



XXXIV.—List of Phanerogamous Plants, together with the Cryptogemic Orders Filices, Equisetaceæ, and Lycopodiaceæ, observed in the Shetland Islands

Thomas Edmondston Jun. Esq.

To cite this article: Thomas Edmondston Jun. Esq. (1841) XXXIV.—List of Phanerogamous Plants, together with the Cryptogemic Orders Filices, Equisetaceæ, and Lycopodiaceæ, observed in the Shetland Islands, *Annals and Magazine of Natural History*, 7:44, 287-295, DOI: [10.1080/03745484109442701](https://doi.org/10.1080/03745484109442701)

To link to this article: <http://dx.doi.org/10.1080/03745484109442701>



Published online: 04 Dec 2009.



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stinguishable from *V. imbricata*, with which it was at first confounded by me, first, by the more delicate texture of the whole polypidom; secondly, by the smaller size and oval shape of the cells. In *Valkeria imbricata* the cells are cylindrical; the clusters of cells in it, too, are more nearly approximated, and the number of cells in each cluster is more numerous than in *V. cuscuta*.

Abundant, Sandy-cove, near Dublin.

[To be continued.]

XXXIV.—*List of Phanerogamous Plants, together with the Cryptogamic Orders Filices, Equisetaceæ, and Lycopodiaceæ, observed in the Shetland Islands.* By THOMAS EDMONDSTON, Jun., Esq.

MONANDRIA MONOGYNIA.

1. *Hippuris vulgaris*. Deep muddy streams. Common.
2. *Salicornia herbacea*. Salt marshes. Frequent.

MONANDRIA DIGYNIA.

3. *Callitriche verna*. Pools and marshes. Common.

DIANDRIA MONOGYNIA.

4. *Veronica officinalis*. Not very common. Chiefly in dry stony places.—Var. *β. rigida*. Common in all waste grounds: stem erect; very rigid leaves, *not* serrated; all the plant glabrous; capsule very distinctly winged.
 —— *montana*. Rare. Ollaberry; Northmavin.
 —— *Beccabunga*. Rare. Near Tingwall.
 —— *Anagallis*. Rare. Brook near Laxfirth Mainland.
5. *Pinguicula vulgaris*. Uncultivated grounds. Everywhere abundant.

DIANDRIA DIGYNIA.

6. *Anthoxanthum odoratum*. Common.

TRIANDRIA MONOGYNIA.

7. *Iris Pseudacorus*. Common in all damp places.
8. *Schænus nigricans*. Damp heaths. Abundant.
 —— *albus*. Marshy places. Rare. Moola Unst.
9. *Scirpus cæspitosus*. Heaths. Very abundant.
 —— *lacustris*. Rare. Loch of Lund, Unst: probably not indigenous.
 —— *palustris*. Salt marshes chiefly. Common.
10. *Eriophorum vaginatum*. On the more elevated heaths, as Hermanness, Unst. Most common.
 —— *polystachion*. All marshy places. Common.
11. *Nardus stricta*. Heathy grounds. Common.

TRIANDRIA DIGYNIA.

12. *Phalaris arundinacea*. Common.
13. *Phleum pratense*. On the richer grounds abundant.

