

MONOCOTYLEDONES

**Hydrocharideæ**

**Elodea** *Mich.*

498. \* **E. canadensis** *Mich.* WATER THYME.

Still waters, canals or slow-running streams. Recently introduced. Fl. July to October.

VII. Plentiful in the Erne, between Ballyshannon and Belleek, in still reaches; at the mouth of the Termon River into Lough Erne below Pettigo; Bundrowes River near Bundoran.

**Orchideæ**

**Neottia** *Linn.*

499. **N. Nidus-avis** *Rich.* BIRDSNEST ORCHIS.

Parasitic on the roots of various trees. Very rare. Fl. June and July.

IV. "Ards wood, Donegal, M. Murphy." Grows here under beech trees by the avenue near the garden wall.

VII. Brown Hall, the residence of Major Hamilton.

First record; M. Murphy, 1872 (*Recent additions*, etc.)

**Listera** *R. Br.* TWAYBLADE.

500. **L. ovata** *R. Br.*

Thickets, woods and damp pastures. Frequent. Fl. June to August.

I. Leenane; Glennagiveny Bay.

II. Buncrana, etc.

III. Glinsk, Leerig-a-cloghan and Kindrum, Fanet; Rossgull, frequent, Miss Kinahan; River Lennan above Lough Fern; Fort Royal, Rathmullan; Ramelton; Macamish Pt.

IV. Near Creeslough; Horn Head; Ards; Bullaba River.

VI. Kincashla Point, Rosses.

VII. Rooney's Island, near Donegal; Brown Hall; Cliff, on the Erne.

VIII. Glen Bay and Fintragh Bay in wet sandy pasture ground;

amongst alpine plants at Slieve League, at 1470 feet; Lowerymore Glen, above Lough Eske.

From 1470 feet to sea-level.

501. **L. cordata** *R. Br.*

Under heather on mountains. Not rare but easily overlooked. Fl. May to July.

I. "Bulbein Mountain, County Donegal, R. Brown, Esq." *Flor. Ulster*; Erris Mountains near Dunree; above Lough Naminn at the south-east corner; Stoolary, south of Carndonagh, etc.

II. Kilderry and Fahan, W.E. Hart.

III. Summits of Knockalla and Murren, Fanet; Croghanmore and other mountains, near Rathmullan; Aughterlinn; summit of Lough Salt Mountain; Glenalla.

IV. Muckish in many places, ranging up to 1900 feet above sea-level; Horn Head, *Flor. Ulst.*

VIII. Slieve League, in several places; Slieve-a-Tooye. Recorded from Slieve League by Professor Dickie, *Flor. Ulst.* It occurs here close to the summit, 1900 feet above the sea.

From 1900 feet to sea-level or near it.

### **Epipactis** *Rich.* HELLEBORINE.

502. **E. latifolia** *Sw.*

Woods and thickets. Rare. Fl. July to September.

II. Castle Woods, Buncrana, Mr. J. Hunter.

III. Sparingly in Cottian Wood, near Kilmacrenan.

IV. Woods at Ards.

VII. Brown Hall.

VIII. The Hall, Mount Charles; Ardnamona and Lough Eske Castle Woods, where it is three feet high.

First record; Hart, 1872 (*Recent Additions*, etc.)

503. **E. palustris** *Linn.*

Boggy glades and wet sandy ground. Very rare. Fl. July.

IV. Eastern side of Horn Head, near the Islands.

VI. Wet, sandy ground near a shallow lake below the "Standing Stone" in Boyleagh, north-west of Ardara.

VII. Meadow lands of Wardtown, 1½ miles west of Ballyshannon, close to where a road runs down to the sea.

VIII. Plentiful in a glade at Ardnamona, Lough Eske.

First record; Prof. E. Murphy, 1866 (*Cyb. Hib.*)

### **Cephalanthera** *Rich.*

504. **C. ensifolia** *Rich.*

Damp woods at low levels in mountain districts. Extremely rare. Fl. June, July.

