Sowerby, t. 298; Northumberland and Durham Guide, ii. 110.

On timber in the Weardale and Derwent Lead Mines, D. In the Charnberry Lead Mine in Teesdale, D.—Rev. J. Harriman. In the Nenthead and Allenheads Lead Mines, N.

7. *R. Harrimanni*.

Sowerby, t. 431, f. 1.

In the lead mines of Northumberland and Durham, growing on timber beginning to decay.

86. SPHÆRIA.

1. *S. hypoxylon*.

Persoon, Syn. 5; Sowerby, t. 55; Berwick Flora, ii. 117; Bolton, t. 129, b, c, i, e, f; *Xylaria hypoxylon*, Gr. Fl. Eds. 355.

β *S. cupressiformis*, Persoon, Syn. 5; *Clavaria cupressiformis*, With. iv. 441; Bolton, 129, g. α and β On the stumps of decayed trees and gateposts, common.

2. *S. digitata*.

Persoon, Syn. 6; *Xylaria digitata*, Gr. Fl. Eds. 355.

On the stumps of trees in a state of decay, N. and D.

3. *S. polymorpha*.

Gr. Crypt. t. 237; Persoon, Syn. 7; *S. digitata*, Sowerby, t. 69; Bolton, t. 129, h; *Xylaria polymorpha*, Gr. Fl. Eds. 355.

On the rotten stumps of trees, frequent.

4. *S. concentrica*.

Bolt. t. 180; Persoon, Syn. 8, t. 1, f. 34; *S. fraxinea*, Sowerby, t. 160; With. iv. 467; *Hypoxylon concentricum*, Gr. Crypt. t. 324, f. 1.

On the trunks of trees, frequent.

5. *S. fragiformis*.

Gr. Syn. 24; Persoon, Syn. 9, t. 1, f. 1, 2; Berwick Flora, ii. 121; *S. lycoperdoides*, With. iv. 466; *Lycoperdon variolosum*, Sowerby, t. 271; *Stromatosphæria fragiformis*, var. *lævis*, Gr. Crypt. t. 136. On dead branches of the Birch, &c.

6. *S. elliptica*.

Gr. Syn. 23; *Stromatosphæria elliptica*, Gr. Fl. Eds. 357; Crypt. t. 114.

On the branches of the Birch in a state of decay.

7. *S. granulosa*.

Sowerby, t. 355; Persoon, Syn. 11; Northumberland and Durham Guide, ii. 109; *Hypoxylon granulatum*, Bull. t. 487, f. 2.

On the bark of the Birch, common.

8. *S. mannosa*.

With. iv. 466; Purton, t. 22; Northumberland and Durham Guide, ii. 108; Fl. Dan. 1079.

In East Common Wood and Dilston Park on the

- bark of dead trees, N. Near Darlington, D.—Mr. E. Robson.
9. *S. rugosa*.
With. iv. 467; Purton, iii. 487; Bolton, t. 123, f. 3.
In East Common Wood and Dilston Park, N.
10. *S. spermaides*.
Persoon, Syn. 75; Gr. Syn. 22; Crypt. t. 6;
Berwick Flora, ii. 125; *S. aggregata*, With. iv.
469; *S. bombardica*, Bolton, t. 122, f. 2; Sowerby, t. 372, f. 4.
On stumps of Ash trees in a state of decay, N. and D.
Near Berwick.—Dr. G. Johnston.
11. *S. gelatinosa*.
Spreng. Syst. Veg. iv. 385; Berwick Flora, ii.
121; *S. pallida*, Persoon, Syn. 12.
On dead branches of trees in the plantation at Murton Crag, near Berwick.—Dr. G. Johnston.
12. *S. fusca*.
Persoon, Syn. 12; Berwick Flora, ii. 121; *S. tuberculosa*, Bolton, t. 123, f. 1; Sowerby, 374, f. 8; With. iv. 467; Northumberland and Durham Guide, ii. 108.
On dead sticks in Heaton and Walbottle Denes, N. In Ravensworth and Gibside, D. Near Berwick.—Dr. G. Johnston.
13. *S. rebesia*.
Persoon, Syn. 14; Berwick Flora, ii. 123.
On the Red Currant, N. and D. Near Berwick.—Dr. G. Johnston.
14. *S. punctata*.
Sowerby, t. 54; *S. Poronia*, Persoon, 15; *S. truncata*, Bolton, 127, f. 2; With. iv. 414; Bull. t. 252; *Hypoxylon punctatum*, Gr. Crypt. t. 327.
On old hot-beds and dung-hills, rare.
15. *S. deustum*.
Persoon, Syn. 16; *S. maxima*, Bolton, t. 181; Sowerby, t. 338; With. iv. 467; *Hypoxylon deustum*, Gr. Crypt. t. 324, f. 2.
On the trunks of trees, not rare.
16. *S. citrina*.
Gr. Syn. 23; Crypt. t. 215; Persoon, Syn. 18;
S. ochracea, Persoon, Syn. 18.
On rotten wood and bark, not rare.
17. *S. Purtoni*.
Gr. Syn. 23; *Cucurbitaria Pinastri*, Crypt. t. 50.
On the branches of Fir trees, not rare.
18. *S. prunastri*.
Persoon, Syn. 37; Berwick Flora, 123; *Stromatospharia prunastri*, Gr. Fl. Eds. 358.
On the dead branches of the Sloe.
19. *S. elongata*.
Gr. Syn. 22; *Cucurbitaria elongata*, Crypt. t. 195.
On the branches of the common Furze, frequent.
20. *S. cinnabarina*.
Gr. Syn. 23; Berwick Flora, ii. 123; *S. decolorans*, Persoon, Syn. 49; *S. fragiformis*, With. iv. 465; *Cucurbitaria cinnabarina*, Gr. Crypt. t. 135.
On the dead branches of trees, very common, N. and D. Near Berwick.—Dr. G. Johnston.
21. *S. moriformis*.
Persoon, Syn. 86; Gr. Fl. Eds. 364; Berwick Flora, 125; *S. claviformis*, Sowerby, t. 337.
On dead Fir wood at Benwell, Gilsland, and East Common Wood, N. In Gibside Woods and at Lanchester, D. Near Berwick.—Dr. G. Johnston.
22. *S. phacomis*.
Spreng. Syst. Veg. iv. 404; Berwick Flora, 130;
Cryptospharia capillata, Gr. Fl. Eds. 362; Crypt. t. 69.
On the dead leaves of grasses. Near Berwick.—Dr. G. Johnston.
23. *S. trichella*.
Berwick Flora, 130; *Fernicularia trichella*, Gr. Crypt. t. 345; *S. phacomis*, var. Spreng. Syst. Veg. iv. 404.
On dead Ivy leaves.—Dr. G. Johnston.
24. *S. Empetri*.
Spreng. Syst. Veg. iv. 403; Berwick Flora, ii. 130; *Hypoderma sphaeroides*, Lam. and De Cand. v. 165.
On the dead leaves of *Empetrum nigrum* on the moors of N. and D.
25. *S. Stigma*.
Gr. Syn. 23; Persoon, Syn. 21; Berwick Flora, ii. 117; With. iv. 470; *S. decorticata*, Sowerby, t. 137; *Stromatospharia Stigma*, Gr. Crypt. t. 223, f. 2.
On the dead branches of trees, common, N. and D. Near Berwick.—Dr. G. Johnston.
26. *S. undulata*.
Gr. Syn. 23; Persoon, Syn. 21; Berwick Flora, ii. 118; *Stromatospharia undulata*, Gr. Fl. Eds. 356; Crypt. 223, f. 1.
On the dead branches of trees, not rare, N. and D. Near Berwick.—Dr. G. Johnston.
27. *S. disciformis*.
Gr. Syn. 23; Hook. Fl. Scot. ii. 5; Persoon, Syn. 24; Berwick Flora, ii. 121; *Stromatospharia disciformis*, Gr. Crypt. 314; Gr. Fl. Eds. 357.
On the dead branches of the Beach and other trees, N. and D. Near Berwick.—Dr. G. Johnston.
28. *S. typhina*.
Gr. Syn. 24; Persoon, Syn. 29; Berwick Flora, ii. 120; *S. spiculifera*, Sowerby, t. 274; *Stromatospharia typhina*, Gr. Crypt. t. 204.
On the culms of living grasses, not rare. About Berwick.—Dr. G. Johnston.
29. *S. flavo-virens*.
Persoon, Syn. 22; Berwick Flora, ii. 118; *Stromatospharia multiceps*, Gr. Fl. Eds. 356; *S. flavo-virens*, Crypt. t. 320; Syn. 23; *Spharia multiceps*, Sowerby, t. 394, f. 8.
On the dead branches of trees, common, N. and D. West Ord, N.—Dr. G. Johnston.
30. *S. oblonga*.
Sowerby, t. 374, f. 7; Berwick Flora, ii. 121.
In the neighbourhood of Newcastle, N. and D. Near Berwick.—Dr. G. Johnston.
31. *S. quercina*.
Spreng. Syst. Veg. iv. 389; Berwick Flora, ii. 119.
On Oak-branches, N. and D. Near Berwick.—Dr. G. Johnston.
32. *S. rosella*.
Gr. Syn. 22; Crypt. t. 138.
On rotten wood and dead leaves, not rare.
33. *S. atro-purpurea*.
Spreng. Syst. Veg. iv. 389; Berwick Flora, ii. 118; Bot. Gall. ii. 681.
On rotten wood near Berwick, rare.—Dr. G. Johnston.
34. *S. lata*.
Persoon, Syn. 29; Spreng. Syst. Veg. iv. 388; Berwick Flora, ii. 118; Gr. Fl. Eds. 357.

- On decorticated wood near Berwick.—Dr. G. Johnston. Near Newcastle, not rare, N. and D.
35. *S. myriocarpa*.
Gr. Syn. 22; Crypt. t. 152, f. 1.
On posts and wood beginning to decay.
36. *S. Coryli*.
Gr. Syn. 22; Crypt. t. 330; Berwick Flora, ii. 123.
On the leaves of the Hazel.
37. *S. rubens*.
Berwick Flora, ii. 123.
On the leaves of the Rowan tree, N. and D. Near Berwick.—Dr. G. Johnston.
38. *S. stellulata*.
Berwick Flora, ii. 122; Bot. Gall. ii. 686.
On dead branches of the Elm near Berwick.—Dr. G. Johnston.
39. *S. Hederae*.
Spreng. Syst. Veg. iv. 430; Berwick Flora, ii. 130.
On the leaves of the Ivy, N. and D. Near Berwick.—Dr. G. Johnston.
40. *S. pulchella*.
Gr. Syn. 23; *Cryptosphaeria pulchella*, Crypt. 67.
On the dead branches of the Cherry and Birch.
41. *S. Pinastri*.
Gr. Syn. 21; *S. Taxi*, Sowerby, t. 394, f. 6; *Cryptosphaeria Taxi*, Gr. Crypt. t. 13.
On the dead leaves of the Yew and Silver Fir.
42. *S. millepunctata*.
Gr. Syn. 21; Berwick Flora, ii. 124; *Cryptosphaeria millepunctata*, Gr. Crypt. t. 201.
On the dead branches of the Ash, N. and D. Near Berwick.—Dr. G. Johnston.
43. *S. multicaespula*.
Purton, ii. 716, f. 3.
On decayed wood at Ravensworth, D. Near Benwell and Hexham, N.
44. *S. Graminis*.
Persoon, Syn. 30; Spreng. Syst. Veg. iv. 391; Berwick Flora, ii. 119.
On dead Carices and Grasses, frequent, N. and D. Near Berwick.—Dr. G. Johnston.
45. *S. nebulosa*.
Persoon, Syn. 31; Berwick Flora, ii. 127; *Cryptosphaeria nebulosa*, Gr. Fl. Eds. 362.
On the dead stems of the Hemlock, frequent. Near Berwick.—Dr. G. Johnston.
46. *S. longissima*.
Persoon, Syn. 31; Berwick Flora, ii. 127.
On the dead stems of the *Cherophyllum sylvestre*, near Berwick.—Dr. G. Johnston.
47. *S. Angelicae*.
Berwick Flora, ii. 129; *S. punctiformis*, var. *Angelicae*, Lam. and De Cand. iv. 145.
On the leaves of *Angelica sylvestris*, N. and D.
48. *S. Junci*.
Spreng. Syst. Veg. iv. 391; Berwick Flora, ii. 119.
On Rushes near Berwick.—Dr. G. Johnston.
49. *S. aurea*.
Gr. Syn. 22; Crypt. t. 47.
On Fungi in a state of decay, N. and D. At Wallington, N.—W. C. Trevelyan, Esq.
50. *S. convergens*.
Persoon, Syn. 46; Sowerby, t. 374, f. 6; Berwick Flora, ii. 122.
Near Berwick, not rare.—Dr. G. Johnston.
51. *S. cubnifraga*.
Spreng. Syst. Veg. iv. 403; Berwick Flora, ii. 127.
On dead leaves of *Arundo arenaria*, N. and D. Near Berwick.—Dr. G. Johnston.
52. *S. filicina*.
Spreng. Syst. Veg. iv. 391; Berwick Flora, ii. 119; *S. Pteridis*, Sowerby, t. 394, f. 10.
On *Pteris aquilina*, common in autumn, N. and D. Near Berwick.—Dr. G. Johnston.
53. *S. scatina*.
Spreng. Syst. Veg. iv. 403; Berwick Flora, ii. 129.
On the dead leaves of the Bramble and Hawthorn near Berwick.—Dr. G. Johnston.
54. *S. nivea*.
With. iv. 464; Sowerby, t. 219; Persoon, Syn. 38.
On branches of trees, frequent.
55. *S. leucostoma*.
Persoon, Syn. 39; Berwick Flora, ii. 122.
On the branches of the Hawthorn, N. and D. Near Berwick.—Dr. G. Johnston.
56. *S. coronata*.
With. iv. 463; Purton, iii. 489; Rehlant, Ed. 2, No. 1387; *S. convergens*, Persoon, Syn. 46; Sowerby, t. 374, f. 6.
On decayed branches of trees in East Common Wood and Dilston Park, N. In Long Acre and Gibside Woods, D.
57. *S. faginea*.
Persoon, Syn. 44; Berwick Flora, ii. 120; *S. perforata*, Sowerby, 372, f. 2; *Cryptosphaeria faginea*, Gr. Fl. Eds. 359.
On Beach trees near Berwick.—Dr. G. Johnston.
58. *S. ambicens*.
Persoon, Syn. 44; Berwick Flora, ii. 122.
On the bark of the Hawthorn near Berwick.—Dr. G. Johnston.
59. *S. Laburni*.
Persoon, Syn. 50; Spreng. Syst. Veg. 395; Berwick Flora, ii. 123.
Near Berwick, on the branches of the *Laburnum*.—Dr. G. Johnston. In Falla's Nursery near Gateshead, D.
60. *S. episphearia*.
Gr. Crypt. t. 175; Persoon, Syn. 57; Lam. and De Cand. v. 142; Berwick Flora, ii. 126.
Near Berwick, frequent.—Dr. G. Johnston. Upon dead *Hypoxyla*, in woods near Newcastle.
61. *S. verrucosa*.
Gr. Fl. Eds. 364; Crypt. t. 39; Berwick Flora, 125.
Parasitic, on *Polyporus abietinus*, near Berwick.—Dr. G. Johnston.
62. *S. tubaformis*.
Gr. Syn. 21; Crypt. t. 335, f. 1; Persoon, Syn. 60.
On the dead leaves of trees.
63. *S. Gnomon*.
Gr. Syn. 21; Crypt. t. 335, f. 2; Persoon, Syn. 61; Sowerby, t. 373, f. 6.
On the dead leaves of the Hazel.
64. *S. acuta*.
Gr. Syn. 21; Sowerby, t. 119; With. iv. 463; Persoon, Syn. 62; Berwick Flora, ii. 126; *Cryptosphaeria acuta*, Gr. Crypt. t. 239, f. 1.

- On dead stems of herbaceous plants, N. and D. Near Berwick.—Dr. G. Johnston.
65. *S. setacea*.
Persoon, Syn. 62; Berwick Flora, ii. 128.
On the dead leaves of the Birch and Sycamore, N. and D. Near Berwick.—Dr. G. Johnston.
66. *S. Pesiza*.
Gr. Syn. 22; Crypt. t. 186, f. 2; *Pesiza hydrophora*, Bull. t. 410, f. 2; *Lycopodon hydrophorum*, Sowerby, t. 23.
On rotten wood, not rare.
67. *S. aquila*.
Bot. Gall. ii. 697; Berwick Flora, ii. 124; *S. Byssiseda*, Lam. and De Cand. ii. 295; Persoon, Syn. 67.
On the bark of trees in Ravensworth Woods, D. Near Berwick.—Dr. G. Johnston.
68. *S. aurantia*.
Gr. Syn. 22; Persoon, Syn. 68; *Cryptosphaeria aurantia*, Gr. Crypt. t. 78.
On decaying Fungi.
69. *S. tomentosa*.
Rehlan, 2nd Ed., No. 1382; With. iv. 464; Purton, iii. 287; *S. ovina*, Persoon, Syn. 71; *S. obducta*, Bolton, 125.
On decayed branches of trees in Scotswood Dene, N. Near Darlington, D.—Mr. E. Robson.
70. *S. calva*.
Persoon, Syn. 74; Gr. Fl. Eds. 364; Berwick Flora, ii. 128.
On dead stalks of *Senecio Jacobææ* near Berwick.—Dr. G. Johnston.
71. *S. Patella*.
Gr. Fl. Eds. 363; Persoon, Syn. 76; Berwick Flora, ii. 126; *Heterosphaeria Patella*, Gr. Crypt. t. 103.
On the dead stems of Umbelliferous plants, frequent. Near Berwick.—Dr. G. Johnston.
72. *S. conigera*.
Bot. Gall. ii. 705; Berwick Flora, ii. 126; *S. strobilina*, Hook. Fl. Scot. ii. 8.
On the dead cones of *Pinus Abies*, not rare.
73. *S. Doliolum*.
Gr. Syn. 21; Persoon, Syn. 78; Berwick Flora, ii. 127; *Cryptosphaeria Doliolum*, Gr. Crypt. t. 239, f. 2.
On the dead stems of Umbelliferous plants, N. and D. On the stems of *Angelica sylvestris*. Near Berwick.—Dr. G. Johnston.
74. *S. Herbarum*.
Persoon, Syn. 78; Hook. Fl. Scot. ii. 7; Berwick Flora, ii. 127; *Cryptosphaeria Herbarum*, Gr. Fl. Eds. 361.
On the dead stalks of Umbelliferous plants, common. N. and D.
75. *S. sanguinea*.
Gr. Syn. 22; Crypt. t. 175, f. 1; Persoon, Syn. 81; Berwick Flora, ii. 125; Bolton, t. 121, f. 1; With. iv. 464; Sowerby, t. 254; *Hypoxylon phariceum*, Bull. t. 487, f. 3.
On the branches of trees, not rare, N. and D.
76. *S. Tilia*.
Persoon, Syn. 84; Berwick Flora, ii. 124.
On dead twigs of the Sycamore in the plantations at New-water Haugh near Berwick.—Dr. G. Johnston.
77. *S. concava*.
Sowerby, t. 317; Northumberland and Durham Guide, ii. 109.
On dead leaves of the Holly, frequent, N. and D. Near Berwick.—Dr. G. Johnston.
78. *S. Pulvis-pyrus*.
Gr. Syn. 22; Crypt. t. 152, f. 2; Berwick Flora, ii. 125; Persoon, Syn. 86.
On dead wood, common. On Hazel.—Dr. G. Johnston.
79. *S. Ægopodii*.
Persoon, Syn. 89; Berwick Flora, ii. 129; *Cryptosphaeria*, Gr. Fl. Eds. 362.
On the leaves of *Ægopodium Podagraria* near Berwick.—Dr. G. Johnston.
80. *S. punctiformis*.
Persoon, Syn. 90; Berwick Flora, ii. 130.
On dead Sycamore leaves near Berwick.—Dr. G. Johnston.
81. *S. maculiformis*.
Persoon, Syn. 90; Berwick Flora, ii. 129.
On Oak, Chesnut, Beach, and other leaves in a state of decay, N. and D. Near Berwick.—Dr. G. Johnston.
82. *S. lichenoides*.
Berwick Flora, ii. 131; Lam. and De Cand. ii. 299, and iv. 147; *Xyloma lichenoides*, Lam. and De Cand. ii. 304.
On leaves of the Ash and Sycamore near Berwick.—Dr. G. Johnston.

87. DOTHIDEA.

1. *D. Ulmi*.
Gr. Syn. 20; Fries, iv. t. 200, f. 1; Berwick Flora, ii. 132.
On dead leaves of the Elm, N. and D. Near Berwick.—Dr. G. Johnston.
2. *D. betulina*.
Gr. Syn. 20; Fries, iv. t. 200, f. 2.
On the leaves of the Birch.
3. *D. Robertiani*.
Gr. Syn. 20; Crypt. t. 146, f. 1; Berwick Flora, ii. 132.
On the leaves of the *Geranium Robertianum*. Near Berwick.—Dr. G. Johnston.
4. *D. alnca*.
Gr. Syn. 20; Crypt. t. 146, f. 2; Berwick Flora, ii. 133; *Xyloma alnca*, Hook. Fl. Scot. ii. 9.
On the leaves of the Alder, N. and D. Near Berwick.—Dr. G. Johnston.
5. *D. Heraclei*.
Spreng. Syst. Veg. iv. 417; Berwick Flora, ii. 133.
On the leaves of *Heracleum Sphondylium* near Berwick.—Dr. G. Johnston.
6. *D. Alchemilla*.
Berwick Flora, ii. 133; *Asteroma Alchemilla*, Gr. Fl. Eds. 369.
On the leaves of the Lady's Mantle, frequent.

88. POLYSTIGMA.

1. *P. rubrum*.
Gr. Syn. 21; Crypt. t. 120; *Xyloma rubrum*, Berwick Flora, ii. 139; Persoon, Syn. 105; Purton, t. 33.
On the upper side of the leaves of the Sloe.

89. HYSTERIUM.

1. *H. quercinum*.
Gr. Fl. Eds. 366, f. 1; Persoon, Syn. 100; Berwick Flora, ii. 135.
On dead Oak branches, N. and D.
2. *H. pulicare*.
Gr. Syn. 18; Fl. Eds. 366; Crypt. t. 167, f. 1; Berwick Flora, ii. 136; *Lichen scriptus* β , Lightfoot, 801.
On the wood of dead trees, not rare, N. and D. On the dead stems of *Vaccinium Myrtillus* near Berwick.—Dr. G. Johnston.
3. *H. varium*.
Gr. Syn. 18; Crypt. t. 233.
On Oak trees, not rare.
4. *H. lineare*.
Gr. Syn. 18; Crypt. t. 167, f. 2; Berwick Flora, ii. 135.
On the dead wood of trees, not rare.
5. *H. Fraxini*.
Gr. Syn. 18; Crypt. t. 72; Persoon, Syn. 100; Berwick Flora, ii. 136; *Sphæria sulcata*, Bolton, t. 124; Sowerby, t. 315; With. iv. 469.
On the branches of the Ash, common, N. and D. Near Berwick.—Dr. G. Johnston.
6. *H. Rubi*.
Gr. Syn. 18; Crypt. t. 24; Persoon, Syn. 100.
On the stems of the Bramble.
7. *H. Pini*.
Persoon, Syn. xxviii; Gr. Crypt. t. 60; Fl. Eds. 367; Berwick Flora, ii. 136.
On the leaves of *Pinus sylvestris*, common.
8. *H. Juniperini*.
Gr. Fl. Eds. 367; Crypt. t. 26; Berwick Flora, ii. 136; *H. Pini* β , Gr. Syn. 18.
On the dead leaves of the Juniper, frequent.
9. *H. melaleucum*.
Gr. Syn. 18; Crypt. t. 88.
On the dead leaves of the Red Whortle-berry, on the edges of the moors.
10. *H. conigerum*.
Persoon, Syn. 102; Berwick Flora, ii. 136; *Sphæria strobilina*, Spreng. Syst. Veg. v. 405.
On the cones of *Pinus Abies*, N. and D. Near Berwick.—Dr. G. Johnston.
11. *H. culmigerum*.
Gr. Syn. 18; *H. graminum*, Crypt. t. 87; Fl. Eds. 367; Berwick Flora, ii. 136.
On dead stems and leaves of grasses, common.
12. *H. maculare*.
Gr. Syn. 18; Crypt. t. 129, f. 2.
On the dead leaves of trees.
13. *H. foliolum*.
Gr. Syn. 18; β *Hedera*, Fries. iii. t. 129, f. 1.
On the dead leaves of the Ivy.

90. PHACIDIUM.

1. *P. Vaccinii*.
Spreng. Syst. Veg. iv. 411; Berwick Flora, ii. 134.
On the decayed leaves of *Vaccinium Myrtillus* near Berwick.—Dr. G. Johnston.
2. *P. repandum*.
Spreng. Syst. Veg. iv. 411; Berwick Flora, ii. 134; *Xyloma herbarum*, Lam. and De Cand. iv. 161.
On the living leaves of *Sherardia arvensis*.—Dr. G. Johnston.

3. *P. coronatum*.

- Gr. Fl. Eds. 366; Crypt. t. 52; Berwick Flora, ii. 133; *Xyloma Pezizoides*, Persoon, Syn. 105; *Peziza comitalis*, Sowerby, t. 113; *P. viridis*, Bolton, t. 109, f. 1.
On dead leaves of the Beach and Oak, N. and D. Near Berwick.—Dr. G. Johnston.

91. RHYSTISMA.

1. *R. acerinum*.
Gr. Syn. 19; Berwick Flora, ii. 135; *Xyloma acerinum*, Persoon, Syn. 104; Gr. Crypt. t. 118, f. 1; *Mucor granulosus*, Bull. t. 504, f. 13.
On the leaves of the Sycamore, common, N. and D.
2. *R. salicinum*.
Gr. Syn. 19; Berwick Flora, ii. 134; *Xyloma salicinum*, Persoon, Syn. 106; Lam. and De Cand. ii. 304; Gr. Crypt. t. 118, f. 2.
On the leaves of *Salix caprea* near Berwick.—Dr. G. Johnston.

92. STILBOSPHORA.

1. *S. biloculata*.
Gr. Fl. Eds. 366; Berwick Flora, ii. 192.
On the Furze. Near Berwick.—Dr. G. Johnston.
2. *S. microsperma*.
Gr. Fl. Eds. 366; Persoon, Syn. 96; Berwick Flora, ii. 192.
On dead branches of the Willow.—Dr. G. Johnston.
3. *S. conglomerata*.
Berwick Flora, ii. 192; *Melanconium conglomeratum*, Bot. Gall. ii. 384; Link. in Willd. vi. 2, 92.
On branches of the Willow.—Dr. G. Johnston.
4. *S. betulina*.
Berwick Flora, ii. 192; *Didymosporum betulinum*, Gr. Fl. Eds. 366.
On dead branches of Beach and Willow.—Dr. G. Johnston.

93. EXCIPULA.

1. *E. Rubi*.
Gr. Syn. 18; Crypt. t. 334.
On the dead stems of the Raspberry.

94. CYTISPORA.

1. *C. leucosperma*.
Gr. Syn. 17; *Næmaspora Rosarum*, Fries. i. t. 20.
On the dead branches of Briars, not rare.

95. SEPTORIA.

1. *S. Ulmi*.
Gr. Syn. 17; Crypt. t. 112; Berwick Flora, ii. 192.
On the inferior surface of Elm leaves.—Dr. G. Johnston.

96. CEUTHOSPORA.

1. *C. phacidioides*.
Gr. Syn. 17; Crypt. t. 253; Berwick Flora, ii. 141; *Sphæria bifrons*, Sowerby, t. 316.
On the dead leaves of the Holly, not rare, N. and D. Near Berwick.—Dr. G. Johnston.
2. *C. Lauri*.
Gr. Syn. 17; Crypt. t. 254; *Sphæria Lauri*, Sowerby, t. 371, f. 4.
On the dead leaves of *Laurus nobilis*, not rare.

3. *C. phacomæ*.
Gr. Syn. 17; *Cryptosphaeria capillata*, Crypt. t. 69.
On the dead leaves of *Haleus mollis*.

97. ACTINOTHYRIUM.

1. *A. Graminis*.
Gr. Syn. 16; Crypt. t. 218.
On the leaves and stems of grasses.—W. C. Trevelyan, Esq.

98. PHOMA.

1. *P. solignum*.
Bot. Gall. ii. 726; *Xyloma salignum*, Persoon, Syn. 106; Gr. Fl. Eds. 368; Berwick Flora, ii. 139.
On the leaves of *Salix caprea* and *S. aurita*, in a state of decay.

99. XYLOMA.

1. *X. concavum*.
Gr. Fl. Eds. 368; Berwick Flora, ii. 139; *Sphaeria concava*, Sowerby, t. 317; *Eustegia Ilidis*, Bot. Gall. ii. 717.
On dead Holly leaves.
2. *X. Geranii*.
Gr. Fl. Eds. 368; Berwick Flora, ii. 140.
On the leaves of *Geranium sylvaticum* and *G. pratense*.
3. *X. Rosa*.
Bot. Gall. ii. 876; Berwick Flora, ii. 140.
On the branches of native Roses.
4. *X. Spiraea*.
Berwick Flora, ii. 140; *Septostroma Spiraea*, Bot. Gall. ii. 726.
On dead stalks of the Meadow Sweet.

FUNGI.

100. AMANITA.

1. *A. muscaria*.
Gr. Crypt. t. 54; *Agaricus muscarius*, Berwick Flora, ii. 169; With. iv. 234; Sowerby, t. 286; *A. nobilis*, Bolton, t. 46.
In East Common Wood near Hexham, at Roadley near Cambo, and Wooler, N. On the borders of woods in the county of Durham, not rare.

101. AGARICUS.

1. *A. ramcalis*.
With. iv. 201; Berwick Flora, ii. 173; Persoon, Syn. 375; Bull. t. 336; *A. candidus*, Bolton, t. 39, D.
On dead sticks in woods, frequent.
2. *A. chureus*.
With. iv. 201; Gr. Fl. Eds. 371; Berwick Flora, ii. 163; *A. nitens*, With. iv. 203; Sowerby, t. 71; and *A. cossus*, 121.
In meadows, pastures, and on lawns, frequent.
3. *A. virgineus*.
Gr. Crypt. t. 166; Persoon, Syn. 456; Sowerby, t. 32; *A. nivus*, With. iv. 291; *A. ericæ*, Bull. t. 188.
In the same places as the last, of which it appears to be a variety.