14. *Alopecurus geniculatus*. Wet places. Common.
15. *Agrostis vulgaris*. Common.
—— *alba*. Wet places. Abundant.
16. *Aira cæspitosa*. Waste places. Not common.
—— *flexuosa*. Heaths. Frequent.
—— *præcox*. Cultivated grounds. Common.
17. *Holcus lanatus*. Waste and cultivated ground. Common.
18. *Melica cærulea*. Heaths, &c. Common.
19. *Poa trivialis*. Pastures, &c. Common.
—— *pratensis*. Meadows and pastures. Abundant.
—— *annua*. Waste grounds. Common.
20. *Glyceria fluitans*. Streams and ditches. Abundant.
21. *Briza media*. Rare. Unst.
22. *Dactylis glomerata*. Pastures, &c. Common.
23. *Cynosurus cristatus*. Meadows and pastures.
24. *Festuca ovina*. Dry pastures. Common.
—— *vivipara*. Elevated heaths. Common.
—— *duriuscula*. Common.
—— *elatiør*. Sides of lakes and streams. Rare.
25. *Bromus mollis*. Fields and waste grounds. Common.
—— *arvensis*. Fields. Rare.
26. *Avena fatua*. Not common. Shetland name Hug-aits.
27. *Arundo Phragmites*. Rare. Loch near Ronas-hill.
—— *Calamagrostis*. Very rare. Loch near Faedaland, North-mavin.
28. *Lolium perenne*. Meadows and pastures.
29. *Elymus arenarius*. Sandy sea-shores. Common.
30. *Triticum repens*. Everywhere common. Shetland name Whigga.

TETRANDRIA MONOGYNIA.

31. *Scabiosa succisa*. All damp humid soils.
32. *Asperula odorata*. Dry banks. Rare. Bardister, Northmavin.
33. *Galium saxatile*. Heaths. Abundant.
—— *verum*. Dry banks. Frequent.
—— *boreale*. Sides of lakes. Not common.
—— *Aparine*. Sea-shores. Common.
34. *Plantago major* and *lanceolata*. Waste places. Common.
—— *media*. Not common.
—— *maritima* and *Coronopus*. Sea-shore. Common.
35. *Alchemilla vulgaris*. Fallow lands. Rare. Near Ollaberry.
—— *alpina*. Rare. Ronas-hill.

TETRANDRIA TETRAGYNIA.

36. *Potamogeton natans*. Shallow pools. Common.
—— *heterophyllus*. Deeper ditches. Abundant.
37. *Sagina procumbens*. Waste grounds. Common.

PENTANDRIA MONOGYNIA.

38. *Myosotis arvensis*. Fields, &c. Common.
—— *cæspitosa*. Brooks and pools. Abundant.

39. *Pulmonaria maritima*. Gravelly sea-shores. Not common.
40. *Lycopsis arvensis*. Fields. Common.
41. *Primula vulgaris*. Dry pastures. Common.
42. *Menyanthes trifoliata*. Deep ditches. Common.
43. *Anagallis tenella*. Bogs. Not common.
44. *Azalea procumbens*. Rare. Ronas Hill, Northmavin.
45. *Jasione montana*. Dry banks. Common.
46. *Viola canina*. Common.
 — *tricolor*. Everywhere abundant.
47. *Lonicera Periclymenum*. Cliffs, &c. Not common.
48. *Hedera Helix*. Rare. Pictishburgh. Walls.

PENTANDRIA DIGYNIA.

49. *Gentiana amarella*. On limestone. Not common.
 — *campestris*. Pastures. Common.
50. *Daucus Carota*. Waste ground. Abundant.
51. *Charophyllum sylvestre*. Waste places. Common.
52. *Angelica sylvestris*. Damp situations. Abundant.
53. *Ligusticum scoticum*. Rocky or sandy sea-shores.
54. *Carum Carui*. Damp meadows. Rare. Near Refirth, Island of Yell: probably not indigenous.
55. *Hydrocotyle vulgaris*. Marshy places. Common.
56. *Heracleum Sphondylium*. Dry pastures. Abundant.
57. *Conium maculatum*. Shady situations. Not common.
58. *Pastinaca sativa*. Waste ground. Not common.

PENTANDRIA TETRAGYNIA.

59. *Parnassia palustris*. Wet meadows. Not common.

PENTANDRIA PENTAGYNIA.

60. *Statice Armeria*. Sea-shores. Abundant.
 — *Limonium*. Rare. Knab, near Lerwick.
61. *Linum catharticum*. Dry heaths. Common.

PENTANDRIA HEXAGYNIA.

