XXII. On the Flora of Mull

Mr George Ross

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continuously such as to change in some respects the habits of the people; and should they succeed, the hypothesis may be worthy of further investigation. The best chance of success would probably be afforded by choosing a tree in the middle of a deep wood, or standing singly in an open field, and which has been long treated uniformly and judiciously.

XXII. *On the Flora of Mull.* By Mr George Ross.

(Read 9th May 1878.)

As Mull has been less visited by botanists than the other large islands in the west of Scotland, and as it was stated in the Report of the Botanical Record Club, 1873, that no account of its flora existed, I sent to the Club in 1876 a list of the flowering plants, ferns, and their allies, observed during my residence. This was printed in the Report of the Club for that year, but with only a few of the stations. The following list contains a considerable number of additions, but is still far from complete, as I have not yet been able to visit a large portion of the island, including the highest hills; this may explain the absence of many alpine species found on hills of the same height elsewhere in Scotland

The highest hills are Ben More, 3172 feet; Dun-da-gu, 2505; Creichbeinn, 2344; Ben Buy, 2332; Ben Greig, 1941; and a number of others are between 1000 and 2000 feet. It is all "up hill and down dale,"—no extent of level ground. Scattered among the hills are numerous lochs, the largest of which, Loch Frisa, is 5 miles long, Loch Baa about 3; but the greater number are of small size, though often very deep, and contain excellent water swarming with trout.

The geological formation is invariably trap, except the termination of the Ross, which is granite, and patches of Tertiary strata at Ardtun and Griban. Ben More and the hills near it gave origin to all the traps of Mull and the islands around it, including Staffa and Iona, besides large tracts of the adjacent mainland. In those traps denudation has been, and is still, going on at an enormous rate; so fast are they crumbling away, that the debris and stones carried down to the hollows or the sea are so frequently covered over by a

fresh layer, that they have not time to form sand or rounded pebbles by the action of the waves; consequently, the sea bottom is mostly formed of angular stones. This waste from the rocks also constitutes all the soil except the *peat*, which is abundant all over the island.

The shores are in general rough and often precipitous, and in many places difficult to approach. The west coast is, however, cut into by a number of lochs, and their shores are in general easy of access, the two largest having a road near the shore nearly all round. On the same side at Griban and Ardmeadonach are the highest sea-cliffs on the island. On the shore at Calgary Bay and several parts of Loch Cuan is a snow-white sand (if the term be applicable to a substance entirely composed of broken shells), on which are a number of plants found nowhere else on the island. I have seen no silicious sand except on the granite of Ross-Mull.

The great bulk of the island is in a state of nature, and there are some extensive woods. Although the geological formation is chiefly trap, so many varieties of this class of rocks occur that there is a great difference in the character of some localities from that of others; yet, the soil being invariably of the same nature, no great difference in the vegetation except from altitude is to be expected.

As the list gives a fair idea of the frequency of species, I shall only mention a few I had considered rare, but which are quite the reverse in Mull. *Trollius europæus* is plentiful all over the north, and seemingly so in the south; I found it still in flower at Beach, Loch Scridain, on the 18th July. *Drosera anglica* is equally common; in some places it seems to have nearly starved out *D. rotundifolia*. *Pinguicula lusitanica* is by most of the burn sides and springs; *Pyrola media* is frequent—I have not seen it elsewhere on the west of Scotland; and the rare *Scutellaria minor* is probably not uncommon—I found it both on Loch Keil and Loch Scridain in abundance; *Schænus nigricans* and *Rhynchospora alba* are both common, going a long way up the hills; *Calamagrostis Epigejos* is frequent; and many others might be added that range from end to end of the island, which are not usually so common in other parts of the country.

I have seen white varieties of *Epilobium montanum*,

Thymus Serpyllum, *Ajuga reptans*, *Orchis maculata*, and *Scilla nutans*.

Of the trees which are native I am not able to give a decided opinion, but the oak, hazel, and birch, mixed with blackthorn, and scattered plants of bird-cherry, rowan, ash, and in damp places alder, form dense thickets; all these I believe to be indigenous; to these may be added several willows and probably the elm. The fir, wherever I have seen it, has all the appearance of being planted; if this be so, *Juniperus nana* will be the only native conifer.