4. *A. giganteus*.
With. iv. 202; Sowerby, t. 244; Gr. Fl. Eds. 375.
In woods near Lamesley, D. In East Common Wood and meadows near Wylam and Bywell, N.
5. *A. cyathiformis*.
With. iv. 202; Berwick Flora, ii. 163; Bull. t. 248, A. B.; *A. umbilicatus*, Bolton, t. 17; *A. sordidus*, With. iv. 252; Dick. Crypt. Fasc. i. t. 3, f. 1; Bolton, t. 59; *A. tardus*, Persoon, Syn. 461.
In woods and denes near Newcastle. In Howns and Bradley Woods, D.
6. *A. gilvus*.
Persoon, Syn. 448; Gr. Crypt. t. 41; *A. pilcolarius*, Bull. t. 400; Sowerby, t. 61; *A. caseus*, With. iv. 205; *A. mollis*, Bolton, t. 40; *A. cyathiformis*, Fl. Dan. t. 1011; *A. infundibuliformis*, Purton, iii. 393.
In Heaton, Scotswood, and Walbottle Denes, also in East Common Wood, N. In Gibside and Bradley Woods, D.
7. *A. risigallinus*.
Batsch. t. 62; *A. pistillaris*, With. iv. 204.
Near Medomsley, D.
8. *A. tigrinus*.
With. iv. 205; Persoon, Syn. 458; Bull. t. 70; Sowerby, t. 68.
On stumps of trees in Heaton and Scotswood Denes, also in East Common Wood, N. Near Saltwellside, Gibside, and at Healey-field, D.
9. *A. Listeri*.
With. iv. 206; Sowerby, t. 245; Berwick Flora, ii. 164; *A. plumbeus*, Persoon, Syn. 435; Gr. Fl. Eds. 374.
In Ravensworth, Gibside, and Hamsterley Woods, also near Medomsley, D. In Scotswood Dene, and among the cairn of stones at Heddon Laws, N.
10. *A. fragrans*.
With. iv. 208; Sowerby, t. 10; Persoon, Syn. 455.
Near Saltwellside and Marley Hill, D. In pastures at Benwell and Fenham, N.
11. *A. radicotus*.
With. iv. 275; Sowerby, t. 48; Gr. Crypt. t. 217; *A. longipes*, Bull. t. 232 and 515; *A. umbraculum*, With. iv. 209; Batsch. f. 4.
On the stumps of trees at Medomsley and Gibside, D. Near Benwell and Denton, also in Felton Woods, N.
12. *A. viscidus*.
Persoon, Syn. 291; *A. glutinosus*, Schaeff. t. 36, 1, 2, 3, 4; Sowerby, t. 7; *A. velatus*, With. iv. 211.
Near Heworth, Gibside, and Medomsley, D. On Newcastle Town Moor, and near Fenham and Jesmond, N.
13. *A. lamicinus*.
With. iv. 211; Schaeff. 36, 5, 6, 7.
Near Medomsley and Kibblesworth, D.
Probably a variety of the last.
14. *A. mellesus*.
Fl. Dan. t. 1013; Bolton, t. 141; Gr. Crypt. 332; With. iv. 314; *A. Polymyces*, Persoon, Syn. 269; *A. stipitis*, Sowerby, t. 101; With. iv. 241; Berwick Flora, ii. 169; *A. cumulatus*,

- With. iv. 212; *A. congregatus*, Bolton, t. 140; *A. annulatus*, Bull. t. 377 and 540, f. 3; *A. obscurus*, Schæff. t. 74; *A. fusco-pallidus*, Bolton, t. 136; *A. laricinus*, Bolton, t. 19; With. iv. 243.
- In Heaton and Scotswood Denes, N. On stumps of trees near Saltwellside, Whickham, Bradley, and in Muggleswick Park, D.
15. *A. aureus*.
With. iv. 213; Bull. t. 92; Sowerby, 77; *A. rheoides*, With. iv. 267; *A. rhabarbarinus*, Persoon, Syn. 271.
On stumps of trees in Horsley Wood, N.
16. *A. odoratus*.
With. iv. 214; Persoon, Syn. 323; Bull. t. 176 and 556, f. 3; Sowerby, t. 42; Gr. Crypt. t. 28; Lam. and De Cand. ii. 175.
On decayed leaves in Scotswood and Horsley Wood, also near Kirkwhelpington, in East Common Wood near Hexham, and at Spring Gardens near Newcastle, N. Near Medomsley, and at Cramer Dykes near Gateshead, D.
17. *A. castaneus*.
With. iv. 214; Persoon, Syn. 298; Bull. t. 268; *A. cinnamomeus*, Bolton, t. 22.
In plantations near Medomsley, Gibside, and Lamesley, D. On shady hedge banks near Benwell and Fenham, N.
18. *A. subdulcis*.
Persoon, Syn. 433; Gr. Fl. Eds. 374; *A. lactifluus*, With. iv. 216; Sowerby, t. 204.
In woods near Newcastle, frequent.
19. *A. pilosus*.
With. iv. 217; Sowerby, t. 164; Hudson, 622; *A. Hudsoni*, Persoon, Syn. 390; Lam. and De Cand. ii. 164; *A. villosus*, Bolton, t. 42, the 2d. var. of With.
α On the dead leaves of the Holly in Gibside, Ravensworth, and Hilton Woods, D. 2d var. β, in Waskerley Dene, D. In East Common and Horsley Woods, N.
20. *A. laccatus*.
Gr. Crypt. 249; Berwick Flora, ii. 176; Schæff. t. 13; *A. farinaceus*, Bolton, t. 64; With. iv. 292; *A. amethysteus*, Bull. t. 570, f. 1, and t. 198; Persoon, Syn. 465; *A. amethystinus*, Bolton, t. 63; With. iv. 229; Sowerby, 187; *A. livido-purpureus*, With. iv. 320; *A. rosellus*, With. iv. 218.
In East Common and Horsley Woods, and near Blanchland, Scotswood, Benwell, and Fenham, N. In woods at Lambton and Lumley Castle, also at Medomsley and Bradley, D. Near Berwick.—Dr. G. Johnston.
21. *A. deliciosus*.
With. iv. 219; Sowerby, t. 202; Persoon, Syn. 432; Schæff. t. 11; Berwick Flora, ii. 167.
In pastures near Gateshead, Medomsley, Hamsterley, and Chester-le-Street, D. Near Fenham, Benwell, and Felton, N.
22. *A. rutilans*.
Gr. Fl. Eds. 371; Berwick Flora, ii. 168; *A. Xerampelinus*, Sowerby, t. 131; Purton, iii. 210.
In Fir plantations at the Woodlands near Lanchester, D.
23. *A. torminosus*.
Gr. Fl. Eds. 373; Sowerby, t. 103; Persoon,
- Syn. 430; *A. piperatus*, With. iv. 221; Hook. Fl. Scot. ii. 20.
On the borders of woods and denes, N. and D.
24. *A. Celicioides*.
Gr. Fl. Eds. 373; Berwick Flora, ii. 165; *A. necator*, 2d variety, With. iv. 227.
In Ravensworth and Gibside Woods, also in Horsley Hope and Waskerley Denes, D.
25. *A. piperatus*.
Gr. Fl. Eds. 375; Persoon, Syn. 429; With. iv. 221.
In fields, and on the borders of woods.
26. *A. camphoratus*.
Bull. t. 567, f. 1; *A. lactifluus*, Bolton, t. 3; Lightfoot, 1012; *A. dulcis*, With. iv. 222.
In Bradley, Ravensworth, and Lumley Wood, D.
27. *A. pratensis*.
Gr. Crypt. t. 91; Berwick Flora, ii. 164; *A. ericeus*, With. iv. 222; *A. fulvus*, With. iv. 228; *A. claviformis*, With. iv. 224; *A. ficoides*, Bull. t. 587, f. 1; *A. miniatus*, Sowerby, t. 141; Schæff. t. 313; *A. fulvosus*, Bolton, t. 56.
In meadows and pastures, not rare, N. and D.
28. *A. flaccidus*.
Sowerby, t. 185; Berwick Flora, ii. 164.
On walis near Wardrew and Housesteads, N.
29. *A. acris*.
With. iv. 224; Bolton, t. 60; *A. rubescens*, Schæff. t. 73.
In Bradley, Ravensworth, and Lumley Woods, D. In Dilton Park and Oakwood, N.
30. *A. fibula*.
With. iv. 225; Bull. t. 186 and 550, f. 1; *A. parvus*, Hook. Fl. Scot. ii. 22.
In meadows, pastures, and on the borders of woods, and in Long-acre and Bradley Woods, D. Near Scotswood and Benwell, N.
31. *A. muralis*.
Sowerby, t. 322; Gr. Fl. Eds. 384.
Among moss upon walls near Gateshead Turnpike Gate, and on the Fell, D. Near Benwell and Fenham, N.
32. *A. ericetorum*.
Gr. Fl. Eds. 384; Persoon, Syn. 472.
On the moors, not rare, N. and D.
33. *A. adustus*.
Gr. Fl. Eds. 372; With. iv. 225; Persoon, Syn. 459; Schæff. t. 71, 72; *A. nigricans*, Bull. t. 212, 237, f. 2 and 579.
β *elephantinus*, Sowerby, t. 36.
α and β In woods near Newcastle, but not common.
34. *A. involutus*.
Gr. Fl. Eds. 389; Persoon, Syn. 448; *A. contiguus*, Sowerby, t. 98; With. iv. 226.
In woods, and on turf upon the tops of stone fences.
35. *A. graveolens*.
With. iv. 230; Purton, iii. 206; Berwick Flora, ii. 166.
In old pastures, and by hedges.
36. *A. æstivus*.
With. iv. 231.
Near Medomsley, D.—Mr. J. Thornhill.
37. *A. elephantinus*.
With. iv. 232; Sowerby, t. 36; Berwick Flora, ii. 165.
In Gibside and Hounds Woods, D. In Gilsland Woods, N.

38. *A. opacus*.
With. iv. 232; Sowerby, t. 142.
In Gibside and Ravensworth Woods, D. In Benwell Dene and Fenham Woods, N.
39. *A. furfurosus*.
With. iv. 233.
Near Medomsley, and in Long-acre Woods, D.
40. *A. crassipes*.
With. iv. 233; Sowerby, t. 129.
 β *A. elasticus*, With. iv. 239; *A. crassipes*, Schæff. 37, upper fig. f, g.
 α In Lumley Woods, D. β in East Common Wood, and Dilston Park, N.
41. *A. terreus*.
With. iv. 237; Sowerby, 76; Berwick Flora, ii. 170; Schæff. 64, 1, 2, 3.
In lanes and plantations, not rare, N. and D. Near Berwick.—Dr. G. Johnston.
42. *A. leucocephalus*.
With. iv. 238; Bull. t. 536?
Near Medomsley, D. In pastures near Benwell, N.
43. *A. gracilis*.
With. iv. 239.
In East Common Wood and Heaton Dene, N.
44. *A. cyathoides*.
Bolton, t. 145; With. iv. 244; Persoon, Syn. 460.
In Heaton Wood and Scotswood Dene, N.
45. *A. zonarius*.
With. iv. 244; Sowerby, 203; *A. lactifluus zonarius*, Bull. t. 104; *A. fuscus*, Schæff. t. 235.
In Ravensworth, Bradley, and Howns Woods, also in Horsley Hope and Waskerley Denes, D. In Heaton Dene and near Gosforth, also in Felton Woods, N.
46. *A. nitidus*.
Persoon, Syn. 444; Gr. Fl. Eds. 372; *A. integer*, Berwick Flora, ii. 166; With. iv. 245; *A. nauscosus*, Persoon, Syn. 446, and *A. vitellinus*, 442.
In East Common Wood near Hexham, and in Heaton Dene, N. In Bradley Wood, and near Pont Bourn, D.
47. *A. emeticus*.
Persoon, Syn. 439; Gr. Fl. Eds. 372; *A. integer*, Sowerby, t. 201; *A. ochroleucus*, Persoon, Syn. 443.
In most denes and woods, N. and D.
48. *A. granulatus*.
Gr. Crypt. t. 104; *A. ochraceus*, Bull. t. 362, 530, f. 3; *A. croceus*, With. iv. 248; Sowerby, t. 19; Bolton, t. 51, f. 2?
In woods and plantations, among moss, N. and D.
49. *A. ulmarinus*.
Persoon, Syn. 473; Sowerby, t. 67 and 384, f. 2; Bull. t. 510 and 513, f. 1; Northumberland and Durham Guide, ii. 85.
Among moss on the sides of Elms near Medomsley, D. Near Fenham and Gosforth, N.
50. *A. dealbatus*.
Sowerby, t. 123; Northumberland and Durham Guide, ii. 55.
On the moors near Bolyhope Lead-mill, D. Near Barweford, N.
51. *A. parusiticus*.
Bull. t. 574, f. 2; Persoon, Syn. 371; *A. umbratus*, With. iv. 253.
On Fungi in a state of decay in Bradley and Ravensworth Woods, D. In Horsley Wood, D.
52. *A. araneosus*.
With. iv. 254; Bull. t. 431, 4 and 5.
In woods near Hamsterley and at Ravensworth, D. In Heaton and Scotswood Denes, N.
53. *A. rimosus*.
With. iv. 255; Gr. Crypt. t. 128; Bull. t. 388 and 589; Sowerby, t. 323; Persoon, Syn. 310; Northumberland and Durham Guide, ii. 85.
In woods, denes, and pastures, not rare.
54. *A. lacticaulis*.
With. iv. 256; Northumberland and Durham Guide, ii. 85.
In Bradley and Gibside Woods, D.
55. *A. iliopodius*.
Bull. Fr. 21, 1, 10; Northumberland and Durham Guide, ii. 85.
In Bradley Wood, D. In Horsley Wood, Oakwood, and Dilston Park, N.
56. *A. glaucopus*.
With. iv. 258; Gr. Fl. Eds. 386; Persoon, Syn. 282; Sowerby, t. 223; Schæff. t. 83; *A. subpurpurascens*, With. iv. 258; Batsch. 74; Berwick Flora, ii. 167.
In Heaton and Scotswood, N. In Ravensworth, Gibside, and Beamish Woods, D. In New Water Haugh Wood near Berwick.—Dr. G. Johnston.
57. *A. violaceus*.
With. iv. 260; Sowerby, t. 209; Gr. Fl. Eds. 386; Berwick Flora, ii. 167; *A. hircynicus*, Persoon, Syn. 278.
Near Chester-le-Street, Lumley, and Medomsley, D. Near Fenham and Gosforth, N.
58. *A. æruginosus*.
Persoon, Syn. 419; Gr. Fl. Eds. 391; Sowerby, t. 264; Schæff. t. 1; Bolton, t. 143; With. iv. 318; Berwick Flora, ii. 182; *A. cyanus*, With. iv. t. 261; Bull. t. 530; *A. politus*, Bolton, t. 30.
In plantations at Medomsley, and woods at Beamish, Urpeth, Cawsey, and Gibside, D. Near Benwell and Denton, also at Spring Gardens near Newcastle, N. Near Berwick.—Dr. G. Johnston.
59. *A. flavidus*.
Sowerby, t. 96; With. iv. 262; *A. equestris*, With. iv. 353, var. 1; Bolton, 149.
In meadows near Urpeth, Beamish, and Medomsley, D.
60. *A. calyciformis*.
With. iv. 263; Batsch. t. 118?
Near Medomsley, Gibside, and Lumley, D.
61. *A. connatus*.
With. iv. 264; *A. ramoso-radicatus*, Bolton, t. 143.
Near Darlington, D.—Bolton.
62. *A. peronatus*.
With. iv. 266; Gr. Fl. Eds. 379; Sowerby, t. 37; Bolton, t. 53.
Near Beamish, Urpeth, and Medomsley, D. In Scotswood and Walbottle Denes, N. Near Berwick.—Dr. G. Johnston.
63. *A. bulbosus*.
With. iv. 271; Sowerby, t. 130; Persoon, Syn. 295.
In Lumley and Bradley Woods, D. In East Common and Horsley Woods, N.
64. *A. erectus*.
With. iv. 273; Bull. t. 374; *A. cepastipes*, Sowerby, t. 2; *A. luteus*, With. iv. 289, var. 1; Gr. Crypt. 333.

- On bark in hot-houses and stoves, frequent. On dung-hills at Benwell and Denton. N.
65. *A. tuberosus*.
Gr. Fl. Eds. 380; Crypt. t. 23; Bull. t. 256; Persoon, Syn. 374; *A. albus*, With. iv. 274, var. 2; *A. alumnus*, Bolton, t. 155.
On large Agarics in a state of decay in Bradley, Gibside and Ravensworth Woods, D. In Horsley and East Common Wood, also in Scotswood Dene, and near Denton, N.
66. *A. radicans*.
With. iv. 275; Gr. Crypt. t. 217; Sowerby, t. 48; *A. longipes*, Bull. t. 232, 515; *A. umbraculum*, With. iv. 209; Batsch. 77, f. 1.
In woods, denes, and by road sides, N. and D.
67. *A. oreades*.
With. iv. 275; Gr. Crypt. t. 323; Bolton, t. 151; Berwick Flora, ii. 175; *A. pratensis*, Sowerby, t. 247; Hudson, 616; *A. coriaceus*, Lightfoot, 1020.
In pastures, common.
This is one of the Agarics which forms Fairy rings.
68. *A. peronatus*.
Sowerby, t. 37; Gr. Fl. Eds. 379; Berwick Flora, ii. 176.
In woods, attached to leaves, straw, &c., N. and D.
69. *A. horizontalis*.
With. iv. 279; Bull. t. 235; Sowerby, t. 341.
On old trees near Urpeth, Medomsley, and Cold Rowley, D.
70. *A. clavus*.
With. iv. 279; Lightfoot, 1027; Bull. t. 148, B, C; Bolton, t. 89.
Among moss and dead leaves in woods, N. and D.
71. *A. Georgii*.
With. iv. 281; Gr. Fl. Eds. 390; Sowerby, t. 304; Berwick Flora, ii. 175.
In East Common Wood near Hexham, at Holy Island, and in the vicinity of Newcastle, N. Near Medomsley, Beamish, and Urpeth, also on the sea coast near Whitburn, D. On the links near Berwick.—Dr. G. Johnston.
72. *A. campestris*.
Gr. Crypt. t. 161; With. iv. 285; Bolton, t. 45; Berwick Flora, ii. 173; Sowerby, t. 305; *A. edulis*, Bull. t. 134 and 514; *A. alutarius*, Persoon, Syn. 265.
In meadows and pastures, frequent.
73. *A. spadiceus*.
Persoon, Syn. 248; *A. badius*, With. iv. 283; Schæff. t. 245; Bolton, t. 38, f. 2.
In East Common and Horsley Woods, N.
74. *A. sanguineus*.
Persoon, Syn. 289; Sowerby, t. 43; *A. rubens*, Bolton, t. 36; With. iv. 284.
In Fir plantations near Medomsley and Lanchester, D.
75. *A. latus*.
With. iv. 287; Sowerby, 103; Berwick Flora, ii. 170; Bolton, t. 2; *A. lividus*, Bull. t. 382.
In fields near Heaton Dene by Goldspink Hall, also near Benwell, N. Near Berwick.—Dr. G. Johnston.
76. *A. helvolus*.
Persoon, Syn. 273; Gr. Fl. Eds. 387; *A. hinnuleus*, Sowerby, t. 173; *A. fusco-flavus*, With. iv. 303; Berwick Flora, ii. 171.
In Fir plantations at the Woodlands, and in Bradley and Lumley Woods, D. Near Berwick.—Dr. G. Johnston.
77. *A. præcor*.
Persoon, Syn. 420; *A. candicans*, Schæff. t. 217; *A. durus*, With. iv. 290; Bolton, t. 67, f. 1.
In Bradley and Gibside Woods, D. In East Common and Horsley Woods, N.
78. *A. fertilis*.
Persoon, Syn. 328; *A. phonosphermus*, Bull. t. 547 and 534; *A. mammosus*, With. iv. 290; Bolton, t. 69.
In Horsley and East Common Woods, N.
79. *A. primula*.
With. iv. 295; Purton, iii. 215; Northumberland and Durham Guide, ii. 87.
In Fir plantations near Blanchland, N.
80. *A. fibula*.
Sowerby, t. 45; Gr. Fl. Eds. 384; Persoon, Syn. 471; *A. parvus*, With. iv. 294, var. 2; Bull. t. 519, 1, B, C; *A. corticalis*, Sowerby, t. 243.
Amongst moss in woods near Gibside, and in Axwell Park, also at Cold Rowley, D. At Wallington and in Felton Woods, N.
81. *A. varius*.
With. iv. 297; Berwick Flora, ii. 179; *A. clypeatus*, With. iv. 311; Lightfoot, 1020; Schæff. t. 52; *A. pseudo-clypeatus*, Bolton, t. 154, 2d var.; *A. tenuis*, Bolton, t. 37; Bull. t. 320.
On rotten wood in fields and hedge banks, N. and D.
82. *A. galericulatus*.
Sowerby, t. 165; Gr. Fl. Eds. 382; Persoon, Syn. 376; *A. varius*, With. iv. var. 2, 297.
In woods and hedges near Newcastle, not rare, also in the county of Durham.
83. *A. compressus*.
With. iv. 300; Gr. Fl. Eds. 278; Sowerby, t. 66; Persoon, Syn. 363.
In pastures near Benwell and Denton, also in Fir plantations, N. and D.
84. *A. purpurascens*.
With. iv. 302; Northumberland and Durham Guide, ii. 87.
Near Medomsley and Lamesley, D.
85. *A. circumspectus*.
With. iv. 307; Batsch. t. 98; Northumberland and Durham Guide, ii. 87.
Near Gibside, Ravensworth, and Medomsley, D. In Horsley Wood, and Dilston Park, N.
86. *A. tener*.
With. iv. 307; Schæff. 70; Sowerby, t. 33; Berwick Flora, ii. 179; Persoon, Syn. 386; Gr. Fl. Eds. 389; *A. colus*, With. iv. 343; *A. cuspidatus*, With. iv. 345; Bolton, t. 66, f. 2.
In fields and pastures, common.
87. *A. mutabilis*.
Gr. Fl. Eds. 387; *A. xylophyllus*, Sowerby, t. 167; With. iv. 308; *A. caudicinus*, Persoon, Syn. 271.
In woods on the Derwent, D. In Heaton, Scotswood, and Walbottle Denes, N.
88. *A. hypnorum*.
Gr. Fl. Eds. 389; Berwick Flora, ii. 180; Persoon, Syn. 385; *A. Hypni*, With. iv. 410; *A. acicula*, Sowerby, t. 282.
On the ground among moss, not rare, N. and D. In the plantation at Murton Crag, N.—Dr. G. Johnston.

89. *A. epiphyllus*.
Gr. Fl. Eds. 381; Berwick Flora, ii. 180; *A. squamula*, Sowerby, t. 93.
On dead leaves in woods, N. and D.
90. *A. clavus*.
Gr. Fl. Eds. 380; Bolton, t. 39, B; Purton, iii. 236; Berwick Flora, ii. 180.
Among moss in shady woods, N. and D.
91. *A. Du-Boisii*.
Berwick Flora, ii. 180; Ray. Syn. i. 10, No. 54, t. 1, f. 2, a, a.
On old moss-grown trees, particularly willows, near Berwick.—Dr. G. Johnston.
92. *A. arundicola*.
Berwick Flora, ii. 181, t. 6, fig. inf.
Parasitical on the stalks of the Sea Bent. On Spital Links, N.—Dr. G. Johnston.
93. *A. spinipes*.
Sowerby, t. 206; Berwick Flora, ii. 181.
On decayed Fir cones, N. and D. Near Berwick.—Dr. G. Johnston.
94. *A. finiputris*.
With. iv. 312; Berwick Flora, ii. 179; Bull. t. 66, var. 2; *A. varius*, Bolton, t. 66, f. 1; *A. helvolus*, Schæff. t. 202.
On dung-hills, frequent, also in gardens and meadows.
95. *A. striatus*.
Sowerby, t. 166; Northumberland and Durham Guide, ii. 88.
On the stumps of willows near Winlaton Mill, D.
96. *A. cinuamomeus*.
With. iv. 316; Sowerby, t. 205; Persoon, Syn. 297; Berwick Flora, ii. 171; Bolton, 150; *A. croccus*, Persoon, Syn. 297.
In Heaton Dene and East Common Wood, N. In Bradley Wood, and near Chester-le-Street, D.
97. *A. roseus*.
With. iv. 317; Gr. Fl. Eds. 383; Sowerby, t. 72; Bull. t. 162; *A. purus*, Persoon, Syn. 339.
Near Medomsley and Bradley, in woods, D.
98. *A. fissus*.
With. iv. 319; Bolton, t. 35; *A. pascuus*, Persoon, Syn. 427.
On the banks of Waskerley Bourn, D. In Felton Woods, N.
99. *A. aurantius*.
With. iv. 320; Curt. Lond. t. 308; Berwick Flora, ii. 172; Bolton, t. 67, f. 2; Lightfoot, 1025; *A. croccus*, Bull. t. 50 and 524, f. 3; *A. conicus*, Schæff. t. 2; Persoon, Syn. 335, ♂; *A. hyacinthus*, Batsch. 81, f. 28.
In meadows and pastures near Newcastle, also on Holy Island, N. On the coast near South Shields, Whitburn, and Sunderland, D. Near Berwick.—Dr. G. Johnston.
100. *A. ceraceus*.
With. iv. 323; Gr. Fl. Eds. 377; Sowerby, t. 20; Persoon, Syn. 337.
In meadows and pastures, but not frequent.
101. *A. psittacius*.
With. iv. 323; Gr. Crypt. t. 74; Sowerby, t. 82; Berwick Flora, ii. 172; Schæff. t. 301; Persoon, Syn. 335; *A. chamaelon*, Bull. 562, t. 545, f. 1; Lam. and De Cand. ii. 180.
In meadows and pastures near Gateshead, Gibside, and Medomsley, D. On Holy Island, and near Belford, also about Newcastle, but not common, N.
102. *A. aquosus*.
Bolton, t. 71, f. 1; *A. cryptarum*, With. iv. 324, var. 1.
On decayed wood not frequent. Near Medomsley, D. In Horsley and Felton Woods, N.
Probably not a good species.
103. *A. floccosus*.
With. iv. 326; Gr. Crypt. t. 2; Sowerby, t. 284; Schæff. t. 61; *A. squarrosus*, Persoon, Syn. 268; *A. squamosus*, Bull. t. 266; Lam. and De Cand. ii. 101.
In East Common, Horsley, and Heaton Woods, N. In Bradley Wood, Waskerley Dene, and near Chester-le-Street, D.
104. *A. fascicularis*.
With. iv. 327; Gr. Crypt. t. 329; Persoon, Syn. 421; Bolton, t. 29; Sowerby, t. 285; Berwick Flora, ii. 177; *A. pulverulentus*, Bull. t. 178; *A. lateritius*, Schæff. t. 49; exclude, f. 6.
On decayed wood, common.
105. *A. lateritius*.
Persoon, Syn. 421; Gr. Fl. Eds. 392; Berwick Flora, ii. 177; *A. fascicularis*, With. iv. 328, var. 3.
On the stumps of trees in a state of decay, N. and D.
106. *A. semiglobatus*.
With. iv. 330; Gr. Crypt. t. 344; Persoon, Syn. 407; Sowerby, t. 248; Berwick Flora, ii. 178; *A. glutinosus*, Curt. Lond. i. t. 144; *A. nitens*, Bull. t. 566, f. 4; *A. virosus*, Sowerby, t. 407 and 408.
In meadows and pastures, common.
107. *A. procerus*.
With. iv. 331; Gr. Fl. Eds. 370; Sowerby, t. 190; Persoon, Syn. 257; Berwick Flora, ii. 181; Curt. Lond. t. 39; *A. annulatus*, Lightfoot, 1025; *A. columbrinus*, Bull. t. 78.
In Gibside and Ravensworth Woods, also near Lan- chester, D. Near Blanchland, and in Horsley Wood, N.
108. *A. clypeolarius*.
With. iv. 335; Gr. Fl. Eds. 370; Sowerby, t. 14; *A. columbrinus*, Persoon, Syn. 258.
On the borders of woods, N. and D.
109. *A. cristatus*.
Gr. Crypt. t. 176; Bolton, t. 7; *A. clypeolarius*, With. iv. 336, var. 3.
In the county of Durham on the borders of woods, but not common. In Horsley and Felton Woods, N.
110. *A. alliaceus*.
With. iv. 337; Gr. Fl. Eds. 382; Sowerby, t. 81; Purton, t. 11; *A. porreus*, Persoon, Syn. 376.
On decayed leaves in woods near Medomsley and Chester-le-Street, D. Near Blanchland and in Dilston Park, N.
111. *A. piluliformis*.
With. iv. 339; Bull. t. 112.
On the stumps of trees near Chirton, N.
112. *A. micaccus*.
With. iv. 342; Gr. Crypt. 76; Bull. t. 565 and 246; *A. congregatus*, With. iv. 341; Berwick Flora, ii. 183; Hook. Fl. Scot. ii. 23; Sowerby, t. 261; *A. ferrugineus*, Persoon, Syn. 400; *A. turbinatus*, With. iv. 339, var. 1.
On the stumps of trees and gate posts, frequent.

113. *A. flavipes*.
With. iv. 342; Persoon, Syn. 382; Sibthorp, 305; *A. plicatus*, Schæff. t. 31.
In woods and denes, not rare, N. and D.
114. *A. filipes*.
Bull. t. 320; Northumberland and Durham Guide, ii. 90.
Near Medomsley, D. Near Wylam and Hexham, N.
115. *A. atro-rufus*.
With. iv. 344; Bolton, t. 51, f. 1.
Near Medomsley and Wolsingham, D. Near Denton and Stamfordham, N.
116. *A. titubans*.
With. iv. 374; Gr. Fl. Eds. 393; Sowerby, t. 128; Persoon, Syn. 415; Bull. t. 425, f. 1.
On horse and cow dung, not rare.
117. *A. comatus*.
Gr. Crypt. t. 119; Persoon, Syn. 395; *A. cylindricus*, With. iv. 347; Berwick Flora, ii. 162; Schæff. t. 8; Sowerby, t. 189; *A. fimetarius*, Bolton, t. 44; *A. typhoides*, Bull. t. 16 and 582, f. 2; *H. ovatus*, Schæff. t. 7.
In meadows, pastures, and by the banks of hedges, frequent.
118. *A. lacrymabundus*.
With. iv. 350; Gr. Fl. Eds. 391; Sowerby, t. 41; *A. velutinus*, Persoon, Syn. 409.
In woods and by road sides, not rare.
119. *A. reticulatus*.
With. iv. 350; *A. phlebophorus*, Gr. Crypt. t. 173.
In Scotswood and Heaton Denes, and near Fenham, N.
120. *A. dryophyllus*.
With. iv. 351; Gr. Fl. Eds. 379; Sowerby, t. 127; Persoon, Syn. 452; Bull. t. 6; *A. repandus*, Bolton, t. 6.
In Bradley and Longacre Woods, D. In meadows, pastures, and the borders of woods near Benwell, Fenham, and Kenton, N.
121. *A. flavus*.
With. iv. 352; Northumberland and Durham Guide, ii. 91; *A. laceratus*, Bolton, t. 68.
In Botsfield Dene, four miles east of Wolsingham, D. In woods at Felton, and below Stannington Bridge, N.
122. *A. velutipes*.
With. iv. 354; Berwick Flora, ii. 177; Gr. Fl. Eds. 378; Curt. Lond. 4, t. 40; Sowerby, t. 263 and 384, f. 3; Persoon, Syn. 314; *A. nigripes*, Bull. t. 344.
In woods and on the borders of fields, frequent.
123. *A. atramentarius*.
Gr. Fl. Eds. 394; *A. fimetarius*, Sowerby, t. 188; *A. ovatus*, With. iv. 355; Curt. Lond. t. 101; Berwick Flora, ii. 183; *A. plicatus*, Persoon, Syn. 396.
About villages, and on dung hills, frequent.
124. *A. disseminatus*.
Gr. Fl. Eds. 393; Persoon, Syn. 403; *A. striatus*, Sowerby, t. 166; *A. digitaliformis*, Northumberland and Durham Guide, ii. 92; Bull. 525, f. 1.
On decayed trunks of trees, common.
125. *A. ephemerus*.
Gr. Fl. Eds. 395; Persoon, Syn. 406; Bull. 542, f. 1, d.; *A. stercorarius*, Sowerby, t. 262; With. iv. 334; Berwick Flora, ii. 183.
On dung, frequent.
126. *A. radiatus*.
Gr. Fl. Eds. 395; Persoon, Syn. 407; Bolt. 39, C.; *A. ephemerus*, Bull. 542, in part; *A. mommentarius*, With. iv. 356.
In meadows and pastures on dung.
127. *A. cinereus*.
With. iv. 357; Gr. Fl. Eds. 394; Persoon, Syn. 398; *A. pultatus*, Bolton, t. 20; *A. fimetarius*, Hudson, 617.
In gardens, meadows, and pastures, common.
128. *A. campanulatus*.
With. iv. 357; Lightfoot, 1022; Robson, Syn. 322; *A. striatus*, Bull. t. 552, f. 2.
Near Medomsley and Gibside, D.
129. *A. semiovatus*.
With. iv. 359; Gr. Fl. Scot. 392; Sowerby, t. 131; Persoon, Syn. 408; Berwick Flora, ii. 179.
On dung in pastures, frequent.
130. *A. plicatilis*.
With. iv. 359; Gr. Fl. Eds. 395; Sowerby, t. 364; Berwick Flora, ii. 184; Curt. Lond. t. 200; *A. pulcher*, Persoon, Syn. 404.
In gardens on dung.
131. *A. exaratus*.
With. iv. 360; *A. brunneus*, Schæff. t. 32? *A. campanulatus*, Bolton, t. 31; *A. plicatus*, Bull. t. 80.
Near Medomsley and Farnacres, D. Near Fenham, Benwell, and Denton, N.
132. *A. cholybeus*.
Persoon, Syn. 343; *A. columbarius*, Sowerby, t. 161; Northumberland and Durham Guide, ii. 92.
Near Medomsley and Chester-le-street, D. Near Stannington Bridge and Blagdon, N.
133. *A. variabilis*.
Gr. Crypt. t. 235; Persoon, Syn. 483; *A. sessilis*, Bull. t. 152 and 581, f. 3; With. iv. 362; *A. niveus*, Sowerby, t. 97; Dick. Crypt. Fasc. 1, p. 17; *A. flabelliformis*, Bolton, t. 72, f. 2.
On rotten sticks in woods, not rare. In Scotswood, Walbottle, Horsley, Heaton, and East Common Woods, N. Near Gateshead Park, Ravensworth and Bolt's Hope, also in Beamish and Cawsey Woods, D.
134. *A. ulmarius*.
Gr. Fl. Eds. 395; Sowerby, t. 67; Persoon, Syn. 473.
On the trunks of trees in Horsley Wood, and in Dilston Park, N. At Urpeth, Beamish, and Tanfield, D.
135. *A. ostratus*.
With. iv. 362; Gr. Fl. Eds. 396; Persoon, Syn. 477; Sowerby, t. 421.
In Longacre Wood near Lamesley, on Chowdon Fell, and in Gibside and Lumley Woods, D. Near Darlington, D.—Mr. E. Robson. In East Common and Horsley Woods, also at Blagdon and Felton, N.
136. *A. planus*.
With. iv. 465; Bolton, t. 72; Northumberland and Durham Guide, ii. 92; Sowerby, t. 362.
On the ground in Gibside, Ravensworth, and Lumley Woods, D. Near Darlington.—Mr. E. Robson. In Walbottle Dene and Horsley Woods, N. In East Common Wood near Hexham, N.—Mr. F. Scott.

137. *A. conchatus*.
Bull. t. 298 and 517, o; Northumberland and Durham Guide, ii. 92; *A. inconstans* β , Persoon, Syn. 476.
On trees near Medomsley and Lanchester, D. At Blagdon and Stannington Bridge, N.
138. *A. flabelliformis*.
With. iv. 365; Sowerby, t. 109; Schæff. t. 208; Berwick Flora, ii. 184; *A. stypticus*, Bull. t. 140; Persoon, Syn. 481.
On trees near Medomsley and Wolsingham, D. Near Darlington.—Mr. E. Robson. In East Common Wood near Hexham, and Horsley Wood, N. Near Berwick.—Dr. G. Johnston.
139. *A. lateralis*.
Bolton, t. 71, f. 2; *A. flabelliformis*, With. iv. 366, var. 2; Northumberland and Durham Guide, ii. 92, var. 2.
Near Gibside and Medomsley, D. In Walbottle Dene, and Felton, Blagdon, and Horsley Woods, N.
140. *A. mollis*.
With. iv. 366; Gr. Fl. Eds. 396; Persoon, Syn. 480; Berwick Flora, ii. 184; Sowerby, t. 98; *A. commutarius*, Schæff. t. 213.
On stumps of trees in Gibside and Ravensworth Woods, also near Medomsley, D. In Walbottle Dene and near Denton, N. In a wine cellar in Berwick.—Dr. G. Johnston.
141. *A. ficoides*.
With. iv. 366; Northumberland and Durham Guide, ii. 92; *A. betulinus*, Bolton, t. 72, f. 1.
In East Common and Horsley Woods, N. In Bradley Wood, D.
142. *A. reniformis*.
With. iv. 367; Northumberland and Durham Guide, ii. 93; *A. flabelliformis*, Bolton, t. 157.
On birch trees in Gibside Woods, D. Near Darlington.—Mr. E. Robson. In Horsley Wood and Dilston Park, N.
143. *A. applicatus*.
With. iv. 368; Batsch. t. 24, f. 125; Sowerby, t. 301; Northumberland and Durham Guide, ii. 93; *A. epixylon*, Bull. 581, f. 2.
In Longacre Wood near Lamesley, D. In Scotswood and Walbottle Denes, also in East Common Wood near Hexham, N.
144. *A. Rotula*.
Gr. Fl. Eds. 381; Sowerby, t. 95; Persoon, Syn. 467; *Merulius collaratus*, With. iv. 195.
On dried sticks and dead leaves in woods, frequent.
145. *A. umbelliferus*.
Bolton, t. 39, f. A; Lightfoot, 1026; *Merulius umbelliferus*, With. iv. 193; Northumberland and Durham Guide, ii. 80.
Among rotten leaves in Benwell and Walbottle Denes, N. In Long-acre and Gibside Woods, D.
146. *A. androsaccus*.
Gr. Fl. Eds. 381; Berwick Flora, ii. 173; Sowerby, t. 94; Lightfoot, 1027; *Merulius androsaccus*, With. iv. 194; *Agaricus epiphyllus*, Bull. t. 569, 2.
On decayed leaves and Fir cones in Heaton and Scotswood Denes, N. In Long-acre and Lumley Woods, also near Ryton, D. Near Berwick.—Dr. G. Johnston.
147. *A. epiphyllus*.
Gr. Fl. Eds. 381; Persoon, Syn. 468; *Merulius squamula*, With. iv. 198; *Agaricus squamula*, Sowerby, t. 93; Batsch. t. 17, f. 84; *A. lacteus*, Bull. t. 601, f. 2.
On the dead leaves of the Ivy, not uncommon.
148. *A. fetidus*.
Gr. Fl. Eds. 382; *Merulius fetidus*, With. iv. 193; Sowerby, t. 21.
On the dead branches of trees in Gibside and Bradley Woods, D. Near Darlington.—Mr. E. Robson. In Heaton, Scotswood, Benwell, and Walbottle Denes, N.
149. *A. cornucopioides*.
Bolton, t. 8; Purton, t. 12; *A. cochleatus* β , Persoon, Syn. 450; *Merulius cornucopioides*, With. iv. 198.
In Bradley and Gibside Woods, D. In Horsley and East Common Woods, N.
150. *A. fuscus*.
A. ericetorum δ , according to Steudel *Merulius fuscus*, With. iv. 196; Northumberland and Durham Guide, ii. 80.
In Ravensworth Woods near Farnacres, D.