62. *Drosera longifolia*. Rare. Lamhoga, Island of Fetlar.
 — *rotundifolia*. Mossy hills. Rare. Yell and Northmavin.

HEXANDRIA MONOGYNIA.

63. *Scilla verna*. Common everywhere.
 — *nutans*. Rare. Probably not indigenous.
64. *Narthecium ossifragum*. Turfy heaths. Abundant.
65. *Juncus effusus*. Turfy bogs. Common. Shetland name, Floss.
 — *trifidus*. Elevated bogs. Not common.
 — *squarrosus*. Boggy heaths. Common.
 — *uliginosus*. Moist places. Common.
 — *triglumis*. Rare. Ronas Hill.
66. *Luciola sylvatica*. Shady glens. Abundant.
 — *campestris*. Barren pastures. Common.

HEXANDRIA TRIGYNIA.

67. *Rumex crispus*. Very common.
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Rumex Acetosa and *Acetosella*. Abundant everywhere.

68. *Triglochin palustre*. Muddy situations. Common.

HEPTANDRIA MONOGYNIA.

69. *Trientalis europæa*. Mountain heaths. Rare. Hermaness, Unst.

OCTANDRIA MONOGYNIA.

70. *Epilobium angustifolium*. Cliffs. Not common.
 ——— *montanum*. Rare. Near Snarravoe, Unst.
 ——— *palustre*. Wet places. Abundant.
 71. *Vaccinium Myrtillus*. Dry heaths. Common.
 72. *Erica vulgaris* (*Calluna*). Common.
 ——— *cinerea*. Common.
 ——— *Tetralix*. Abundant.

OCTANDRIA TRIGYNIA.

73. *Polygonum Persicaria*. Abundant. Wet places.
 ——— *Bistorta*. Rare. Broo, Dunrossness.
 ——— *aviculare*. Cultivated grounds. Common.

DECANDRIA MONOGYNIA.

74. *Arbutus Uva-ursi*. Not common.
 ——— *alpina*. Rare. Ronas Hill.

DECANDRIA DIGYNIA.

75. *Saxifraga oppositifolia*. Rare. Fitful Head.

DECANDRIA TRIGYNIA.

76. *Silene maritima*. Stony sea-shores. Abundant.
 ——— *acutis*. Dry hills and stony places. Frequent.
 77. *Stellaria media*. Waste and cultivated ground. Common.
 78. *Arenaria peploides*. Sea-shores. Common.
 ——— *marina*. Sea-coast. Not rare.

——— *norvegica*. This interesting addition to the British Flora is confined, so far as I know, to the serpentine formation around the Bay of Baltasound in this island. Its specific description is as follows:—Root fibrous, long; stems numerous, branched, procumbent, sometimes more or less erect; leaves small, ovate, fleshy, glabrous, somewhat imbricate; flowers terminal, solitary, white, rather large; petals generally six, sometimes five, broadly ovate; calyx-sepals five, fleshy, glabrous as the leaves. Very abundant on the gravelly barren hills to the north of the bay, growing nearly on a level with the sea, along with *Cerastium latifolium* and *Cardamine hastulata*, which, with the exception of *Statice Armeria* and *Plantago maritima*, are almost the only plants to be found in its vicinity.

I first discovered this plant in May 1837: I was then only commencing the study of botany, and though I knew its genus, and so marked it in my herbarium, I could not make out its species.