I have not been able to collect the species and varieties of *Rosa* and *Rubus*, but think there are a good number of varieties, especially of *Rubus*. I may say the same of *Salix* and *Potamogeton*; the latter does not seem to be largely represented.

Many common plants are wanting in the list, but as I hope to fill up many gaps among them, I defer any remarks regarding them for the present.

Some, though present, are exceedingly scarce, and in many cases this is accounted for by the number of cattle and sheep, which eat every green thing during winter. Stray plants of *Vaccinium Myrtillus* are found on all the moors, but one never hears of the children going to gather blaë-berries; *Pyrola media*, though widely distributed, is not often seen in flower. Some of the Orchids appear never to get fertilised; I have watched *Cephalanthera ensifolia* in Dunolly Wood and by Loch Dhu near Oban, and here in Drumfin Woods, for five years, but have never seen a mature fruit; the flowers remain for a week or two, then wither and fall off, carrying the ovary with them. *Habenaria bifolia* appears to be in the same condition. I found it in two places, but only a few plants; while *H. chlorantha* is plentiful and fruitful.

Of Cryptogams, besides the ferns, I have collected mosses, which I hope at some future time to add to my list.

The plants are named in accordance with the London Catalogue, and the names of places are spelt phonetically, as I could not find any authority for the correct spellings.

I have inserted a few plants got on Iona, which is so close to Mull, that although I have not seen them, they are probably on this island. I may add, that I believe that Mull,

with the same amount of research bestowed on it as on many of the other islands, would prove equally interesting and rich in species.

RANUNCULACEÆ.

- Thalictrum minus*, *L.*
var. *maritimum*. Calgary Bay,
Mull; Iona.
Anemone nemorosa, *L.* Common.
Ranunculus hederaceus, *L.* Salen.
sceleratus, *L.* Kinloch, Scridain.
Flammula, *L.* Common.
acris, *L.* Common.
repens, *L.* Common.
Ficaria, *L.* Common.
Caltha palustris, *L.* Common.
Trollius europeus, *L.* Very common all
over the north end of the island, and
apparently so in the south; in flower
at Torranbeg, Loch Scridain, as late as
18th July.

NYMPHÆACEÆ.

- Nymphaea alba*, *L.* In most of the lochs.
Nuphar lutea, *Sm.* Along with last, and
in deep pools in some burns.

FUMARIACEÆ.

- Fumaria officinalis*, *L.* Only seen once
in 1876, Croft at Tobermory.

CRUCIFERÆ.

- Raphanus Raphanistrum*, *L.* Crofts
near Tobermory.
Sinapis arvensis, *L.* Common.
Sisymbrium officinale, *Scop.* Frequent.
Cardamine pratensis, *L.* Common.
hirsuta, *L.* Common.
sylvatica, *Link.* Common.
Arabis thaliana, *L.* Rocks by the sea,
Tobermory.
Barbarea vulgaris, *Brown.* Crofts, Tober-
mory.
Nasturtium officinale, *Brown.* Bedarrach,
Rareick, &c.
Cochlearia officinalis, *L.* Common.
Subularia aquatica, *L.* Loch Pellock.
Capsella Bursa-pastoris, *Moench.* Com-
mon.
Lepidium Smithii, *Hook.* Laorin.

VIOLACEÆ.

- Viola palustris*, *L.* Common.
sylvatica, *Fries.* Common.
tricolor, *L.* At Errie, &c., but not
common.
var. *arvensis*. Common.
lutea, *Huds.* Calgary Bay.

DROSERACEÆ.

- Drosera rotundifolia*, *L.* Common.
anglica, *Huds.* Loch Pellack, Loch
Dhu, Balliscate, between Salen
and Knock, &c.

POLYGALACEÆ.

- Polygala vulgaris*, *L.* Common.

CARYOPHYLLACEÆ.