102. SCHIZOPHYLLUM.

1. *S. commune*.
Gr. Crypt. t. 61; *Agaricus alveus*, With. iv. 370; Sowerby, t. 183; Schæff. t. 246; Bull. t. 346 and 581, f. 1; Lightfoot, 1029; Lam. and De Cand. ii. 134.
On trees in Horsley and East Common Woods, N. Near Hilton, Gibside, and Bradley, D.

103. CANTHARELLUS.

1. *C. cibarius*.
Gr. Crypt. t. 258; Berwick Flora, ii. 186; *Merulius Cantharellus*, Purton, t. 10; Persoon, Syn. 488; With. iv. 196; *Agaricus Cantharellus*, Bull. t. 62 and 505, f. 1; Sowerby, t. 46; *A. Cantharellus*, Schæff. t. 82; Bolton, t. 62.
On decayed sticks in woods and plantations, N. and D.
2. *C. luteus*.
Gr. Fl. Eds. 397; *Merulius lutescens*, Persoon, Syn. 489; *Agaricus cantharelloides*, Sowerby, t. 47.
In Bradley Wood near Medomsley, also in the neighbourhood of Darlington, D. In Horsley and Felton Woods, N.
3. *C. cornucopioides*.
Merulius purpureus, With. iv. 199; *M. cornucopioides*, Persoon, Syn. 491; *Peziza cornucopioides*, Sowerby, t. 74.
On the banks of the Derwent near Winlaton Mill, and in Bradley Wood, D. Near Darlington, D.—Mr. E. Robson. In Dilston Park, N.
4. *C. cinereus*.
Merulius infundibuliformis, With. iv. 199; *Agaricus infundibuliformis*, Bolton, t. 34.
In Bradley Wood, D. In Horsley Wood, Dilston Park, and near Stannington Bridge.
5. *C. muscigenus*.
Merulius muscigenus, With. iv. 199; *Agaricus muscigenus*, Bull. t. 233.
Near Ravensworth and Gibside, growing on moss, D. Near Blagdon, N.
6. *C. lobatus*.
Gr. Fl. Eds. 397; Berwick Flora, ii. 186; *Merulius membranaceus*, With. iv. 200; *Hecetella*

membranacea, Sowerby, t. 348; Bolton, t. 177; *H. retiruga*, Bull. t. 498, f. 1; *Merulius retirugus*, and *M. lobatus*, Persoon, Syn. 494.

In East Common and Horsley Woods, N. Upon moss on Ravensworth Fell, and on boggy ground near the Wear in the neighbourhood of Chester-le-Street, D. From the county of Durham.—Bolton. On *Tortula ruralis* near Darlington.—Mr. E. Robson. Upon the same moss on Spittal Links, N.—Dr. G. Johnston.

104. MERULIUS.

1. *M. lacrymans*.

Gr. Fl. Eds. 397; *M. destruens*, Persoon, Syn. 496; *Boletus lacrymans*, With. iv. 393; Sowerby, t. 113; *B. arboreus*, t. 346.

On rotten wood generally in vaults and cellars.

2. *M. lamellosus*.

Sowerby, t. 403.

In the wine cellars at Wallington, N.—W. C. Trevelyan, Esq.

105. FISTULINA.

1. *F. hepatica*.

Gr. Crypt. t. 270; With. iv. 371; *F. buglossoides*, Bull. t. 74, 464, 497; *Boletus hepaticus*, Sowerby, t. 58; Bolton, t. 79; Schæff. t. 116 and 120; Persoon, Syn. 549.

On trees near Gibside, Beamish, and Cawsey, D. At Fenham, Longhorsley, and Blagdon, N.

106. DÆDALEA.

1. *D. quercina*.

Gr. Crypt. t. 238; Persoon, Syn. 500; *Agaricus quercinus*, With. iv. 370; Sowerby, t. 181; Bolton, t. 73; Batsch. Fasc. i. 95.

In Long-acre, Ravensworth, Gibside, and Cawsey Woods, D. In Horsley Wood and Walbottle Dene, also at Blagdon and Felton, N. Near Darlington, D.—Mr. E. Robson.

2. *D. betulina*.

Agaricus betulinus, With. iv. 368; Sowerby, t. 182; Bolton, t. 72, f. 1.

In East Common and Horsley Woods, N. Near Darlington, D.—Mr. E. Robson.

3. *D. salicina*.

Polyporus salicinus, Gr. Fl. Eds. 400; *Boletus salicinus*, Sowerby, t. 227; Persoon, Syn. 530; With. iv. 391; Bull. t. 433, f. 1.

On old willows near Gateshead and Saltwellside, D. Near Darlington, D.—Mr. Backhouse. Near Fenham and Earsdon, also at Stannington Bridge, N.

4. *D. suaveolens*.

Boletus suaveolens, With. iv. 392; Sowerby, t. 288; Bull. t. 310; *B. suberosus*, Bolton, t. 162.

On willows near the Derwent at Swalwell, also near Little Eppleton and Castle Eden, D. Near Darlington, D.—Mr. E. Robson. Near Stannington Bridge and Bedlington, N.

5. *D. confragosa*.

Persoon, Syn. 501; *Boletus confragosus*, Bolton, t. 160; *Boletus labyrinthiformis*, With. iv. 395; Bull. t. 491, f. 1.

In Blagdon, East Common, and Horsley Woods, N. In Waskerley Dene, D. On willows near Darlington, D.—Bolton.

6. *D. albidus*.

Purton. iii. 243, t. 38; *Boletus albidus*, With. iv. 386; *B. rugosus*, Sowerby, t. 422?

On the ground near Benwell Lodge, and in Fenham grounds, N. Near Cawsey and Beamish, N.

7. *D. angustata*.

Persoon, Syn. 502; *Boletus angustatus*, Sowerby, t. 193; Northumberland and Durham Guide, ii. 97.

In Castle Eden and Ryhope Denes, D. Near Darlington, D.—Sent to Sowerby by Mr. E. Robson. In Blagdon, Felton, and Belford Woods, N.

107. POLYPORUS.

1. *P. squamosus*.

Gr. Crypt. t. 107; Berwick Flora, ii. 158; *Boletus squamosus*, With. iv. 388; Bolton, t. 77; Sowerby, t. 266; *B. platyporus*, Persoon, Syn. 521; *B. rangiferinus*, Bolton, t. 138; *B. polymorphus*, Bull. t. 114; *B. subsquamosus*, Batsch, t. 10, f. 41.

On stumps of Ash trees near Gateshead, at Crow Hall near Heworth, and Saltwellside, D. In Heaton Dene, also at Gosforth, and near Fenham, N. In East Common Wood near Hexham, N.—Mr. F. Scott.

2. *P. varius*.

Gr. Fl. Eds. 399; Berwick Flora, ii. 157; *Boletus varius*, Persoon, Syn. 523; *P. badius*, Persoon, Syn. 523; *B. variegatus*, Sowerby, t. 368; Northumberland and Durham Guide, ii. 97; *B. lateralis*, Hook. Fl. Scot. 27; Northumberland and Durham Guide, ii. 95; Bolton, t. 83; With. iv. 390; *B. nigripes*, With. iv. 381; *B. nummularis*, With. iv. 380; Sowerby, t. 89; *B. calceolus*, With. iv. 389; Bolton, 168; Bull. t. 360 and 445, f. 2.

On the trunks of trees in Howns Wood near Medomsley, and in Cawsey and Gibside Woods, D. At Blagdon, Hartford Bridge, Horsley Wood, and in Dilston Park, N.

3. *P. perennis*.

Gr. Fl. Eds. 389; *Boletus perennis*, With. iv. 378; Sowerby, t. 192; Persoon, Syn. 518; Bolton, t. 87; *B. fimbriatus*, Bull. t. 254.

About the roots of trees in Cawsey and Howns Woods, and near Darlington, D. In East Common and Horsley Woods, also near Fenham, Denton, and Kenton, N.

4. *P. lucidus*.

Gr. Crypt. t. 245; *Boletus lucidus*, Persoon, Syn. 522; Sowerby, t. 134; *B. rugosus*, With. iv. 386; *B. obliquatus*, Bull. 335, t. 7 and 459.

On the stumps of trees in Scotswood and Walbottle Denes, also near Blagdon and Bedlington, N. In Castle Eden Dene, and near Hetton and Lumley, D.

5. *P. betulinus*.

Gr. Fl. Eds. 400; Crypt. t. 229; *Boletus betulinus*, Sowerby, t. 212; Persoon, Syn. 535; With. iv. 387; Bolton, t. 159.

In Schackerton Wood near Darlington, D.—Bolton. In Wallington Woods, N.—W. C. Trevelyan, Esq. In Horsley Wood and Walbottle Dene, N. In Cawsey, Gibside, and Ravensworth Woods, D.

6. *P. hispidus*.

Gr. Fl. Eds. 400; Crypt. t. 14; Persoon, Syn.

- 526; *Boletus hispidus*, Lam. and De Cand. ii. 120; With. iv. 397; Bolton, t. 161; *B. velutinus*, Sowerby, t. 345.
Near Castle Eden and Hart, on the trunks of Beech trees, D. Near Darlington, on Oaks and Elms.—Mr. E. Robson. At Fenham, Blagdon, and Stan-
nington Bridge, N.
7. *P. fomentarius*.
Gr. Fl. Eds. 400; Berwick Flora, ii. 159; *Boletus fomentarius*, Sowerby, t. 133; Persoon, Syn. 536; With. iv. 401.
On Birch trees in the woods near Corbridge and Hexham, N. Near Auckland and Durham.
8. *P. igniarius*.
Gr. Fl. Eds. 401; Berwick Flora, ii. 158; *Boletus igniarius*, Sowerby, t. 132; With. iv. 400; Persoon, Syn. 534.
 β Bolton, t. 80.
On old trees, particularly the Cherry. β near Medomsley, D. At Newburn and Denton, N.
9. *P. caesus*.
Gr. Fl. Eds. 401; *Boletus caesus*, Sowerby, t. 226; Persoon, Syn. 526.
On Fir trees in a state of decay, N. and D.
10. *P. velutinus*.
Gr. Fl. Eds. 401; *Boletus velutinus*, With. iv. 399; Persoon, Syn. 539; *B. lutescens*, 539; *B. spongiosus*, With. iv. 393.
On the trunks of trees, not rare. Near Seaton Delaval, N. Near Gateshead and Saltwellside, D. Near Darlington.—Mr. E. Robson.
11. *P. versicolor*.
Gr. Fl. Eds. 402; Berwick Flora, ii. 160; *Boletus versicolor*, With. iv. 394; Bolton, t. 81; Sowerby, t. 229; Persoon, Syn. 551.
On the stumps of trees, rails, &c., common.
12. *P. obiectinus*.
Gr. Crypt. t. 226; Fl. Eds. 402; Hook. Lond. t. 180; Berwick Flora, ii. 160; *Boletus obiectinus*, With. iv. 396; Dick. Crypt. Fasc. iii. t. 9, f. 9; Purton. t. 13; *Sistotrema violaceum*, Persoon, Syn. 551.
On decayed Fir trees at Gibside, Fryerside, Cawsey, and Snow's Green near Shotley Bridge, D. Near Corbridge, Hexham, and Wylam, N. In woods near Berwick, not rare.—Dr. G. Johnston.
13. *P. ferruginosus*.
Gr. Fl. Eds. 402; *Boletus ferruginosus*, Persoon, Syn. 544; Gr. Crypt. t. 155; Hook. Lond. t. 163.
On rotten logs of wood in damp places.
14. *P. medulla-panis*.
Gr. Fl. Eds. 402; Berwick Flora, ii. 159; *Boletus medulla-panis*, Persoon, Syn. 544; Bolton, t. 167 (the lower figure); With. iv. 391; Sowerby, t. 326.
On trees in a state of decay in Heaton Wood and at Paradise, also in East Common Wood, N. In Gibside and Ravensworth Woods, also near Darlington, D. Near Berwick, N.—Dr. G. Johnston.
15. *P. vulgaris*.
Gr. Fl. Eds. 403; Berwick Flora, ii. 160; *Boletus proteus*, Bolton, t. 166; *B. medulla-panis*, With. iv. 391, var. 2.
On decayed wood near the ground, common.
16. *P. ovinus*.
Boletus substrictus, With. iv. 385; Bolton, t. 170; Northumberland and Durham Guide, ii. 95.
Near Darlington, D.—Mr. E. Robson.
17. *P. cuticularis*.
Boletus cuticularis, With. iv. 394; Bull. t. 462; *B. albus*, Persoon, Syn. 528; *B. triquetus*, Persoon, Syn. 528.
On the stumps of Alder trees, but not frequent.
18. *P. cryptarum*.
Boletus cryptarum, Persoon, Syn. 542; With. iv. 395; Bull. t. 478; Bolton, t. 165.
Near Castle Eden and Easington, D. Near Darlington.—Mr. E. Robson. Near Bywell and Hexham, N.
19. *P. frondosus*.
Boletus frondosus, With. iv. 387; Sowerby, t. 87; Bolton, t. 76.
On stumps of trees near Cawsey and Knitsley, D. Near Kenton, Gosforth, and Blagdon, N.
20. *P. impuber*.
Boletus impuber, Sowerby, t. 695; Bolton, t. 195; Northumberland and Durham Guide, ii. 97.
On decayed trees in woods on the Derwent, N. In East Common Wood near Hexham, Dilston Park, and Horsley Wood, on the Tyne, N.
21. *P. ulmarius*.
Boletus ulmarius, Sowerby, t. 31; Northumberland and Durham Guide, ii. 97.
In the hollow trunks of old Elms in Cawsey Wood, and at Saltwellside, D. At Fenham and Denton, also near Bedlington and Blagdon, N.
22. *P. heteroclitus*.
Boletus heteroclitus, Sowerby, t. 367; Bolton, t. 164; Persoon, Syn. 528.
On the ground at the roots of trees at Castle Eden Heaton and Painsner, D. Near Darlington.—Mr. E. Robson. Near Kenton, and in the upper part of Heaton Dene, N.
23. *P. sulphureus*.
Gr. Crypt. t. 113; *Boletus sulphureus*, Bull. t. 429; Sowerby, t. 135; With. iv. 397; *B. tenax*, Bolton, t. 75; Lightfoot, 1031; *B. citrinus*, Persoon, Syn. 524; *B. ramosus*, Bull. t. 418.
On trunks of trees in Horsley Hope Dene, D. Near Darlington, D.—Mr. E. Robson. At Fenham, Benwell, and Heaton, N.

108. BOLETUS.

1. *B. Intens*.
Gr. Crypt. t. 183; Sowerby, t. 265; Berwick Flora, ii. 156; Schæff. t. 114; With. iv. 382; *B. annularius*, Bolton, t. 169; Bull. t. 332; *B. flavus*, With. iv. 384.
In plantations and pastures near Buttsfield, Greencroft, Medomsley, and in Bradley Wood, D.—Near Corbridge and Warden, N. Near Berwick.—Dr. G. Johnston.
2. *B. bovinus*.
Gr. Fl. Eds. 403; *B. gregarius*, With. iv. 382.
In Fir plantations at Medomsley, the Woodlands and Greencroft, D. In similar situations on the edge of the Northumberland moors.
3. *B. pipcratus*.
Gr. Fl. Eds. 404; Sowerby, 34; Persoon, Syn. 507; Bull. t. 451; With. iv. 380.
In woods, thickets, and dunes, not rare.

4. *B. subtomentosus*.

Gr. Fl. Eds. 404; With. iv. 379; Persoon, Syn. 506; Berwick Flora, ii. 156; *B. communis*, Bull. 490, f. 3; Schæff. t. 112 and 133.

In woods and plantations, not rare.

5. *B. luridus*.

Gr. Crypt. t. 121; Schæff. t. 107; Persoon, Syn. 512; *B. rubecularius*, Bull. t. 100 and 490, f. 1; Persoon, Syn. 512; Sowerby, t. 250; With. iv. 379; *B. bovinus*, Bolton, t. 85.

Near Sherburn, Greencroft, Castle Eden, and at Baydales near Darlington, D. In East Common and Horsley Woods, N.

6. *B. constrictus*.

Persoon, Syn. 508; *B. cyanescens*, Bull. t. 369; With. iv. 374; Northumberland and Durham Guide, ii. 93.

On the edge of the wood near Hamsterley, and in Gibside Woods, D. Near Stannington Bridge and Gosforth, N.

7. *B. edulis*.

Gr. Fl. Eds. 404; Persoon, Syn. 510; Sowerby, t. 111; With. iv. 381; *B. elephantinus*, With. iv. 381.

In Gibside, Ravensworth, Longacre, and Bradley Woods, D. In Scotswood and Heaton Denes, N.

8. *B. subfuscus*.

With. iv. 373; Northumberland and Durham Guide, ii. 93.

In Seggerston Wood and Waskerley Dene, D. Probably a variety of *B. edulis*.

9. *B. scaber*.

Gr. Fl. Eds. 405; Persoon, Syn. 505; Berwick Flora, ii. 156; Sowerby, t. 175; *B. aurantiacus*, Sowerby, t. 110; With. iv. 375; Bull. t. 236 and 489, f. 2, R. S.

In Gibside, Ravensworth, Hamsterley, and Medomsley Woods, also near Sherburn and Darlington, D. In Scotswood, Denton, and Walbottle Denes, N.

10. *B. castaneus*.

Persoon, Syn. 509; Bull. t. 328; Northumberland and Durham Guide, ii. 94.

In Fir plantations at Buttsfield, Lanchester, and Gibside, D. In Dilston Park, and near Corbridge, N.

109. SISTOTREMA.

1. *S. confluens*.

Gr. Crypt. t. 248; Fl. Eds. 405; Persoon, Syn. 551; *Hydnum sublamellosum*, Bull. t. 453, f. 1; Sowerby, t. 112.

In Fir plantations at Buttsfield, D. In Dilston Park N.

2. *S. cinereum*.

Persoon, Syn. 551; *Boletus unicolor*, Bull. t. 501, f. 3; Bolton, t. 163; With. iv. 396; Sowerby, t. 325.

In East Common Wood, Scotswood and Heaton Denes, also near Bywell, N. In Howns, Longacre, Bradley, and Gibside Woods, D. At Baydales near Darlington, D.—Mr. Backhouse.

3. *S. cerasi*.

Persoon, Syn. 552.

On the branches of the Plum and Cherry, N. and D.

4. *S. spatulatum*.

Persoon, Syn. 553; *Hydnum spatulatum*, Gr. Fl. Eds. 406.

On prostrate trunks of trees, not rare.

110. HYDNUM.

1. *H. repandum*.

Gr. Fl. Eds. 405; Crypt. t. 44; Sowerby, t. 176; Berwick Flora, ii. 162; Bolton, t. 89; With. iv. 403; Persoon, Syn. 555; Bull. t. 172; *H. rufescens*, Schæff. t. 141.

In East Common Wood, and woods near Corbridge, N. In Bradley and Cawsey Woods, D. Near Darlington.—Mr. E. Robson.

2. *H. auriscalpium*.

Gr. Fl. Eds. 406; Crypt. t. 196; Berwick Flora, ii. 162; Schæff. t. 143; Bull. t. 481; With. iv. 401; Persoon, Syn. 557; Lightfoot, 1042.

On the cones of *Pinus sylvestris*, in Raby Park, also near Darlington, D. At Benwell and Blagdon, N. In East Common Wood near Hexham.—Mr. F. Scott, Sp. In woods at Wallington.—W. C. Trevelyan, Esq. In the vicinity of Berwick, N.—Dr. G. Johnston.

3. *H. Erinaceus*.

Bull. t. 34; Dick. Crypt. Fasc. ii. 24; With. iv. 404; Persoon, Syn. 560.

In East Common and Horsley Woods, N.

4. *H. ? Barba Jovis*.

With. iv. 405; Sowerby, t. 328; Bull. 481, f. 2; Northumberland and Durham Guide, ii. 98.

On the under side of decayed wood. Near Castle Eden and Hetton, D. At Darlington, D.—Mr. E. Robson. In Felton Woods, and near Longhorsley, N.

111. THELEPHORA.

1. *T. laciniata*.

Gr. Crypt. t. 264; Persoon, Syn. 567; *Auricularia caryophyllaea*, Sowerby, t. 213; *Helvella caryophyllacea*, Bolton, 173; *Merulius caryophyllaceus*, With. iv. 200; *T. caryophyllaea*, Gr. Fl. Eds. 406.

On stumps of trees in Howns, Bradley, and Gibside Woods, D. Near Benwell, Fenham, and Denton, N. On Hexham Fell, N.—Mr. F. Scott.

2. *T. terrestris*.

Gr. Fl. Eds. 406; Persoon, Syn. 506.

In Fir plantations, but not frequent. In Twizell Dene, N.—Mrs. Selby, Sps. from Dr. G. Johnston.

112. AURICULARIA.

1. *A. ferruginea*.

With. iv. 410; Berwick Flora, ii. 161; Bull. t. 378; Sowerby, t. 26; Bolton, t. 82, d.; *Thelephora rubiginosa*, Gr. Fl. Eds. 403; Persoon, Syn. 567.

On decayed wood, not rare. In East Common Wood and Dilston Park, N.

2. *A. nicotiana*.

With. iv. 410; Bolton, t. 174; *A. tabacina*, Sowerby, t. 25; *Thelephora ferruginea*, Persoon, Syn. 569.

On wood in a state of decay, not rare, N. and D. Near Darlington.—Robson.

3. *A. corylea*.

Berwick Flora, ii. 161; *Thelephora corylea*, Gr. Fl. Eds. 408.

On dead Hazel trees, sent to Dr. G. Johnston, from the neighbourhood of Wooler, N., by J. Mitchell, Esq.

4. *A. papyrina*.
With. iv. 410; Sowerby, t. 349; Bull. t. 402;
Thelephora laevis, Persoon, Syn. 575.
On pales near Staindrop, also near Medomsley, D.
Near Darlington, D.—Mr. E. Robson.
5. *A. corticalis*.
With. iv. 410; Berwick Flora, ii. 161; Bull. t.
436, f. 1; *Thelephora quercina*, Gr. Crypt. t. 142;
Persoon, Syn. 573.
On dead branches of the Oak, not rare, N and D.
In Wallington Woods, N.
6. *A. cinerea*.
Sowerby, t. 338, f. 3; Northumberland and Dur-
ham Guide, ii. 99.
On the dead branches of trees.
Probably a variety of *A. corticalis*.
7. *A. reflexa*.
With. iv. 412; Gr. Crypt. t. 256; Berwick Flora,
ii. 161; Bull. t. 274; Sowerby, t. 27; *Boletus*
auriformis, Bolton, t. 82, f. C.; *Thelephora hir-*
suta, Persoon, Syn. 570.
On the dead branches of trees, posts, and paling,
abundant.
8. *A. fraxinea*.
Thelephora fraxinea, Gr. Fl. Eds. 410; *T. cinerea*
 β , Persoon, Syn. 580.
On dead branches of the Ash, frequent.
9. *A. tremelloides*.
With. iv. 412; Bull. t. 290; *A. corrugata*, Sow-
erby, t. 290; *Helvella mesenterica*, Bolton, t. 172;
Thelephora mesenterica, Persoon, Syn. 571; *T.*
purpurea, Persoon, Syn. 571.
On rotten wood, not rare. N. and D. On the Be-
dey Hills, abundant, and in East Common Wood,
N.
10. *A. elegans*.
Sowerby, t. 412; Purton, t. 6.
On Ash trees in Longacre Wood, D.
11. *A. laevis*.
Sowerby, t. 338, f. 2; Northumberland and Dur-
ham Guide, ii. 99; *Thelephora hepatica*, Fr. iv.
11, p. 19.
In East Common Wood and Walbottle D.
12. *A. intybacea*.
Thelephora intybacea, Persoon, Syn. 567; Gr. Fl.
Eds. 407.
Near the ground on stumps of trees.
13. *A. persistens*.
Sowerby, t. 338, f. 1; *Thelephora purpurea*, Per-
soon, Syn. 571; Gr. Fl. Eds. 407.
On stumps of trees, gate posts, &c.
14. *A. corylea*.
Thelephora corylea, Gr. Fl. Eds. 408; *T. rugosa*, β ,
Persoon, Syn. 569.
On dead Hazel sticks in woods, frequent, N. and D.
Near Berwick.—Dr. G. Johnston.
15. *A. ochracea*.
Thelephora ochracea, Gr. Fl. Eds. 408.
On decayed trees, not rare.
16. *A. Corium*.
Thelephora Corium, Gr. Crypt. t. 147; Persoon,
Syn. 574; Gr. Fl. Eds. 409.
On dead branches in Walbottle Dene, N.
17. *A. quercina*.
Thelephora quercina, Gr. Fl. Eds. 409; Persoon,
Syn. 573.
On dead branches of the Oak, not rare, N. and D.
Near Berwick.—Dr. G. Johnston.
18. *A. Padi*.
Thelephora Padi, Gr. Crypt. t. 234.
On dead branches of the Bird Cherry, Oak, and Ha-
zel, N. and D.
19. *A. sanguinolenta*.
Thelephora sanguinolenta, Gr. Fl. Eds. 409; Crypt.
t. 225.
On the trunks of Fir trees, not uncommon. At Ben-
well and Fenham, N. At Lanchester and the
Woodlands, D.
20. *A. sinuans*.
Thelephora sinuans, Gr. Fl. Eds. 409.
On the branches of old Oak trees, N. and D.
21. *A. Tilie*.
Thelephora Tilie, Gr. Fl. Eds. 410.
On dead branches of the Lime, not rare.
22. *A. epidermea*.
Thelephora epidermea, Gr. Fl. Eds. 410.
On dead branches of trees, N. and D.
23. *A. incrustans*.
Thelephora incrustans, Gr. Fl. Eds. 410; Persoon,
Syn. 577; *T. sebacea*, Persoon, Syn. 577.
On the mossy trunks of trees, not rare.
24. *A. calcea*.
Thelephora calcea, Gr. Fl. Eds. 411; Persoon, Syn.
581.
On decayed trees, frequent.
25. *A. Sambuci*.
Thelephora Sambuci, Gr. Fl. Eds. 411; Crypt. t.
242.
On dead trunks of the Elder near Team and Field
House, D. Near Benwell and Denton, N.

113. MARISMA.

1. *M. cristatum*.
Gr. Fl. Eds. 411; Persoon, Syn. 583; *Clavaria*
laciniata, Sowerby, t. 158; With. iv. 436.
In Walbottle and Denton Dene, N. In Cawsey,
Longacre, Ravensworth, and Bradley Woods, D.
2. *M. fetidum*.
Gr. Crypt. t. 46; *Clavaria anthrocephala*, With. iv.
437; Bull. t. 452, f. 1; Sowerby, t. 156.
On decayed leaves and sticks in Ravensworth Woods,
D. In East Common Wood and Scotswood Dene,
N.

114. CLAVARIA.

1. *C. cristata*.
Gr. Crypt. t. 190; Persoon, Syn. 591; *C. albida*,
Schæff. t. 170.
In Ravensworth and Longacre Woods, D. In Hea-
ton and Scotswood Dene, N.
2. *C. pratensis*.
Gr. Fl. Scot. 412; Persoon, Syn. 590; Berwick
Flora, ii. 154; *C. fastigiata*, Hook. Fl. Scot.
ii. 29; Bull. t. 538; With. iv. 438.
In meadows and pastures, and on the borders of woods.
3. *C. corniculata*.
Gr. Fl. Eds. 412; Persoon, Syn. 589; Schæff. t.
173; *C. muscoides*, Sowerby, t. 157; Bolton, t.
114; Bull. t. 351, f. A. B.; With. iv. 339.
In Gibside, Bradley, and Longacre Woods, D. In
East Common and Horsley Woods, N.
4. *C. abietina*.
Gr. Fl. Eds. 412; Persoon, Syn. 589; Gr. Crypt.
t. 117.

- In the Fir plantations at Buttsfield, D. In Blagdon Woods, N.
5. *C. coralloides*.
Gr. Fl. Eds. iv. 412; Sowerby, t. 278, upper figure; Berwick Flora, ii. 154; Bull. t. 222 and 496, f. 3; Bolton, t. 113, a. b. d.
At Farnacres near Ravensworth, and in Bradley Wood, D. Near Benwell and Denton, N.
6. *C. rugosa*.
Gr. Crypt. t. 328; Bull. t. 448, f. 2; Persoon, Syn. 594; Berwick Flora, ii. 154; *C. coralloides*, Sowerby, t. 278, the lower figure; *C. elegans*, Bolton, t. 115; With. iv. 436.
Near Beamish, Medomsley, and in Bradley Woods, D. In Heaton, Scotswood, and Walbottle Denes, N.
7. *C. cristata*.
Gr. Crypt. t. 190; Fl. Eds. 413; Persoon, Syn. 591; Berwick Flora, ii. 154; *C. albida*, Schæff. t. 170.
In Ravensworth, and Longacre Woods, D. In Heaton, Denton, and Scotswood Denes, N.
8. *C. cinerea*.
Gr. Crypt. t. 64; Fl. Eds. 413; Bull. t. 354; Persoon, Syn. 586; *C. grisea*, Persoon, Syn. 586; *C. coralloides*, With. iv. 438, var. 6.
In woods and on the borders of fields, but not very common, N. and D.
9. *C. cornua*.
Gr. Fl. Eds. 413; Persoon, Syn. 596; Sowerby, t. 40; Batsch. t. 28, f. 161; β *C. aculeiformis*, Bull. t. 463, f. 4.
On decaying Fir trees, common.
10. *C. hercynica*.
With. iv. 432; Sowerby, t. 277; *C. pistillaris*, Bull. t. 244; Schæff. t. 169; Batsch. t. 11, f. 46.
In Bradley Wood, and on the shady bank of a hedge near Gateshead, D. In Fenham Woods, and near Benwell Hall, N.
11. *C. inequalis*.
Gr. Fl. Eds. 414; *C. vermiculata*, Sowerby, t. 253; Berwick Flora, ii. 153.
In meadows and pastures, frequent.
12. *C. hevola*.
Gr. Fl. Eds. 414; Persoon, Syn. 598.
In meadows and pastures.
13. *C. vermicularis*.
Gr. Fl. Eds. 414; *C. vermiculata*, Berwick Flora, ii. 153 β ; Persoon, Mycol. i. 184.
In meadows and pastures.
14. *C. fragilis*.
Gr. Fl. Eds. 414; Crypt. t. 37; *C. churruca*, Persoon, Syn. 603; *C. gracilis*, Sowerby, t. 232; *C. cylindrica*, Bull. t. 463, f. 1.
On the borders of woods, and in meadows and pastures.
15. *C. pistillaris*.
With. iv. 434; *C. fistulosa*, Bull. t. 463, 1, A. L. M.
In meadows and pastures, not rare. At Stoney-flat near Gateshead, and at Cocken, D. Near Denton, Benwell, and Heddon-on-the-Wall, N.
16. *C. fuciformis*.
Persoon, Syn. 601; Sowerby, t. 234.
In meadows and pastures, not rare. On the Windmill Hills near Gateshead, D.
17. *C. pncillata*.
Bull. t. 448, f. 3; Northumberland and Durham Guide, ii. 105.
In Bradley Wood, D. In Blagdon Woods, N.
18. *C. militaris*.
With. iv. 431; Linn. Sp. Pl. 1652; Hudson, 638, No. 2; *Sphæria militaris*, Sowerby, t. 60; Bolton, t. 128; Purton, t. 23.
Among moss in hogs, not rare, N. and D.

115. HELOTIUM.

1. *H. coccineum*.
Persoon, Syn. 11; *Sphæria miniata*, Bolton, t. 127, f. 1; *S. tremelloides*, With. iv. 465; *Clavaria coccinea*, Sowerby, t. 294.
On rotten sticks in woods, not rare. In Heaton Wood, and Scotswood, N.

116. TYPHULA.

1. *T. phacorrhiza*.
Gr. Syn. 25, 1; *Phacorrhiza filiformis*, Gr. Crypt. t. 93; *Clavaria phacorrhiza*, Sowerby, t. 253; Persoon, Syn. 607; With. iv. 430.
Near Hetton and Castle Eden, on dead leaves, D. Near Darlington.—Mr. E. Robson.
2. *T. erythropus*.
Gr. Syn. 25, 2; Berwick Flora, ii. 152; *Phacorrhiza erythropus*, Gr. Crypt. t. 43; *Clavaria erythropus*, Sowerby, t. 606; *C. gyrans*, With. iv. 430; Bolton, t. 112.
On dead leaves and sticks at Farnacres near Ravensworth and Gibside D. In Heaton Wood, and near Fenham, N. On decayed straws in the Dene above Twizell Bridge, N.—Dr. G. Johnston.

117. GEOGLOSSUM.

1. *G. hirsutum*.
Gr. Crypt. t. 185; Fl. Eds. 416; Persoon, Syn. 608; *Clavaria ophioglossoides*, With. iv. 435; Sowerby, t. 83; Berwick Flora, ii. 153; Schæff. t. 327.
Near Medomsley and Darlington, D. In East Common, Heaton, and Scotswood, N.
2. *G. viscosum*.
Gr. Crypt. t. 55; Fl. Eds. 416; Persoon, Syn. 609.
In moist meadows near Ravensworth and Gibside, D. Near Fenham and Denton, N.
3. *G. viride*.
Gr. Crypt. t. 211; Persoon, Syn. 610.
Near Oakwood and Horsley Wood, on the banks of Tyne, N.