In the end of July, the same year, Dr. Gilbert Macnab came to Unst, in the course of a botanical tour he was making through

Shetland; I met him at some distance from Baltasound, and accompanied him thither; on the way, as he was questioning me on the botany of the island, I mentioned two plants to him as being (as I thought) rare or peculiar,—the one turned out to be the *Pisum maritimum* of Linnæus (*Lathyrus pisiformis*, Hook. 'Br. Fl.'), the other was this species of *Arenaria*; I named to him the genera to which the two plants belonged, but wished to have his opinion on the species. Next day, in looking over my little collection, we found the specimens of the two plants: Dr. Macnab thought they were new to the British Flora, and he had not seen them before; he was also of the same opinion as myself as to their genera. I guided him to the localities where I first found the two plants, and we procured abundance of specimens. A few days after, when Dr. Macnab left Unst, I gave him a number of specimens for the opinions of Drs. Hooker and Graham. Dr. Graham at first pronounced it to be nondescript, but was soon induced to change his opinion from seeing a plant in Prof. Hooker's herbarium (gathered by Sir George Mackenzie in Iceland) labelled as *Arenaria norvegica*, which he thought agreed with the Unst plant.

I have since botanically examined almost the whole of my native islands, but I have not been able to find a single plant of this species, except in the locality where it was first found by me. I have only further to add, that I have endeavoured to cultivate it by transplanting to a garden; I have not, however, succeeded, although plants of *Cardamine hastulata* and *Cerastium latifolium*, under the same circumstances, grew and took root. I have, however, not had an opportunity of trying to raise it from the seed.

79. *Cherleria sedoides*. Rare. Hill of Klibberswick, Unst.

DECANDRIA PENTAGYNIA.

80. *Sedum Telephium*. Rocks by the sea-side. Rare.
 81. *Agrostemma Githago*. Scarcely indigenous.
 82. *Lychnis Flos-cuculi*. Meadows and pastures. Common.
 — *sylvatica* (*L. dioica*). Fields, &c. Common.—*β. ves-*
 pertina. Rare.
 83. *Cerastium vulgatum*. Fields and waste grounds. Common.
 — *viscosum*. Common.
 — *tetrandrum*. Sand. Rare. Balta Island.
 — *latifolium*. Rare. Near Baltasound only.
 84. *Spergula arvensis*. Abundant. Shetland name, Meldy.

ICOSANDRIA PENTAGYNIA.

85. *Cratagus Oxyacantha*. Rare. Near Tingwall.
 86. *Sorbus Aucuparia*. Precipices and cliffs. Not common.
 87. *Spiræa Ulnaria*. Swampy meadows. Common.

ICOSANDRIA POLYGYNIA.

88. *Rosa tomentosa*. Dry banks, &c. Abundant.

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89. *Potentilla anserina*. Waste grounds. Common. Roots sweet and nutritious, and occasionally eaten under the name of 'Murraks.'
 90. *Tormentilla officinalis*. Dry heaths and pastures. Common.
 ——— *reptans*. Dry heaths. Rare.
 91. *Comarum palustre*. Wet boggy ground. Common.

POLYANDRIA MONOGYNIA.

92. *Papaver Rhæas*. Corn-fields. Not common.
 ——— *dubium*. Common.

POLYANDRIA POLYGYNIA.

93. *Thalictrum alpinum*. Moist heaths. Abundant.
 94. *Ranunculus Flammula*. Watery places. Common.
 ——— *repens*. Dry barren pastures. Abundant.
 ——— *acris*. Abundant everywhere.
 95. *Ficaria ranunculoides*. Meadows and pastures. Frequent.
 96. *Caltha palustris*. Marshy places. Common.

DIDYNAMIA GYNOSPERMIA.

97. *Ajuga reptans*. Common.
 98. *Lamium purpureum*. Waste and cultivated grounds. Common.
 ——— *intermedium*. Not common.
 99. *Galeopsis Tetrahit*. Cultivated grounds. Common.
 100. *Stachys palustris*. Moist meadows. Common.
 ——— *ambigua*. Not common. Tingwall.
 101. *Thymus Serpyllum*. Dry heaths. Common.
 102. *Prunella vulgaris*. Meadows and pastures. Common.

DIDYNAMIA ANGIOSPERMIA.

103. *Euphrasia officinalis*. Dry pastures. Abundant.
 104. *Pedicularis sylvatica*. Moist heaths. Abundant.
 ——— *palustris*. Boggy pastures. Common.