VIII. Ardnamona Wood, where it was originally discovered by Mrs. Brooke, of Lough Eske. I gathered it here in 1885, '86.

First record; Mrs Brooke, 1866 (*Cyb. Hib.*)

## **Orchidaceæ**

### **Orchis** *Linn.*

505. **O. mascula** *Linn.*

Damp pastures, thickets, banks and borders of woods. Common. Fl. April to June.

506. **O. latifolia** *Linn.*

Marshes, wet fields and meadows. Common. Fl. June to August.

Comes into flower later and lasts later than the next species.

507. **O. incarnata** *Linn.*

Marshy meadows and wet sandy pastures, chiefly near the sea. Frequent. Fl. end of May to July.

508. **O. maculata** *Linn.*

Moors, meadows and wet pastures. Very common. Fl. June, July.

From 1950 feet to sea-level.

509. **O. pyramidalis** *Linn.*

Sandhills, sandy pastures near the sea and meadows on limestone. Local and rare. Fl. July, August.

I. Sandhills at Greencastle, W.E. Hart.

III. In several places on the Bottom Shore sandhills, and between Kindrum and Ballyhernan, Fanet; near Rosapenna Lough, Carrigart,

Miss Kinahan; Fort Royal, near Rathmullan; Port Salon Golf Links, close to the Twelfth Hole.

IV. Marble Hill, near Dunfanaghy; near Horn Head House.

VI. Sandhills north-west of Ardara.

VII. Meadows by the Erne a little below Cliff; limestone bluffs across the Erne opposite Ballyshannon.

VIII. Between Magheragh and Slieve-a-Tooy on sandhills by the sea.

### **Habenaria** *R. Br.*

#### 510. **H. conopsea** *Benth.*

Peaty pastures and thickets, and in sandy grassy places near the sea. Local. Fl. June to August.

I. Glennagiveny; Glentogher; Leenane.

II. A little north of Ned's Point, Buncrana.

III. Glinsk and in fields under Lerrig-a-cloghan, opposite Kindrum, Fanet; several places in Ross Gull, Miss Kinahan; Macamish Pt; Ballyhork and Lerrig-a-cloghan, Mulroy.

IV. Horn Head; Marble Hill, near Dunfanaghy.

V. By the Deel River between the Foyle and Ballindrait.

VI. Kincashla Point, Rosses.

VII. By the Erne; between Cavan Garden and Brown Hall; by the Termon River above Pettigo; Wardtown, west of Ballyshannon.

VIII. Tawny Bay near Carrick.

From 800 feet to sea-level.

#### 511. **H. albida** *R. Br.*

Mountain pastures at low levels. Scarce. Fl. June to July.

I. Near Greencastle, W.E. Hart.

II. Near Buncrana, J. Hunter.

III. Carrablagh, Seven Arches, rare in Fanet; Glen Lough, Croaghroe, Carn Hill near Ramelton, near Leck, and in Rossgull, Miss Kinahan; east side of Lough Fern a little above the lake.

IV. At 950 feet above sea-level in the Poisoned Glen in company with *Oxyria*, *Saxifraga oppositifolia*, etc.

VI. Sandy hillocks near Kincashla Signal Tower, to the south-east.

VII. At Cliff, near the Erne, below the house; on slopes of the hill crossing from Templecarn to Ballyshannon road, Miss Young.

VIII. By the Eske River, left bank, above "Thrushbank Bridge".

From 800 feet to sea-level.

512. **H. viridis** *R. Br.*

Sandy and heathy pastures, chiefly near the sea; also in spongy rills. Local, but common in several districts. Fl. June to August.

I. and II. Not rare.

III. Common along bluffs above Lough Swilly and elsewhere in Fanet; Ardromin, Miss Kinahan; common on Rossgull.

IV. Base of Muckish, south and east sides; shore near Templecrone, three miles west of Dunglow.

V. By the Swilly, above Swilly Bridge.

VI, VII, VIII. Frequent, especially on grassy headlands and pastures near the sea; and in spongy places by rivers.