118. LEOTIA.

1. *L. uliginosa*.
Gr. Crypt. t. 312; Fl. Eds. 416; *L. Ludwigii*, Persoon, Syn. 611, t. 3, f. 13; *L. Bulliardii*, Syn. 612; *L. Dicksoni*, Syn. 612; *L. laricina*, Syn. 614; *Clavaria epiphylla*, Dick. Crypt. t. 9, f. 10; With. iv. 430; Sowerby, t. 293.
Among dead leaves near Medomsley, and in Longacre Wood, also near Lumley Castle, D. At Fenham, Denton, Blagdon, and Horsley Wood, N.
2. *L. lubrica*.
Gr. Crypt. t. 56; Persoon, Syn. 613; Berwick

Flora, ii. 154; *Helvella gelatinosa*, Bull. t. 473, f. 2; Sowerby, t. 70; With. iv. 407.

Among dead leaves in Walbottle Dene, N. In woods at Hilton and Lumley Castle, D. In the neighbourhood of Berwick, N., rare.—Dr. G. Johnston.

3. *L. Mitrula*.

Gr. Crypt. t. 81; Persoon, Syn. 611; *Clavaria ferruginea*, Sowerby, t. 84.

In Fir plantations at Butsfield, D. Near Corbridge and Hexham, N.

119. SPATULARIA.

1. *S. flavida*.

Gr. Crypt. t. 165; Persoon, Syn. 610; *Helvella spatulata*, Sowerby, t. 35; *H. feritoria*, Bolton, t. 96; *Clavaria spatulata*, With. iv. 431; *Elvella clavata*, Schæff. t. 149.

In woods near Butsfield, Lanchester, and Medomsley, D. Near Darlington.—Mr. E. Robson. Near Wylam and Ovingham, N.

120. HELVELLA.

1. *H. Mitra*.

Gr. Crypt. t. 86; Fl. Eds. 417; Bull. t. 190 and 466; Persoon, Syn. 615; With. iv. 406; *Elvella nigricans*, Schæff. t. 154; *E. monacella*, t. 162.

On the ground near Kibblesworth, and in Gibside, Cocken, and Lumley Woods, D. Near Stannington Bridge and Hartford, N.

2. *H. leucophæa*.

Gr. Crypt. t. 143; Fl. Eds. 417; *H. Mytra*, Sowerby, t. 39; Bull. t. 466, var. *fulva*, l. c.; *H. albidula*, Schæff. t. 282.

In woods at Ravensworth and Beamish, D. Near Darlington.—Mr. E. Robson. In woods at Fenham, Blagdon, and Wylam, N.

3. *H. fuliginosa*.

With. iv. 409; Sowerby, t. 154; *H. Mitra*, Bolton, t. 95; *H. elastica*, Bull. f. 242; *Elvella fuliginosa*, Schæff. t. 320.

In Gibside and Longacre Woods, D. In woods by the Coquet at Felton, N.

4. *H. plana*.

With. iv. 409; Northumberland and Durham Guide, ii. 98; *H. planus*, Hudson, 633.

In Longacre Wood, and Gibside Woods, D. Probably not a good species.

121. MORCHELLA.

1. *M. esculenta*.

Gr. Crypt. t. 68; Fl. Eds. 417; Persoon, Syn. 618; Lam. and De Cand. ii. 213; Berwick Flora, ii. 155; *Phallus esculentus*, With. iv. 428; Bull. t. 218; Bolton, t. 91; *Helvella esculenta*, Sowerby, t. 51, the left hand fig.

Near Ryton, Prudhoe Castle, Medomsley, Gibside, Chester-le-Street, Cocken, and Darlington, also in Weardale and Teesdale, D. Near Wylam and Corbridge, also in East Common Wood N. Near Milford on the Wansbeck, and near Twizell House.—W. C. Trevelyan, Esq. In the neighbourhood of Berwick, N., rare.—Dr. G. Johnston.

2. *M. hybrida*.

Gr. Fl. Eds. 418; Crypt. t. 89; Persoon, Syn. 620; *Helvella hybrida*, Sowerby, t. 238; Northumberland and Durham Guide, ii. 98.

Near Darlington, D. Sent to Sowerby by Mr. E. Robson. In Cocken and Lumley Woods, D.

122. PHALLUS.

1. *P. fatidus*.

Gr. Crypt. t. 213 and 214; Fl. Eds. 418; Sowerby, t. 329; Berwick Flora, ii. 155; *P. impudicus*, Bull. t. 182; Bolton, t. 92; Schæff. t. 196, 8; With. iv. 428; Persoon, Syn. 243.

Near Hexham, Wallington, Wylam, Heaton, and Jesmond, N. In Castle Eden Dene near Darlington, Cocken, Beamish, Urpeth, and the woods on the Derwent, D.

2. *P. caninus*.

With. iv. 429; Curt. Lond. t. 235; Sowerby, t. 300; Persoon, Syn. 245; Schæff. t. 330; Northumberland and Durham Guide, ii. 103.

On an old stone fence in the Spital Grounds near Hexham, N.—Mr. F. Scott, Sp. In plantations near Corbridge, N.

123. PEZIZA.

1. *P. inquinans*.

Persoon, Syn. 631; Bull. t. 460, f. 1; Schæff. t. 158; *P. polymorpha*, Lightfoot, 1055; *P. nigra*, Northumberland and Durham Guide, ii. 102.

In Ravensworth Wood near Farnacres, D. In Walbottle, Denton, and Heaton Denes, N.

2. *P. sarcoides*.

Persoon, Syn. 633; Gr. Fl. Eds. 423; *P. turbinata*, Persoon, Syn. 634.

On the trunk of an old Ash tree near Berwick.—Dr. G. Johnston.

3. *P. campanulata*.

Gr. Fl. Eds. 423; Berwick Flora, ii. 151.

On dead twigs in woods, N. and D. Near Berwick.—Dr. G. Johnston.

4. *P. cinerea*.

Persoon, Syn. 634; With. iv. 425; Sowerby, t. 64; Batsch. Obs. 80, f. 107.

On stumps of trees, not rare, N. and D. In Bradley Wood, D. In fields west of Hexham, N.

5. *P. albidula*.

With. iv. 419; Dicks. Crypt. Fasc. iii. t. 9, f. 11. In Dilston Park, East Common Wood, and Walbottle Dene, N.

6. *P. aurca*.

Gr. Fl. Eds. 424; Persoon, Syn. 635; *P. chrysocoma*, Sowerby, t. 150; With. iv. 421; Bull. t. 376, f. 2.

On decayed wood in Gibside and Ravensworth Woods, D. In Heaton and Scotswood Denes, also near Blagdon and Stannington Bridge, N.

7. *P. aurantia*.

Gr. Fl. Eds. 418; Persoon, Syn. 637; *P. coccinea*, Sowerby, t. 78; Bull. t. 474; With. iv. 417, var. 2; *Helvella coccinea*, Bolton, t. 100.

On rotten sticks in woods near Newcastle, N. and D.

8. *P. leporina*.

Persoon, Syn. 637; Schæff. 156; Batsch. 117.

In Fir plantations, N. and D.

9. *P. onotica*.

Persoon, Syn. 637; *P. leporina*, Sowerby, t. 79.

On dead leaves of the Beach, rare, N. and D.

10. *P. vesiculosa*.

With. iv. 423; Gr. Fl. Eds. 419; Crypt. t. 107; Sowerby, t. 4; Persoon, Syn. 641; Bull. t. 457;

- P. turbinata*, Persoon, Syn. 636; *Helvella vesiculosa*, Bolton, t. 175.
In Horsley and East Common Woods, in Dilston Park, in Heaton Dene, and near Fenham, N. In Gibside and Ravensworth Woods, and near Team, D.
11. *P. umbrina*.
Gr. Fl. Eds. 419; Persoon, Syn. 633; *P. cochleata*, Sowerby, t. 5; With. iv. 420; Bolton, t. 99; Bull. t. 154.
On the ground near Sheepcote, Medamsley, Urpeth, and Chester-le-Street, D. Near Darlington, D.—Mr. E. Robson. In East Common Wood and Dilston Park, N.
12. *P. repanda*.
Gr. Crypt. t. 59; Fl. Eds. 419.
Under Beach trees in Heaton Wood, N.
13. *P. stipitata*.
Hudson, 636; With. iv. 414; Bull. t. 457; Northumberland and Durham Guide, ii. 100; *P. micropus*, Gr. Fl. Eds. 419; Crypt. Fl. t. 76; Persoon, Syn. 645; *Helvella hispida*, Bolton, t. 97; Schæff. t. 167.
In Longacre and Hilton Woods, D. In Benwell and Scotswood Denes, N.
14. *P. minutula*.
With. iv. 415; *P. spadicea*, Batsch. 39, 217.
In Heaton Dene near the Busy Cottage, N.
15. *P. cupularis*.
With. iv. 415; Bull. t. 369, f. 3.
In Dilston Park and Oak Wood, N.
16. *P. radicata*.
With. iv. 415; Bull. t. 485, f. 2.
Near Castle Eden and Hetton, D. Near Darlington.—Mr. E. Robson.
17. *P. sulphurea*.
Gr. Crypt. t. 83; Fl. Eds. 420; Persoon, Syn. 649.
On decaying stems of herbaceous plants.
In Heaton Dene near the Busy Cottage, N.
18. *P. nidulus*.
Gr. Fl. Eds. 420; Berwick Flora, ii. 149.
On the decayed stems of large herbaceous plants near Berwick.—Dr. G. Johnston.
19. *P. Hydnoidea*.
Sowerby, t. 178; Berwick Flora, ii. 150; *P. sulphurea*, Persoon, Syn. 649?
Near Berwick, rare.—Dr. G. Johnston.
20. *P. scutellata*.
Gr. Fl. Eds. 423; Sowerby, t. 24; Persoon, Syn. 650; Berwick Flora, ii. 148; With. iv. 422; Bolton, t. 103; Bull. t. 10 and 438, 2; Batsch. t. 54.
On rotten wood and old cow-dung, frequent.
21. *P. granuliformis*.
Persoon, Syn. 651; Gr. Fl. Eds. 421; Berwick Flora, ii. 149; *P. sessilis*, Sowerby, t. 389, f. 1; *P. villosa*, Persoon, Syn. 655.
On the decayed stems of herbaceous plants, N. and D. Near Berwick.—Dr. G. Johnston.
22. *P. coccinea*.
Gr. Crypt. t. 171; Fl. Eds. 421; With. iv. 417; Berwick Flora, ii. 152; Bolton, t. 104; Persoon, Syn. 652; *P. epidendra*, Bull. t. 467; Sowerby, t. 13; *P. cyathoides*, Lightfoot, 1052 (in part).
On rotten sticks in woods near Newcastle, not rare, N. and D. In Twizell Dene, N.—Dr. G. Johnston.
23. *P. melastoma*.
Sowerby, t. 149; Northumberland and Durham Guide, ii. 100.
On sticks in East Common Wood near Hexham, N.—Mr. F. Scott, Sp.
24. *P. calyciformis*.
With. iv. 413; Batsch. 135.
In Dilston Park and East Common Wood, N.
25. *P. virginea*.
Gr. Fl. Eds. 421; Persoon, Syn. 653; Berwick Flora, ii. 152; *P. nivea*, Sowerby, t. 65; With. iv. 413; *P. lactea*, Bull. t. 376, f. 3.
On rotten sticks in Bradley Wood, D. In Heaton and Walbottle Denes, also in Dilston Park and East Common Wood, N. Near Berwick.—Dr. G. Johnston.
26. *P. pulchella*.
Persoon, Syn. 653; Berwick Flora, ii. 149; *P. bicolor*, Bull. t. 410; Sowerby, t. 17; Northumberland and Durham Guide, ii. 100.
On rotten sticks in woods near Newcastle, N. and D. On the Furze near Berwick upon Tweed.—Dr. G. Johnston.
27. *P. clandestina*.
Persoon, Syn. 655; Lam. and De Cand. ii. 33; Berwick Flora, ii. 149; Bull. t. 416, f. 5.
On dead branches of the Willow, near Berwick.—Dr. G. Johnston.
28. *P. fusca*.
Gr. Crypt. t. 192; Persoon, Syn. 657.
On the dead branches of trees in woods near Newcastle.
29. *P. inflexa*.
With. iv. 418; Gr. Fl. Eds. 422; Sowerby, t. 306; Bolton, t. 106, f. 2; Northumberland and Durham Guide, ii. 100; *P. coronilla*, Persoon, Mycol. i. 287.
In Gibside and Bradley Woods, D. Near Darlington.—Mr. E. Robson. In Castle Eden and Ryhope Denes, D.
30. *P. ochroleuca*.
With. iv. 418; Gr. Fl. Eds. 422; Sowerby, t. 115; Berwick Flora, ii. 151; Bolton, t. 105, f. 1; *P. firma*, Persoon, Syn. 658.
On rotten sticks in Longacre Wood, also near Healeyfield Lead Mine, D. In Heaton Dene, N.
31. *P. infundibulum*.
Gr. Fl. Eds. 423; Persoon, Mycol. i. 279; *P. calyculus*, With. iv. 418; Sowerby, t. 116; Persoon, Syn. 660; Batsch. 57; Bull. t. 416, f. 3.
In Scotswood Dene, East Common Wood, and Dilston Park, N.
32. *P. fructigena*.
Gr. Fl. Eds. 422; Sowerby, t. 117; Bull. t. 228; Batsch. 150; With. iv. 419; Persoon, Syn. 660.
In woods on Nuts, Acorns, and Beach-mast, N. and D.
33. *P. serotina*.
Persoon, Syn. 661; *Helvella cartilagina*, With. iv. 407; Bolton, t. 101, f. 1.
In Oak Wood and Scotswood Dene, N.
34. *P. cartilagina*.
Sowerby, t. 369, f. 2; Berwick Flora, ii. 148; *P. scutellata* β , With. iv. 388, var. 2.

- Among moss on clay banks near Berwick.—Dr. G. Johnston.
35. *P. æruginæa*.
Gr. Crypt. t. 241; Persoon, Syn. 663; Berwick Flora, ii. 151; *Helvella æruginæa*, Sowerby, t. 347; With. iv. 409; Persoon, Syn. 617.
On half-rotten wood, not rare. In Long-acre Wood, D. In Heaton Dene and Wallington Woods, N. Near Berwick.—Dr. G. Johnston.
This *Peziza*, as well as the decayed wood on which it grows, is of a verdigris green colour. To ascertain the nature of this colouring matter, Mr. W. C. Trevelyan is at present engaged in a series of chemical experiments, the result of which will appear in the Society's Transactions.
36. *P. citrina*.
Gr. Fl. Eds. 424; Persoon, Syn. 663; Berwick Flora, ii. 150; *P. aurea*, Sowerby, t. 150; *Helvella aurea*, Bolton, t. 98, f. 2; With. iv. 408.
On rotten sticks in woods, N. and D. In Bradley Wood, D. Near Berwick.—Dr. G. Johnston.
37. *P. pallescens*.
Persoon, Syn. 664; Berwick Flora, ii. 151.
On dead twigs in woods, N. and D. Near Berwick.—Dr. G. Johnston.
38. *P. faginea*.
Persoon, Syn. 664; Berwick Flora, ii. 150.
On the fruit of the Beech near Berwick.—Dr. G. Johnston.
39. *P. atra*.
Persoon, Syn. 669; Berwick Flora, ii. 148.
On the stalks of large Herbaceous plants near Newcastle, N. and D. Near Berwick.—Dr. G. Johnston.
40. *P. immersa*.
Sowerby, t. 369, f. 9; Berwick Flora, ii. 148.
On rotten wood, gate posts, &c., N. and D. Near Berwick.—Dr. G. Johnston.
41. *P. nigra*.
Berwick Flora, ii. 148; *Bulgaria inquinans*, Bot. Gall. ii. 738.
On dead Ash trees near Berwick.—Dr. G. Johnston.
42. *P. hispida*.
With. iv. 424; Sowerby, t. 147; Bull. t. 204; Schæff. t. 151.
In Fir plantations near Buttsfield, Medomsley, and in Bradley Wood, D. In Dilston Park, East Common, and Horsley Woods, N.
43. *P. polymorpha*.
With. iv. 425; Sowerby, t. 428; Batsch. t. 50; Bull. t. 116 and 460, f. 1; Schæff. 158.
Near Wylam and Walbottle, N. Near Darlington and Barnardcastle, D.—Mr. E. Robson.
44. *P. alba-violascens*.
Spreng. Syst. Veg. iv. 504; Berwick Flora, ii. 149.
On dead branches of the Furze, near Berwick.—Dr. Johnston.
45. *P. plumbea*.
Gr. Crypt. t. 11; Berwick Flora, ii. 150.
On rotten wood and sticks, not rare. Near Berwick.—Dr. G. Johnston.
46. *P. punctiformis*.
Gr. Crypt. t. 63.
On dead Oak and Beach leaves.
47. *P. crumpeus*.
Gr. Crypt. t. 99.
On the decaying leaf-stalks of the Sycamore.

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48. *P. reticulata*.
Gr. Crypt. t. 156.
On the ground near Fenham, N.

124. ASCOBOLUS.

1. *A. furfuraceus*.
Gr. Crypt. t. 307; Fl. Eds. 426; Persoon, Syn. 676; *Peziza stercoraria*, Bull. t. 376; Sowerby, t. 18 and 389; With. iv. 421; *P. fusca*, Bolton, t. 109, f. 2; *P. atra*, Hudson, 639; With. iv. 426.
On cow-dung, frequent.

125. STRICTIS.

1. *S. radiata*.
Gr. Crypt. t. 227; *Peziza strictis radiata*, Persoon, Syn. 674; *P. marginata*, With. iv. 419; Sowerby, t. 16.
On sticks in Bradley and Gibside Woods, D. In Heaton, Scotswood, and Walbottle Denes, N.

126. CENANGIUM.

1. *C. ferruginosum*.
Gr. Syn. 20; Fries, iv. t. 197; *Peziza Abietis*, Persoon, Syn. 671; Berwick Flora, ii. 147; *P. cervina*, Persoon, Syn. 647.
On the small branches of the Scotch Fir, frequent.

127. TYMPANIS.

1. *T. conspersa*.
Gr. Syn. 20; Crypt. t. 338; *Peziza Aneuparia*, Gr. Fl. Ed. 426; *P. populæna*, Persoon, Syn. 671; *P. Piri*, 671.
On the dead branches of trees, not rare.

128. TREMELLA.

1. *T. mesenterica*.
Gr. Fl. Eds. 426; Persoon, Syn. 622; Eng. Bot. 709; With. iv. 93; Bull. t. 406; Berwick Flora, 144.
On the dead branches of trees, but not very common, N. and D. In the plantations at New-water Haugh, near Berwick.—Dr. G. Johnston.
2. *T. clavariaformis*.
Persoon, Syn. 629; Gr. Fl. Eds. 427; *Podisoma clavariaformis*, Bot. Gall. ii. 881; Berwick Flora, ii. 146.
On the bark of Juniper at the Bede Hills, N. On the same shrub near Berwick.—Dr. G. Johnston.
3. *T. Auricula-juda*.
Persoon, Syn. 624; *T. auricula*, Eng. Bot. 2447; *Peziza auricula*, With. iv. 420.
On old Elder trees in hedges near Gateshead, and in Long-acre Wood, D. Near Benwell, Denton, Fenham, and Hexham, N.
4. *T. spiculosa*.
Persoon, Syn. 624; Berwick Flora, ii. 145; *Exidia glandulosa*, Bot. Gall. ii. 732.
Near Berwick.
Dr. G. Johnston considers this distinct from *T. arborea*.
5. *T. albida*.
Gr. Fl. Eds. 427; With. iv. 90; Berwick Flora, 145; Eng. Bot. 2117; Bull. t. 221; *T. candida*, Persoon, Syn. 624.
On the dead branches of trees, rare.

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6. *T. arborea*.
Gr. Fl. Eds. 427; Eng. Bot. 2448; With. iv. 91;
Bull. t. 420.
On the dead branches and trunks of trees.
7. *T. sarcoides*.
Gr. Fl. Eds. 427; Eng. Bot. 2450; Berwick
Flora, 145; Bolton, t. 101, f. 2; With. iv. 92;
Batsch. t. 53; *T. amethystea*, Bull. t. 499, f. 5.
On rotten wood, frequent.
8. *T. granulata*.
With. iv. 95; Eng. Bot. 324; Bull. 10, 17.
In Bradley Wood, by a rivulet, D. In Dilstoo Park
and Oak Wood, N.

129. DACRYMYCES.

1. *D. Urticae*.
Bot. Gall. ii. 729; Berwick Flora, ii. 144; *Tremella Urticae*, Persoon, Syn. 628; *Fusarium tremelloides*, Gr. Crypt. t. 10.
On the dead stems of the Nettle.
2. *D. deliquescens*.
Bot. Gall. ii. 729; Berwick Flora, ii. 143; *D. stillaris*, Gr. Crypt. t. 159; *Tremella deliquescens*, Gr. Fl. Eds. 427; *T. lacrymalis*, Persoon, Syn. 628; Bull. t. 445, f. 3.
On wood in a state of decay, frequent.

130. AGYRUM.

1. *A. rufum*.
Gr. Syn. 24; Fries, iv. t. 232; *Tremella ? Stictis*, Persoon, Syn. 628.
On old dry Fir wood, not rare.

131. ACROSPERMUM.

1. *A. compressum*.
Gr. Crypt. t. 182; *Clavaria Herbarum*, Persoon, Syn. 605; Purton, t. 19, f. 3; Sowerby, t. 353.
On the dead stems of herbaceous plants.

132. NIDULARIA.

1. *N. companulata*.
With. iv. 426; Purton, t. 17, f. 3; Sowerby, t. 28; *N. vernicosa*, Bull. t. 443, f. 1; *Peziza lentifera*, Bolton, t. 102, f. 1; *Cyathus olla*, Persoon, Syn. 237; Gr. Fl. Eds. 459.
Near the Windmill Hills Gateshead, and at Ravensworth, Team, and Medomsley, D. Near Benwell and Denton, also in East Common Wood, N. Near Darlington.—Mr. E. Robson.
2. *N. striata*.
With. iv. 426; Sowerby, t. 29; Purton, t. 17, f. 1; *Peziza striata*, Bolton, t. 102, f. 2; *P. hirsuta*, Schæff. t. 178; Bull. t. 40; *Cyathus striatus*, Persoon, Syn. 237.
On decayed wood at Spring Gardens and Fenham, N.
3. *N. levis*.
With. iv. 427; Purton, t. 17, f. 2; Sowerby, t. 30; Bull. 140; *Cyathus crucibulum*, Gr. Crypt. t. 34; Fl. Eds. 459; Persoon, Syn. 233; Berwick Flora, ii. 191.
On rotten wood at Kenton, Wallington, and in East Common Wood, N. Near the Redheugh above Gateshead, D. Near Darlington, D.—Mr. E. Robson.

LYCOPERDACEÆ.

133. SCLERODERMA.

1. *S. Ccpa*.
Gr. Crypt. t. 66; Persoon, Syn. 155; Berwick Flora, ii. 186; *Tuber solidum*, With. iv. 443.
Near Wallington, N.—W. C. Trevelyan, Esq.
2. *S. Semen*.
Gr. Crypt. t. 144, f. 2; Persoon, Syn. 123; *Spharia Brassicae*, Bolton, t. 119, f. 2; Sowerby, 393, f. 3; With. iv. 471; Lam. and De Cand. v. 113.
On putrid leaves of the Cabbage and stalks of the Potatoe, N. and D. Near Darlington, D.—Mr. Backhouse.
3. *S. citrinum*.
Persoon, Syn. 153; *Lycoperdon citrinum*, Bolton, t. 116.
Near Medomsley, D. Near Wylam and Bywell, N.
4. *S. verrucosum*.
Persoon, Syn. 154; Gr. Crypt. t. 48; *Lycoperdon verrucosum*, Bull. t. 24; With. iv. 451; *L. defossum*, Sowerby, t. 311.
By the sides of woods near Medomsley, Wolsingham, and Lanchester, and on stone walls near Gateshead, and Ravensworth, D. In Dilston Park, Oak Wood, and East Common Wood, N.

134. DIDYMIUM.

1. *D. globosum*.
Gr. Syn. 14; *Diderma globosum*, Gr. Crypt. t. 122; Persoon, Syn. 167.
On dead Oak and Beach leaves, common.

135. GEASTRUM.

1. *G. coliforme*.
Persoon, Syn. 131; *Lycoperdon coliforme*, Dick. Crypt. Fasc. i. t. 3, f. 4; Sowerby, t. 313; With. iv. 444; Northumberland and Durham Guide, ii. 105.
In pastures on Langley Moor near Lanchester, D. Near Wylam and Bywell, N.
2. *G. quadrifidum*.
Persoon, Syn. 133; *Lycoperdon fornicatum*, With. iv. 446; Sowerby, t. 198; Purton, iii. 480.
Near Castle Eden, D. Near Barnardcastle.—Rev. James Dalton. Near Darlington, D.—Mr. E. Robson.
3. *G. hygrometricum, β anglicanum*.
Persoon, Syn. 135; *Lycoperdon recoillgens*, With. iv. 447; Sowerby, t. 401; Bull. t. 238.
Near Easington and Harton, D. Near Darlington.—Mr. E. Robson.
4. *G. multifidum*.
Gr. Crypt. t. 306; *G. coronatum α*, Persoon, Syn. 132; *Lycoperdon stellatum*, Bolton, t. 179; With. iv. 445, var. 1; Sowerby, t. 312; Purton, t. 20; Linn. Tr. ii. 54.
Near Wylam, Stamfordham, and Hexham, N. Near Castle Eden and Easington, D. Near Darlington.—Mr. E. Robson. Near Barnard Castle, D.—Rev. Jas. Dalton.

136. SPHÆROBOLUS.

1. *S. stellatus*.
Gr. Crypt. t. 158; Persoon, Syn. 115; Purton, t.

- 30; *Lycoperdon Corpobolus*, Sowerby, t. 22; With. iv. 449.
On rotten wood near Warney Bourn and Chester-le-Street, D. Near Gosforth and Denton, N.

137. LYCOPERDON.

1. *L. giganteum*.
Persoon, Syn. 140; Batsch. El. Fung. t. 165; Berwick Flora, ii. 187; *L. Proteus*, With. iv. 452, var. 1; Sowerby, t. 332 (upper figure); *L. Bovista*, Bull. t. 447; *Bovista gigantea*, Gr. Crypt. t. 336; Fl. Eds. 458.
In fields near Lintz Green and Medomsley, D. In pastures at Spindlestone, N.—Wallis.
2. *L. nigrescens*.
L. Bovista, Sowerby, t. 331; *Bovista nigrescens*, Persoon, Syn. 136; Gr. Fl. Eds. 458.
In meadows and pastures, not rare, N. and D.
3. *L. Bovista*.
Persoon, Syn. 141; Gr. Fl. Eds. 456; Berwick Flora, ii. 187; *L. Proteus*, Sowerby, t. 332 (middle figure).
In pastures, not rare, N. and D. Under the floors of the Vicarage and Infirmary, Newcastle.
4. *L. pratense*.
Gr. Fl. Eds. 457; Persoon, Syn. 142; Berwick Flora, ii. 187; *L. Proteus cepaforme*, Bull. t. 435, f. 2.
In pastures, frequent.
5. *L. excipuliforme*.
Gr. Fl. Eds. 457; Persoon, Syn. 143; Berwick Flora, ii. 187; *L. Proteus*, var. *excipuliforme*, Bull. t. 550, f. 2; *L. Proteus*, Sowerby, t. 332 (lower figures); Bolton, t. 117, f. 9.
In pastures, rare.
6. *L. pyriforme*.
Persoon, Syn. 148; Gr. Crypt. t. 304; *L. Proteus*, var. *pyriforme*, With. iv. 453; var. *ovoidcum*, Bull. t. 435, f. 3.
On the rotten stumps of trees, and on the ground in woods, not rare.

138. TULOSTOMA.

1. *T. brumale*.
Gr. Crypt. t. 340; Persoon, Syn. 139; *Lycoperdon pedunculatum*, With. iv. 451; Bull. t. 294 and 471; Sowerby, t. 406.
On old stone walls among moss, N. and D.

139. ONYGENA.

1. *O. equina*.
Gr. Syn. 11; Crypt. t. 343; Persoon, Syn. 203; Berwick Flora, ii. 189; *Lycoperdon equinum*, With. iv. 450.
On the horns and hoofs of animals in a state of decay. Near Yetholm.—Rev. A. Baird.

140. LYCOGOLA.

1. *L. argentea*.
Gr. Fl. Eds. 453; Crypt. t. 106; Berwick Flora, ii. 188; *Reticularia Lycoperdon*, With. iv. 459; Sowerby, t. 272.
On rotten gate posts, &c.
2. *L. miniata*.
Gr. Crypt. t. 38; Berwick Flora, ii. 188; Per-

soon, Syn. 158; *Lycoperdon epidendrum*, With. iv. 457; Sowerby, t. 52; Bolton, t. 119, f. 1.

On rotten wood, not rare. Near Darlington, D.—Mr. E. Robson. In Dilston Park, N. Near Berwick.—Dr. G. Johnston.

3. *L. fuliginosa*.

Berwick Flora, ii. 189.

On decayed Fir trees near Berwick.—Dr. G. Johnston.

141. LEANGIUM.

1. *L. Trevelyani*.

Gr. Syn. 14; Crypt. t. 132.

On *Bryum ligulatum* in woods at Hartburn, north of Wallington, N.—W. C. Trevelyan, Esq.

142. PHYSARUM.

1. *P. luteum*.

Persoon, Syn. 172; *Sphaerocarpus luteus*, Bull. t. 407, f. 2; *Trichia flava*, With. iv. 474; Bolton, t. 93, f. 4.

On rotten timber in Gibside and Ravensworth Woods, D.

2. *P. ? globuliferum*.

Persoon, Syn. 175; *Sphaerocarpus globuliferus*, Bull. t. 484, f. 3; *Trichia globulifera*, With. iv. 475; *T. sphaerocarpa*, Sowerby, t. 240; *Clathrus sphaerocarpus*, Bolton, t. 94, f. 1.

On rotten wood in Cawsey Dene, and near Ryton and Gateshead, D.

3. *P. nutans*.

Persoon, Syn. 171; Hook. Fl. Scot. ii. 12; *Trichia alba*, Lam. and De Cand. ii. 252; Sowerby, t. 259; *Sphaerocarpus albus*, Bull. t. 407, f. 3; *Clathrus sphaerocephalus*, Bolton, t. 91, f. 1.

On dead leaves and sticks in Cawsey Dene, D. In Heaton and Denton Denes, N.

4. *P. aureum*.

Gr. Crypt. t. 124; Persoon, Syn. 173.

On decayed trunks of trees, not rare. Near Wallington, N.—W. C. Trevelyan, Esq.

5. *P. furinaccum*.

Bot. Gall. ii. 860; Berwick Flora, ii. 190.

On decayed Beach leaves, not rare. Near Berwick.—Dr. G. Johnston.

143. LEOCARPUS.

1. *L. vernosus*.

Gr. Crypt. t. 111; Berwick Flora, ii. 189; Fl. Eds. 453; *Diderma vernosum*, Persoon, Syn. 165; *Lycoperdon fragile*, With. iv. 458; Sowerby, t. 136; Dick. Crypt. t. 3, f. 6.

On moss in Cawsey Wood, D. In Heaton, Scotswood, and Walbottle Denes, N. Near Berwick.—Dr. G. Johnston.

144. CRATERIUM.

1. *C. leucocephalum*.

Gr. Syn. 13; Crypt. t. 65; Berwick Flora, ii. 190.

On dead leaves and straws in woods.—Dr. G. Johnston.

145. PERICHÆNA.

1. *P. populina*.

Gr. Crypt. t. 252; *Licca circumscissa*, Persoon,

Syn. 196; Gr. Fl. Eds. 451; *Sphaerocarpus sub-sessilis*, Bull. t. 417, f. 5.
Between the wood and the bark of Aspen trees near Jesmond, N.

146. LICEA.

1. *L. fragiformis*.
Gr. Crypt. t. 308; *Tubulina fragiformis*, Persoon, Syn. 198; *Trichia fragiformis*, With. iv. 475; *Sphaerocarpus fragiformis*, Bull. t. 384.
On rotten wood and dead leaves, not rare.

147. TRICHIA.

1. *T. nigripes*.
Persoon, Syn. 178; *T. pyriformis*, With. iv. 474; Sowerby, t. 400, f. 6; *Sphaerocarpus pyriformis*, Bull. t. 417, f. 2.
In Long-acre and Gibside Woods, D. In East Common and Horsley Woods, N.
2. *T. ovata*.
Persoon, Syn. 180; Berwick Flora, ii. 190; Gr. Fl. Eds. 454; *T. turbinata*, Sowerby, t. 85; With. iv. 476; *Clathrus turbinatus*, Bolton, t. 94, f. 3.
In Long-acre and Gibside Woods, D. In Horsley Wood and Scotswood Dene, N. Near Berwick.—Dr. G. Johnston.
3. *T. coccinea*.
Lam. and De Cand. ii. 255; *T. rufa*, With. iv. 473; *Sphaerocarpus coccineus*, Bull. t. 368, f. 1.
In East Common Wood and Dilston Park, N.
4. *T. faginea*.
Berwick Flora, ii. 191.
On dead branches of the Beach near Berwick.—Dr. G. Johnston.
5. *T. clavata*.
Lam. and De Cand. vi. 101; Persoon, Syn. 178; Berwick Flora, ii. 190.
On decayed Fir wood near Berwick.—Dr. G. Johnston.

148. ARCYRIA.

1. *A. punicea*.
Gr. Crypt. t. 130; Fl. Eds. 455; Persoon, Syn. 185; Berwick Flora, ii. 191; *Trichia cinnabaris*, Bull. t. 502, f. 1; *T. denudata*, With. iv. 472; Sowerby, t. 49; *Clathrus denudatus*, Bolton, t. 93, f. 2.
On rotten wood in Long-acre and Gibside Woods, D. In Heaton and Scotswood Denes, N. At Murton Crag, N.—Dr. G. Johnston.
2. *A. flava*.
Gr. Crypt. t. 309; Persoon, Syn. 184; *A. nutans*, Gr. Fl. Eds. 455; *Trichia nutans*, Bull. t. 502, f. 3; With. iv. 474; Sowerby, t. 260.
On rotten wood near Benwell and Denton. N.

149. STEMONITES.

1. *S. fasciculata*.
Gr. Crypt. t. 170; Berwick Flora, ii. 191; Persoon, Syn. 187; *Trichia axifera*, Bull. t. 177, f. 1; *T. nuda*, With. iv. 472; Sowerby, t. 20; *Clathrus nudus*, Bolton, t. 93, f. 1.
On rotten wood at Wallington, and in Dilston Park and Heaton Dene, N. In Ravensworth and Gibside Woods, D. Near Berwick.—Dr. G. Johnston.

150. DICTYDIUM.

1. *D. cernuum*.
Gr. Crypt. t. 153; *Cribraria cernua*, Persoon, Syn. 189.
On rotten wood, not very rare.

