

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. iii. 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. Cryp. 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.
3. *E. arvensis*. 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.

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 denes, 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.
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.

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 Crags near St. Oswald, N. Near
Cambo, Netherwitton, and at Shaftoe Crags 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 Bourne, N.—W. C. Trevelyan, Esq. In
Waskerly 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 Crags, 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 Haltbarns, 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. Lonchitidi 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 ilvensis*, 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. stolaniiferum*, 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. multcapsule*, 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. acule*, 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. bryoides*.
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. capillyfolium, 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. 1889; 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. ovata*, 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 Holliwell 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. unioides*.

Hook. and Tay. Musc. 38; Eng. Bot. 1539; Arn. Disp. Musc. 13.

Near the Cauldron Snout, Teesdale, D.—W. C. Trevelyan, Esq.

3. *S. ompullaceum*.

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 Painsheer, 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 Wolsingham, 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 Candron 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. caspitosum*, 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. lanccolata*.
Hook. and Tay. Musc. 30; Gr. Fl. Eds. 236; Arn. Disp. Musc. 24; *Grimmia lanccolata*, Eng. Bot. 1406.
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. 1433.
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. 1439; 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; 8.

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. 1363; β *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. 233; 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 Humbledon Dene above Wooler, N.—Dr. G. Johnston.
9. *D. squarrosium*.
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 Waibottle 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. polysciatum*, 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. sciuroides*.
Hook. and Tay. Musc. 112; Arn. Disp. Musc. 50; *Dicranum sciuroides*, 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 lineoides*, 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. pumilum*, Eng. Bot. 2168; Turner, Musc. 98.
On trees, not uncommon. Near Berwick.—Dr. G. Johnston.
5. *O. rupticola*.
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 Fallowtees 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 Lauchester, 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 Humbledon 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. antipyrretica*.
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. crispa*, 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 Blauchland, 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
Edmondbyers, 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. Ædiri*, 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 hogs, frequent.
5. *B. arcuata*.
Hook. and Tay. Musc. 148; Gr. Fl. Eds. 253;
Berwick Flora, ii. 36; Eng. Bot. 1237; Tur-
ner, Musc. 109; *Mnium arcuatum*, 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. inundatum*, 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.
ilicetrum, 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
Scotwood 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 Scremmerston 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, Tecket
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. profiferum*.
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. *umbrosum*, 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. vclutimum*.
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.
3. *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. lorcum*.
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;
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.
 α 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. 33; 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. aurcum*, 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. amolinum*, 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 *Conferna 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. 33; *B. bimum*, 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. 33; 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 denes 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 denes and on wet heaths.
9. *J. ventricosa*.
Hook. and Tay. Musc. 230; Eng. Bot. 2568;
Hook. Jung. t. 23; 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. byssacca*.
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.*
tamariscifolia, 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.*
tamariscina, Eng. Bot. 2480.
In woods near Eglestone, 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-
beugh, 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 Irthing at Wardrew, 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? *Sphæria grægaria*, Sowerby, Fungi. 375, f. 5; Dick. Crypt. Fasc. i. 22.
- On the smooth bark of trees in Teesdale, also near Gainford, and in Cawsey Wood, D. In Oakwood, N.
2. *S. microscopium*.
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. astroidea*.
Ach. Syn. 6; *Opegrapha astroidea*, 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. astroidea*, 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 Eneinal 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 Gunnerton Crags, N.

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. cechumeno*, Ach. Meth. 42; *L. anthrocarpa*, Northumberland and Durham Guide, ii. 33; *Lichen anthrocarpus*, Eng. Bot. 1829; *L. cechumenus*, 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 Barwesford, 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 Barwesford, and in Heaton Dene, N.
7. *L. confluens*.
Ach. Meth. 16; Berwick Flora, ii. 86; Eng. Bot. 1964.
β L. pilularis.
On Sandstone rocks in lilly situations.
8. *L. paroscma*.
Ach. Syn. 17; Gr. Fl. Eds. 325; Berwick Flora, ii. 87; *Lichen parasemus*, 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 Egestone, 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 Enderinal 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. margaritaceo*.
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. 1165.
 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 ferruginus, Eng. Bot. 1650; Hudson, 526; *L. casio-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 cricetorum*, 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. vascularis*.
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 Fullwell 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 gelasinatus*, 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 *rosidium*.
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. calcaria*.