513. **H. bifolia** *R.Br.*

Heathy and wet pastures. Scarce. Fl. June, July.

I. Glentogher.

III. About Ardromin, in several places; near Doaghbeg, Fanet; by Milford Lake on the east side; east side of Lough Fern.

V. By the Reelan Water.

VII. Cliff on the Erne.

VIII. Glen Bay.

514. **H. chlorantha** *Bab.*

Wet places, by woods and thickets, in mountain districts, and in meadows. Frequent. Fl. July, August.

## Irideæ

### **Iris** *Linn.*

515. **I. Pseud-acorus** *Linn.*

Marshy places. Common. Fl. June, July.

From 730 feet to sea-level.

516. \* **I. fœtidissima** *Linn.* STINKING IRIS.

Banks and thickets. Rare and not native. Fl. June, July.

III. Abundantly established, and assuming a native appearance by the shore, at Rathmullan House.

VII. Abundantly established at Brown Hall.

## Liliaceæ

### **Allium** *Linn.*

517. **A. vineale** *Linn.* CROWGARLIC.

Meadows, pastures and banks. Very rare, Fl. May, June.

V. Four miles south of Derry, by the Foyle, near the railway.

First record; Hart, *Flora*.

518. \* **A. ampeloprasum** *Linn.*

Stony banks and waste places. Rare. An escape from cultivation. Fl. July to September.

III. Near Doaghbeg, Fanet; between Ray and Rathmullan; between Kilmacrenan and Paddy Murray's Inn. Thoroughly established, and looking wild in Fanet.

VI. Near Burton Port.

VIII. North side of Inver Bay, on the coast.

This may be the outcome of a native form.

519. **A. ursinum** *Linn.* RAMSONS.

Woods and thickets. Very local. Fl. May, June.

II. Ned's Point, near Buncrana; Glengollen, Fanet.

III. Woods at Rathmullan and Glenalla; woods between Ray and Rathmullan.

IV. Sparingly in Glenlack, a tributary of Glenveagh; by a stream from Muckish, near Creeslough.

VI. In a natural wood, about a mile above Russell's Ferry, on the south side of Gweebarra Bay.

VII. Woods at Brown Hall; woods, hedges and thickets about Camlin, near the Erne.

VIII. Lough Eske Castle Woods; Eanymore Water, below Drumagraa Bridge, on the left bank; Lowerymore Glen, above Lough Eske; by the Owentogher River, below Ivy Bridge.

### **Scilla** *Linn.* WILD HYACINTH.

520. **S. nutans** *Sm.* BLUE-BELL.

Woods, thickets and steep grassy banks by the sea. Common. Fl. May, June.

**Narthecium** *Huds.*

521. **N. ossifragum** *Huds.* BOG ASPHODEL.

Wet places on peat. Very common. Fl. June to August.

The red capsules of this pretty species are very attractive in autumn.  
From 1400 feet to sea-level.

**Junceæ****Juncus** *Linn.* RUSH.

522. **J. bufonius** *Linn.*

Wet places by roadsides, and in damp sandy ground. Common. Fl. July and August.

From 1100 feet to sea-level.

523. **J. squarrosus** *Linn.*

Heaths and moors. Very common. Fl. June to August.

From 2150 feet to sea-level.

524. **J. compressus** *Jacq.*

Wet places near the sea. Frequent, but usually the following form, from which it is hardly distinct. Fl. July, August.

525. **J. Gerardi** *Loisel.*

Frequent by the sea-coast. Fl. June to August.

526. **J. glaucus** *Ehrh.*

Damp grassy places on a sandy soil, especially on limestone near the sea. Very local. Fl. July and August.

VII. About Ballyshannon and Bundoran; along the River Erne; by the Termon River, near Lough Erne.

VIII. About Donegal, Dunkineely, and Killybegs; along the River Eske.

First record; 1866 (*Cyb. Hib.*)

527. **J. effusus** *Linn.*

Moist places. Common. Fl. July, August.

From 2150 feet to sea-level.