- Silene maritima*, *With.* Frequent on the
shores.
Lychnis diurna, *Sibth.* Common.
Flos-cuculi, *L.* Common.
Githago, *L.*
Cerastium tetrandrum, *Curt.* Strongarbh,
Tobermory.
semidecandrum, *L.* Runa Leapa.
glomeratum, *Thunb.* Errie, Kinloch,
Salen, &c.
triviale, *Link.* Common.
Stellaria media, *With.* Common.
Holosteia, *L.* Common.
graminea, *L.* Errie, Loch-an-Meal,
&c., but not common.
uliginosa, *Murr.* Common.
Arenaria trinervis, *L.* Common.
serpyllifolia, *L.* Calgary Bay.
Honkeneya peploides, *Ehrh.* Common.
Sagina maritima, *Don.* Between Tober-
mory and Runa-gal Lighthouse.
procumbens, *L.* Common.
subulata, *Wimm.* Frequent; Errie,
Clach-an-Kerstach, Kinloch, &c.
Spergula arvensis, *L.* Common.
Spergularia rubra, *Fenzl.* Common.
marginata, *Syme*, *E. B.* Drumfin,
Soine.

PORTULACACEÆ.

- Montia fontana*, *L.* Common.
var. *rivularis*. Rareick.

HYPERICACEÆ.

- Hypericum Androsæmum*, *L.* Fre-
quent; Drumfin, Bedarrach,
Bloody Bay, Salen, &c.
perforatum, *L.* Calgary Bay, Pen-
more.
tetrapterum, *Fries.* Port-a-Cosh,
Drumfin.
humifusum, *L.* Aros, Errie, Drum-
fin, &c.
pulchrum, *L.* Common.

TILIACEÆ.

- Tilia intermedia*, *DC.* In plantations.

LINACEÆ.

- Radiola millegrana*, *Sm.* Dun Ji, Iona.
Linum catharticum, *L.* Common.
usitatissimum, *L.* In a corn-field at
Drumfin, 1876.

GERANIACEÆ.

- Geranium sanguineum*, *L.* Calgary Bay.
pratense, *L.* Buinessan.
molle, *L.* Common.
dissectum. Common.
Robertianum, *L.* Common.
Erodium cicutarium, *Herit.* Iona.
Oxalis Acetosella, *L.* Common.

ILICACEÆ

Ilex Aquifolium, *L.* Frequent, but planted.

SAPINDACEÆ

Acer Pseudo-platanus, *L.* Plentiful, but planted.

LEGUMINOSÆ

Ulex europæus, *L.* Common.

Sarothamnus scoparius, *Koch.* Strong-arbh, Bedarrach, Drumfin, &c., but rare.

Anthyllis Vulneraria, *L.* Frequent especially near the sea.

Trifolium pratense, *L.* Common.

medium, *L.* Common.

repens, *L.* Common.

procumbens, *L.* Common.

minus, *Relhan.* Common.

Lotus corniculatus, *L.* Common.

major, *Scop.* Common.

Vicia hirsuta, *Koch.* Sides of fields at Sorne.

Cracca, *L.* Common.

Sepium, *L.* Common.

sativa, *L.* Fields, Errie, &c.

tetrasperma, *Moench.* Crofts, Tom-a-voulan.

Lathyrus pratensis, *L.* Common.

Orobis tuberosus, *L.* Common.

var. tenuifolius. Common on the hills; Glen Grant, &c.

ROSACEÆ

Prunus spinosa, *L.* Common.

Avium, *L.* Strongarbh, &c., but not apparently native.

Padus, *L.* Frequent; Dorling, Drumfin, &c.

Spiræa Ulmaria, *L.* Common.

Agrimonia Eupatoria, *L.* Rareick, and near Tobermory.

Alchemilla arvensis, *Scop.* Common.

vulgaris, *L.* Common.

var. montana. By the Ess above Tom-a-voulan.

alpina, *L.* Gleam, Sealeasdaur.

Potentilla Fragariastrum, *Ehrh.* Common.

Tormentilla, *Schenck.* Common.

anserina, *L.* Common.

Comarum palustre, *L.* Loch-na-meal, &c.; not common.

Fragaria vesca, *L.* Common.

Rubus Idæus, *L.* Common.

suberectus, *Anders.* Drumfin.

discolor, *W. & N. (?)* Common.

saxatilis, *L.* Common.

Geum urbanum, *L.* Common.

rivale, *L.* Common.

Rosa spinosissima, *L.* Common.

tomentosa, *Sm.* Frequent.

canina, *L.* Common.