- 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. ophiogaga*, Eng. Bot. 2282; *Lichen rugosus*, Linn. Sp. Pl. 1607; Lightfoot, 302; 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. cripasta*.
Ach. Syn. 74; Eng. Bot. 1823.
On the smooth bark of trees near Newcastle.
 8. *O. microscopica*.
Eng. Bot. 1911; *O. cripasta* 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. herpctica*, 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, 300.
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. olivacca*, 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. Harrimanni*.
Ach. Syn. 93; *Lichen Harrimanni*, 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. epipolva*.
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 Bambarough, 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 Romalldkirk.—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 Smaragdulum*, Eng. Bot. 1512.
On walls near Eglestone, Butsfield, 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 Rokehy, 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 Snont, D.—W. C. Trevelyan, Esq. In the Loughs near the Roman Station at Sbewing 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 Rokehy, 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 Sbaftoe 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 Candleron 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. cputolica*.
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. milvina 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. milvina*.
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 picca*, Northumberland and Durham Guide, ii. 34.
On Basalt near Eglestone, D.—Rev. J. Harriman.
9. *L. aipospota*.
Ach. Syn. 155; Eng. Bot. t. 2662, f. 2; *Lichen aipospotus*, 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. subfuscus*.
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 ostracodermis*, 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 caesio-rufus*, Eng. Bot. 1040; *Parmelia craspedia*, Ach. Meth. 172; *Lecidca 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. parvella*.
Ach. Syn. 169; Berwick Flora, ii. 84; *Lichen parvulus*, 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. Haematomma*.
Ach. Syn. 178; Hook, Fl. Scot. ii. 49; *L. Stonei*, Ach. Syn. 172; *Lichen Haematomma*, 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. 1773; 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 Gainford, 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*.
Lecidca 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. virgata*.
Ach. Syn. 191; *Lichen virgatus*, 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. 3.
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. olivaceo*.
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. plumbeo*.
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. 933.
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. fulvumensis*.
Ach. Syn. 204; *Lichen fulvumensis*, 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. 932; *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. consperso*.
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 Tync 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. casius*.
Ach. Syn. 216; *Lichen casius*, 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. cycloclis*.
Ach. Syn. 216; *Lichen cycloclis*, Eng. Bot. 1942.
Upon the branches of old Apple trees, N. and D.
20. *P. phytodes*.
Ach. Syn. 218; Berwick Flora, ii. 82; *Lichen phytodes*, 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 Waskerley 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 leptalca, *Parmelia leptalca*, 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 Waskerley 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. pulmonacca*.
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 Waskerley 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 *crispa*, 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. 359.
On trees, common. In fructification in Gibside Woods, D. At Wallington, N.—Miss Emma Trevelyan.

74. CENOMYCE.

1. *C. papillaria*.
Ach. Syn. 248; *Beomyces 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. caspitiata*.
Ach. Syn. 249; *Lichen caspitiatus*, Eng. Bot. 1796.
On earth upon a stone wall in Heatou Dene above Hadrick's Mill, N.
3. *C. alvicornis*.
Ach. Syn. 250; *Lichen alvicornis*, 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. pavidata*.
Ach. Syn. 252; Berwick Flora, ii. 97; *Lichen pavidatus*, Eng. Bot. 1393.
In denes and on moors, common.
6. *C. Pocillum*.
Ach. Syn. 253; *Beomyces 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. cernocyna*, 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 denes 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 denes 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. conotea*.
Ach. Syn. 271; *Beomyces conoteus*, Northumberland and Durham Guide, ii. 65; Ach. Hist. 345, t. 7, f. 7.
On the moors near Edmondbyers, D.
16. *C. sparassa*.
Ach. Syn. 273; *Lichen sparassus*, Eng. Bot. 2362; *L. ventricosus*, Lightfoot, 275.
In sub-alpine denes, 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; *Beomyces 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*. *Beomyces 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. rangiferina*.
Ach. Syn. 277; Berwick Flora, ii. 93; *Lichen rangiferinus*, Eng. Bot. 173.
δ pungens.
α On moors and heaths, abundant. *δ* on Hexham and Dilston Fells, N.