TETRADYNAMIA SILICULOSA.

105. *Draba incana*. Rare. Unst and Fetlar.
 106. *Thlaspi Bursa-pastoris*. Waste and cultivated ground.
 107. *Cochlearia officinalis*. Sea-shore and inland. Common.
 108. *Bunias Cakile*. Sandy sea-shore. Common.

TETRADYNAMIA SILIQUOSA.

109. *Cardamine pratensis*. Moist meadows. Common.
 ——— *hastulata* (*Arabis petræa*). Near Baltasound, Unst.
 Rare.
 110. *Sinapis arvensis*. Corn-fields. Common. Shetland name Runjy.
 111. *Raphanus Raphanistrum*. Fields. Common.

MONADELPHIA DECANDRIA.

112. *Geranium phæum*. Rare. Island of Fetlar.
 ——— *molle*. Meadows and pastures. Common.

DIADELPHIA HEXANDRIA.

113. *Fumaria parviflora*. Sandy fields. Abundant.

DIADELPHIA OCTANDRIA.

114. *Polygala vulgaris*. Dry heaths. Common.

DIADELPHIA DECANDRIA.

115. *Ulex europæus*. Dry heaths. Not common. Hill of Wormie-dale.
 116. *Anthyllis Vulneraria*. Dry pastures. Abundant.
 117. *Pisum maritimum* (var.). Very rare. Sandy down. Burraforth, Unst, only. Root very long, creeping to a great extent, sending up stems at intervals; stem procumbent, angular; stipulas sagittate; tendrils with 3—5 pair of lanceolate, glaucous, dark green leaflets; racemes terminal, on long peduncles; flowers shortly pedicellate, moderately large; wings very beautiful, bright purple, with darker veins; standard and keel whitish. This plant was first added to the 'Flora Scotica' by myself in June 1837.
 118. *Lathyrus pratensis*. Fields and way-sides. Common.
 119. *Vicia Cracca*. Meadows and pastures. Common.
 120. *Trifolium repens*. Meadows and pastures. Common.
 ——— *pratense*. Dry meadows, &c. Abundant.
 121. *Lotus corniculatus*. Pastures. Common.

POLYADELPHIA POLYANDRIA.

122. *Hypericum pulchrum*. Dry heaths. Frequent.

SYNGENESIA ÆQUALIS.

123. *Sonchus arvensis*. Corn-fields. Common.
 ——— *oleraceus*. Waste or cultivated ground. Frequent.
 124. *Leontodon Taraxacum*. Meadows and pastures. Not common.
 ——— *autumnale*. Common.
 125. *Hieracium sylvaticum*. Dry banks. Frequent.
 ——— *maculatum*. Abundant.
 126. *Arctium lappa*. Sandy soils. Rare. Dunrossness.
 127. *Carduus lanceolatus*. Waste and cultivated ground. Common.
 ——— *arvensis*. Corn-fields. Common.
 128. *Onopordum Acanthium*. Gravelly soils. Not common.

SYNGENESIA SUPERFLUA.

129. *Tanacetum vulgare*. Road-sides, &c. Abundant.
 130. *Artemisia vulgaris*. Waste ground. Common.
 131. *Gnaphalium dioicum*. Heaths and dry pastures. Common.
 132. *Serratula alpina* (*Saussurea alpina*). Rare. Ronas Hill.
 133. *Tussilago Farfara*. Clayey soils. Not common.
 ——— *Petasites*. Humid meadows. Not uncommon.
 134. *Senecio vulgaris*. Cultivated grounds. Common.
 ——— *Jacobæa*. Meadows and pastures. Common.

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135. *Solidago Virgaurea*. Dry heaths and pastures. Common.
 136. *Bellis perennis*. Meadows and pastures. Common.
 137. *Pyrethrum inodorum*. Waste grounds. Common.
 138. *Chrysanthemum Leucanthemum*. Meadows and pastures. Frequent.
 139. *Achillæa Millefolium*. Dry meadows. Common.
 ——— *Ptarmica*. Humid meadows. Common.