Cratægus oxyacantha, *L.* In hedges and shrubberies, not wild.

Pyrus Aucuparia, *Gærtn.* Common.

LYTHRACEÆ

Lythrum Salicaria, *L.* Frequent; Sorne, plentiful, Loch Don, &c.

Peplis Portula, *L.* Common.

ONAGRACEÆ

Epilobium parviflorum, *Schreb.* Rare-ick, Bloody Bay, &c.

montanum, *L.* Common.

palustre, *L.* Common.

tetragonum, *L.* Tom-a-voulin, Balliscate, &c.

Circæa Lutetiana, *L.* Runa Leap, Drumfin.

alpina, *L.* Drumfin.

HALORAGACEÆ

Myriophyllum spicatum, *L.* Meshnish Lochs, Loch-na-meal, &c.

Callitriche verna, *L.* Common.

CRASSULACEÆ

Sedum Rhodiola, *DC.* Cliffs below Sorne, abundant.

anglicum, *Huds.* Common.

acre, *L.* Calgary, Croig, Penmol-lach, &c.

Cotyledon Umbilicus, *L.* Ruins of Cathedral and Nunnery, Iona.

SAXIFRAGACEÆ

Saxifraga aizoides, *L.* Glen Sealcasdaur.

Chrysosplenium oppositifolium, *L.* Common.

Parnassia palustris, *L.* Common.

UMBELLIFERÆ

Hydrocotyle vulgaris, *L.* Common.

Sanicula europæa, *L.* Common.

Eryngium maritimum, *L.* Iona.

Bunium flexuosum, *With.* Common.

Oenanthe crocata, *L.* Common.

Ligusticum scoticum, *L.* Ardtun and Bunessan.

Anglica sylvestris, *L.* Salen.

Heracleum Sphondylium, *L.* Common.

Daucus Carota, *L.* Common.

Torilis Anthriscus, *Spreng.* Common.

Ocnium maculatum, *L.* Croig.

ARALIACEÆ

Hedera Helix, *L.* Common.

CAPRIFOLIACEÆ

Sambucus nigra, *L.* Balliscate, Bedarrach, &c.

Viburnum Opulus, *L.* Drumfin, Ardow, &c.

Lonicera Periclymenum, *L.* Common in woods.

RUBIACEÆ

Galium boreale, *L.* Ult-na-meal, Balliscate, &c.

cruciatum, *With.* Common.

verum, *L.* Common.

saxatile, *L.* Common.

palustre, *L.* Common.

uliginosum, *L.* Common.

Aparine, *L.* Common.

Asperula odorata, *L.* Common.

Sherardia arvensis, *L.* Calgary Bay and Tobermory.

VALERIANACEÆ

Valeriana officinalis, *L.* Common.

Valerianella olitoria, *Moench.* Frackdale.

DIPSACACEÆ.

Scabiosa succisa, *L.* Common.

COMPOSITÆ.

Carduus lanceolatus, *L.* Common.

palustris, *L.* Common.

heterophyllus, *L.* Frequent;

Drumfin, Runa Leap to Runa Gal.

arvensis, *Curt.* Common.

Arctium minus, *Schkuhr.* Common.

Centaurea nigra, *L.* Common.

Chrysanthemum segetum, *L.* Common.

Leucanthemum, *L.* Common.

Matricaria inodora, *L.* Common on the sea shore.

Tanacetum vulgare, *L.* Tobermory; escaped from gardens.

Achillea Millefolium, *L.* Common.

Parnica, *L.* Common.

Artemisia vulgaris, *L.* Common.

Gnaphalium uliginosum, *L.* Salen.

sylvaticum, *L.* Frequent; Gologoa,

Errie, &c.

dioicum, *L.* Common.

Senecio vulgaris, *L.* Common.

sylvaticus, *L.* Frequent; Drumfin,

Strongarbh, &c.

Jacobæa, *L.* Common.

aquaticus, *Huds.* Common.

Bellis perennis, *L.* Common.

Aster Tripolium, *L.* Drumfin, Salen,

Loch Keil, Loch Scridain, &c.

Solidago Virga-aurea, *L.* Common.

Tussilago Farfara, *L.* Common.