75. B.EOMYCES.

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 Bysoides*, 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. cerceolum*.
Ach. Syn. 285; *S. Cerceolus*, 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. namum*.

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 Barwestford, 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 Rotbury, 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 fraxincus*, 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 fari-*
naceus, Eng. Bot. 389.
On trees, common.
6. *R. pollinaria*.
Ach. Syn. 298; *Lichen pollinarius*, Eng. Bot. 1607;
Parmelia pollinaria, Northumberland and Dur-
ham 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 tris-*
tis, Eng. Bot. 720; *L. corniculatus*, Lightfoot,
355.
On Cheviot, Hedgehope, and Simonside, N. On
rocks near Blackton not far from Eglestone, also in
in the neighbourhood of Middleton-in-Teesdale,
D. On Cronkley Fell, D.—Rev. J. Harriman.
2. *C. aculeata*.
Ach. Syn. 299; β *spadicca*, Berwick Flora, ii. 91;
Lichen hispidus, Eng. Bot. 452; Lightfoot, 383;
 δ *muricata*, *L. muricatus*, Swartz. Nov. Act. Ups.
v. 248.
On Simonside and at Prestwick Carr, N. On Gates-
head 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, 392.
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. 372; 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, 389.
Upon trees on the banks of Waskerley Bourn near
Wolsingham, D.

83. COLLEMA.

1. *C. nigrum*.
Ach. Syn. 308; Berwick Flora, ii. 78; *Lichen ni-*
ger, Eng. Bot. 1161; *Lecidica nigra*, Northum-
berland and Durham Guide, ii. 41.
Upon rocks on Cleadon and Boldon Hills, on Gates-
head 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 cris-*
pus, Eng. Bot. 834; β *cristatum*, Ach. Syn. 312.
 α and β On the ground in the neighbourhood of Egle-
stone; 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, 341.
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 Hex-
ham, and above Langley Ford at the foot of Che-
viot, 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. Harri-
man. On rocks in Wooler Water above Langley
Ford, N.
7. *C. tunaforme*.
Ach. Syn. 322; *Parmelia tunaformis*, Northum-
berland 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. 58.
 α and β On the ground and on stones about Egle-
stone, 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, Gib-
side, and Ravensworth Woods, and on Lancheater
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 Dur-
ham 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.

34. 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; *Conferva 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, 609; 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 phosphoræa*, 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 hypotrichoïdæ*, 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. 293; 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 Beach, &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. mammosa*.

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. spermoides*.
Persoon, Syn. 75; Gr. Syn. 22; Crypt. t. 6;
Berwick Flora, ii. 125; *S. aggregata*, With. iv.
469; *S. bombaridica*, 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 Mur-
ton Crags, near Berwick.—Dr. G. Johnston.
12. *S. fusca*.
Persoon, Syn. 12; Berwick Flora, ii. 121; *S.*
tuberculosa, Bolton, 123, f. 1; Sowerby, 374, f.
8; With. iv. 467; Northumberland and Dur-
ham Guide, ii. 108.
On dead sticks in Heaton and Walbottle Denes, N.
In Ravensworth and Gibside, D. Near Berwick.
—Dr. G. Johnstoo.
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. trun-*
cata, 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 de-*
ustum, 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. actracea, 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; *Stroma-*
topharia 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. decolo-*
rans, 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;
Cryptosphaeria 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; *Vermicularia 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; *Stromatosphaeria 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; *Stromatosphaeria 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; *Stromatos-*
phaeria 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; *Stroma-*
topharia 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; *Stro-*
matosphaeria multiceps, Gr. Fl. Eds. 356; *S. flavo-*
virens, Crypt. t. 320; Syn. 23; *Sphaeria multi-*
ceps, Sowerby, t. 394, f. 8.
On the dead branches of trees, common, N. and D.
West Ord, N.—Dr. G. Johnston.
30. *S. ablonga*.
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. John-
ston.
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. 128.
On the leaves of the Hazel.
37. *S. rubens*.
Berwick Flora, ii. 128.
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. multicaepsula*.
Purton, ii. 716, f. 8.
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. Angelica*.
Berwick Flora, ii. 129; *S. punctiformis*, var. *Angelicaria*, 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. 468; Purton, iii. 489; Rehlan, 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. ambiens*.
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. tubiformis*.
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. 123.
On the dead leaves of the Birch and Sycamore, N. and D. Near Berwick.—Dr. G. Johnston.
66. *S. Peziza*.
Gr. Syn. 22; Crypt. t. 186, f. 2; *Peziza hydrophora*, Bull. t. 410, f. 2; *Lycoperdon 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 Jacobae* 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 phaeiceum*, 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. Putvis-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.