GYNANDRIA MONANDRIA.

140. *Orchis mascula*. Meadows and pastures. Frequent.
 ——— *latifolia*. Wet situations. Abundant.
 141. *Satyrion viride* (*Habenaria virid.*). Heath. Common.
 142. *Zostera marina*. Sea-shore. Abundant.

MONÆCIA MONANDRIA.

143. *Euphorbia helioscopia*. Cultivated grounds. Common.

MONÆCIA TRIANDRIA.

144. *Carex dioica*. Marshes. Abundant.
 ——— *ovalis*. Heath. Not common.
 ——— *arenaria*. Sandy sea-shores. Common.
 ——— *recurva*. Dry heaths. Common.
 ——— *binervis*. Moist heaths. Frequent.
 ——— *ampullacea*. Watery situations.

MONÆCIA TETRANDRIA.

145. *Sparganium natans*. Lakes. Abundant.
 ——— *simplex*. Common.
 146. *Littorella lacustris* (*Plantago uniflora*). Common.
 147. *Urtica dioica*. Roads and way-sides. Common.
 148. *Myriophyllum spicatum*. Ditches and pools. Frequent.
 149. *Betula alba*. Shady banks. Not common.

DICÆIA DIANDRIA.

150. *Salix fusca*. Dry heaths. Common.
 ——— *aurita*. Banks of lakes, &c. Abundant.
 ——— *aquatica*. Watery places. Not common.
 ——— *herbacea*. Rare. Ronas Hill.

DICÆIA TRIANDRIA.

151. *Empetrum nigrum*. Heath. Common. Berries greedily devoured by *Lestris parasiticus*.

DICÆIA OCTANDRIA.

152. *Rhodiola rosea*. Rocks and cliffs. Common.

DICÆIA MONADELPHIA.

153. *Juniperus communis*. Rare. Cliffs, Koningsburgh.

POLYGAMIA MONŒCIA.

154. *Atriplex laciniata*. Sea-coast. Common.
 ——— *patula*. Cultivated and waste ground.

CRYPTOGAMIA FILICES.

155. *Polypodium vulgare*. Walls and shady banks. Common.
 156. *Aspidium Filix-mas*. Common.
 ——— *Filix-femina*. Common.
 157. *Scolopendrium vulgare*. Moist shady places. Rare.
 158. *Osmunda regalis*. Very rare. Near Sandwick, Unst.
 ——— *Lunaria*. Hilly pastures. Common.
 159. *Ophioglossum vulgatum*. Very rare. Burn of Sundybanks,
 near Scalloway, Mainland.

CRYPTOGAMIA LYCOPODIACEÆ.

160. *Lycopodium clavatum*. Rare. Ronas Hill.
 ——— *Selaginoides*. Moist heaths. Common.
 ——— *Selago*. Also abundant.

CRYPTOGAMIA EQUISETACEÆ.

161. *Equisetum sylvaticum*. Shady banks. Not common.
 ——— *fluviatile*. Wet places. Rare. Loch of Cliff.
 ——— *palustre*. Marshes. Common.
 ——— *arvense*. Moist fields. Abundant.

EXTINCT SPECIES.

Pinus Picea.

An old man told me that he found a fir tree, about six feet below the surface of the ground, when digging peat at the east side of Unst. It was about forty feet in length, and about six feet in circumference. It was much decayed on the outside, but quite sound in the heart.

The cones of the Silver Fir (according to Dr. Neill) have been found in the peat moors in Orkney, although I am not aware of their being observed in Shetland; and as this species seems, when planted, to succeed the best of all its tribe, it may be supposed that the tree in question was of this species.

Corylus Avellana.

The nuts and trunks of this tree have also at different times been dug up in the peat moors.