Petasites vulgaris, *Desf.* Frequent;

Bedarrach, Drumfin, &c.

Lapsana communis, *L.* Common.

Leontodon hispidus, *L.* Common.

autumnalis, *L.* Common.

Taraxacum officinale, *Wigg.* Common.

Sonchus oleraceus, *L.* Frequent.

asper, *Hoffm.* Drumfin, &c.

arvensis, *L.* Common.

Crepis virens, *L.* Drumfin, Errie, Ballis-

cate, &c.

paludosa, *Moench.* Common.

Hieracium Pilosella, *L.* Common.

anglicum, *Fries.* Loch-na-meal.

vulgatum, *Fries.* Common.

crocatum, *Fries.* Heatherfield.

boreale, *Fries.* Errie, on cliffs be-

yond Bedarrach.

CAMPANULACEÆ.

Lobelia Dortmanna, *L.* Common in all

the Lochs.

Campanula rotundifolia, *L.* Common.

Rapunculoides, *L.* In a hedge at

F.C. Manse, for three years at

least.

ERICACEÆ.

Vaccinium Myrtillus, *L.* Frequent, but

nowhere plentiful.

Arctostaphylos Uva-ursi, *Wimm.* Glen

Grant; abundant.

Erica Tetralix, *L.* Common.

cinerea, *L.* Common.

Calluna vulgaris, *Salisb.* Common.

Pyrola media, *Suurtz.* Frequent; Drum-

fin, Heatherfield, Balliscate, &c.

minor, *L.* Drumfin.

JASMINACEÆ.

Fraxinus excelsior, *L.* Common.

Ligustrum vulgare, *L.* Rocks at Strong-

arbh, hedges.

APOCYNACEÆ.

Vinca minor, *L.* Drumfin, planted.

GENTIANACEÆ.

Erythraea littoralis, *Fries.* Sorna.

Centaureum, *Pers.* Sorne, Croig, &c.

Gentiana campestris, *L.* Common.

Menyanthes trifoliata, *L.* Common.

CONVOLVULACEÆ.

Convolvulus arvensis, *L.* Calgary.

Sepium, *L.* Tobermory.

SCROPHULARIACEÆ.

Scrophularia nodosa, *L.* Common.

Digitalis purpurea, *L.* Common.

Mimulus luteus, *L.* Salen burn, Drum-

fin, &c.

Veronica agrestis, *L.* Common.

arvensis, *L.* Common.

serpyllifolia, *L.* Common.

officinalis, *L.* Common.

Chamædrys, *L.* Common.

montana, *L.* Frequent; Errie, Drum-

fin, &c.

Beccabunga. Not common; Beach

of Loch Scridain.

Euphrasia officinalis, *L.* Common.

Bartsia Odontites, *Huds.* Common.

Pedicularis palustris, *L.* Common.

sylvatica, *L.* Common.

Rhinanthus Crista-galli, *L.* Common.

Melampyrum pratense, *L.* Common.

var. *montanum*. Drumfin.

OROBANCHACEÆ.

Orobanche rubra, *Sm.* Bloody Bay.

LABIATÆ.

Mentha hirsuta, *L.* Common.

arvensis, *L.* Common.

Thymus Serpyllum, *Fries.* Common.

Nepeta Glechoma, *Benth.* Errie.

Prunella vulgaris, *L.* Common.

Scutellaria galericulata, *L.* Frequent;

Croig, Loch-na-Real, &c.

minor, *L.* Loch-na-Real, two miles

below Knock, Kinloch-Scridain.

Stachys palustris, *L.* Common.

sylvatica, *L.* Common.

arvensis, *L.* Errie, Balliscate, &c.

Galeopsis versicolor, *Curt.* Crofts near

Tobermory.

Tetrahit, *L.* Common.

Lamium amplexicaule, *L.* Iona, Tober-

mory.

purpureum, *L.* Crofts Tobermory.

Ajuga reptans, *L.* Common.

Teucrium Scorodonia, *L.* Common.

BORAGINACEÆ.

- Mertensia maritima*, Don. Quinish (Miss H. A. Bird).
Myosotis palustris, With. Rareick, Ardmore, &c.
cæspitosa, Schultz. Tom-a-voulin, &c.
arvensis, Hoffm. Common.
versicolor, Reich. Common.