37. 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 alncaum*, 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 , Light-foot, 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. Pinastris*.
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. Pinastris* 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. foliocolum*.
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 comitialis*, Sowerby, t. 118; *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. accrinum*.
Gr. Syn. 19; Berwick Flora, ii. 135; *Xyloma accerinum*, Persoon, Syn. 104; Gr. Crypt. t. 118, f. 1; *Mucor granulatus*, 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. 884; 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. phacomies*.
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. NYLOMA.

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. 376; Berwick Flora, ii. 140.
On the branches of native Roses.
4. *X. Spirææ*.
Berwick Flora, ii. 140; *Septostroma Spirææ*, 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. clurneus*.
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. nivicus*, With. iv. 291; *A. criccus*, 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 Saltwell-side, 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 Haddon 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*, Schæff. 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; Schæff. 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. odorus*.
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 walls 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 Dilston 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. cricetorum*.
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. astivus*.
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. clasticus*, 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. nauscousus*, 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. dcalbatus*.
Sowerby, t. 123; Northumberland and Durham Guide, ii. 55.
On the moors near Bolyhope Lead-mill, D. Near Barwesford, N.
51. *A. parasiticus*.
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. thlopodius*.
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. cyaneus*, 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. flavoides*.
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. 148.
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. albumus*, 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. præcox*.
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. phonospermus*, 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. galericulotus*.
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. circumseptus*.
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. 303; *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 Crags, N.—Dr. G. Johnston.

89. *A. epiphyllum*.
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. cinnamonomeus*.
With. iv. 316; Sowerby, t. 205; Persoon, Syn. 297; Berwick Flora, ii. 171; Boltou, 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. pasceus*, 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. psittacinus*.
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. proccrus*.
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 Lanchester, 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. alliaccus*.
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. 123; 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. fimctarius*, 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. plebeophorus*, 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. lacreratus*, Bolton, t. 68.
In Butsfield 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. fimctarius*, Sowerby, t. 188; *A. ovatus*, With. iv. 355; Curt. Lond. t. 101; Berwick Flora, ii. 183; *A. plicotus*, 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. momentarius*, With. iv. 356.
In meadows and pastures on dung.
127. *A. cinereus*.
With. iv. 357; Gr. Fl. Eds. 394; Persoon, Syn. 398; *A. pullatus*, Bolton, t. 20; *A. fimctarius*, 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. ostracatus*.
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. 134; *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. 134; 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. fatidus*.
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. cochlentus* 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. 133; 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. 483; 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. 439; *Agaricus cantharellus*, 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; *Hicetellu*