151. TRICHOMERMA.

1. *T. viride*.
Gr. Crypt. t. 271; Persoon, Syn. 231.
On decayed trees, common.

152. ILLOSPORUM.

1. *I. roscum*.
Gr. Syn. 10; Berwick Flora, ii. 144; *Palmella rosca*, Crypt. t. 51; *Tubercularia rosca*, Persoon, Syn. 114.
On the bark of the Hawthorn and Apple, not rare, N. and D. On Lichens in Twizell Dene, and near Berwick.—Dr. G. Johnston.

153. SCLEROTIUM.

1. *S. Scmen*.
Gr. Crypt. t. 144, f. 2; Persoon, Syn. 128; Berwick Flora, ii. 137; *Sphaeria Brassicae*, Bolton, t. 119, f. 2; Sowerby, t. 393, f. 3; With. iv. 471.
On stalks of putrid vegetables, common.
2. *S. clavus*.
Lam. and De Cand. v. 115; Berwick Flora, ii. 138.
On the seeds of *Agrostis alba*. Near Berwick.—Dr. G. Johnston.
3. *S. muscorum*.
Persoon, Syn. 120; Berwick Flora, ii. 138; *S. subterraneum*, Gr. Fl. Eds. 461; Crypt. t. 101.
On the roots of *Hypna* in Longridge Dene near Berwick.—Dr. G. Johnston.
4. *S. Pteridis*.
Gr. Fl. Eds. 463; Berwick Flora, ii. 139.
On the stems of *Pteris aquilina*, common. On *Aspidium Filix-mas*.—Dr. G. Johnston.
5. *S. salicinum*.
Gr. Fl. Eds. 462; *Xyloma salicinum*, Bot. Gall. ii. 875; Berwick Flora, ii. 140.
On the leaves of the broad-leaved Willows. Near Berwick.—Dr. G. Johnston.
6. *S. populeum*.
Gr. Fl. Eds. 463; Persoon, Syn. 125; *Xyloma populeum*, Bot. Gall. ii. 875; Berwick Flora, ii. 140.
On the leaves of the Aspen. Near Berwick.—Dr. G. Johnston.
7. *S. durum*.
Gr. Crypt. t. 1; Persoon, Syn. 121; Berwick Flora, ii. 137; *Sphaeria solida*, Sowerby, t. 314.
On the dead stems of large herbaceous plants, frequent, N. and D. Near Berwick.—Dr. G. Johnston.
8. *S. quercinum*.
Gr. Crypt. t. 77; Persoon, Syn. 124; *S. pustula*, Spring. Syst. Veg. iv. 522; Berwick Flora, ii. 137.
On dead Oak leaves.

154. ERYSIPHE.

1. *E. communis*.
Gr. Syn. 9; *E. Pisi*, Lam. and De Cand. ii. 274;

Berwick Flora, ii. 141; Gr. Crypt. t. 134; E. *Trifolii*, Fl. Eds. 459.

On Trefoil, Vetches, and the Garden Pea, frequent. Near Berwick.—Dr. G. Johnston.

2. *E. adunca*.

Gr. Crypt. t. 296; E. *Populi*, Lam. and De Cand. vi. 104; E. *Prunastri*, Lam. and De Cand. l. c. p. 108.

On both sides of the leaves of the Willow, Poplar, Elm, &c., common.

3. *E. compositarum*.

Bot. Gall. ii. 870; Berwick Flora, ii. 142; E. *depresso*, Link. in Willd. vi. i. 110; E. *Aretii*, Gr. Fl. Eds. 460; E. *Artemisiae*, Gr. Fl. Eds. 459.

On the leaves of the Burdock and Mugwort.

4. *E. divaricata*.

Bot. Gall. ii. 870; Link. in Willd. vi. i. 120; Berwick Flora, ii. 142; E. *Lonicerae*, Gr. Fl. Eds. 461.

On the leaves of the Honeysuckle.

5. *E. penicillata*.

Link. 113; Bot. Gall. ii. 871; Berwick Flora, ii. 142; E. *berberidis*, Lam. and De Cand. v. 275.

On the Barberry.—Dr. G. Johnston.

6. *E. lamprocarpa*.

Bot. Gall. ii. 869; Berwick Flora, ii. 142; *Alphitomorpha lamprocarpa*, Spreng. Syst. Veg. iv. 408.

On the leaves of *Plantago lanceolata*.—Dr. G. Johnston.

7. *E. guttata*.

Link. 116; Bot. Gall. ii. 871; Berwick Flora, ii. 143; E. *Coryli*, Lam. and De Cand. ii. 272; *Sclerotium Erysiphe* β , Persoon, Syn. 124.

On the leaves of the Hazel.—Dr. G. Johnston.

155. LASIOBOTRYES.

1. *L. Lonicerae*.

Gr. Crypt. t. 191; *Xyloma Xylostei*, Lam. and De Cand. ii. 599 and vi. 154.

On the leaves of the Honeysuckle.

156. AGERITA.

1. *A. candida*.

Gr. Crypt. t. 268, f. 1.

On wood in decay, not rare.

157. TUBERCULARIA.

1. *T. granulata*.

Gr. Crypt. t. 187; Persoon, Syn. 113; Berwick Flora, ii. 147.

On dead branches of the Sycamore near Berwick, rare.—Dr. G. Johnston.

2. *T. vulgaris*.

Persoon, Syn. 112; Berwick Flora, ii. 146; *Tremella purpurea*, Linn. Syst. Veg. xv. 1004; *Spharia miniata*, Bolton, t. 127, f. 1.

On the dead branches of the Currant, not rare, N. and D. Near Berwick.—Dr. G. Johnston.

3. *T. confluens*.

Gr. Fl. Eds. 463; Persoon, Syn. 113; Berwick Flora, ii. 146.

On dead branches of trees, very common.

158. SPUMARIA.

1. *S. Mucilogo*.

Gr. Crypt. t. 267; Persoon, Syn. 163; *S. alba*, Gr.

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Fl. Eds. 452; *Reticularia alba*, Bull. 326; Sowerby, t. 280; *R. ovata*, With. iv. 461, var. 2. On dead sticks and grass, frequent.

159. ÆTHALIUM.

1. *Æ. flavum*.

Gr. Crypt. t. 272; *Fuligo flava*, Persoon, Syn. 161; *F. vaporaria*, Persoon, Syn. 161; Hook. Fl. Scot. ii. 12; *F. candida*, Persoon, Syn. 162; *Reticularia hortensis*, Bull. t. 424; Sowerby, t. 399, f. 1; *R. lutea*, Sowerby, t. 399, f. 2; Bull. t. 380, f. 1; *R. ovata*, With. iv. 460; *R. septica*, With. iv. 460; *R. carnosa*, Sowerby, t. 399, f. 3; *R. cerea*, Sowerby, t. 399, f. 4; *Mucor septicus*, Linn. Sp. Pl. 1656; Bolton, t. 134; Lightfoot, 1073.

On tan in hot-houses, and also among dead leaves and decaying trees, very frequent.

160. RETICULARIA.

1. *R. minuta*.

Gr. Syn. 11; *Lycogola minuta*, Crypt. t. 40.

On dead leaves and sticks, not rare.

2. *R. argentea*.

Gr. Syn. 11; *Lycogola argentea*, Crypt. t. 106; Persoon, Syn. 157; *R. Lycoperdon*, Bull. t. 446, f. 4 and t. 476, f. 1; Sowerby, t. 272; With. iv. 459; *Mucor lycogolus*, Bolton, t. 133; *M. cornutus* Schreffi. t. 195, f. 3.

On rotten wood, leaves, &c., frequent, N. and D. Near Berwick.—Dr. G. Johnston.

161. ANGIORIDIUM.

1. *A. sinuosum*.

Gr. Crypt. t. 310; *Reticularia sinuosa*, Bull. t. 446, f. 3; Sowerby, t. 6; With. iv. 460; *Physarum bivalve*, Persoon, Syn. 169.

On the stumps of Willows by the Team, and in Gib-side Woods, D.

UREDINEÆ.

162. PUCCINIA.

1. *P. Anemone*.

Persoon, Syn. 226; *Æcidium fuscum*, Sowerby, t. 53.

On the leaves of the wood Anemone, frequent.

2. *P. Rubi*.

Gr. Fl. Eds. 428; Lam. and De Cand. ii. 218; Berwick Flora, ii. 193; *P. mucronata* β , Persoon, Syn. 230.

On the leaves of the common Bramble.

3. *P. Potentilla*.

Gr. Fl. Eds. 428; Crypt. t. 57; Berwick Flora, ii. 193.

On the Strawberry and Strawberry-leaved Cinquefoil, N. and D.

4. *P. gracilis*.

Gr. Fl. Eds. 428; Berwick Flora, ii. 193; *P. Rubi Idæi*, Lam. and De Cand. v. 54.

On the wild Raspberry.—Dr. G. Johnston.

5. *P. Ulmarie*.

Gr. Fl. Eds. 433; Berwick Flora, ii. 194.

On the leaves of the Meadowsweet, near Berwick.—Dr. G. Johnston.

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6. *P. Circææ*.
Gr. Fl. Eds. 429; Persoon, Syn. 228; Berwick Flora, ii. 194.
On the leaves of the Enchanter's Nightshade.—Dr. G. Johnston.
7. *P. Aviculariæ*.
Gr. Fl. Eds. 429; Persoon, Syn. 227; Lam. and De Cand. ii. 221; Berwick Flora, ii. 195.
On the leaves of *Polygonum aviculare*, near Berwick.—Dr. G. Johnston.
8. *P. Menthæ*.
Gr. Fl. Eds. 430; Persoon, Syn. 227; Berwick Flora, ii. 195.
On the leaves of *Mentha*, near Berwick.—Dr. G. Johnston.
9. *P. Polygoni*.
Gr. Fl. Eds. 430; Persoon, Syn. 227; Berwick Flora, ii. 195.
On the leaves of *Polygonum amphibium*.—Dr. G. Johnston.
10. *P. compositarum*.
Bot. Gall. ii. 890; Berwick Flora, ii. 196; *P. Centaurææ*, Gr. Fl. Eds. 430.
On the leaves of different species of *Compositæ*, N. and D. On the leaves of *Centaurea nigra*, near Berwick.—Dr. G. Johnston.
11. *P. variabilis*.
Gr. Fl. Eds. 431; Crypt. t. 75; Berwick Flora, ii. 196.
On *Leontodon Taraxacum*, not rare, near Berwick.—Dr. G. Johnston.
12. *P. Buxi*.
Gr. Crypt. 17; Sowerby, t. 439; Lam. and De Cand. vi. 60.
On the leaves of Box in gardens about Newcastle, N. and D.
12. *P. Calthæ*.
Link, in Willd. vii. ii. 79; Bot. Gall. ii. 891; Berwick Flora, ii. 196.
Near Berwick.—Dr. G. Johnston.
13. *P. Epilobii*.
Gr. Fl. Eds. 431; Lam. and De Cand. v. 61.
Near Berwick, on the leaves of *Epilobium palustre*.—Dr. G. Johnston.
14. *P. Veronicarum*.
Bot. Gall. ii. 889; Berwick Flora, ii. 194.
On the leaves of *Veronica Chamædrys*.—Dr. G. Johnston.
15. *P. Lychnidearum*.
Link, in Willd. iv. ii. 80; Bot. Gall. 887; Berwick Flora, ii. 194.
On the Red Lychnis, near Berwick.—Dr. G. Johnston.
16. *P. Violæ*.
Gr. Fl. Eds. 432; Lam. and De Cand. v. 62; Berwick Flora, ii. 196.
On the leaves of *Viola canina*, near Berwick.—Dr. G. Johnston.
17. *P. Scorodoniæ*.
Link, in Willd. iv. ii. 72; Bot. Gall. ii. 888; Berwick Flora, ii. 194.
On *Teucrium Scorodonia*, not rare, N. and D. Near Berwick.—Dr. G. Johnston.
18. *P. Galii-cruciatiæ*.
Bot. Gall. ii. 890; Berwick Flora, ii. 196; *P. Valantiæ*, Gr. Fl. Eds. 432; Persoon, Syn. 227.
On *Galium verum* and *cruciatum*, near Berwick.—Dr. G. Johnston.
19. *P. Faba*.
Gr. Crypt. t. 29; Berwick Flora, ii. 197; *P. globosa*, Gr. Fl. Eds. 434; *Uredo appendiculata*, Bot. Gall. ii. 897.
On the leaves of *Orobis tuberosus*, in autumn, N. and D.
20. *P. Porri*.
Uredo Porri, Sowerby, t. 411.
On Leeks and Onions, not frequent.
21. *P. glomerata*.
Gr. Fl. Eds. 433; Berwick Flora, ii. 194.
On the leaves of *Senecio Jacobææ*, near Berwick.—Dr. G. Johnston.
22. *P. syngneciarum*.
Link, in Willd. iv. ii. 74; Berwick Flora, ii. 197.
On the leaves of Thistles, and of the Tragopogon.—Dr. G. Johnston.
23. *P. Graminis*.
Gr. Fl. Eds. 433; Persoon, Syn. 228; Berwick Flora, ii. 195; *Uredo Frumenti*, Sowerby, t. 140.
β Arundinis.
α On the stems and leaves of Corn and Grasses.
β On *Phalaris arundinacea*, and *Arundo Phragmites*.—Dr. G. Johnston.
24. *P. Arundinacea*.
Bot. Gall. ii. 889; Berwick Flora, ii. 195; *P. Graminis*, var. *Arundinacea*, Gr. Fl. Eds. 433.
On the leaves and sheaths of Reeds.—Dr. G. Johnston.
24. *P. Bullaria*.
Link, ut Supp. 78; Berwick Flora, ii. 197; *Bullaria umbelliferarum*, Bot. Gall. ii. 886.
On the stem of the Hemlock, in autumn, near Berwick.—Dr. G. Johnston.
25. *P. Umbelliferarum*.
Lam. and De Cand. v. 58; Gr. Fl. Eds. 430; Berwick Flora, ii. 196.
On the leaves of the Hemlock, near Berwick.—Dr. G. Johnston.

163. PHRAGMIDIUM.

1. *P. mucronatum*.
Gr. Syn. 3; *Puccinia Rosæ*, Crypt. t. 15; Berwick Flora, ii. 193; *P. mucronata*, *α Rosæ*, Persoon, Syn. 233.
On the leaves of the Rose, common.

164. UREDO.

1. *U. Geranii*.
Gr. Fl. Eds. 434; Crypt. t. 8; Lam. and De Cand. vi. 73; Berwick Flora, ii. 201.
On the leaves of various species of *Geranium*, N. and D. Near Berwick.—Dr. G. Johnston.
2. *U. candida*.
Gr. Fl. Eds. 442; Crypt. t. 251; Persoon, Syn. 223; Berwick Flora, ii. 197; *U. Thlaspi*, Sowerby, t. 340.
On Tetradynamous plants, not rare; most common on *Thlaspi Bursa-pastoris*.
3. *U. Epilobii*.
Lam. and De Cand. vi. 73; Berwick Flora, ii. 200.
On the leaves of *Epilobium montanum*, near Berwick.—Dr. G. Johnston.

4. *U. Violarum*.
Lam. and De Cand. vi. 73; Berwick Flora, ii. 202.
On the leaves of *Viola canina*, near Berwick.—Dr. G. Johnston.
5. *U. Ficaria*.
Gr. Fl. Eds. 434; Lam. and De Cand. vi. 65; Berwick Flora, ii. 203.
On the leaves of *Ranunculus Ficaria*. Near Berwick.—Dr. G. Johnston.
6. *U. suæcolens*.
Gr. Fl. Eds. 434; Persoon, Syn. 221; Berwick Flora, ii. 202; *Æcidium Cardui*, Sowerby, t. 393, f. 5.
On *Cnicus arvensis*, N. and D. Near Berwick.—Dr. G. Johnston.
7. *U. Polygonorum*.
Gr. Fl. Eds. 434; Crypt. t. 80; Lam. and De Cand. vi. 71; Berwick Flora, ii. 201.
On the leaves of various species of *Polygonum*, N. and D. Near Berwick.—Dr. G. Johnston.
8. *U. Cichoraceum*.
Gr. Fl. Eds. 425; Lam. and De Cand. ii. 229; Berwick Flora, ii. 201.
On the leaves of the *Compositæ*, N. and D. On the *Lapsana communis*, near Berwick.—Dr. G. Johnston. On the Dandelion, common.
9. *U. bifrons*.
Gr. Fl. Eds. 435; Berwick Flora, ii. 201; *U. Rumicium* β , Lam. and De Cand. vi. 66.
On the leaves of the Sorrel, N. and D. Near Berwick.—Dr. G. Johnston.
10. *U. Rumicium*.
Gr. Fl. Eds. 436; Lam. and De Cand. vi. 66; Berwick Flora, ii. 201; *U. bifrons*, Lam. and De Cand. ii. 229.
On *Rumex crispus*, and *R. obtusifolius*, N. and D. Near Berwick.—Dr. G. Johnston.
11. *U. intrusa*.
Gr. Fl. Eds. 436; Berwick Flora, ii. 201.
On the inferior surface of the leaves of *Alchemilla vulgaris*. Near Berwick.—Dr. G. Johnston.
12. *U. Fabæ*.
Gr. Crypt. t. 95; Fl. Eds. 436; Persoon, Syn. 221; Lam. and De Cand. v. 69; *U. fusca*, Purton, iii. 507.
On the leaves of the Bean, Vetch, &c.
13. *U. Labiatarum*.
Lam. and De Cand. vi. 72; Berwick Flora, ii. 203; Gr. Fl. Eds. 436; *U. Mentha*, Persoon, Syn. 220.
On the leaves of *Ajuga reptans*, near Berwick.—Dr. G. Johnston.
14. *U. oblongata*.
Gr. Crypt. t. 12; Fl. Eds. 437; Berwick Flora, ii. 202; *U. caricis*, Fl. Dan. t. 1317; *U. caricina*, Lam. and De Cand. vi. 83.
On the leaves of *Luzula* and *Carices*.
15. *U. Vitellina*.
Gr. Fl. Eds. 437; Lam. and De Cand. ii. 231; Berwick Flora, ii. 200.
On the leaves of *Salix vitellina*, *viminatis*, and *Smithiana*, near Berwick.—Dr. G. Johnston.
16. *U. farinosa*.
Gr. Fl. Eds. 437; Berwick Flora, ii. 200; Persoon, Syn. 217 α ; *U. Capræarum*, Lam. and De Cand. vi. 80.
On *Salix capræa*, and *S. aurita*. Near Berwick.—Dr. G. Johnston.
17. *U. Gnaphalii*.
Berwick Flora, ii. 200.
On the leaves of *Gnaphalium germanicum*, near Berwick.—Dr. G. Johnston.
18. *U. Senecionis*.
Gr. Fl. Eds. 438; Berwick Flora, ii. 198; Lam. and De Cand. ii. 231; *U. farinosa* β , Persoon, Syn. 218.
On the leaves of *Senecio sylvaticus*, N. and D. Near Berwick.—Dr. G. Johnston.
19. *U. Tussilaginis*.
Gr. Fl. Eds. 441; Berwick Flora, ii. 198.
On the leaves of the Colts-foot, frequent.
20. *U. Potentillæ*.
Gr. Fl. Eds. 438; Lam. and De Cand. ii. 232; Berwick Flora, ii. 199.
On *Potentilla Fragaria*. Near Berwick.—Dr. G. Johnston.
21. *U. Rosæ*.
Gr. Fl. Eds. 438; Lam. and De Cand. ii. 232; Berwick Flora, ii. 199.
On Rose leaves, N. and D. Near Berwick.—Dr. G. Johnston.
22. *U. Ruborum*.
Gr. Fl. Eds. 438; Berwick Flora, ii. 199; Lam. and De Cand. ii. 234; *U. Rubifruticosi*, Persoon, Syn. 218.
On the leaves of Brambles, N. and D. Near Berwick.—Dr. G. Johnston.
23. *U. cfusa*.
Gr. Fl. Eds. 439; Crypt. t. 19; Berwick Flora, ii. 199; *U. miniata* α , Persoon, Syn. 216; *U. spirææ*, Sowerby, t. 293.
On the leaves and seed vessels of wild Roses, frequent, and on *Spiræa Ulmaria*, N. and D.
24. *U. Lini*.
Gr. Crypt. t. 31; Fl. Eds. 439; *U. miniata* β , Persoon, Syn. 216.
On the leaves of *Linum catharticum*, N. and D.
25. *U. Alchemillæ*.
Gr. Fl. Eds. 439; Persoon, Syn. 215; Berwick Flora, ii. 199.
On *Alchemilla vulgaris*, N. and D. Near Berwick.—Dr. G. Johnston.
26. *U. Rhinanthacearum*.
Gr. Fl. Eds. 439; Lam. and De Cand. vi. 80; Berwick Flora, ii. 200.
On the leaves, &c., of the Yellow Rattle, N.—Dr. G. Johnston.
27. *U. Campanulæ*.
Gr. Fl. Eds. 440; Persoon, Syn. 217; Berwick Flora, ii. 200.
On the leaves of different species of *Campanula*, N. and D. Near Berwick.—Dr. G. Johnston.
28. *U. Pyrolæ*.
Gr. Fl. Eds. 440; Berwick Flora, ii. 198.
On the leaves of *Pyrola minor*, at Wallington, N. Near Berwick.—Dr. G. Johnston. At Gipside, and the Howns Woods, D.
29. *U. linearis*.
Gr. Fl. Eds. 440; Persoon, Syn. 216; Berwick Flora, ii. 198; *U. frumentii*, Sowerby, t. 140; *U. longissimo*, t. 139.
On the leaves of Corn and Grasses, common.
30. *U. Souchi*.

- Gr. Fl. Eds. 441; Berwick Flora, ii. 198; U. *Sonchi arvensis*, Persoon, Syn. 217.
On the leaves of *Sonchus arvensis*, N. and D. Near Berwick.—Dr. G. Johnston.
31. U. *Petositis*.
Gr. Fl. Eds. 441; Lam. and De Cand. ii. 236; Berwick Flora, ii. 193.
On the leaves of *Tussilago Petasites*, N. and D. Near Berwick.—Dr. G. Johnston.
32. U. *Populina*.
Gr. Fl. Eds. 442; Berwick Flora, ii. 200; Persoon, Syn. 219 α ; U. *longicapsula*, Bot. Gall. ii. 895.
On the lower surface of the leaves of *Populus nigra*, near Berwick.—Dr. G. Johnston.
33. U. *ovata*.
Gr. Fl. Eds. 442; Berwick Flora, ii. 198; β *Betula*, U. *populina* β , Persoon, Syn. 219; U. *longicapsula* β , Lam. and De Cand. v. 84.
On the leaves of *Betula alba*, N. and D. Near Berwick.—Dr. G. Johnston.
34. U. *segetum*.
Gr. Fl. Eds. 442; Persoon, Syn. 224; Berwick Flora, ii. 203.
Within the fructification and glumes of Corn, too frequent.
35. U. *urceolarum*.
Gr. Fl. Eds. 443; Lam. and De Cand. vi. 78; U. *Caricis*, Persoon, Syn. 225; Berwick Flora, ii. 204.
On the fructification of Sedges, N. and D.
36. U. *coriis*.
Gr. Fl. Eds. 443; Hook. Fl. Scot. ii. 16; Lam. and De Cand. vi. 78; Berwick Flora, ii. 204.
Within the grains of Wheat, too common.
37. U. *antherarum*.
Gr. Fl. Eds. 443; Lam. and De Cand. vi. 79; U. *violacea*, Persoon, Syn. 225.
On *Lychnis dioica*, and *Cerastium viscosum*, N. and D.
38. U. *flosculorum*.
Gr. Fl. Eds. 443; Lam. and De Cand. vi. 79; Berwick Flora, ii. 204; *Fariuaria Scabiosa*, Sowerby, t. 269, f. 2.
On *Scabiosa arvensis*, rare, N. and D. Near Berwick.—Dr. G. Johnston.
39. U. *caryophyllacarum*.
Link, in Willd. iv. ii. 26; Berwick Flora, ii. 199.
On *Stellaria graminea*, and *Cerastium viscosum*, near Berwick.—Dr. G. Johnston.
40. U. *Vacciniorum*.
Berwick Flora, ii. 199; *Cacoma Vacciniarum*, Link, Supp. Cit. 15.
On the leaves of *Vaccinium Myrtillus*.—Dr. G. Johnston.
41. U. *Umbellatarum*.
Berwick Flora, ii. 202; *Cacoma umbellatarum*, Link, in Willd. iv. ii. 23; U. *Cynapii*, Bot. Gall. ii. 900.
On the leaves of the Hemlock.—Near Berwick.—Dr. G. Johnston.
165. **ÆCIDIDIUM.**
1. *Æ. Epilobii*.
Gr. Fl. Eds. 444; Lam. and De Cand. ii. 238; Berwick Flora, ii. 204.
On the leaves of *Epilobium palustre*, and *E. hirsutum*, near Berwick.—Dr. G. Johnston.
2. *Æ. Chicoraceum*.
Lam. and De Cand. ii. 239; Berwick Flora, ii. 205; β *Æ. Tragopogi*, Persoon, Syn. 211.
 α Near Berwick-upon-Tweed.—Dr. G. Johnston.
 β near Newcastle, upon *Tragopogon pratense*.
3. *Æ. Sonchi*.
Berwick Flora, ii. 205.
On the leaves of *Sonchus arvensis*.—Dr. G. Johnston.
4. *Æ. Violarum*.
Gr. Fl. Eds. 444; Lam. and De Cand. ii. 240; Berwick Flora, ii. 205.
On the leaves of *Viola canina*. Near Berwick.—Dr. G. Johnston.
5. *Æ. albescens*.
Gr. Fl. Eds. 444; Berwick Flora, ii. 205.
On *Adoxa muschutellina*.
6. *Æ. Taraxaci*.
Gr. Fl. Eds. 444; Berwick Flora, ii. 205.
On the lower surface of the leaves of the Dandelion, near Berwick.—Dr. G. Johnston.
7. *Æ. Perichlymeni*.
Gr. Fl. Eds. 445; Lam. and De Cand. ii. 597; Berwick Flora, ii. 206.
On the leaves of the Woodbine. Near Berwick.—Dr. G. Johnston.
8. *Æ. Prenanthes*.
Gr. Fl. Eds. 445; Berwick Flora, ii. 206.
On the leaves of *Hieracium paludosum*.—Dr. G. Johnston.
9. *Æ. Urticeæ*.
Gr. Fl. Eds. 445; Berwick Flora, ii. 206.
On the leaves and stem of *Urtica dioica*.
10. *Æ. confertum*.
Gr. Fl. Eds. 446; Berwick Flora, ii. 205.
On the leaves of *Ranunculus Ficaria*.
11. *Æ. Geranii*.
Lam. and De Cand. vi. 93; Berwick Flora, ii. 205; *Uredo hemisphærica*, Spreng. Syst. Veg. iv. 571.
On the leaves of *Geranium pratense*, near Berwick.—Dr. G. Johnston.
12. *Æ. Grossulariæ*.
Gr. Fl. Eds. 446; Crypt. t. 62; Berwick Flora, ii. 206; *Æ. Rumicis* β , Persoon, Syn. 207.
On the leaves of the Gooseberry.
13. *Æ. Valerianarum*.
Bot. Gall. ii. 908; Berwick Flora, ii. 206.
On the leaves and footstalks of the Valerians. Near Berwick.—Dr. G. Johnston.
14. *Æ. Ranunculaceum*.
Gr. Fl. Eds. 446; Lam. and De Cand. vi. 97; Berwick Flora, ii. 206; *Æ. Ranunculi acris*, Persoon, Syn. 210.
On the leaves of different species of *Ranunculi*, near Berwick.—Dr. G. Johnston.
15. *Æ. Berberidis*.
Gr. Crypt. t. 96; Fl. Eds. 44; Persoon, Syn. 209; Lam. and De Cand. ii. 246; Berwick Flora, ii. 207.
On the leaves, &c., of the Barberry, N. and D. Near Berwick.—Dr. G. Johnston.
16. *Æ. laceratum*.
Gr. Fl. Eds. 447; Crypt. t. 209; Berwick Flora, ii. 207; Sowerby, t. 313; *Æ. Oxyacanthæ*, Persoon, Syn. 206.
On the fruit and fruit-stalks of the Hawthorn, near Berwick.—Dr. G. Johnston.

17. *Æ. cornutum*.
Gr. Fl. Eds. 447; Crypt. t. 180; Sowerby, t. 319; Persoon, Syn. 205; Berwick Flora, ii. 207.
On the leaves of the Mountain Ash, N. and D. In Twizell Dene, N.—Mrs. Selby.
18. *Æ. Tussilaginis*.
Gr. Fl. Eds. 447; Persoon, Syn. 209; Sowerby, t. 397, f. 1; Berwick Flora, ii. 207.
On the leaves of *Tussilago Farfara*.
19. *Æ. Allii*.
Gr. Fl. Eds. 447; Persoon, Syn. 210; Berwick Flora, ii. 207.
On the leaves of *Allium ursinum*, near Berwick.—Dr. G. Johnston.

MUCEDINEÆ.

166. ERINEUM.

1. *E. aurum*.
Gr. Crypt. t. 33; Persoon, Syn. 700; Berwick Flora, ii. 290.
On the leaves of the *Populus nigra*.
2. *E. griseum*.
Gr. Crypt. t. 141, f. 1.
On the leaves of the Oak, common.
3. *E. clandestinum*.
Gr. Crypt. t. 141, f. 2; *E. Oxyacanthæ*, Persoon, Mycol. i. 145.
On the leaves of the White Thorn.
4. *E. faginum*.
Gr. Crypt. t. 250, f. 1; Persoon, Syn. 700; Berwick Flora, ii. 208.
On the leaves of the Beach, common. Near Berwick.—Dr. G. Johnston.
5. *E. populinum*.
Gr. Crypt. t. 250, f. 2; Persoon, Syn. 700; Berwick Flora, ii. 209.
On the leaves of Poplars and the Aspen.
6. *E. Padi*.
Gr. Crypt. t. 157, f. 1.
On the leaves of the Bird Cherry, N. and D. Near Twizell House, N.—P. J. Selby, Esq. Near Beamish, D.—Greville.
7. *E. roscum*.
Gr. Fl. Eds. 451; Crypt. t. 21.
On *Betula alba*, in sub-alpine situations.
8. *E. betulinum*.
Gr. Fl. Eds. 451; Edin. Ph. Jour. vi. 79, t. 3; Berwick Flora, ii. 208.
On the leaves of *Betula alba*, frequent.
9. *E. Alneum*.
Gr. Crypt. t. 157, f. 2; Persoon, Syn. 701; Berwick Flora, ii. 209; *Mucor ferrugineus*, Bull. t. 504, f. 12.
On the leaves of the Alder.
10. *E. roscum*.
Gr. Fl. Eds. 451; *E. Betulæ*, Crypt. t. 21.
On the leaves of the Birch in Teesdale, and other sub-alpine situations.
11. *E. pyrinum*.
Gr. Crypt. t. 22; Persoon, Syn. 700; Berwick Flora, ii. 208.
On the leaves of the Crab and Pear, not rare.

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12. *E. tortuosum*.
Gr. Crypt. t. 94.
On the leaves of the Birch.
13. *E. Sorbi*.
Gr. Crypt. t. 263, f. 1.
On the leaves of the Mountain Ash. Near Wallington, N.—W. C. Trevelyan, Esq.
14. *E. Juglans*.
Gr. Crypt. 263, f. 2.
On the leaves of the Walnut.
15. *E. accrinum*.
Gr. Fl. Eds. 449; Persoon, Syn. 700; Berwick Flora, ii. 208.
On the under surface of the leaves of the Sycamore, common.

167. MUCOR.

1. *M. caninus*.
Persoon, Syn. 201; Gr. Crypt. t. 305; Syn. 7;
Berwick Flora, ii. 210.
In *stercore canino*.

168. MYRIOTHECIUM.

1. *M. Carmichaelii*.
Gr. Crypt. t. 140.
On decayed vegetables.

169. CHÆTOMIUM.

1. *C. elatum*.
Gr. Crypt. t. 230.
On dead Grasses and Reeds.

BYSSOIDEÆ.

170. BYSSUS.

1. *B. floccosa*.
Bot. Gall. ii. 934; Berwick Flora, ii. 212; *Byssus septica*, With. iv. 192, var. 2; Dill. t. 1, f. 9.
In wine cellars.—Dr. G. Johnston.
2. *B. olivacea*.
Filaments, long, tubular, even, continuous, simple, pellucid, and of an olive green colour.
Abundant in an oil cellar in Newcastle, where the plant formed a loosely matted covering to the walls behind the casks.
Dr. G. Johnston, to whom I sent this plant, and to a more accurate observer specimens could not have been submitted, observes, "The tubes are empty, but in some of them I thought I perceived a granular matter. There are no spores."

171. OZONIUM.

1. *O. auricomum*.
Gr. Crypt. t. 260; *Dematium strigosum*, Persoon, Syn. 695; *Byssus barbata*, Eng. Bot. 701; With. iv. 191.
On rotten wood in damp places, and in caverns.

172. DEMATIUM.

1. *D. violaceum*.
Persoon, Syn. 697; *Auricularia phosphorea*, Sowerby, t. 350; *Byssus phosphorea*, With. iv. 189; *Conferva phosphorea*, Dillwyn, t. 88.
On rotten wood and bark, not rare.

173. HIMANTIA.

1. *H. candida*.
Gr. Crypt. t. 228; Persoon, Syn. 704; Berwick Flora, ii. 213; *Fibrellaria stellato*, Sowerby, t. 367, f. 1; *Byssus candida*, Hudson, 607; Light-foot, 1003.
On decaying leaves, sticks, &c. Near Berwick.—Dr. G. Johnston.
2. *H. flammea*.
Linnaea, A. D. 1830, p. 408.
On dead Beach leaves near Wallington, N.—W. C. Trevelyan, Esq.

174. RACODIUM.

1. *R. cellare*.
Gr. Crypt. t. 259; Persoon, Syn. 701; Berwick Flora, ii. 212; *Fibrellaria vinaria*, Sowerby, t. 432; *Byssus Cryptarum*, Lam. and De Cand. ii. 67; *B. septica*, With. iv. 192, var. 2.
In damp vaults and cellars.
2. *R. aluta*.
Persoon, Syn. 702; *Byssus aluta*, Lam. and De Cand. vi. 10.
In rotten trees, but not very frequent.
3. *R. xylostroma*, β *Corium*.
Persoon, Syn. 702; *Xylostroma giganteum*, Sowerby, t. 358.
On decayed Oaks in woods.

175. HELMISPORIUM.

1. *H. macrocarpon*.
Gr. Crypt. t. 148, f. 1.
On rotten bark.