PINGUICULACEÆ.

- Pinguicula vulgaris*, L. Common.
lusitanica, L. Frequent, ascending to about 1000 ft. on Ben Buy.

PRIMULACEÆ.

- Primula vulgaris*, Huds. Common.
officinalis, L. Naturalised at Drumfin.
Lysimachia nemorum, L. Common.
Anagallis arvensis, L. Some, Calgary, &c.
tenella, L. Kilfinichen, Bunessan, Iona.

- Glaua maritima*, L. Common.
Samolus Valerandi, L. Bloody Bay.

PLUMBAGINACEÆ.

- Armeria maritima*, Willd. Common.

PLANTAGINACEÆ.

- Plantago major*, L. Common.
lanceolata, L. Common.
maritima, L. Common.
Coronopus, L. Loarin, &c.

CHENOPODIACEÆ.

- Sueda maritima*, Dum. Penmore, Calcarey Bay.
Salsola Kali, L. Calgary Bay.
Salicornia herbacea, L. Quinish (Miss H. A. Bird).
Chenopodium album, L. Common.
Atriplex erecta, Huds. Common.
Babingtonii, Woods. Common.

POLYGONACEÆ.

- Rumex conglomeratus*, Murr. Common.
crispus, L. Common.
Acetosella, L. Common.
Polygonum convolvulus, L. Common.
aviculare, L. Common.
Hydropiper, L. Frequent; Balliscate, Loch Scridain, &c.
Persicaria, L. Common.
Bistorta, L. By walk to Drumfin, escaped from a garden.

EMPETRACEÆ.

- Empetrum nigrum*, L. Common on the hills.

EUPHORBIACEÆ.

- Euphorbia Helioscopia*, L. Common in cultivated ground.
Peplus, L. Common.
Mercurialis perennis, L. Common.

URTICACEÆ.

- Urtica dioica*, L. Common.
urens, L. Common.
Ulmus montana, Sm. Common.

AMENTIFERÆ.

- Quercus Robur*, L. Common.
Castanea vulgaris, L. Planted.
Corylus Avellana, L. Common.
Carpinus Betulus, L. Planted.
Alnus glutinosa, L. Common.
Betula alba, L. Common.
Myrica Gale, L. Common.
Populus alba, L. Frequent, but seldom of great size. I have not seen it in flower here.
tremula, L. Some.
Salix alba, L. Drumfin.
cinerea, L. Sea cliffs, Stroncroup, Bloody Bay.
aurita, L. Common.
caprea, L. Drumfin.
repens, L. Common on all the moors, several varieties.

CONIFERÆ.

- Pinus sylvestris*, L. Common, but planted.
Juniperus nana, Willd. Frequent; Sars-taben, Ben Buy, Stot Hill, &c.
Taxus baccata, L. Planted.

TYPHACEÆ.

- Sparganium simplex*, Huds. Pond above Tom-a-voulin, Loch Pellack, &c.
natans, L. Burn joining Meshnish Lochs, Kinloch.

NAIADACEÆ.

- Potamogeton natans*, L. Loch-na-meal, &c.
polygonifolius, Pour. Common.
pusillus, L. Glenforsa.
Zostera marina, L. Dorling, Loch Mingary, &c.

ALISMACEÆ.

- Triglochin palustre*, L. Common.
maritimum, L. Common.

ORCHIDACEÆ.

- Orchis mascula*, L. Common.
latifolia, L. Common.
maculata, L. Common, often pure white.
Gymnadenia conopsea, Brown. Common.
albida, Rich. Frequent; Balliscate.
Habenaria viridis, Brown. Braes by walk to Runa-gal Lighthouse.
bifolia, Bab. Man. Loch Pellack, Ualt-na-meal.
chlorantha, Bab. Common.
Listera ovata, Brown. Frequent; Drumfin, Bedarrach Wood.
Epipactis latifolia, Auct. Bedarrach Wood, along to Runa leap.
Cephalanthera ensifolia, Rich. Drumfin Wood, east side of Loch-na-Gourapin.

IRIDACEÆ.

- Iris Pseud-acorus*, L. Frequent; Errie, Aros, Salen, &c.