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. destrucens*, 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. albida*. 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. calcolus*, With. iv. 389; Bolton, 163; 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 Stanington 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. casius*.
Gr. Fl. Eds. 401; *Boletus casius*, 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. abucus*, 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 Hutton 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, Green-croft, 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 Green-croft, D. In similar situations on the edge of the Northumberland moors.
3. *B. pipercatus*.
Gr. Fl. Eds. 404; Sowerby, 34; Persoon, Syn. 507; Bull. t. 451; With. iv. 380.
In woods, thickets, and denes, 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. rubrolarius*, 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 Wailbottle Denes, N.
10. *B. castaneus*.
Persoon, Syn. 509; Bull. t. 328; Northumberland and Durham Guide, ii. 94.
In Fir plantations at Butsfield, 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 Butsfield, 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 caryophyllata*, Sowerby, t. 213; *Helvella caryophyllacea*, Bolton, 173; *Morulus caryophyllaceus*, With. iv. 200; *T. caryophyllata*, 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 levis, 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. Padii*.
Thelephora Padii, 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. Tiliæ*.
Thelephora Tiliæ, 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 Denes, 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 Denes, 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 Butsfield, 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. herculeana*.
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. helvola*.
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; *Sphaeria 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; *Sphaeria 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. phacorhiza*.
Gr. Syn. 25, 1; *Phacorhiza filiformis*, Gr. Crypt. t. 93; *Clavaria phacorhiza*, 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; *Phacorhiza 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. Ludwigi*, 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. Mitra*.

Gr. Crypt. t. 81; Persoon, Syn. 611; *Clavaria ferruginca*, 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. leucophaea*.

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. clastica*, 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 Sheeppote, 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.
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 433, 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. virginica*.
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. aruginea*.
Gr. Crypt. t. 241; Persoon, Syn. 663; Berwick Flora, ii. 151; *Helvella aruginea*, 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. 93, f. 2; With. iv. 403.
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. 733.
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 Butsfield, Medomsley, and in Bradley Wood, D. In Dilston Park, East Common, and Horsley Woods, N.
43. *P. polymorpha*.
With. iv. 425; Sowerby, t. 423; Batsch. t. 50; Bull. t. 116 and 460, f. 1; Schæff. 153.
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. erumpens*.
Gr. Crypt. t. 99.
On the decaying leaf-stalks of the Sycamore.
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 Aucuparia*, Gr. Fl. Ed. 426; *P. populena*, 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-judæ*.
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.

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; *Tre-*
mella Urticae, Persoon, Syn. 628; *Fusarium tre-*
melloides, 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 Herborum*, Persoon,
Syn. 605; Purton, t. 19, f. 3; Sowerby, t. 353.
On the dead stems of herbaceous plants.

132. NIDULARIA.

1. *N. campanulata*.
With. iv. 426; Purton, t. 17, f. 3; Sowerby, t.
28; *N. vernicosa*, Bull. t. 443, f. 1; *Peziza lenti-*
fera, Bolton, t. 102, f. 1; *Cyathus olla*, Persoon,
Syn. 237; Gr. Fl. Eds. 459.
Near the Windmill Hills Gateshead, and at Ravens-
worth, 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. 238; Ber-
wick 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;
Sphæria 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. de-*
fossium, 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; *Didymia 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. 430.
Near Castle Eden, D. Near Barnardcastle.—Rev.
James Dalton. Near Darlington, D.—Mr. E.
Robson.
3. *G. hygrometricum, β anglicanum*.
Persoon, Syn. 135; *Lycoperdon rccolligens*, 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; Pur-
ton, 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 cpaforme*, 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. *ovoidium*, 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 sphaeroccephalus*, 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 subsessilis*, 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.
1a 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. rufo*, 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 Dene, 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. Semen*.
Gr. Crypt. t. 144, f. 2; Persoon, Syn. 128; Berwick Flora, ii. 137; *Sphaeria Brassica*, 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. ERYSIPIHE.

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. *Arctii*, Gr. Fl. Eds. 460; E. *Artemisæ*, 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 Erysiphæ* β , Persoon, Syn. 124.
On the leaves of the Hazel.—Dr. G. Johnston.

155. LASIOBOTRYSES.

1. *L. Lonicerae*.
Gr. Crypt. t. 191; *Xyloma Xylosteci*, Lam. and De Cand. ii. 599 and vi. 154.
On the leaves of the Honeysuckle.

156. ÆGERITA.

1. *Æ. 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; *Sphæria 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.

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. cœrea*, 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* Schæff. 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 Gibside Woods, D.