176. TORULA.

1. *T. herbarum*.
Gr. Fl. Eds. 469; Bot. Gall. ii. 931; Berwick Flora, ii. 210; *Monilis herbarum*, Persoon, Syn. 693.
On the dead stems of vegetables.—Dr. G. Johnston.

177. FUSIDIUM.

1. *F. griseum*.
Gr. Crypt. t. 102, f. 1; Fl. Eds. 464.
On dead Oak and Beach leaves.
1. *F. flavo-virescens*.
Gr. Crypt. t. 102, f. 2; Fl. Eds. 464; Berwick Flora, ii. 209.
On dead Oak and Beach leaves. Near Berwick.—Dr. G. Johnston.

178. POLYTHRINCUM.

1. *P. trifolii*.
Gr. Crypt. t. 216.
On the leaves of the Trefoils.

179. EXOSPORIUM.

1. *E. Tillie*.
Gr. Crypt. t. 208.
On the dead branches of the Linden.

180. DIDYMOSPORIUM.

1. *D. profusum*.
Gr. Syn. 3; *Stilbospora profusa*, Crypt. t. 212.
On branches of the Beach and Sycamore.

2. *D. betulinum*.

Gr. Crypt. t. 273.
On dead branches of the Birch.

181. FUSARIUM.

1. *F. tremelloides*.
Gr. Crypt. t. 10; *Tremella urticae*, Persoon, Syn. 623; Lam. and De Cand. vi. 28.
On the dead stems of the Nettle, common, N. and D. Near Berwick.—Dr. G. Johnston.

182. ASCOPHORA.

1. *A. Mucedo*.
Gr. Crypt. t. 269; *Mucor Mucedo*, Persoon, Syn. 201; Berwick Flora, ii. 210.
On putrefying substances, common.

183. EUROTIIUM.

1. *E. Herbariorum*.
Gr. Crypt. t. 164; *Mucor Herbariorum*, Persoon, Syn. 202.
On the leaves and stems of dried plants when exposed to damp, common.
2. *E. Rosarum*.
Gr. Crypt. t. 164, f. 2.
On the branches and capsules of the Rose.

184. ACREMONIUM.

1. *A. fuscum*.
Gr. Crypt. t. 124, f. 1.
On dead wood and herbaceous plants.
2. *A. verticillatum*.
Gr. Crypt. t. 124, f. 2.
On dead wood and trunks of trees.

185. PENICILLIUM.

1. *P. glaucum*.
Gr. Crypt. t. 58, f. 1; Berwick Flora, ii. 211.
On putrifying fruit, fungi, &c.

186. BOTRYTIS.

1. *B. agaricina*.
Gr. Crypt. t. 126, f. 1.
On decaying fungi.
2. *B. diffusa*.
Gr. Crypt. t. 126, f. 2.
On decaying herbaceous plants.

187. ACROSPORIUM.

1. *A. monilioides*.
Gr. Crypt. t. 73; Berwick Flora, ii. 210; *Oidium monilioides*, Bot. Gall. ii. 932.
On the leaves and stems of Grasses.

188. SPOROTRICHUM.

1. *S. minutum*.
Gr. Crypt. t. 108, f. 1.
On putrid substances.

189. TRICHOTHECIUM.

1. *T. roseum*.
Gr. Crypt. t. 172; *Trichoderma roseum*, Persoon, Syn. 231.
On rotten branches of trees.

190. SEPEDONIUM.

1. *S. mycophilum*.
Gr. Crypt. t. 198; Berwick Flora, ii. 209; *Uredo mycophila*, Persoon, Syn. 214; *Mucor chrysospermus*, Bull. t. 504, f. 1; Sowerby, t. 378; With. iv. 479.
On putrescent fungi.

191. CLADOSPORUM.

1. *C. herbarum*.
Gr. Fl. Eds. 469; Bot. Gall. ii. 930; Berwick Flora, ii. 209.
On the dead stems of umbelliferous plants, Oak leaves, &c.

192. ASPERGILLUS.

1. *A. glaucus*.
Gr. Fl. Eds. 467; Berwick Flora, ii. 211.
On putrefying fruit, &c.
2. *A. penicillatus*.
Gr. Crypt. t. 32.
On damp Hay.

193. BOTRYS.

1. *B. cinerea*.
Berwick Flora, ii. 212; Link. in Willd. iv. i. 60.
Parasitical, on *Sclerotium durum*.—Dr. G. Johnston.
2. *B. agaricina*.
Link. in Willd. iv. i. 54; Berwick Flora, ii. 212.
Parasitical, on *Uredo candida*.—Dr. G. Johnston.

194. CYLYNDROSPORIUM.

1. *C. concentricum*.
Gr. Crypt. t. 27; Fl. Eds. 471.
On the leaves of the garden Cabbage.

ALGÆ.

195. SARGASSUM.

1. *S. bacciferum*.
Agardh, Syn. 6; Gr. Algæ, 3; *Fucus bacciferus*, Turn. Hist. t. 47; Eng. Bot. 1967.
Among the rejectamenta of the sea at the foot of Castle Eden Dene, D.—Mr. Backhouse. On the coast of Northumberland.—With. iv. 101.

196. CYSTOSEIRA.

1. *C. cricoides*.
Agardh, Syn. 52; Gr. Algæ, 4; *Fucus tamarisifolius*, Ner. Brit. 44, t. 11; *F. sclaginoides*, Turn. Syn. 85; *F. cricoides*, Eng. Bot. 1963; Turn. Hist. t. 191.
Among the rejectamenta of the sea near Sunderland.—W. Weighell's Herb. At Seaton, D.—Mr. E. Robson.

197. HALIDRYS.

1. *H. siliquosa*.
Gr. Algæ, 9; *Cystoscira siliquosa*, Agardh, Syn. 71; *Fucus siliquosus*, Eng. Bot. 474; Ner. Brit. 8, t. 5; Turn. Hist. t. 159; Berwick Flora, ii. 223.
On rocks and stones on the coast, frequent.

198. FUCUS.

1. *F. nodosus*.
Agardh, Syn. 85; Eng. Bot. 570; Turn. Hist. t. 91; Berwick Flora, ii. 222; Ner. Brit. 35, t. 10; Gr. Algæ, 16.
On rocks and stones on the coast, common.
2. *F. vesiculosus*.
Agardh, Syn. 87; Turn. Hist. t. 88; Berwick Flora, ii. 221; Gr. Algæ, 12; Eng. Bot. 1066.
β spiralis, Eng. Bot. 1635; Ner. Brit. 10, t. 5.
α and *β* on rocks upon the sea coast, abundant.
3. *F. serratus*.
Agardh, Syn. 95; Turn. Syn. 110; Hist. t. 90; Berwick Flora, ii. 222; Eng. Bot. 1221; Ner. Brit. 1, t. 1; Gr. Algæ, 15.
On rocks on the coast, common.
4. *F. canaliculatus*.
Agardh, Syn. 96; Eng. Bot. 823; Turn. Syn. 242; Hist. t. 3; Gr. Algæ, 18; Berwick Flora, ii. 223.
Upon rocks on the coast, common.

199. HIMANTHALIA.

1. *H. lorca*.
Gr. Algæ, 20; Berwick Flora, ii. 224; *Fucus lorca*, Agardh, Syn. 98; Turn. Hist. t. 196; Eng. Bot. 569; Ner. Brit. 37, t. 10.
On rocks on the coast at Hartley Bates, Dunstanborough, Holy Island, and Bamborough, N.

200. FURCELLARIA.

1. *F. fastigiata*.
Agardh, Syn. 103; Gr. Algæ, 67; *F. lumbricalis*, Berwick Flora, ii. 223; *Fucus lumbricalis*, Eng. Bot. 824; Turn. Hist. t. 6; Ner. Brit. t. 6; *F. fastigiatus*, With. iv. 133.
On rocks on the coast, frequent.

201. LICHINA.

1. *L. pygmaea*.
Agardh, Syn. 105; Gr. Crypt. t. 219; Algæ, 22; Berwick Flora, ii. 220; *Fucus pygmaeus*, Eng. Bot. 1332; Turn. Hist. t. 204, f. a, h.
On rocks on the coast, frequent.
2. *L. confinis*.
Agardh, Syn. 105; Gr. Crypt. t. 221; Algæ, 23; Berwick Flora, ii. 221; *Fucus confinis*, Eng. Bot. 2575; *F. pygmaeus β*, Turn. Hist. 204, f. i, o.
On rocks near high-water mark.
Probably Turner is right in making this a variety of the preceding species.

202. LAMINARIA.

1. *L. esculenta*.
Agardh, Syn. 110; Berwick Flora, ii. 224; *Fucus esculentus*, Eng. Bot. 1759; Turn. Hist. t. 117; *Alaria esculenta*, Gr. Algæ, 25.
On rocks in deep water, not rare.
2. *L. digitata*.
Agardh, Syn. 112; Gr. Algæ, 27; Berwick Flora, ii. 225; *Fucus digitatus*, Eng. Bot. 2274; Turn. Hist. 162; Ner. Brit. v. t. 3.
On rocks in deep water, common.

3. *L. bulbosa*.

Agardh, Syn. 114; Gr. Algæ, 29; Berwick Flora, ii. 225; *Fucus bulbosus*, Eng. Bot. 1760.
On the shores of Holy Island, N.

4. *L. saccharina*.

Agardh, Syn. 117; Gr. Algæ, 32; Berwick Flora, ii. 226; *Fucus saccharinus*, Turn. Hist. t. 163; Eng. Bot. 1376.

β attenuata, Gr. Fl. Eds. 282; *L. Phyllitis*, Agardh, Syn. 121; *Fucus Phyllitis*, Eng. Bot. 1331; Ner. Brit. 33, t. 9; Turn. Hist. t. 164; *Laminaria Phyllitis*, Gr. Algæ, 34; Berwick Flora, ii. 226.
On the sea coast in deep water, frequent.

203. SPOROCHNUS.

1. *S. aculeatus*.

Agardh, Syn. 151; *Fucus aculeatus*, Turn. Hist. t. 187; Eng. Bot. 2445; Ner. Brit. 24, t. 8; *Desmarestia aculeata*, Gr. Algæ, 38; Berwick Flora, ii. 223.

On rocks and stones on the coast, not rare.

2. *S. viridis*.

Agardh, Syn. 154; *Dichloria viridis*, Gr. Algæ, 39; *Fucus viridis*, Eng. Bot. 1669; Ner. Brit. t. 17; Turn. Hist. t. 97.

Among the rejectamenta on the coast at Sunderland.
—W. Weighell's Herb. Among the rocks at Hartlepool, D.—John Hogg, Esq. Near Berwick.
—Dr. G. Johnston.

3. *S. villosus*.

Agardh, Syn. 155; Gr. Algæ, 42; *Conferva villosa*, Eng. Bot. 546; Dillwyn, t. 37.

On the beach near Whitburn, D.—W. Weighell's Herb.

4. *S. ligulatus*.

Agardh, Syn. 158; *Desmarestia ligulata*, Gr. Algæ, 37; *Fucus ligulosus*, Eng. Bot. 1636; Turn. Hist. t. 98; Lightfoot, 946, t. 29; Ner. Brit. 60, t. 20; *F. herbaceus*, Hudson, 582.

On the beach at Seaton, D.—Mr. Backhouse. On the coast of Northumberland.—Hudson.

204. DELESSERIA.

1. *D. sanguinea*.

Agardh, Syn. 172; Berwick Flora, ii. 229; Gr. Algæ, 72; *Fucus sanguineus*, Eng. Bot. 1041; Ner. Brit. 20, t. 7; Turn. Hist. t. 36.

On the sea coast, not rare.

2. *D. sinuosa*.

Agardh, Syn. 174; Berwick Flora, ii. 230; Gr. Algæ, 73; *Fucus rubens*, Lightfoot, 943; Ner. Brit. 18, t. 7; *F. sinuosus*, Eng. Bot. 822; Turn. Hist. t. 35.

On the stems of large Algæ, but not common.

3. *D. ruscifolia*.

Agardh, Syn. 175; Gr. Algæ, 76; *Fucus ruscifolius*, Eng. Bot. 1395; Turn. Hist. t. 15.

Among the rejectamenta of the sea on the coast near Sunderland, D.—W. Weighell's Herb.

4. *D. Hypoglossum*.

Agardh, Syn. 176; Gr. Algæ, 75; *Fucus Hypoglossum*, Eng. Bot. 1396; Turn. Hist. t. 14; *F. hypoglossoides*, Ner. Brit. t. 13.

Among the rejectamenta of the sea on the beach near Sunderland.—Mr. J. Robson. At Hartlepool, D.—J. Hogg, Esq.

5. *D. alata*.

Agardh, Syn. 178; Berwick Flora, ii. 230; Gr. Algæ, 73; *Fucus alatus*, Ner. Brit. 79, t. 13; Eng. Bot. 1837; Turn. Hist. t. 160.

On rocks and stones on the coast, also on the stems of Algæ.

6. *D. Plocamium*.

Agardh, Syn. 180; *Fucus Plocamium*, Lightfoot, 957; *F. coccineus*, Eng. Bot. 1242; Turn. Hist. t. 59; *Plocamium coccineum*, Berwick Flora, ii. 232; Gr. Algæ, 98.

On the sea coast, common.

7. *D. lacerata*.

Agardh, Syn. 184; *Halymenia lacerata*, Bot. Gall. ii. 944; Berwick Flora, ii. 228; *Nitophyllum laceratum*, Gr. Algæ, 83; *Fucus laceratus*, Eng. Bot. 1067; Turn. Hist. t. 68; Ner. Brit. 77.

Upon rocks and stones on the coast.

205. BONNEMAISONIA.

1. *B. asparagoides*.

Agardh, Syn. 197; Gr. Algæ, 107; *Fucus asparagoides*, Eng. Bot. 571.

Among the rejectamenta of the sea on the coast near Sunderland, D.—W. Weighell's Herb.

206. HALYMENIA.

1. *H. Brodiai*.

Bot. Gall. ii. 942; *Fucus Brodiai*, Eng. Bot. 1966; *Chondrus Brodiai*, Gr. Algæ, 133; *Sphaerococcus Brodiai*, Agardh, Syn. 139.

Among the rejectamenta of the sea near Berwick.—Dr. G. Johnston. On Holy Island, N.—P. J. Selby, Esq.

2. *H. edulis*.

Agardh, Syn. 202; Berwick Flora, ii. 227; *Fucus edulis*, Eng. Bot. 1307; Ner. Brit. 57, t. 12; Turn. Hist. t. 114; *Iridaea edulis*, Gr. Algæ, 158.

On rocks on the coast, not rare.

3. *H. palmata*.

Agardh, Syn. 204; Berwick Flora, ii. 228; *Fucus palmatus*, Eng. Bot. 1306; Turn. Hist. t. 115; *Rhodomenia palmata*, Gr. Algæ, 93.

On rocks and the stems of Algæ, common.

207. CATENELLA.

1. *C. opuntia*.

Gr. Algæ, 166; *Halymenia opuntia*? Agardh, Syn. 217; *Rivularia opuntia*, Eng. Bot. 1868; *Fucus caspitosus*, Ner. Brit. t. 12.

Among the rejectamenta of the sea, rare, N. and D.

208. SPHEROCOCCUS.

1. *S. rubens*.

Agardh, Syn. 237; *Fucus rubens*, Eng. Bot. 1053; Turn. Hist. t. 12; Ner. Brit. t. 19; *F. prolifer*, Lightfoot, 949, t. 30; *Phyllophora rubens*, Gr. Algæ, 135; *Halymenia rubens*, Bot. Gall. ii. 943; Berwick Flora, ii. 227.

On the sea shore, not very rare, N. and D. Near Berwick.—Dr. G. Johnston.

2. *S. membranifolius*.

Agardh, Syn. 240; *Fucus membranifolius*, Eng. Bot. 1965; Turn. Hist. t. 74; Ner. Brit. t. 20; *Chondrus membranifolius*, Gr. Algæ, 131; *Haly-*

Halymenia membranifolia, Bot. Gall. ii. 943; Berwick Flora, ii. 227.

Upon rocks and stones on the coast, not rare.

3. *S. crispus*.

Agardh, Syn. 256; *Fucus crispus*, Eng. Bot. 2285; Ner. Brit. 19; Turn. Hist. t. 216 and 217; *Chondrus crispus*, Gr. Algæ, 129; Berwick Flora, ii. 230.

Upon rocks and stones on the coast, not rare.

4. *S. mammosus*.

Agardh, Syn. 260; *Fucus mammosus*, Eng. Bot. 1054; Turn. Hist. t. 218; *Chondrus mammosus*, Gr. Algæ, 127; Berwick Flora, ii. 230.

On rocks and stones on the coast.

5. *S. ciliatus*.

Agardh, Syn. 263; *Fucus ciliatus*, Eng. Bot. 1069; Ner. Brit. 90, t. 15; Turn. Hist. t. 70; *Rhodomenia ciliata*, Gr. Algæ, 90.

Among the rejectamenta on the Durham coast, rare.

6. *S. laciniatus*.

Agardh, Syn. 297; *Fucus laciniatus*, Turn. Hist. t. 69; Eng. Bot. 1068; *F. crispatus*, Ner. Brit. 92, t. 15; *Rhodomenia laciniata*, Gr. Algæ, 86; *Halymenia laciniata*, Bot. Gall. ii. 945; Berwick Flora, ii. 229.

On rocks and stones on the coast, not rare.

7. *S. bifidus*.

Agardh, Syn. 299; *Fucus bifidus*, Turn. Hist. t. 154; Eng. Bot. t. 773; *Rhodomenia bifida*, Gr. Algæ, 85.

Among the rejectamenta on the coast at Whitburn, D. At Tynemouth and Seaton Sluice, N., rare.

8. *S. cristatus*.

Agardh, Syn. 300; *Fucus cristatus*, Gr. Fl. Eds. 296; Turn. Hist. 23; *F. gigartinus*? Fl. Dan. t. 394; *Rhodomenia cristata*, Gr. Algæ, 89; *Halymenia cristata*, Berwick Flora, ii. 229.

On the coast at Berwick.—Dr. G. Johnston.

9. *S. confervoides*.

Agardh, Syn. 303; *Fucus confervoides*, Eng. Bot. 1668; Turn. Hist. t. 84; *F. verrucosus*, Ner. Brit. 27, t. 8; 96, t. 15; *Gracillaria confervoides*, Gr. Algæ, 123.

On rocks and stones on the coast.

10. *S. plicatus*.

Agardh, Syn. 313; *Fucus plicatus*, Eng. Bot. 1089; Turn. Hist. t. 180; Ner. Brit. 23, t. 7; *Gigartina plicata*, Gr. Algæ, 150; Berwick Flora, ii. 234.

Upon rocks and stones on the coast.

11. *S. purpurascens*.

Agardh, Syn. 318; *Fucus purpurascens*, Eng. Bot. 1243; Turn. Hist. t. 9; *F. tuberculatus*, Lightfoot, 926; *Gracillaria purpurascens*, Gr. Algæ, 122; *Gigartina purpurascens*, Bot. Gall. ii. 952; Berwick Flora, ii. 234.

On the coast, not uncommon.

208. GELIDEUM.

1. *G. carnutum*.

Gr. Algæ, 143; Berwick Flora, ii. 231; *Sphaerococcus carneus*, Agardh, Syn. 279; *Fucus cornus*, Eng. Bot. 1970; Ner. Brit. t. 12.

On Basaltic rocks near Bamborough.—Greville.

VOL. II.

209. CHONDRIA.

1. *C. pinnatifida*.

Agardh, Syn. 337; *Fucus pinnatifidus*, Eng. Bot. 1202; Turn. Hist. t. 20; Ner. Brit. 48, t. 11; *Laurentia pinnatifida*, Gr. Algæ, 108; Berwick Flora, ii. 231.

Upon rocks and stones on the coast, frequent.

2. *C. obtusa*.

Agardh, Syn. 340; *Fucus obtusus*, Eng. Bot. 1201; Turn. Hist. t. 21; *Laurentia obtusa*, Gr. Algæ, 111.

On Algæ near Berwick.—Dr. G. Johnston.

3. *C. clavellata*.

Agardh, Syn. 353; *Fucus clavellatus*, Eng. Bot. 1203; Turn. Hist. t. 30; *Gastroidium clavellatum*, Gr. Algæ, 115; *Lomentaria clavellata*, Bot. Gall. ii. 950; Berwick Flora, ii. 233.

Among the rejectamenta near Sunderland and Whitburn, D. Near Seaton, D.—John Hogg, Esq. Berwick Bay.—Dr. G. Johnston.

4. *C. articulata*.

Agardh, Syn. 357; *Fucus articulatus*, Eng. Bot. 1574; Turn. Hist. t. 106; Ner. Brit. 28, t. 8; Lightfoot, 959; *Gastroidium articulatum*, Gr. Algæ, 120; *Lomentaria articulata*, Bot. Gall. ii. 950; Berwick Flora, ii. 233.

Upon rocks on the coast, not rare.

210. GIGARTINA.

1. *G. flagelliformis*.

Bot. Gall. ii. 952; Berwick Flora, ii. 234; *Chordaria flagelliformis*, Agardh, Syn. 166; Gr. Algæ, 44; *Fucus flagelliformis*, Eng. Bot. 1222; Ner. Brit. 41, t. 16; Turner, Hist. t. 85.

In pools on the coast, frequent.

211. RHODOMELA.

1. *R. dentata*.

Agardh, Syn. 370; *Fucus dentatus*, Eng. Bot. 1241; Turn. Hist. t. 13; Ner. Brit. 95, t. 15; *Odontalia dentata*, Gr. Algæ, 101; Berwick Flora, ii. 230.

Among the rejectamenta of the sea, not rare. On the rocks called Hartley Bates, N. Near Berwick.—Dr. G. Johnston.

2. *R. lycopodioides*.

Agardh, Syn. 377; Gr. Algæ, 102; Berwick Flora, ii. 234; *Fucus lycopodioides*, Eng. Bot. 1163; Turn. Hist. t. 12; *F. Lycopodium*, Ner. Brit. 107, t. 17.

On the stems of *Laminaria digitata*, not rare, N. and D. At Hartley Bates, N.—Mr. J. Thornhill. Near Berwick.—Dr. G. Johnston.

3. *R. subfusca*.

Agardh, Syn. 378; Gr. Algæ, 203; Berwick Flora, ii. 235; *Fucus subfuscus*, Eng. Bot. 1164; Turn. Hist. t. 10.

On rocks and the stems of Algæ, not rare.

212. PTILOTA.

1. *P. plumosa*.

Agardh, Syn. 285; *Placanium plumosum*, Berwick Flora, ii. 232; Gr. Algæ, 155; *Fucus plumosus*, Eng. Bot. 1308; Turn. Hist. t. 60; Ner. Brit. 105, t. 15.

β *capillaris*, Gr. Fl. Eds. 297.

On the stems of large Algæ, but not common.

213. POLYIDES.

1. *P. humbriculis*.
Agardh, Syn. 392; *P. rotundus*, Gr. Algæ, 70;
Berwick Flora, ii. 233; *Fucus rotundus*, Eng.
Bot. 1738; Turn. Hist. t. 5; Ner. Brit. 15, t. 6.
On rocks and stones on the coast, not rare. Near
Berwick.—Dr. G. Johnston.

214. DUMONTIA.

1. *D. filiformis*.
Gr. Algæ, 165; Berwick Flora, ii. 246; *Halymenia*
filiformis, Agardh, Syn. 214; *Chondria purpurascens*,
Gr. Fl. Eds. 290; *Ulva purpurascens*, Eng.
Bot. 641.
On rocks in pools left by the tide, frequent.

215. CHORDA.

1. *C. Filum*.
Gr. Algæ, 47; Berwick Flora, ii. 247; *Scytosiphon*
Filum, Agardh, Syn. 161; *Fucus Filum*, Eng.
Bot. 2487; Turner, Hist. t. 36.
On the coast in deep water.

216. ASPEROCOCCUS.

1. *A. cchinatus*.
Gr. Algæ, 50; Berwick Flora, ii. 248; *Encalium*
Lyngbyanum, Gr. Crypt. Fl. t. 290; *Fistularia*
attenuata, Gr. Fl. Eds. 300; *Ulva fistulosa*, Eng.
Bot. 642.
On the beach at Manhaven near Whitburn, D. Near
Cullercoats, N. At Berwick.—Dr. G. Johnston.

217. PUNCTARIA.

1. *P. plantaginea*.
Gr. Algæ, 53; Berwick Flora, ii. 248; *Zonaria*
plantaginea, Sprengel, Syst. Veg. iv. 326; *Ulva*
plantaginea, Eng. Bot. 2136.
On rocks near Berwick.—Dr. G. Johnston.

218. ZONARIA.

1. *Z. deusta*.
Spreng. Syst. Veg. 327; Berwick Flora, ii. 248.
On rocks near high-water mark in Berwick Bay,
frequent.—Dr. G. Johnston, who considers it *Zo-*
naria parvula of Greville, in a mature state.

219. PORPHYRA.

1. *P. laciniata*.
Gr. Algæ, 168; Agardh, Syn. 190; *Ulva laciniata*,
Berwick Flora, ii. 249; Lightfoot, 974, t. 33;
U. umbilicatis, Eng. Bot. 2286.
On rocks and stones on the coast, N. and D.
2. *P. vulgaris*.
Gr. Algæ, 169; *P. purpurea*, Agardh, Syn. 191;
Ulva umbilicaris, var. *clongata*, Gr. Fl. Eds. 299.
On rocks and stones on the coast, N. and D.

220. ULVA.

1. *U. latissima*.
Gr. Algæ, 171; Agardh, Syn. 407; Berwick
Flora, ii. 250; *U. Lactuca*, Eng. Bot. 1551; Gr.
Fl. Eds. 299; *U. Lactuca*, var. *latissima*, Light-
foot, 971.
On stones and rocks, frequent, N. and D.

2. *U. Lactuca*.

Agardh, Syn. 409; Gr. Crypt. 313; Algæ, 172;
Berwick Flora, ii. 250.

On rocks on the coast, abundant.

3. *U. linza*.

Agardh, Syn. 412; Gr. Fl. Eds. 299; Algæ, 173.
β lanccolata, Dill. t. 9, f. 5.

On the beach near Hartley, N. Near Sunderland,
D. At Hartlepool, D.—J. Hogg, Esq.

4. *U. bulbosa*.

Agardh, Syn. 414; Eng. Bot. 2320; Hook. Fl.
Scot. 91; Berwick Flora, ii. 250; Gr. Algæ,
174; *U. lactuca β*, Lightfoot, 971; Hudson, 567.
In ditches at Jarrow Slake, D. In ponds in the Mag-
dalen Fields at Berwick.—Dr. G. Johnston.

5. *U. crispa*.

Agardh, Syn. 416; Lightfoot, 972; Berwick
Flora, ii. 250; Gr. Algæ, 175; *Tremella crispa*,
Northumberland and Durham Guide, ii. 67; T.
terrestris, Dill. t. 10, f. 12.

On old walls near Harton and Sunderland, D. On
old walls and on the roofs of cottages, N. and D.
On the ground in East Common Wood near Hex-
ham, N. Near Berwick.—Dr. G. Johnston.

6. *U. catophylla*.

Berwick Flora, ii. 251; Spreng. Syst. Veg. iv.
368; Gr. Algæ, 176; *Bangia catophylla*, Crypt.
t. 220.

On rotten wood near Berwick, mixed with *Conferva*
muralis.—Dr. G. Johnston.

- 221. ENTEROMORPHA.

1. *E. intestinalis*.

Gr. Algæ, 179; *Fistularia intestinalis*, Gr. Fl. Eds.
300; *Ulva intestinalis*, Agardh, Syn. 418; Dill.
t. 9, f. 7; Berwick Flora, ii. 249.

In Jarrow Slake and Coble Dene, on the Tyne, N.
In the Tweed.—Thompson's Berwick Plants. In
the Wear near Southwick and Pallion, D.

2. *E. compressa*.

Gr. Algæ, 180; *Fistularia compressa*, Fl. Eds. 300;
Ulva compressa, Agardh, Syn. 420; Eng. Bot.
1739; Berwick Flora, ii. 249; Dill. t. 9, f. 8.

On the sea coast, not rare.

222. BRYOPSIS.

1. *B. plumosa*.

Agardh, Syn. 448; *Ulva plumosa*, Eng. Bot. 2375;
Gr. Algæ, 187.

In rocky basins on the coast at Whitburn, Seaton, and
Hartlepool, D. At Berwick.—Dr. G. Johnston.

223. VAUCHERIA.

1. *V. terrestris*.

Gr. Algæ, 191; Berwick Flora, ii. 251.
Under shelving rocks on the coast near Berwick.—
Dr. G. Johnston.

2. *V. caespitosa*.

Gr. Algæ, 194; Berwick Flora, ii. 251; *Conferva*
amphibia, Dillwyn. t. 41.

Common on mill dams, and wherever wood is exposed
to the dropping of water.

3. *V. geminata*.

Gr. Algæ, 139, t. 19, f. 3; Berwick Flora, ii. 152;
Eng. Bot. 1766.

In ditches near Berwick.—Dr. G. Johnston.

4. *V. Dillwynii*.
Gr. Algæ, 191; Fl. Eds. 305; Berwick Flora, ii. 251; *Conferva frigida*, Dillwyn, t. 16.
β *C. amphibia*, Dillwyn, t. 41.
α In moist shady places. β in ponds and ditches.
5. *V. granulata*.
Gr. Fl. Eds. 306; *Tremella granulata*, Eng. Bot. 324.
On the ground in damp places.

224. NODULARIA.

1. *N. fluviatilis*.
Gr. Fl. Eds. 300; *Conferva fluviatilis*, Dillwyn, t. 29; Eng. Bot. 1763; *Lemanea fluviatilis*, Hook. Fl. Scot. ii. 34; Berwick Flora, ii. 246.
In Cawsey Bourn and rivulets near Lanchester, also in all the rivulets in the west of the county of Durham. Among the Cheviots, and in the Irthing at Gilsland, N.

225. DICTYOSIPHON.

1. *D. feniculatum*.
Gr. Algæ, 56; Berwick Flora, ii. 246; *Conferva feniculata*, Lightfoot, 981; *Hahymenia subtilis*, Hook. Fl. Scot. ii. 108.
In rocky pools on the Durham coast. Near Berwick.—Dr. G. Johnston.

226. GLOINEMA.

1. *G. fetidum*.
Gr. Fl. Eds. 301; *Conferva fetida*, Dillwyn, t. 104; Eng. Bot. 2101.
On rocks and stones at Tynemouth, N. At Hartlepool, D.

227. BANGIA.

1. *B. fusco-purpurea*.
Gr. Fl. Eds. 301; Berwick Flora, ii. 259; *Conferva fusco-purpurea*, Eng. Bot. 2055; Dillwyn, t. 92; *C. atro-purpurea*, Dillwyn, t. 103; Eng. Bot. 2085; Gr. Algæ, 177.
In Limestone caves between Sunderland and Shields, on Marsden Rocks and Sunderland Pier, D. On Blackhall Rocks, D.—John Hogg, Esq. Near Berwick upon Tweed, N.—Dr. G. Johnston.
2. *B. Johnstoni*.
Greville, MSS., Berwick Flora, ii. 260.
On Slate rocks near Berwick. Not uncommon at high-water mark.—Dr. G. Johnston.
3. *B. Laminariae*.
Gr. Fl. Eds. 302; Berwick Flora, ii. 259.
Parasitical on the fronds of *Laminaria esculenta*.—Dr. G. Johnston.
4. *B. ? atro-virens*.
Gr. Fl. Eds. 302; *Conferva atro-virens*, Dillwyn, t. 25; *Cornicularia pubescens*, Ach. Syn. 302; *Lichen pubescens*, Eng. Bot. 2318; Lightfoot, 893.
On Simonside and Cheviot, N. On stones in Hag Crag in Teesdale Forest, D.—Rev. J. Harriman.

228. SCYTONEMA.

1. *S. ocellatum*.
Gr. Fl. Eds. 302; *Conferva ocellata*, Dillwyn, Sup. t. D.; Eng. Bot. 2530.
In springs near Hamsterley, D.—Mr. Backhouse.
2. *S. comoides*.
Conferva comoides, Dillwyn, t. 27; Eng. Bot. 1700;

C. radicans, Dillwyn, 72, t. C.; Eng. Bot. 2138.
On rocks, stones, and the stems of Fuci, N. and D. Near Seaton, D.—Mr. Backhouse.

3. *S. Myochrous*.
Conferva Myochrous, Eng. Bot. 1555; Dillwyn, t. 19.
In springs near Darlington, D.—Mr. Backhouse.

229. OSCILLATORIA.

1. *O. limosa*.
Gr. Fl. Eds. 303; Berwick Flora, ii. 265; *Conferva fontinalis*, Dillwyn, t. 64.
In slow streams, ponds, &c., common, floating on the surface of the water.
2. *O. tenuis*.
Gr. Fl. Eds. 303; *Conferva limosa*, Dillwyn, t. 20; Eng. Bot. t. 2053.
In wells and slow streams.
3. *O. ochracea*.
Gr. Fl. Eds. 304; Berwick Flora, ii. 265; *Conferva ochracea*, Dillwyn, t. 62.
In springs near Darlington, D.—Mr. Backhouse. Near Benwell, N.
I suspect that this plant owes its colour, from the water in which it grows, being impregnated with iron.
4. *O. scopulorum*.
Gr. Fl. Eds. 304; *Conferva scopulorum*, Eng. Bot. 2171; Dillwyn, Sup. t. A.
On rocks on the coast.
5. *O. viridis*.
Bot. Gall. ii. 993; Berwick Flora, ii. 264.
On mud in stagnant water. In the Low below Goswick, N.—Dr. G. Johnston.
6. *O. decorticans*.
Gr. Fl. Eds. 304; *Conferva decorticata*, Dillwyn, t. 26.
On damp wood and pumps, also on walls.
7. *O. confervicola*.
Conferva confervicola, Dillwyn, t. 8; Eng. Bot. 2576.
On the stems of Algæ.
8. *O. vaginata*.
Conferva vaginata, Dillwyn, t. 99; Eng. Bot. 1995; *Vaginaria ephronopæstes*, Gr. Fl. Eds. 305, f. 1; Gray, i. 280.
On damp walls, garden posts, &c.
9. *O. æruginea*.
Dillwyn, t. T.F.; Northumberland and Durham Guide, ii. 75.
On the beach near Hartley, N. Near Sunderland, D.
10. *O. violacea*.
Berwick Flora, ii. 264; *Conferva violacea*, Hudson, 592; *C. confragosa*, With. iv. 156; Lightfoot, ii. 976; *C. mucosa*, Dillwyn, Musc. 15, t. 2, f. 4.
On stones in rapid streams near Berwick.—Dr. G. Johnston.

230. BULBOCHÆTA.

1. *B. setigera*.
Agardh, Syn. *Conferva vivipara*, Dillwyn, t. 59; Eng. Bot. 2086.
At Rice Carr, D.—Mr. Backhouse.