LILIACEÆ.

- Scilla nutans*, Sm. Common, sometimes white.
Allium ursinum, L. Common.

Narthecium ossifragum, *Huds.* Common.

JUNCACEÆ

- Luzula pilosa*, *Willd.* Common.
sylvatica, *Bick.* Common.
campestris, *DC.* Common.
multiflora, *Koch.* Common on the moors.
Juncus maritimus, *Sm.* Bloody Bay.
conglomeratus, *L.* Common.
effusus, *L.* Common.
glauca, *Sibth.* Frequent; Rareick, Loch Pellack, &c.
acutiflorus, *Ehrh.* Common.
lamprocarpus, *Ehrh.* Common.
bufonius, *L.* Common.
Gerardi, *Lois.* Frequent; Bloody Bay, Drumfin, &c., on the shore.
squarrosus, *L.* Common.

CYPERACEÆ

- Scheenus nigricans*, *L.* Frequent; Heatherfield, Spyon-more, Ben Buy, 1000 feet.
Rhynchospora alba, *Vahl.* Frequent; Loch Dhu, Moss between Salen and Knock, &c.
Blysmus rufus, *Link.* Frequent, Bloody Bay, L. Mingary, Sorne Bay, &c.
Scirpus palustris, *L.* Common.
multicaulis, *Sm.* Errie, &c.
pauciflorus, *Lightf.* Frequent; Heatherfield, Rareick, &c.
caespitosus, *L.* Common.
setaceus, *L.* By Loch Pellack, Iona, &c.
lacustris, *L.* Common in all the Lochs.
maritimus, *L.* Frequent; Bloody Bay, Loch Scridain, &c.
Eriophorum vaginatum, *L.* Common.
angustifolium, *Roth.* Common.
Carex dioica, *L.* Common.
pulicaris, *L.* Common.
pauciflora, *Lightf.* Ben Buy.
arenaria, *L.* Calgary Bay, Loch Cuan.
paniculata, *L.* Errie.
vulpina, *L.* Calgary Bay.
stellulata, *Good.* Common.
remota, *L.* Port-a-Cosh.
ovalis, *Good.* Frequent; Errie, Heatherfield, &c.
vulgaris, *Fries.* Common.
glauca, *Scop.* Common.
pilulifera, *L.* Frequent; Errie, Rareick, &c.
præcox, *Jacq.* Common.
pallascens, *L.* Common.
panicea, *L.* Common.
sylvatica, *Huds.* Drumfin, Bedarrach.
lævigata, *Sm.* Heatherfield, Errie, Calgary.
binervis, *Sm.* Common.
distans, *L.* Run-a-Leap.
fulva, *Good.* Common.
var. speirostachya. Common.
flava, *L.* Common.

Carex filiformis, *L.* Loch Pellack.
ampullacea, *Good.* Common.

GRAMINEÆ

- Anthoxanthum odoratum*, *L.* Common.
Alopecurus geniculatus, *L.* Common.
pratensis, *L.* Common.
Phleum pratense, *L.* Common.
Agrostis canina, *L.* Common.
alba, *L.* Common.
vulgaris, *With.* Common.
var. pumila. Common.
Calamagrostis epigejos, *Roth.* Frequent; Bedarrach, Drumfin, Croig, Heatherfield, &c.
Phragmites communis, *Trin.* Common in all the lochs.
Milium effusum, *L.* Drumfin.
Aira cæspitosa, *L.* Common.
flexuosa, *L.* Frequent on the moors.
caryophyllæa, *L.* Heatherfield, Sorne, &c.
præcox. Common.
Avena pubescens, *L.* Frequent; Errie, Sorne, &c.
elatior, *L.* Common.
strigosa, *Schreb.* Among corn, in all the crofts and farms.
Holcus mollis, *L.* Errie.
lanatus, *L.* Common.
Triodia decumbens, *Beauv.* Common.
Molinia cærulea, *Moench.* Common.
Melica uniflora, *Retz.* Bedarrach, Drumfin.
Glyceria fluitans, *Brown.* Common.
aquatica, *Sm.* Common.
Sclerochloa maritima, *Lind.* Frequent on the shore, Port-a-Cosh, Bloody Bay, &c.
Poa annua, *L.* Common.
pratensis, *L.* Common.
trivialis, *L.* Common.
Cynosurus cristatus, *L.* Common.
Dactylis glomerata, *L.* Common.
Festuca sciuroides, *Roth.* Frequent round Tobermory, Sorne.
ovina, *L.* Common.
rubra, *L.* On the shore; frequent.
elatior, *L.* Drumfin, Balliscate, Calgary Bay.
Bromus giganteus, *L.* Drumfin.
asper, *Murray.* Drumfin, Bedarrach, Penmore, &c.
racemosus, *L.* Frequent; Errie, Balliscate, &c.
mollis, *L.* Common.
Brachypodium sylvaticum, *R. & S.* Common.
Triticum caninum, *Huds.* Drumfin.
repens, *L.* Common.
pungens, *Pers.* Calgary Bay.
juncæum, *L.* Calgary Bay.
Lolium perenne, *L.* Common.
italicum, *Braun.* Fields.
Nardus stricta, *L.* Common.