UREDINEÆ.

162. PUCCINIA.

1. *P. Anemones*.
Persoon, Syn. 226; *Æciðium 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. Potentillæ*.
Gr. Fl. Eds. 428; Crypt. t. 57; Berwick Flora, ii. 193.
On the Strawberry and Strawberry-leaved Cinquefoil, N. and D.
4. *P. gracillia*.
Gr. Fl. Eds. 428; Berwick Flora, ii. 193; *P. Rubi Idæi*, Lam. and De Cand. v. 54.
On the wild Raspberry.—Dr. O. Johnston.
5. *P. Ulmaria*.
Gr. Fl. Eds. 433; Berwick Flora, ii. 194.
On the leaves of the Meadowsweet, near Berwick.—Dr. G. Johnston.

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 Chamædryis*.—Dr. G. Johnston.
15. *P. Lychnidæarum*.
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. spycneusiarum*.
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. Cichoracum*.
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. Iabitarum*.
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*, *viminialis*, and *Smithiana*, near Berwick.—Dr. G. Johnston.
16. *U. farinosa*.
Gr. Fl. Eds. 437; Berwick Flora, ii. 200; Persoon, Syn. 217 α ; *U. Caprarum*, Lam. and De Cand. vi. 80.
On *Salix caprea*, 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. 298.
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. Alchemilla*.
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. Pynolæ*.
Gr. Fl. Eds. 440; Berwick Flora, ii. 198.
On the leaves of *Pynola minor*, at Wallington, N. Near Berwick.—Dr. G. Johnston. At Gidside, and the Howns Woods, D.
29. *U. linearis*.
Gr. Fl. Eds. 440; Persoon, Syn. 216; Berwick Flora, ii. 198; *U. frumcuti*, 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; Per-
soon, 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 Ber-
wick.—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 fre-
quent.
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. fluscolorum*.
Gr. Fl. Eds. 443; Lam. and De Cand. vi. 79;
Berwick Flora, ii. 204; *Farinaria Scabiosa*, Sow-
erby, t. 269, f. 2.
On *Scabiosa arvensis*, rare, N. and D. Near Berwick,
—Dr. G. Johnston.
39. *U. caryophyllacearum*.
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; *Cxoma Vacciniarum*, Link,
Supp. Cit. 15.
On the leaves of *Vaccinium Myrtillus*.—Dr. G. John-
ston.
41. *U. Umbellatarum*.
Berwick Flora, ii. 202; *Cxoma 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 muschatellina*.
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. Periclymeni*.
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. John-
ston.
9. *Æ. Urtice*.
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 hemispherica*, Spreng. Syst. Veg. iv.
571.
On the leaves of *Geranium pratense*, near Berwick.—
Dr. G. Johnston.
12. *Æ. Grossularia*.
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*, Per-
soon, 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. 318; *Æ. Oxyacanthus*, Per-
soon, Syn. 206.
On the fruit and fruit-stalks of the Hawthorn, near
Berwick.—Dr. G. Johnston.

17. *E. 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. *E. Tussilaginis*.
Gr. Fl. Eds. 447; Persoon, Syn. 209; Sowerby, t. 397, f. 1; Berwick Flora, ii. 207.
On the leaves of *Tussilago Farfara*.
19. *E. 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. aurcum*.
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. Oxyacantha*, 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. Betula*, 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. acerinum*.
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 sporules."

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 stellata*, Sowerby, t. 387, f. 1; *Byssus candida*, Hudson, 607; Light-foot, 1003.
On decaying leaves, sticks, &c. Near Berwick.—Dr. G. Johnston.
2. *H. flammaea*.
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 Cryptorum*, 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; *Monitis 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. POLYTHRINCIUM.

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 putrefying 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. BOTRYIS.

1. *B. cinerea*.
Berwick Flora, ii. 212; Link. in Willd. iv. i. 60.
Parasitical, on *Sclerotium durum*.—Dr. G. Johnston.
2. *B. agaracina*.
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 tamariscifolius*, Ner. Brit. 44, t. 11; *F. sclaginoïdes*, Turn. Syn. 85; *F. cricoides*, Eng. Bot. 1968; 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; *Cystoseira 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. 323; Turn. Syn. 242; Hist. t. 3; Gr. Algæ, 18; Berwick Flora, ii. 223.
Upon rocks on the coast, common.