231. ASPEROCAULON.

1. *A. Arbuscula*.
Gr. Fl. Eds. 307; *Conferva arbuscula*, Dillwyn, t. 85; Eng. Bot. 1916.

- On rocks on the coast near Berwick.—Dr. G. Johnston. Near Whitburn, D.
 2. *A. coccineum*.
 Gr. Fl. Eds. 307; *Conferva coccinea*, Dillwyn, t. 36; Eng. Bot. 1055.
 On rocks and stones on the coast.

232. POLYSIPHONIA.

1. *P. fastigiata*.
 Gr. Fl. Eds. 308; Berwick Flora, ii. 235; *Conferva polymorpha*, Dillwyn, t. 44; Eng. Bot. 1764.
 On the stems of large Fuci, abundant.
2. *P. fucoides*.
 Gr. Fl. Eds. 308; Berwick Flora, ii. 236; *Conferva fucoides*, Dillwyn, t. 75; Eng. Bot. 1743; *C. nigrescens*, Eng. Bot. 1717.
 On stones and rocks on the coast, frequent.
3. *P. Brodiaei*.
 Spreng. Syst. Veg. iv. 349; Berwick Flora, ii. 237; *Conferva Brodiaei*, Eng. Bot. 2589; Dillwyn, t. 107; *C. atro-rubescens*, Dillwyn, t. 70.
 In Berwick Bay, N.—Dr. G. Johnston. On rocks on the coast, and on Algae, N. and D.
4. *P. urceolata*.
 Gr. Fl. Eds. 309; Berwick Flora, ii. 238; *Conferva urceolata*, Eng. Bot. 2365; Dillwyn, 82, t. G.
 On rocks, stones, and large Fuci, N. and D. Near Berwick-upon-Tweed, N.—Dr. G. Johnston.
5. *P. nigrescens*.
 Berwick Flora, ii. 236; *Conferva nigrescens*, Dillwyn, Syn. p. 81.
 On the coast near Berwick, rare.—Dr. G. Johnston.
6. *P. parasitica*.
 Gr. Fl. Eds. 309; *Conferva parasitica*, Eng. Bot. 1429; Dillwyn, 87.
 On the stems of Algae, rare.
7. *P. stricta*.
 Gr. Fl. Eds. 309; Berwick Flora, ii. 237; *Conferva stricta*, Dillwyn, t. 40.
 On rocks on the coast near Cullercoats, N. Near Whitburn, D. Near Berwick.—Dr. G. Johnston.
8. *P. Agardhiana*.
 Gr. Crypt. t. 210.
 On rocks and stones on the coast, D.
9. *P. spinulosa*.
 Gr. Crypt. t. 90.
 Among the rejectamenta of the sea at Whitburn, D.
10. *P. badia*.
 Spreng. Syst. Veg. iv. 350; Berwick Flora, ii. 237; *Conferva badia*, Dillwyn, Syn. 85.
 On the coast near Berwick upon Tweed.—Dr. G. Johnston.
11. *P. allochroa*.
 Gr. Fl. Eds. 309; Berwick Flora, ii. 238; *Conferva fibrata*, Dillwyn, p. 84, t. 9.
 On the sides of caves on the coast near Berwick.—Dr. G. Johnston. At Holy Island, N.

233. CERAMIUM.

1. *C. elongatum*.
 Gr. Fl. Eds. 310; Berwick Flora, ii. 238; *Conferva elongata*, Dillwyn, t. 33; Eng. Bot. 2429.
 On stones and rocks, frequent, N. and D.
2. *C. rubrum*.
 Gr. Fl. Eds. 310; Berwick Flora, ii. 239; *Con-*

- ferva rubra*, Eng. Bot. t. 1166; Dillwyn, t. 33 and 34.
 On rocks and the stems of Fuci, common.
3. *C. diaphanum*.
 Gr. Fl. Eds. 310; Berwick Flora, ii. 239; *Conferva diaphana*, Eng. Bot. 1742; Dillwyn, t. 38.
 On rocks, stones, and large Fuci, not rare. On the beach at Hartlepool and Seaton, D.—J. Hogg, Esq.
 4. *C. ciliatum*.
 Gr. Fl. Eds. 311; Berwick Flora, ii. 240; *Conferva ciliata*, Dillwyn, t. 53; Eng. Bot. 2428.
 On rocks and stones on the coast, rare.
 5. *C. Mertensii*.
Conferva Mertensii, Eng. Bot. 999.
 On rocks opposite Seaton, D.—Mr. Backhouse.
 Is this a plant?
 6. *C. Linum*.
Conferva Linum, Eng. Bot. 2363; *C. capillaris*, Dillwyn, t. 9; Northumberland and Durham Guide, ii. 77.
 In ditches near Jarrow Slake, D. In salt marshes near Hartlepool, D.—J. Hogg, Esq. In salt marshes near Hartley, N.
 7. *C. flexuosum*.
Conferva flexuosa, Dillwyn, t. 10; Eng. Bot. 1944.
 In Jarrow Slake and Southwick Marsh, D.
 8. *C. pulchellum*.
Conferva corymbifera, Eng. Bot. 1996; *C. chalybea*, Dillwyn, t. 91.
 In springs near Darlington, D.—Mr. Backhouse.
 9. *C. tetragonum*.
Conferva tetragona, Dillwyn, t. 65; Eng. Bot. 1690.
 On rocks at Hartlepool, D.—Mr. Backhouse.
 10. *C. ? vermiculatum*.
Rivularia vermiculata, Eng. Bot. 1818.
 On the coast at Seaton, D.—Mr. Backhouse. Near Berwick.—Dr. G. Johnston.

234. CALLITHAMNION.

1. *C. purpurascens*.
 Berwick Flora, ii. 240; *C. roscum*, Gr. Fl. Eds. 311; *Conferva purpurascens*, Eng. Bot. 2465; *C. roscum*, Eng. Bot. 966? Dillwyn, t. 17?
 On Algae and rocks, not rare. Near Berwick.—Dr. G. Johnston.
2. *C. Turneri*.
 Berwick Flora, ii. 241; *Ceramium Turneri*, Gr. Crypt. t. 355; *Conferva Turneri*, Dillwyn, t. 100; Eng. Bot. 2339.
 In Berwick Bay on *Furcellaria lumbricalis*.—Dr. G. Johnston.
3. *C. Rothii*.
 Gr. Fl. Eds. 312; Berwick Flora, ii. 241; *Ceramium Rothii*, Hook. Fl. Scot. ii. 85; *Conferva Rothii*, Dillwyn, t. 73; Eng. Bot. 1702.
 On rocks and stones on the coast, but not common, N. and D. Near Berwick upon Tweed.—Dr. G. Johnston.
4. *C. repens*.
 Berwick Flora, ii. 241; *Conferva repens*, Dillwyn, t. 18; Eng. Bot. 1608.
 Upon the coast on Fuci, N. and D. At Scremerston near Berwick.—Dr. G. Johnston.

235. GRIFFITHSIA.

1. *G. setacea*.
 Gr. Fl. Eds. 312; Berwick Flora, ii. 242;

Conferva setacea, Eng. Bot. 1689; Dillwyn, t. 82.

Among the rejectamenta on the coast, N. and D. Near Berwick.—Dr. G. Johnston.

2. *G. equisetifolia*.

Gr. Fl. Eds. 312; *Conferva equisetifolia*, Eng. Bot. 1479; Dillwyn, t. 54.

On the beach at Hartlepool, D.

3. *G. corallina*.

Hook. Fl. Scot. 84; *Conferva corallina*, Dillwyn, 98; Eng. Bot. 1815; Lightfoot, 983.

On the coast near Hartley, and at Newbiggio, N. In Manhaven near Whitburn, D.

236. CLADOSTEPHUS.

1. *C. verticillatus*.

Gr. Fl. Eds. 312; *Conferva verticillata*, Dillwyn, t. 55; Eng. Bot. 1718.

On the beach at Sunderland and Hartlepool, D.

2. *C. spongiosus*.

Gr. Fl. Eds. 313; Berwick Flora, ii. 245; *Conferva spongiosa*, Eng. Bot. 2427; Dillwyn, t. 42.

On rocks near Hartley, N. Near Hartlepool, Whitburn, and Sunderland, D. Near Berwick.—Dr. G. Johnston.

237. TRENTEPOHLIA.

1. *T. pulchella*.

Berwick Flora, ii. 242; *Conferva nana*, Eng. Bot. t. 2585.

In sub-alpine brooks on mosses, N. and D.

1. *T. chalybea*.

Berwick Flora, ii. 243; *Conferva chalybea*, Dillwyn, t. 91; *C. corymbifera*, Eng. Bot. t. 1996.

In sub-alpine rivulets, N. and D. Near Berwick.—Dr. G. Johnston.

238. SPHACELLARIA.

1. *S. scoparia*.

Gr. Fl. Eds. 313; *Conferva scoparia*, Eng. Bot. 1552; Dillwyn, t. 52.

On the sea shore, not rare.

2. *S. pennata*.

Gr. Fl. Eds. 313; *Conferva pennata*, Dillwyn, t. 86; Eng. Bot. t. 2330 (the upper and lower figures).

On the coast near Sunderland, D.

239. ECTOCARPUS.

1. *E. littoralis*.

Gr. Fl. Eds. 314; Berwick Flora, ii. 245; *Conferva littoralis*, Dillwyn, t. 31; Eng. Bot. 2290.

On rocks and wood-work on the coast.

2. *E. tomentosus*.

Gr. Crypt. t. 316; *Conferva tomentosa*, Dillwyn, t. 56.

On the stems of Fuci, but not common.

240. AMPHICONIUM.

1. *A. aurum*.

Spreng. Syst. Veg. iv. 334; Berwick Flora, ii. 243; *Ectocarpus aurum*, Gr. Fl. Eds. 315; *Ceramium aurum*, Hook. Fl. Scot. ii. 86; *Conferva aurea*, Dillwyn, t. 35; *C. ilicicola*, Eng. Bot. 1639; *Byssus aurea*, Eng. Bot. 212; With. iv. 190.

On rocks in Cawsey Wood, also near Gainford and

Sunderland, and on the bark of the Holly in Gibside and Ravensworth Woods, D. On rocks at Roadley, N.—W. C. Trevelyan, Esq. Near Berwick.—Dr. G. Johnston.

2. *A. Linnei*.

Spreng. Syst. Veg. iv. 345; Berwick Flora, ii. 245.

On the bark of Ash Trees.—Dr. G. Johnston.

241. CONFERVA.

1. *C. tortuosa*.

Gr. Fl. Eds. 315; Eng. Bot. 2220; Dillwyn, t. 46; Berwick Flora, ii. 253.

On the Tweed side above the Old Castle, Berwick, N.—Dr. G. Johnston.

2. *C. flaccida*.

Gr. Fl. Eds. 316; Dillwyn, p. 53, t. C; Eng. Bot. 2310; Berwick Flora, ii. 253; *C. curta*, Dillwyn, t. 76.

On *Fucus nodosus* and *F. vesiculosus*, N. and D. At Seaton, D.—Mr. Backhouse. Near Berwick.—Dr. G. Johnston.

3. *C. fucicola*.

Gr. Fl. Eds. 316; Dillwyn, t. 66; Berwick Flora, ii. 253.

Parasitical on *Fucus nodosus* and *F. vesiculosus*.

4. *C. lanosa*.

Gr. Fl. Eds. 316; Eng. Bot. 2099; Dillwyn, Syn. t. E.

On Algæ on the coast, N. and D. Near Berwick.—Dr. G. Johnston.

5. *C. rupestris*.

Gr. Fl. Eds. 316; Dillwyn, t. 23; Eng. Bot. 1699; Berwick Flora, ii. 255.

On rocks and stones on the coast, common. Near Berwick.—Dr. G. Johnston.

6. *C. confervicola*.

Dillwyn, Syn. 38, t. 8 and t. A; Eng. Bot. 2576; Berwick Flora, ii. 252.

Parasitical on small Algæ. Near Berwick.—Dr. G. Johnston.

7. *C. flacca*.

Dillwyn, Syn. 53, t. 49; Eng. Bot. 1943; Berwick Flora, ii. 253.

Parasitical on large Algæ. Near Berwick.—Dr. G. Johnston.

8. *C. capillaris*.

Eng. Bot. 2364; Berwick Flora, ii. 253; *C. crispa*, Dillwyn, Syn. 46, t. B.

Near Berwick, in small streams.—Dr. G. Johnston.

9. *C. fugacissima*.

Gr. Fl. Eds. 317; Dillwyn, Syn. p. 43, t. B.

In springs on moors near Wolsingham, D.—Mr. Backhouse.

10. *C. sordida*.

Gr. Fl. Eds. 317; Eng. Bot. 2303; Dillwyn, t. 60; Berwick Flora, ii. 254.

In ditches and pools, frequent. Near Berwick.—Dr. G. Johnston.

11. *C. rivularis*.

Gr. Fl. Eds. 318; Dillwyn, t. 39; Eng. Bot. 1651; Berwick Flora, ii. 254.

β *bipartita*, Eng. Bot. 2302; Dillwyn, Syn. No. 19, t. 105.

α In streams. β in pools, &c.

12. *C. fracta*.

Gr. Fl. Eds. 318; Dillwyn, t. 14; Eng. Bot. 2338; Berwick Flora, ii. 255.

- In ditches and pools not rare. Near Darlington, D.—Mr. Backhouse. Near Berwick.—Dr. G. Johnston.
13. *C. glomerata*, α *fluviatilis*.
Gr. Fl. Eds. 318; Dillwyn, t. 13; Eng. Bot. 2192.
 β *littoralis*, Berwick Flora, ii. 255; *C. late-virens*, Dillwyn, t. 43; Eng. Bot. 1854.
 α In the rivulet in Pandon Dene near Newcastle and in Heaton Dene, N. In Umby Springs near Coniscliffe, D.—Mr. Backhouse. Near Berwick in springs.—Dr. G. Johnston. β on the sea shore of Northumberland and Durham.
14. *C. alternata*.
Dillwyn, Syn. No. 22, B; Eng. Bot. 2304.
In pools and ditches not rare.
15. *C. riparia*.
Eng. Bot. t. 2100; Dillwyn, 111, t. E; Berwick Flora, ii. 254.
On rocks at Tynemouth, &c., N. At Hudshead, near Berwick.—Dr. G. Johnston.
16. *C. zonata*.
Dillwyn, Syn. 41; Berwick Flora, ii. 254; *C. lucens*, Eng. Bot. 1653; Dillwyn, t. 47.
In rivulets in the west of the county of Durham. In the river Skern near Darlington.—Mr. Backhouse. In streams near Berwick.—Dr. G. Johnston.
17. *C. oegagropila*.
Eng. Bot. 1377; Dillwyn, t. 37.
In Prestwick Carr, N.
18. *C. nivea*.
Eng. Bot. 2529; Dillwyn, Syn. 54, T, C.
In the sulphur springs at Diosdale and Middleton-one-Row, D.—Mr. Backhouse.
19. *C. lactea*.
Dillwyn, t. 79.
In the rivulets in Cawsey and Ravensworth Woods, D. In the Skern near Darlington, D.—Mr. Backhouse.
20. *C. cricetorum*.
Gr. Fl. Eds. 318; Eng. Bot. 1553; Dillwyn, 1.
On the Teesdale moors, D. On moors near Hexham, and Gilsland, N. On Green Leighton Moss, and on moors near Hunstonworth, N.—W. C. Trevelyan, Esq.
21. *C. rubiginosa*.
On rotten sticks in Cawsey and Ravensworth Woods, D.
22. *C. pectinalis*.
Dillwyn, t. 51; Eng. Bot. 1611.
Attached to dead leaves in ditches near Hamsterley, D.—Mr. Backhouse.
23. *C. protensa*.
Dillwyn, t. 67.
In a spring near Darlington, D.—Mr. Backhouse.
24. *C. castanea*.
Gr. Fl. Eds. 319; Dillwyn, t. 72; Eng. Bot. 1701.
In Scotswood Dene and other woods near Newcastle and Wallington, N.
25. *C. Orthotrichi*.
Gr. Fl. Eds. 319; Dillwyn, t. 89; *C. muscicola*, Eng. Bot. 1633.
On various species of *Orthotrichum*, and on *Bartramia fontana*, N. and D.
26. *C. ebenea*.
Gr. Fl. Eds. 319; Dillwyn, t. 100; *Byssus nigra*, Eng. Bot. 702.
On rocks in woods, and upon trunks of trees, N. and D. In Cawsey Wood, and at Hamsterley, D.
27. *C. purpurea*.
Dillwyn, t. 43; *Byssus purpurea*, Eng. Bot. 192.
On rocks and stones in Alpine situations, and in Limestone caverns near Whitburn and Sunderland, D. On Limestone rocks near Berwick.—Dr. G. Johnston.
28. *C. lichenicola*.
Eng. Bot. t. 1609.
Growing on *Lecidea marmorea* in the west of the county of Durham.
29. *C. cryptarum*.
Eng. Bot. 2533; *Byssus cryptarum*, Northumberland and Durham Guide, ii. 80.
In caves in the Limestone rocks between South Shields and Sunderland, D.
30. *C. ? velutina*.
Dillwyn, 77; Gr. Fl. Eds. 319; Eng. Bot. 1556.
On damp ground and the banks of hedges, not rare. Both Mr. Drummond, of Cork, and Dr. Greville agree in considering this heretofore species nothing more than the radicals of *Polytrichum aloides*; and, that a *Conferva*, scarcely to be distinguished from it is so of *Bryum caespitium*, careful observation has convinced me. It is by no means improbable that other supposed *Confervæ*, upon close investigation, may turn out to be no more than the first germination of mosses. I would particularly direct the attention of botanists to *Oscillatoria muralis*.

242. ZYGNEMA.

1. *Z. geniculatum*.
Gr. Fl. Eds. 320; Berwick Flora, ii. 257; *Conferva geniculata*, Eng. Bot. 1914; Dillwyn, t. 6.
In pools and ditches, N. and D. At Polam, D.—Mr. Backhouse. Near Berwick.—Dr. G. Johnston.
2. *Z. decimum*.
Gr. Fl. Eds. 320; Berwick Flora, ii. 255; *Conferva nitida*, Eng. Bot. 2337; Dillwyn, t. 4, A, B; *C. jugalis*, Dillwyn, t. 5.
In ditches near Darlington, D.—Mr. Backhouse. Near Wallington, N. Near Berwick.—Dr. G. Johnston.
3. *Z. quinimum*.
Gr. Fl. Eds. 320; Berwick Flora, ii. 255; *Conferva spiralis*, Dillwyn, t. 3; Eng. Bot. 1656.
In pools and ditches not rare. Near Berwick.—Dr. G. Johnston.
4. *Z. bipunctatum*.
Gr. Fl. Eds. 300; Berwick Flora, ii. 256; *Conferva bipunctata*, Dillwyn, t. 2; Eng. Bot. 1610.
In ditches near Darlington, D.—Mr. Backhouse. Near Berwick.—Dr. G. Johnston.

243. DRAPARNALDIA.

1. *D. glomerata*.
Gr. Fl. Eds. 321; *Conferva mutabilis*, Eng. Bot. 1746.
In ditches near Darlington, D.—Mr. Backhouse.
2. *D. plumosa*.
Spreng. Syst. Veg. iv. 369; Berwick Flora, ii. 253; *Conferva lubrica*, Eng. Bot. t. 2087; *C. mutabilis*, Dillwyn, 63, t. 12.
In springs near Berwick.—Dr. G. Johnston.

244. BATRACHOSPERMUM.

1. *B. moniliforme*.
Hook. Fl. Scot. ii. 77; Berwick Flora, ii. 257;

Conferva gelatinosa, Eng. Bot. 689; Dillwyn, Syn. 63, t. 22.

In springs at the head of Horsley Hope Bourn near Healey Field, D. In springs near Wardrew and Wallington, and in loughs on the moors, N.

2. *B. atrum*.

Conferva atra, Dillwyn, t. 11; Eng. Bot. 690. In Horsley Hope Bourn, D.

3. *B. carulescens*.

Berwick Flora, ii. 258.

In moss holes on the moors near Berwick.—Dr. G. Johnston.

245. CHÆTOPHORA

1. *C. elegans*.

Gr. Fl. Eds. 321; *Rivularia elegans*, Eng. Bot. 1797.

In Prestwick Carr, N. In ditches near Darlington, D.—Mr. Backhouse.

2. *C. marina*.

Gr. Fl. Eds. 322; Gr. Crypt. t. 53; Berwick Flora, ii. 260; *Rivularia tuberculiformis*, Eng. Bot. 1956.

On the sea coast upon rocks, shells, and corallines. At Holy Island, N.

3. *C. endiviæfolia*.

Spreng. Syst. Veg. iv. 371; Berwick Flora, ii. 261; *Ulva incrassata*, Eng. Bot. t. 967; Hudson, 572; *Tremella incrassata*, Hull, 310.

In ditches near Darlington, D.—Mr. Backhouse. On Limestone in fresh-water ponds near Scremerston, N.—Dr. G. Johnston.

4. *C. tuberculosa*.

Spreng. Syst. Veg. iv. 371; Berwick Flora, ii. 260; *Rivularia tuberculosa*, Eng. Bot. 2366.

In springs near Berwick.—Dr. G. Johnston.

246. LINCKIA.

1. *L. dura*, β *calcarca*.

Gr. Fl. Eds. 322; Berwick Flora, ii. 261; *Rivularia calcarca*, Eng. Bot. 1799.

In pools of water in Teesdale Forest, D. On moors near Berwick.—Dr. G. Johnston.

2. *L. atra*.

Gr. Fl. Eds. 322; Berwick Flora, ii. 261; *Rivularia atra*, Eng. Bot. 1798.

On the sea shores upon Algæ and corallines.

247. COCCOCHLORIS.

1. *C. protuberans*.

Spreng. Syst. Veg. iv. 373; Berwick Flora, ii. 262; *Palmella protuberans*, Gr. Fl. Eds. 323; Crypt. t. 243, f. 1.

On rocks covered with moss and Lichens near Berwick.—Dr. G. Johnston.

2. *C. radicata*.

Spreng. Syst. Veg. iv. 372; Berwick Flora, ii. 262; *Palmella botryoides*, Gr. Fl. Eds. 323; Crypt. t. 243, f. 2.

On moist heathy banks.—Dr. G. Johnston.

3. *C. vulgaris*.

Berwick Flora, ii. 263; *Chlorococcum vulgare*, Gr. Crypt. t. 262; *Lepraria botryoides*, Ach. Syn. 331.

Common on wood in damp places.

4. *C. cruenta*.

Spreng. Syst. Veg. iv. 373; Berwick Flora, ii. 263; *Tremella cruenta*, Eng. Bot. 1800; *Palmella cruenta*, Gr. Crypt. t. 205.

On the lower parts of damp walls, frequent.

5. *C. rupestris*.

Spreng. Syst. Veg. iv. 373; Berwick Flora, ii. 263; *Palmella rupestris*, Lyngby, Hyd. Dan. 207, t. 69, according to Dr. G. Johnston.

On rocks at the calcareous spring below Twizell Castle, N.—Rev. A. Baird. Near Berwick.—Dr. G. Johnston.

248. LYNGBIA.

1. *L. muralis*.

Bot. Gall. ii. 987; Berwick Flora, ii. 258; *Oscillatoria muralis*, Gr. Fl. Eds. 304; *Conferva muralis*, Eng. Bot. 1554; Dillwyn, 39, t. 7; β *autumnalis*, *Oscillatoria autumnalis*, Gr. Fl. Eds. 305; Agardh, Syn. 106; Lyngby, 95.

On damp walls and wood work, everywhere.

249. NOSTOC.

1. *N. commune*.

Gr. Fl. Eds. 322; Berwick Flora, ii. 262; *Tremella Nostoc*, Eng. Bot. 461.

In meadows and pastures, N. and D. On walls near Berwick.

2. *N. verrucosum*.

Tremella verrucosa, With. iv. 96.

On stones in Horsley-hope Bourn, D.

3. *N. intumescens*.

Tremella intumescens, Eng. Bot. 1870; With. iv. 95.

On Limestone rocks near Old Park, Stanhope, D.—W. C. Trevelyan, Esq.

4. *N. caruleum*.

Gr. Crypt. t. 131.

Upoo moss near Picktree and Lambton, D.

250. PALMELLA.

P. botryoides.

Gr. Fl. Eds. 323; Crypt. t. 243.

Upon the ground on heaths and moors, N. and D.

On walls near Berwick.—Dr. G. Johnston.

2. *P. protuberans*.

Gr. Fl. Eds. 323; Gr. Crypt. 243; *Ulva protuberans*, Eng. Bot. 2583; *Coccochloris protuberans*, Spreng. Syst. Veg. iv. 373.

Upon mosses on moors, not common.

251. MONEMA.

1. *M. Dillwynii*.

Gr. Syn. 38; Crypt. t. 297.

On Slaty rocks, particularly when covered with a thin coating of fine mud, on the coast at Berwick.—Dr. G. Johnston.

2. *M. apiculata*.

Gr. Syn. 38; *Gloionema apiculata*, Crypt. t. 30.

On rocks and stones on the coast, rare.

252. SCHIZONEMA.

1. *S. Smithii*.

Gr. Syn. 38; Crypt. t. 298; Berwick Flora, ii. 260; *Ulva fastida*, Eng. Bot. t. 2101.

On Algæ, &c., not rare, N. and D. Near Berwick.
—Dr. G. Johnston.

253. GOMPHONEMA.

1. *G. minutissima*.
Gr. Syn. 39; Crypt. t. 244, f. 1; Berwick Flora, ii. 266.
In ditches.—Dr. G. Johnston.
2. *G. paradoxum*.
Gr. Syn. 38; Berwick Flora, ii. 266; *Echinella paradoxa*, Gr. Crypt. t. 25.
On marine plants, not rare, N. and D. Near Berwick.—Dr. G. Johnston.
3. *G. geminatum*.
Gr. Crypt. t. 244; Syn. 39; Berwick Flora, ii. 266.
On moors near Berwick.—Dr. G. Johnston.

254. EXILARIA.

1. *E. circularis*.

Gr. Syn. 37; *Echinella circularis*, Gr. Crypt. t. 35
Berwick Flora, ii. 267.

On plants in rivulets.—Dr. G. Johnston.

2. *E. fasciculata*.
Gr. Syn. 37; *Echinella fasciculata*, Gr. Crypt. t. 16, f. 1, 3, and t. 298, f. 3, a; Berwick Flora, ii. 266.
On stones and small Algæ, not very rare, near Berwick.—Dr. G. Johnston.
3. *E. truncata*.
Gr. Syn. 37; *Echinella fasciculata* β , Crypt. t. 16, f. 4; Berwick Flora, ii. 267.
On Fuci, &c., near Berwick.—Dr. G. Johnston.
4. *E. acuta*.
Echinella acuta, Berwick Flora, ii. 267.
Near Berwick.—Dr. G. Johnston.
5. *E. lunulata*.
Echinella lunata, Berwick Flora, ii. 267.
In streams attached to plants.—Dr. G. Johnston.

ADDENDA,

Containing Plants and Habitats ascertained since the preceding Pages
were printed.

PART I.

- Veronica montana*, Page 2, Genus 6, No. 7.
In the woods at Wardrew, N., abundant.
- Utricularia intermedia*, P. 2, G. 8, No. 2.
In a bog near Crag Lake, N.—Mr. J. Thompson, Sp.
- U. minor*, P. 2, G. 8, No. 3.
In ditches on Baron House Bog, about a mile from Wardrew, N.
- Iris fetidissima*, P. 3, G. 16, No. 2.
In a wood to the north of Sunderland Bridge, near Rushyford, D.—Mr. Backhouse.
- Scirpus pauciflorus*, P. 3, G. 19, No. 2.
By the Irthing near Gilsland, N.
- S. fluitans*, P. 3, G. 19, No. 3.
In Bromley Lake, N.—Mr. J. Thompson.
- Eriophorum pubescens* α , P. 4, G. 21, No. 3.
Near Bourn House, in the neighbourhood of Ridley Hall, N.—Mr. John Thompson, Sp.
- Sagina maritima*, P. 11, G. 65, No. 2.
On the coast near Hartley Bates, N.
- S. apetala*, P. 11, G. 65, No. 3.
On the coast at Newbiggin and Near Hartley, N.
- Myosotis repens*. Creeping Water Scorpion-grass,
P. 11, G. 68, No. 6.
Eng. Bot. 2703; Berwick Flora, ii. 274; Hook.
Br. Fl. 83, under *M. palustris*; *M. scorpioides*, Alpine variety; Northumberland and Durham Guide, i. 18.
By the Irthing, on the moors above Gilsland, and by the rivulet near the summit of Cheviot, N. In the vale below Langley Ford, and in Horncliff Dene.—Dr. G. Johnston. On the moors near Redpath, N.—W. C. Trevelyan, Esq. By the High Force, and on Widdy Bank, D.—Mr. Backhouse.
This plant requires too long a specific character to be a very good species.—See Eng. Bot. Sowerby's drawing in that work appears to me to be very faithful, and the yellowish hue of the herbage true to nature. Is it not a moorland variety of *M. palustris*?
- Primula farinosa*, P. 13, G. 77, No. 2.
On bogs near Chollerford Bridge N.
- Viola lutea*, P. 14, G. 86, No. 6.
The blue variety, on Wall-Town Crag, N.
- Atropa Belladonna*, P. 15, G. 90, No. 1.
On the banks of a rivulet which enters the Tweed at Horncliff, N.—Mr. H. Carr, in Berwick Flora.
- Enanthe crocata*, Page 19, Genus 122, No. 4.
By Dr. Hooker's remarks in his British Flora, at p. 123, my attention has been recalled to a plant of common occurrence on the banks of Tyne and the other rivers in this neighbourhood, which, from Smith's description, and Sowerby's figure at 2213, of the English Botany, and in the Medical Botany, t. 267, I had considered as the Hemlock Water Dropwort, overlooking the circumstance, that *Enanthe crocata* has a yellow juice. Lamarck and De Candolle, in their Flora of France, Woodville, in the Medical Botany, and Dr. Withering, in his Arrangement of British Plants, make no mention of this yellow fluid, but Sprengel, in his edition of the Systema Vegetabilium, i. 889, when speaking of the plant says, "Succo luteo vcnenoso scatet;" and when he describes the succeeding plant, *Enanthe aptifolia*, adopted from Brotero's Flora Lusitanica, he adds to a description which, with the exception of the stem being smooth instead of furrowed, might answer for either species, "Succo nullo peculiari gaudet." Certain it is, that in this particular, the Water Dropwort of our district resembles the Portuguese plant, but whether it be identically the same, I cannot take upon me to say for want of authenticated specimens of the Celery-leaved Water Dropwort.
- Galanthus nivalis*, P. 21, G. 145, No. 1.
In the dene at Halton Castle, N.
- Narcissus Pseudo-narcissus*, P. 21, G. 146, No. 2.
Near Chillingham, N.—Mrs. Langhorne, in Berwick Flora.
- Allium Schœnoprassum*, P. 22, G. 147, No. 5.
This plant, which is not enumerated in Ray's Synopsis of British Species, grows in considerable abundance on the flat Basaltic rocks between the Roman Station at Wall-Town and the Crag, near an ancient well called the King's Well, N.
- Ornithogalum luteum*, P. 22, G. 149, No. 1.
In woods at Halton Castle, N.—Miss Atkinson, of Carlisle.
- Convallaria multiflora*, P. 22, G. 151, No. 3.
Near Stannington Bridge, N.—Mr. R. B. Bowman. Probably naturalized in that locality.
- Juncus lampocarpus* β , P. 23, G. 153, No. 12.
Hooker, Fl. Brit. 162; *J. nigritellus*, Eng. Bot. 2643.
Near the Bourn House, three quarters of a mile south of Ridley Hall, and in Lipwood Moss, two miles north of Lipwood, N.—Mr. John Thompson, Sp.