FILICES

Hymenophyllum unilaterale, *Willd.* Frequent; Drumfin, Errie, Sarstaben.

- Pteris aquilina*, *L.* Common.
Cryptogramme crispa, *Brown*. Hills
 near Salen; Captain Morton, R.N.
 (I have not seen it).
Lomaria spicant, *Desv.* Common.
Asplenium Ruta-muraria, *L.* Bridge
 near Knock, Iona on ruins of
 Cathedral, &c.
Trichomanes, *L.* Common.
marinum, *L.* Sorne, Ardtun, Iona
 Cathedral and Nunnery, &c.
Adiantum-nigrum, *L.* Common.
Athyrium Filix-femina, *Bernh.* Com-
 mon.
Scolopendrium vulgare, *Sm.* Loch Don
 head, &c.
Cystopteris fragilis, *Bernh.* Drumfin,
 Errie, Bloody Bay, &c.
Aspidium aculeatum, *Sw.* Drumfin.
lobatum, *Sw.* Drumfin.
angulare, *Willd.* Bedarrach.
Nephrodium Filix-mas, *Rich.* Common.
spinulosum, *Desv.* Drumfin.
- Nephrodium dilatatum*, *Desv.* Drumfin,
 Balliscate, &c.
æmulum, *Baker.* Bunessan, Drum-
 fin near waterfall.
Oreopteris, *Desv.* Common.
Polypodium vulgare, *L.* Common.
Phegopteris, *L.* Common.
Dryopteris, *L.* Common.
Osmunda regalis, *L.* Ross-Mull, plenti-
 ful, Kinloch-Scridain, Sorne, &c.

LYCOPODIACEÆ

- Lycopodium clavatum*, *L.* Heatherfield,
 Scrap-Rhu, Spyon-more, &c.
Selago, *L.* Common on the moors.
Selaginella selaginoides, *Gray.* Common.
Isoetes echinospora, *Durieu.* Loch Dhù,
 Drumfin.

EQUISETACEÆ

- Equisetum arvense*, *L.* Common.
sylvaticum, *L.* Common.
palustre, *L.* Common.
limosum, *L.* Common.

XXIII. *A Journey in 1867 from Monte Video to San Jorge, in the centre of Uruguay, with Remarks on the Vegetation of the Country.* Plate VI. By Dr DAVID CHRISTISON.

(Read March 1878.)

The republic of Uruguay, better known in South America as the Banda Oriental,* has been less investigated by naturalists than might have been expected, particularly in recent times, when the ease of communication between Monte Video and Europe is considered. The ordinary traveller, in search of health, amusement, or adventure, has treated it with equal neglect, insomuch that only the southern portion of the republic, comprising not more than a sixth part of its extent, has hitherto been described; and and it is to the admirable accounts by D'Orbigny and Darwin of their investigations in these southern districts, early in the century, that we must still turn for nearly all the information, whether of a general or scientific nature, that is to be found about the country. The uniformity of configuration which is known in a general way to be characteristic of Uruguay may partially account for this neglect, as when a portion of such a country has been in-

* The accented syllable has been marked in this and other local words in which the accent is not evident, or is commonly misplaced in this country.