199. HIMANTHALIA.

1. *H. lorea*.
Gr. Algæ, 20; Berwick Flora, ii. 224; *Fucus loreus*, 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, b.
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. herbaccus*, 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 cespitosus*, 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. mammillosus*.

Agardh, Syn. 260; *Fucus mammillosus*, Eng. Bot. 1054; Turn. Hist. t. 218; *Chondrus mammillosus*, 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 cornuus*, 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. 46, 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; *Gastridium 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; *Gastridium 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. lambricalis*.
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. plantaginæ*.
Gr. Algæ, 53; Berwick Flora, ii. 248; *Zonaria*
plantaginæ, Sprengel, Syst. Veg. iv. 326; *Ulva*
plantaginæ, 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; *α. 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. calophylla*.

Berwick Flora, ii. 251; Spreng. Syst. Veg. iv.
368; Gr. Algæ, 176; *Bangia calophylla*, 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. cuspidata*.

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. Algae, 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. Algae, 56; Berwick Flora, ii. 246; *Conferva feniculata*, Lightfoot, 981; *Halymenia 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. Algae, 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. 2313; Lightfoot. 393.
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 Algae.
8. *O. vaginata*.
Conferva vaginata, Dillwyn, t. 99; Eng. Bot. 1995; *Vaginaria ephthonoplistes*, Gr. Fl. Eds. 305, f. 1; Gray, i. 280.
On damp walls, garden posts, &c.
9. *O. aruginea*.
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 Newbiggin, 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. chalybæa*.

Berwick Flora, ii. 243; *Conferva chalybæa*, 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. aurcum*.

Spreng. Syst. Veg. iv. 334; Berwick Flora, ii. 243; *Ectocarpus aurcum*, Gr. Fl. Eds. 315; *Ceramium aurcum*, 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. fæca*.

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. agagropila*.
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 *Confervae*, 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. 256; *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. phonosa*.
Spreng. Syst. Veg. iv. 369; Berwick Flora, ii. 253; *Conferva lubrica*, Eng. Bot. t. 2037; *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 tuberiformis*, 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. åura*, 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. 1796.

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. radicans*.

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 apiifolia*, 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 Crags, and on the moor near Caerboran, 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 Carlisle. 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 abundance beyond the upper stepping stones, and by the Cascade of the Irthing, two miles above Wardrew, N.
- S. tri-dactylites*, P. 28, G. 181, No. 5.
On Wall-Town Crags, N.
- Dianthus deltooides*, P. 28, G. 184, No. 2.
In fields near Wolsingham, D.—Mr. Backhouse.
- Arenaria verna*, P. 29, G. 187, No. 4.
On Spindlestoue Crags N.—Mr. R. Embleton, in Berwick Flora.
- Reseda lutea*, P. 31, G. 197, No. 2.
Berwick Flora, ii. 231.
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. 213, t. 16. At Hareshaw Linn, a little to the north of Bellingham, 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 Carlisle. 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 Crags, N.
- Scutellaria galericulata*, P. 41, G. 245, No. 1.
Near Reedsmouth, N.—Mr. John Thompson.
- Lathraea 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 Crags, 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 Thorngraftern, 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 Thorngraftern, 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 Caerboran, (*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 Reedsmonth, 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 crispa, 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 anomatum, P. 74, G. 37, No. 2.
 Eng. Bot. 2696.
 On rocks near Wardrew, N.
Anomodon viticulosum, 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 coarctatum, P. 78, G. 45, No. 11.
 The note attached to this species of moss is an error. It should have followed *Polytrichum aboides*; 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; *Puccinca 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. 374.
 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.

- Cuminum Cuminum.*
 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 Tithymaloïdes.*
 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. 1243.
 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. 663.
- 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 $\frac{3}{4}$
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	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 Hedvigian 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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