- Epilobium angustifolium*, Page 24, Genus 165, No. 1.
At Hareshaw Linn, to the north of Bellingham, N.
—Mr. John Thompson.
- Vaccinium uliginosum*, P. 25, G. 167, No. 2.
On the summit of Wall-Town Crag, and on the
moor near Caervoran, and on Baron House Bog,
a mile from Wardrew, N.
- Daphne Laureola*, P. 25, G. 170, No. 2.
In hedges near Hedworth, D.—Mr. John Thornhill,
Jun.
- Paris quadrifolia*, P. 26, G. 173, No. 1.
In the woods at Gilsland, N.—Miss Atkinson, of Car-
lisle. Near Lipwood, N.—Miss E. Errington.
In the dene at Halton Castle, N.
- Pyrola minor*, P. 27, G. 179, No. 3.
On the banks of the Irthing below the Cascade, near
Gilsland, N.
- Saxifraga aizoides*, P. 28, G. 181, No. 3.
On rocks close to Gilsland Spa, sparingly, but in abun-
dance beyond the upper stepping stones, and by
the Cascade of the Irthing, two miles above War-
drew, N.
- S. tridactylites*, P. 28, G. 181, No. 5.
On Wall-Town Crag, N.
- Dianthus deltoideus*, P. 28, G. 184, No. 2.
In fields near Wolsingham, D.—Mr. Backhouse.
- Arenaria verna*, P. 29, G. 187, No. 4.
On Spindlestone Crag, N.—Mr. R. Embleton, in
Berwick Flora.
- Reseda lutea*, P. 31, G. 197, No. 2.
Berwick Flora, ii. 281.
On Spital Links, N.—Dr. G. Johnston.
- Rosa scabriuscula*, P. 33, G. 203, No. 6.
In woods at Wardrew, N.
- Rubus suberectus*. Red-fruited Bramble, P. 33, G.
204, No. 8.
Sm. Eng. Fl. ii. 406; Eng. Bot. 2572; Hook.
Fl. Scot. 159; Anderson, Lin. Tr. xi. 218, t. 16.
At Hareshaw Linn, a little to the north of Belling-
ham, N.—Mr. John Thompson, Sp.
- R. affinis*. Great Hairy Bramble, P. 35, G. 204,
No. 3.
Sm. Eng. Fl. ii. 405.
By the Skerne near Darlington, D.—Mr. Backhouse.
- Tormentilla reptans*, P. 35, G. 207, No. 2.
Near Cowpen, N.—Miss E. Errington, Sp.
- Geum urbanum*, β *intermedium*, P. 35, G. 208, No. 1.
In woods at Gilsland, N.—Miss Atkinson, of Car-
lisle. Near Warden Mill and Warkworth, N.—
Miss E. Errington, Sps.
- Trollius europæus*, P. 38, G. 226, No. 1.
In boggy meadows between Wardrew and Wall-Town
Crag, N.
- Scutellaria galericulata*, P. 41, G. 245, No. 1.
Near Reedsmonth, N.—Mr. John Thompson.
- Lathræa squamaria*, P. 41, G. 251, No. 1.
Near Lipwood House and Ridley Hall, N.—Mr.
John Thompson, Sp.
- Arabis hirsuta*, P. 45, G. 276, No. 2.
On Wall-Town Crag, N.
- Vicia sylvatica*, P. 48, G. 294, No. 1.
On the banks of Allen not far from Ridley Hall, N.
- V. sativa* γ , Page 48, Genus 294, No. 3.
V. Bobartii, Eng. Bot. 2708.
On the sea coast and Magnesian Limestone, not rare.
- V. lathyroides*, P. 48, G. 294, No. 4.
On the edges of fields near Cullercoats, N.—Mr. R.
B. Bowman, Sp. in seed. On the sea banks near
South Shields, and below Westoe, D.
- Melilotus leucantha*, P. 49, G. 300, No. 2.
Eng. Bot. 2639; *Trifolium leucanthum*, Berwick
Flora, ii. 286.
Near Cowpen, N.—Miss E. Errington, Sps. In
Coupland plantations near Wooler, and on the sea
banks near Berwick, N.—Dr. G. Johnston.
- Hieracium murorum*, P. 51, G. 312, No. 2.
On rocks at Gilsland, N. Near Crag Lake, N.—
Mr. J. Thompson.
- H. sylvaticum*, P. 51, G. 312, No. 3.
At Thorngrifton, near Bardon Mill, N.—Mr. J.
Thompson, Sp.
- H. sabaudum* β , P. 51, G. 312, No. 5.
Stem tall, slender, leaves lanceolate, narrow,
slightly toothed, hairy on their under sides and
edges, and supported by long foot-stalks, and
blotched with blackish purple oblong spots.
This singular variety was gathered by Mr. John
Thompson, at Thorngrifton, in the vale of South
Tyne, N.
- H. prenanthoides*. Rough-bordered Hawk-weed, P.
51, G. 312, No. 8.
Sm. Eng. Fl. iii. 368; Eng. Bot. 2235; Hook.
Fl. Scot. 232; *H. spicatum*, Dick. in Linn. Tr.
ii. 238.
On the banks of Allen, not far from Ridley Hall, N.
—Mr. J. Thompson, Sp.
- Orchis bifolia*, P. 56, G. 344, No. 1.
About Wardrew, N., abundant.
- O. viridis*, P. 56, G. 344, No. 7.
On Doddington Moor, N.—Dr. G. Johnston.
- O. latifolia* β , P. 56, G. 344, No. 8.
The most common variety about Wardrew, N.
- Listera Nidus-avis*, P. 57, G. 347, No. 3.
In woods at Gilsland, pointed out by Miss Atkinson,
of Carlisle. Near Streatham Castle, D.—Miss M.
Hancock.
- L. cordata*, P. 59, G. 347, No. 2.
On Hedgehope, N.—Dr. G. Johnston.
- Carex dioica*, P. 59, G. 357, No. 1.
Near the Irthing at Wardrew, N.
- C. curta*, P. 59, G. 357, No. 5.
On the Muckle Moss, N.—Mr. John Thompson, Sp.
- C. limosa*, P. 59, G. 357, No. 17.
On the Muckle Moss, N.—Mr. John Thompson, Sp.
- C. fulva*, P. 60, G. 357, No. 21.
On Baron House Bog near Wardrew, N.
- C. filiformis*. Slender-leaved Carex, P. 60, G. 357,
No. 39.
Sm. Eng. Fl. iv. 128; Eng. Bot. 904; Gooden.
Linn. Tr. ii. 172, t. 20, f. 5; Hook. Fl. Scot.
270; *C. tomentosa*, Lightfoot, 553; Hudson,
650.
On Baron House Bog, about a mile from Wardrew,
N.
- Salix amygdalina*, Page 62, Genus 376, No. 2.
Between Plawsworth and Witton-Gilbert, D.—Mr.
John Thornhill, Jun.
- S. pentandra*, P. 62, G. 376, No. 3.

- In a boggy meadow near Caervoran, (*Magna*) N.
At the head of Howns Wood.—Mr. John Thornhill, Jun.
S. radicans, Page 62, Genus 376, No. 4.
In woods at Wardrew, by the Irthing, N.
S. Croweana, P. 63, G. 276, No. 13.
In Castle Eden Dene, D.—Mr. Backhouse.
- S. Andersoniana* Mas., Page 63, Genus 376, No. 23.
In woods at Wardrew, N.
S. Forsteriana, P. 63, G. 376, No. 24.
By the Irthing at Gilsland, N.
Taxus baccata, P. 65, G. 338, No. 1.
On high rocky cliffs by the Irthing, above Wardrew Spa, N.

PART II.

- Chara hispida*, Page 66, Genus 1, No. 2.
In the Mill Race at Reeds mouth, N.—Mr. John Thompson.
C. aspera, P. 66, G. 1, No. 3.
In the Irthing, near the lower stepping stones above Gilsland Spa, N. In a Limestone Quarry near Rusbyford, D.—Mr. Backhouse.
C. norvegica, Hooker MSS., P. 66, G. 1, No. 5.
In the lake at Hardwick, D.—Mr. Backhouse.
Equisetum variegatum, P. 66, G. 2, No. 7.
On rocks above the second stepping stones over the Irthing, near Gilsland Spa, scarce, but in great abundance half a mile higher up the stream, N.
Ophioglossum vulgatum, P. 67, G. 6, No. 1.
In moist meadows south of Wardrew, N. Near Hilton Castle, and Howns Wood, D., and near Stanington, N.—Mr. R. B. Bowman.
Botrychium Lunaria, P. 67, G. 7, No. 1.
In meadows south of Wardrew, N. Near Hilton Castle, D.—Mr. R. B. Bowman.
Cryptogramma crista, P. 67, G. 10, No. 1.
On Wall-Town Crags, N.
Aspidium Oreopteris, P. 68, G. 13, No. 2.
On the banks of Allen, not far from Ridley Hall, N.
—Mr. J. Thompson.
Polypodium Phegopteris, P. 68, G. 14, No. 2.
In the woods at Wardrew, N.
P. Dryopteris, P. 68, G. 14, No. 3.
In the woods at Wardrew, N.
Cystea fragilis, P. 69, G. 16, No. 1.
On walls at Gilsland and Wardrew, N.
- Phascum patens*, Page 69, Genus 18, No. 5.
In bogs near Wardrew, N. At Prestwick Carr, N.
—Mr. R. B. Bowman.
Gymnostomum Donianum, P. 70, G. 20, No. 7.
On Sandstone rocks at Gilsland, N. In Cawsey Wood, D.—Mr. R. B. Bowman.
Grimmia Doniana, P. 72, G. 29, No. 5.
Hook. and Tay. Musc. 72; Eng. Bot. 1259; Arn. Disp. Musc. 20.
On Cheviot, N.
Weissia verticillata, P. 72, G. 31, No. 7.
By the Irthing, near Wardrew, N.
Orthotrichum anomalum, P. 74, G. 37, No. 2.
Eng. Bot. 2696.
On rocks near Wardrew, N.
Anomodon viticulosus, P. 74, G. 39, No. 2.
On rocks by the Irthing, at Wardrew, N.
Hypnum Crista-castrensis, P. 78, G. 44, No. 53.
Hook. and Tay. Musc. 190; Eng. Bot. 2108; Arn. Disp. Musc. 69.
Found in fructification on the south side of Tees near Gainford by Mr. Backhouse.
Bryum caespitium, P. 78, G. 45, No. 11.
The note attached to this species of moss is an error. It should have followed *Polytrichum aloides*; P. 71, G. 23, No. 7.
Collema saturninum, P. 93, G. 83, No. 5.
By the Irthing at Gilsland, N.
Phragmidium Potentilla, P. 113, G. 163, No. 2.
Gr. Syn. 3; *Puccinea Potentilla*, Crypt. t. 57.
On the leaves of *Potentilla* and *Tormentilla*.

EXOTIC PLANTS

Gathered on the Ballast Hills by the Shores of the Rivers Tyne and Wear.

- Blitum virgatum*.
Willd. Sp. Pl. i. 30.
A native of France and Spain.
Phalaris paradoxa.
Willd. Sp. Pl. i. 329.
The south of Italy and the Levant.
Bromus madritensis.
Willd. Sp. Pl. i. 437.
Spain.
Convolvulus tricolor.
Willd. Sp. Pl. i. 874.
The south of Europe and north of Africa.
- Hyoscyamus albus*.
Willd. Sp. Pl. i. 1101.
The south of Europe.
H. aureus.
Willd. Sp. Pl. i. 1101.
The Greek Islands and the Levant.
Solanum Lycopersicum.
Willd. Sp. Pl. i. 1033.
South America.
Tordylium syriacum.
Willd. Sp. Pl. i. 1381.
Syria.

- Cumyrum Cyminum*.
Willd. Sp. Pl. i. 1441.
Egypt.
- Apium Petroselinum*.
Willd. Sp. Pl. i. 1475.
Mediterranean Islands.
- Reseda odorata*.
Willd. Sp. Pl. ii. 875.
Italy and Egypt.
- R. fruticulosa*.
Willd. Sp. Pl. ii. 878.
Spain.
- R. alba*.
Willd. Sp. Pl. ii. 879.
South of France.
- Euphorbia Tithymaloides*.
Willd. Sp. Pl. ii. 890.
South America.
- E. spinosa*.
Willd. Sp. Pl. ii. 908.
South of France.
- Mesembryanthemum crystallinum*.
Willd. Sp. Pl. ii. 1033.
Greece.
- M. falcatum*.
Willd. Sp. Pl. ii. 1046.
The Cape of Good Hope.
- M. glomeratum*.
Willd. Sp. Pl. ii. 1046.
The Cape of Good Hope.
- Argemone mexicana*.
Willd. Sp. Pl. ii. 1148.
Mexico and the West Indies.
- Nigella arvensis*.
Willd. Sp. Pl. ii. 1248.
France and Germany.
- N. damascena*.
Willd. Sp. Pl. ii. 1248.
The south of Europe.
- Ranunculus muricatus*.
Willd. Sp. Pl. ii. 1329.
The south of Europe.
- Lepidium sativum*.
Willd. Sp. Pl. iii. 435.
Habitat unknown.
- Alyssum incanum*.
Willd. Sp. Pl. iii. 463.
The north of Europe.
- Lavatera trimestris*.
Willd. Sp. Pl. iii. 797.
The south of Europe and the Levant.
- Pisum Ochrus*.
Willd. Sp. Pl. iii. 1071.
Italy and the Mediterranean Islands.
- Ornithopus compressus*.
Willd. Sp. Pl. iii. 1156.
Italy and Sicily.
- Scorpiurus vermiculata*.
Willd. Sp. Pl. iii. 1159.
The south of Europe.
- Vicia benghalensis*.
Willd. Sp. Pl. iii. 1101.
The East Indies and the Levant.
- V. cordifolia*.
Spreng. Syst. Veg. iii. 265.
Carniola.
- Trifolium indicum*.
Willd. Sp. Pl. iii. 1353.
India.
- T. messanense*.
Willd. Sp. Pl. iii. 1353.
Sicily, and the north of Africa.
- T. elegans*.
Spreng. Syst. Veg. iii. 209.
The south of Europe, and north of Africa and the Levant.
- Medicago prostrata*.
Willd. Sp. Pl. iii. 1405.
Italy, and the south of Europe.
- M. coronata*.
Willd. Sp. Pl. iii. 1413.
The south of France.
- M. rigidula*.
Willd. Sp. Pl. iii. 1417.
The south of Europe, and north of Africa.
- Scolymus maculatus*.
Willd. Sp. Pl. iii. 1630.
South of Europe, and north of Africa.
- Chrysanthemum italicum*.
Willd. Sp. Pl. iii. 2148.
Italy.
- Anthemis tomentosa*.
Willd. Sp. Pl. iii. 2176.
Greece, and Asia Minor.
- A. mixta*.
Willd. Sp. Pl. iii. 2177.
France and Italy.
- A. valentina*.
Willd. Sp. Pl. iii. 2188.
South of France and Spain.
- Centaurea galactites*.
Willd. Sp. Pl. iii. 2327.
South of Europe, and north of Africa.
- Calendula officinalis*.
Willd. Sp. Pl. iii. 2340.
South of Europe.
- Cannabis sativa*.
Willd. Sp. Pl. iv. 768.
Persia and India.
- Atriplex hortensis*.
Willd. Sp. Pl. iv. 961.
Tartary?
- Salix acutifolia*.
Willd. Sp. Pl. iv. 668.
- S. violacea*, Andr.; *S. caspica*, Hortulorum.
Russia? Naturalized in woods and hedges near Gilsland.

OBSERVATIONS ON THE PRECEDING FLORA.

READ JUNE 20, 1831.

IN collecting the materials for the preceding Catalogue Raisonné of the Flora of Northumberland and Durham no merit can be claimed, but such as is due to some degree of patience and perseverance, which, in a favourite pursuit, may be considered very trivial indeed. However, it is the result of more than thirty years' attention to our native Botany, and may prove useful to those who shall have leisure and inclination to follow up and extend these researches. The indigenous plants of this portion of England are numerous, considering its northern latitude,*

* I am indebted to the kindness of Mr. LOSH for allowing me to extract the data on which the following table of the temperature of the atmosphere in lat. 55°, is founded, from a meteorological register kept by him at Jesmond, for several years past. The height of the thermometer was noted each day at 9, 2, and 11 o'clock, so that the result is drawn from upwards of 2,500 observations. The elevation of Jesmond is about 200 feet above the level of the sea; and it is distant from the coast between seven and eight miles:—

	1812.	1813.	1814.	1815.	1816.	1817.	1818.
January,	36 $\frac{1}{2}$	36 $\frac{3}{4}$	28 $\frac{1}{2}$	33 $\frac{1}{2}$	37	40 $\frac{1}{2}$	38
February,	40 $\frac{3}{4}$	43 $\frac{1}{4}$	35 $\frac{3}{4}$	43	36	43	32
March,	37 $\frac{1}{2}$	45	38 $\frac{1}{2}$	43 $\frac{1}{2}$	37 $\frac{1}{2}$	41 $\frac{1}{2}$	38 $\frac{1}{2}$
April,	42	47	50 $\frac{1}{4}$	46 $\frac{1}{2}$	41	46 $\frac{1}{2}$	42
May,	51	52 $\frac{3}{4}$	47 $\frac{3}{4}$	53 $\frac{1}{2}$	48 $\frac{3}{4}$	49	51
June,	56 $\frac{3}{4}$	56 $\frac{1}{2}$	53	57 $\frac{1}{4}$	54 $\frac{3}{4}$	57 $\frac{3}{4}$	62 $\frac{1}{4}$
July,	57 $\frac{3}{4}$	60 $\frac{3}{4}$	60 $\frac{1}{2}$	58	56 $\frac{1}{4}$	57 $\frac{1}{4}$	63
August,	58	58	60 $\frac{1}{4}$	59	56 $\frac{3}{4}$	55 $\frac{3}{4}$	58
September,	55 $\frac{3}{4}$	56 $\frac{1}{4}$	56 $\frac{1}{4}$	56 $\frac{1}{2}$	52	55 $\frac{1}{4}$	55 $\frac{1}{2}$
October,	49	47	48	50 $\frac{1}{4}$	44	44	53 $\frac{1}{4}$
November,	42	40	41 $\frac{3}{4}$	43	39 $\frac{1}{4}$	45 $\frac{3}{4}$	48 $\frac{3}{4}$
December,	37	39 $\frac{3}{4}$	38 $\frac{1}{2}$	33	36 $\frac{3}{4}$	35	40 $\frac{3}{4}$
	47	48 $\frac{7}{12}$	46 $\frac{7}{12}$	48 $\frac{1}{12}$	45 $\frac{1}{24}$	47 $\frac{7}{12}$	49 $\frac{1}{2}$

Average temperature of seven years,..... 47 $\frac{29}{48}$ degrees.

and many of them rare, notwithstanding none of its mountains reach the height of three thousand feet, for it is at a superior elevation

At Edinburgh, lat. $55^{\circ} 47'$, mean temperature, $47^{\circ} 8'$. This calculation has been made from six years' excellent observations, by Professor PLAYFAIR; during this time, the thermometer was never seen above $75^{\circ} 8'$. Vegetation continues from March 20, to Oct. 20. The mean temperature of these seven months is, from $55^{\circ} 8'$ to $50^{\circ} 9'$; accordingly, the years are more or less fruitful; wheat does not ripen if the mean temperature descends to $47^{\circ} 6'$. The mean heat of the summers of Scotland in the environs of Edinburgh, is found again on the table lands of New Grenada, so rich in wheat, at 1,400 toises of elevation, and at 4° of north latitude.—*Humboldt.*

Keswick, lat. $54^{\circ} 33'$, mean temperature,.....	48°
—————, of Springs,	$46 . 6'$
Kendal, $54^{\circ} 17'$, —————,	$46 . 2$
—————, of Springs,	$47 . 2$

Dalton.

The range of temperature of the springs in the neighbourhood of Newcastle has been, for the preceding twelve months, from 42° to $49\frac{1}{2}^{\circ}$. Those which appear most regular are, the Cradle Well, by the road to Jesmond, and the Holy Well, in Jesmond Dene, the courses of which must be in the Seventy-fathom Post, as the miners call it. This stratum of Sandstone is nearly 50 feet thick, and crops out on the south-west side of the Town Moor, covering the high main seam of Coal, which has been worked out from under the springs; and as the old colliery is now drained, the water cannot rise from below the Coal.

During the month of April, 1818, the	On the 6th of September,	$49\frac{1}{2}$
Jesmond Springs, stood at	On the 1st of November,.....	49
On the 19th of May,	On the 15th of ditto,	48
On the 1st of June,	On the 15th of December,	45
On the 10th of June,	On the 17th of January,	44
On the 15th of July,	On the 27th of ditto,	43
On the 28th of ditto,	On the 5th of March,	42

Mean temperature, ascertained by fifty observations,..... $45\frac{2}{3}^{\circ}$.

From a spring rising in the higher part of Newcastle, at an elevation of 180 feet above the level of the sea, the following less correct results were obtained, owing to its flowing for some distance nearer the surface of the earth:—

During the month of April, 1818, the	On the 6th of September,	56
temperature was	On the 1st of November,.....	53
On the 19th of May,	On the 15th of ditto,	51
On the 1st of June,	On the 15th of December,	47
On the 10th of ditto,	On the 17th of January,	44
On the 15th of July,	On the 27th of ditto,.....	43
On the 28th of ditto,	On the 5th of March,	42

Mean temperature,

WINCH on the Geographical Distribution of Plants through the Counties of Northumberland, Cumberland, and Durham.—Pamphlet, 8vo., 2d Edition, 1825.

that the extremely scarce plants of the Welch and Scotch Alps, reward the toil of the Botanist.

To those long conversant with this science, the natural arrangement, generally adopted by the French school, would seem to have given the preceding pages the air of greater research ; but the Linnæan method, though artificial, has been chosen : for, as Dr. HOOKER justly remarks, “the experience of a hundred years has proved to every unprejudiced mind, that no system can be compared to that of the immortal Swede, for the facility with which it enables any one hitherto unpractised in botany to arrive at a knowledge of the genus and species of a plant.” And as the chief value of these memoranda will be in assisting those who are commencing their botanic career, an enumeration of genera and species adapted to their line of study was to be preferred.

One of the first difficulties the student will have to encounter is the unsettled state in which he will find many genera, and far more species, of plants, so common as to be met with in every hedge and wood ; for, unfortunately, scarcely two botanists of the present day can agree upon what should constitute generic, much less specific, distinctions. This may appear a startling assertion, but in making it I am borne out by one of the best and most accomplished botanist of our time, whose ideas on this subject I shall take the liberty to give in his own words. “In nothing is more consideration now required than to determine what of new genera ought to be adopted and what rejected. Had you and I begun our botanic career when old DICKSON was in his prime, we should have had the same aversion to the Hedwigian improvements which he had, but which have nevertheless tended so very much to the advancement of muscology. At the same time I must agree with you, that modern Botanists are carrying their ideas of division and subdivision to a most unwarrantable length, and that they are thereby doing an injury rather than a benefit to science, and are deterring many from undertaking the study altogether. I must not be supposed to condemn the subdivision of genera on every occasion. If there is a distinction in the habit of the plant, and a different mode of fructification at the same time, then I will allow the genus may be a good one. Then again there

is another class of Botanists more injurious than these, they too are generally men who set their faces against *any* increase of genera, but who, at the same time, consider that the most trifling difference in a leaf, a serrature, or a hair, should constitute a specific distinction: and to such an extravagant pitch is this system now carried in certain genera—take *Rosa*, *Rubus*, *Salix*, *Myosotis*, no two persons are or can be agreed on what constitutes a species and what not, in such tribes. The consequence is, that all sober-minded Botanists will have nothing to do with these genera, and the crazy ones have each their own ideas as to species. You and I may set our faces against these species-mongers, but it is to no purpose.”

But as the native Roses, with which this district abounds in a remarkable degree, contribute greatly to the beauty of our woodland scenery and hedge-rows, it may be worth while to inquire into the cause of the difficulty which attends the defining the species of such conspicuous flowers. That there is difficulty in the task we may be assured of, for Woods, an indefatigable Botanist, in his paper published by the Linnæan Society, in the 12th vol. of their *Transactions*, enumerates no less than twenty British species, while LINDLEY, who bestowed no less pains on the same subject, in his *Rosarum Monographia* reduced their numbers to twelve. The difference of opinion, existing between these acute Botanists, must be accounted for by those marks which generally afford permanent specific distinctions in other plants, such as the roughness or smoothness of their leaves, the form of the prickles, whether the segments of the calyx be simple or divided, or the leaves be singly or doubly serrated being of small avail in this genus. To these must be added, the almost insurmountable difficulty that the various species or varieties pass by insensible degrees into each other, and though at first sight, no two Roses may appear more dissimilar than *Rosa canina* on the one hand, and *Rosa villosa* on the other, yet links can easily be furnished to form a complete chain between them. *Rosa canina* is well known as a robust growing bush, with hooked prickles, smooth oval fruit and shining leaves. In *Rosa sarmentacea* the plant becomes slender in habit, and with us its leaves generally assume a glaucous hue. *Rosa Forsteri*

begins to show a tendency to pubescence on the midrib of its leaves, and *Rosa dumetorum* or *cæsia* has leaves covered with a velvety down. In all these the prickles are strongly hooked. The next link of the chain claims particular attention, as it appears to connect two sections of the genus. I allude to *Rosa tomentosa*, the prickles of which are in part hooked, and in part straight, its fruit sometimes smooth, at others hispid, and this frequently occurs on the same bush, but its leaves are always pubescent. *Rosa scabriuscula* has straight prickles, its flowers are white, except the extremity of the petals which are tipped with red. *Rosa villosa*, of SMITH (not the plant so called by SWARTZ and most of the continental Botanists, that being an exotic and the *Apple Rose* of the gardeners), has invariably straight prickles, pubescent leaves, globose fruit, occasionally hispid, and full rose-red flowers. The Roses most nearly allied to *Rosa canina* have pale pink blossoms, those to *Rosa villosa* red, with the exception of *Rosa scabriuscula* as previously mentioned. With respect to *Rosa Eglanteria*, it will be found to vary through *Rosa micrantha* to *Rosa Borreri*, or *inodora* of the foreign Botanists, a bad name for a plant which still possesses, in some degree, the odour of the *Eglantine*, and which the old herbalists would have denominated a savage *Sweet Briar*. Passing on to another section of the genus, we find the same uncertainty of specific character to continue. Thus in *Rosa gracilis* of Woods, the prickles on the stem are hooked, but not so on the young branches,—in its variety *Rosa Sabini* or *Doniana* (for there is not the slightest difference between them), all the prickles are straight, as well as in its dwarf sea-side variety, *Rosa involuta*. *Rosa spinosissima*, in its wild state, varies only in size, though the parent of the numerous beautiful Roses sold by nurserymen under the name of *Scotch Roses*, and *Rosa arvensis* continues true to its well-defined specific character. Of *Rosa rubella*, which is nearly allied to *Rosa alpina* of the south of Europe, as *Rosa arvensis* is to *Rosa sempervirens*—too little is known to enable one to say whether it passes into any other supposed species—its pendent scarlet fruit keeps it asunder from any British Rose. A dark red flowered variety is not rare in the gardens near London, but I could not learn from whence it came. The foregoing

remarks are confined to that portion of the genus indigenous in the north of England, and which have been long under my observation in their native habitats. It remains for the experimental gardener, by sowing and resowing the seeds, to clear up the obscurity in which many of the supposed species are involved, for that alone can remove all conjectures respecting them. Of the *Rubi*, another intricate family, we have but six shrubby species, *Rubus idæus*, *R. suberectus*, *R. cæsius*, *R. fruticosus*, *R. corylifolius*, and *R. glandulosus*, and in determining these, there can be no difficulty, unless we attempt to divide them into the endless varieties dignified by specific names by some German Botanists. For one well defined Bramble, very common in the vales of the Highlands of Scotland and Cumberland, we have but a single locality at present, though I think it must have been overlooked in our sub-alpine vallies, among the Cheviot mountains; I allude to *Rubus suberectus*. In Borrowdale, and at the foot of Skiddaw, it is not uncommon, both with double and single flowers. It is most nearly allied to *Rubus idæus*, but has bright green leaves, and its fruit is nearly black. The figure in *English Botany* is a good representation of the plant, but I suspect the Bramble of the south of England, by several Botanists considered the same as the Highland plant, will prove to be distinct from it, at least I am led to think so, by dried specimens collected in the former part of the kingdom.

Notwithstanding that the Willows are much more numerous than the Roses, their different species may, with attention, be settled with greater certainty and upon surer grounds, for they are less liable to run into varieties. But from this general rule, *Salix aquatica*, and more particularly *Salix repens* must be excluded. Between *Salix argentea*, the *Silky Willow* of SMITH, which shoots into a tall upright shrub, and the small decumbent varieties of the *Creeping Willow*, the difference is very obvious at first sight; but, I mistake, if intermediate varieties cannot be traced to unite the two plants. The series comprises *Salix prostrata*, *S. fusca*, *S. parvifolia*, *S. adscendens*, and *S. incubacea* of the *English Botany*,—probably *S. fetida* of the *English Flora*, might be added to the list, but of this I do not possess authenticated specimens.

The sub-alpine glens which descend from our moors are the true localities of several of the rare Willows with broad leaves, and it is in such places they should be studied, rather than in Botanic Gardens, where their habits become materially altered by cultivation.

With the aid of the excellent works of Drs. HOOKER and TAYLOR, and the assistance of the microscope, the botanic student will be enabled to master the numerous species of *Mosses* and *Jungermannia*, these minute vegetables, aptly denominated the watch-work of nature, seldom deviating into varieties, or appearing to pass into each other; but it will require glasses of higher magnifying powers, and the exercise of more patient attention, to arrive at a competent knowledge of the *Algæ* and minute *Fungi* described in the elaborate publications of Dr. GREVILLE; but, that this abstruse department of the science may be acquired even by persons whose time and attention are otherwise greatly occupied in professional pursuits, is evinced in the *Flora of Berwick*, a publication so highly creditable to one of our associates, Dr. GEORGE JOHNSTON. Yet, notwithstanding these helps, the cryptogamic Botanist is still obliged to look to the continental writers for assistance, and must possess a part, at least, of the works of ACHARIUS, PERSOON, AGARDH, and DE CANDOLLE. Probably, the *Botanicon Gallicum* of DE CANDOLLE, in which a considerable proportion of the plants described by the before-named authors are comprised, will be found most useful, the climate of a large part of France differing not widely from our own. LINK, LYNGBY, and FRIES are the present guides among the most minute of Nature's vegetable productions, whose very genera are almost as unsettled as the sands on the sea shore.

SOWERBY's excellent delineations of the Lichens in the *English Botany* have materially facilitated the study of these intricate families, and their arrangement by ACHARIUS is probably as good a one, for mere practice, as could be adopted. Yet many individuals of these obscure tribes are to be found enumerated in his pages, not only as distinct species, but as belonging to more than one genus. This is owing in a great measure to the altered and degenerate state in which many appear when growing out of their natural localities, but more particularly to the slow mode of increase common to many of the crustaceous species. I have

observed that, after the lapse of ten years, specimens of *Lecanora atra*, portions of which I had chipped from a stone wall, had not again formed the circular patches of crust, which is their natural mode of growth. Considerable obscurity still hangs over the manner of the reproduction of these stone-like plants, though it appears evident that the minute particles of the crusts of various species must be viviparous, for who can believe that so common a plant as *Lecidea incana*, which covers walls and rocks in almost every situation, can alone be propagated by spores or seeds from its shields; for these shields, though sufficiently conspicuous, have been noticed but twice in England; in Hampshire by Mr. LYELL, and in Sussex by Mr. D. TURNER.

In the preceding pages, a few habitats of rare plants are given on the authority of the works of TURNER,* RAY,† WILSON,‡

* The complete edition of TURNER'S *Herbal* was printed by BIRKMAN. It is a folio, in black letter, and containing 512 figures of plants, but which are the same as used in the 8th ed. of FUCHSIUS, printed in 1545.

† *Synopsis Methodica Stirpium Britannicarum*, by JOHN RAY, 8vo., 3d ed. London, 1724. Edited by DILLENUS.

‡ *Synopsis of British Plants*, by JOHN WILSON, 8vo. Newcastle upon Tyne, 1744.—BROWN, in his *Prodromus of Australian Plants*, p. 490, has named a genus belonging to the order *Convolvulaceæ* after him, accompanied with the remark, "*In memoriam Joannis Wilson auctoris operis haud spernandi.*" A compliment not to be despised, coming from such high authority. The first volume of WILSON'S *Synopsis* was printed in 1744, by JOHN GOODING, on the Side, Newcastle upon Tyne, but the author does not appear to have received sufficient encouragement to induce him to publish the second volume. It was to have contained the Fungi, Mosses, Grasses, and Trees, which he says were omitted, "to avoid raising the price of the first volume too high by enlarging the bulk of it too much." From DR. PULTNEY, we learn, "That in the year 1762, a person here, into whose hands the MS. had passed, meditated the publication of it with a new edition of the first volume, which was out of print, and much called for, but the design never took effect." WILSON appears to have paid frequent visits to this place, and delivered lectures to a Botanic class, but with what success I know not. To the *English Flora*, he added *Valeriana rubra*, on Ely Minster, and on walls in many other places, on the authority of Mr. MARTIN, and *Allium Schænoprasum*, in a place called Chivey-syke, in Cartmell Fell, in Lancashire, about six miles from Kendal. Botanists, since his time, have disputed the right of these plants to be considered truly indigenous, not being mentioned by RAY." The former is abundant on Limestone rocks and walls in the north of France, and the latter is certainly wild on Basaltic rocks at Wall-town Crag, and Copping Crag by the Wansbeck, near Kirkwhelpington, Northumberland. In an interleaved copy of the *Synopsis*, once the property of the late Mr. ROBERT HARRISON, is the following notice of WILSON'S death. "*Newcastle Journal*, July the 27th, 1751.—We hear from Kendal, in Westmorland, that last week,

and ROBSON,* and many more on the authority of WALLIS.† By the perusal of his *Natural History of Northumberland*, Botanists, even of the present day, may obtain useful information, though, unfortunately for his reputation as a correct man of science, two or three of the most remarkable plants, which he supposed he had discovered growing with us, were not the species he took them for; yet, on most occasions, I have ascertained him to be correct; and, let it be remembered, that in his time, no well executed and coloured engravings, such as those which adorn CURTIS and HOOKER's *Flora Londinensis*, or SMITH and SOWERBY's *English Botany*, had been published to assist the diligent, but more commonly to spoil the indolent Botanist.

From Mr. HOGG's valuable *Tract*,‡ appended to the second edition of *Brewster's History of Stockton*, numerous habitats have been extracted, for the south-eastern corner of the county of Durham is propitious to the growth of several southern plants which here terminate their range

died there, Mr. JOHN WILSON, a noted Botanist of that place, and author of a *Synopsis of British Plants*, after Mr. RAY's method. He had uncommon natural parts, which (without the advantage of a learned education), by his own industry in study and application, he had so much improved, as to become, perhaps, one of the most knowing herbalists of his time; and was, besides, a most facetious and agreeable companion, of a just, ready wit, a quick discernment, a firm integrity, and candid intention, which made him vastly beloved by all his friends and acquaintance, who deeply regret the loss of so valuable a man."

* *The British Flora*, by STEPHEN ROBSON, 8vo. York, 1777.

† *The Natural History and Antiquities of Northumberland*, by JOHN WALLIS, A. M., 2 vols., 4to. London, 1769. I am not aware that any life of the historian of Northumberland has been published, but short biographical notices of him may be seen in HUTCHINSON's *History of Cumberland*, vol. ii. p. 267, and BREWSTER's *History of Stockton*, second edition, p. 391-395. To these I could have added several characteristic anecdotes communicated to me by the Rev. G. WILSON, Rector of Wolsingham, and Mrs. HOGG, of Norton, who were personally acquainted with WALLIS in his latter years, but it was not in my power to detail these without attaching censure to persons who neglected and treated with harshness so worthy and single-hearted a man in the decline of life; and such strictures would be out of place in the *Transactions* of this Society. On leaving Simonburn, WALLIS retired first to Billingham, and then to Norton, in the county of Durham, where he died, and was interred. His tomb-stone bears the following inscription:—"Under this stone are deposited the remains of the Rev. JOHN WALLIS, A. M., who died July 19, 1793, aged 78. Also of Elizabeth, his wife, who died January 13, 1801, aged 90. A marble tablet is erected to their memory in the north aisle of the church." *This tablet never was erected.*

‡ *The Natural History of the Vicinity of Stockton on Tees*, by J. HOGG, A. M. 8vo. Stockton, 1827.—Forming an Appendix to *Brewster's History of Stockton*.

towards the north. Their appearance on this side of the Tees is partly owing to the shelter afforded by the Cleveland hills, but more especially by the warm and fertile soil originating from the decomposition of the Red Sandstone rocks, prevalent in the lower part of this vale.

On referring to the latter pages of this Catalogue, it will readily be seen how greatly its numbers have been increased by the assiduity of Dr. G. JOHNSTON, author of the *Berwick Flora*,* who has shown how much may be learned respecting the most minute cryptogamic productions, by a diligent use of the microscope, and by a fixed determination to follow up a peculiar line of study and investigation.

To my other numerous friends, who have favoured me with specimens or delineations of plants, I beg leave to acknowledge the kindness conferred, and whenever the name of a correspondent is attached to a locality, thanks for the communication are to be implied as a matter of course.

* *A Flora of Berwick upon Tweed*, by G. JOHNSTON, M. D. 2 vols. 12mo., Edinburgh, 1829 and 1831.

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