528. **J. maritimus** *Linn.*

Salt marshes. Frequent in suitable places, round the coast, and abundant in muddy estuaries. Fl. July and August.

529. **J. supinus** Moench. (*J. uliginosus* and *J. fluitans*)

Bog holes, bogs and in water. Very common. Fl. all summer.

From 2200 feet to sea-level.

530. **J. lamprocarpus** Ehrh.

Wet places, especially on a sandy soil, and amongst sandhills by the coast. Frequent. Fl. July to September.

*Var. J. nigritellus.* (Not of Don.)

On the sands near Ballyliffin, north of Carndonagh, Inishowen. Mr. Bennett decided this form for me.

531. **J. obtusiflorus** Ehrh.

Wet places on limestone. Very rare. Fl. July, August.

VII. By "Washpool" Stream, a little north of Ballyshannon; edges of lake north of Cavan Garden; lakes between Brown Hall and Cliff; by a small pond in rocky limestone ground near Ballyshannon; on the south side of the River Erne; Wardtown, and plentiful by the stream from Carricknahorna to Ballyshannon Estuary; Camlin, along the Erne; Lough Keenaghan, 2½ miles east by north from Belleek. This locality extends to District X. (Fermanagh). Roshin Lough, about four miles east by north from Ballyshannon.

Only on limestone.

First record; Hart, 1886 (*Proc. R.I.A.*)

532. **J. acutiflorus** Ehrh.

Marshy places, low-lying bogs, and by rivers. Common. Fl. June to August.

Especially abundant in the south-west.

From 1050 feet to sea-level.

### **Luzula** D.C. WOODRUSH.

533. **L. maxima** D.C.

Hilly woods, heathy banks or precipices by the sea, and rocky bluffs on mountains. Common where suitable places occur. Fl. May, June.

From 2460 feet to sea-level.

534. **L. pilosa** Willd.

Wooded places, glens and thickets. Rather scarce. Fl. April, May.

II. Kilderry, W.E. Hart; Thorn Hill, north of Derry.

III. Glenalla; woods by the Lennan above Ramelton; glen above Carrowkeel; Bunlinn; Cottian wood near Kilmacrenan; Ardromin near Ramelton.

V. Bogay, near Londonderry, W.E. Hart.

VII. Woods at Cliff, by the Erne.

VIII. Lough Eske woods.

From 600 feet to sea-level.

535. **L. campestris** *Willd.*

Pastures, heaths, moors and bogs. Common. Fl. April to June.

From 2460 feet to sea-level.

536. **L. multiflora** *Lej.*

Bogs, moors and mountains. Common. Fl. June, July.

From 2460 feet to sea-level.

## Eriocauloneæ

### Eriocaulon PIPEWORT.

537. **E. septangulare** *With.*

Moorland lakes at low level. Rare. Fl. August.

VI. In several lakes in The Rosses; Lake Aleck More, south of Dunglow; Kiltorris Lake, near Ardara; Mullaghderg Lake, near Kincashla, where it grows and flowers in mud amongst grass, etc, above the margin of the water.

First record; "abundant in the lakes of the Rosses," E. Murphy, *Mag. Nat. Hist.* Vol. I, p.436, 1829.

## Typhaceæ

### Typha *Linn.* REEDMACE, CAT'S-TAIL.

538. **T. latifolia** *Linn.*

Margins of lakes and slow rivers. Local. Fl. July, August.

III. Kindrum and Tamney Lakes, Fanet; lake at Melmore Point; by the river Lennan, near Ramelton; Milford Lake; Ballyarr.

V. By the Foyle, near Lifford.

VII. Near Bundoran; Brown Hall; Carricknahorna, north-east of Ballyshannon.

VIII. Lake Unshagh, near Slieve League; Owentogher River, above Ardara (8 feet high).

539. **T. angustifolia** *Linn.*

In quagmires and shallow water by lakes. Very rare. Fl. July, August.

III. South shores of Rinboy Lake and Kindrum Lake in Fanet; sparingly on south-eastern shore of Kinnylough, Fanet; abundant at the north-west end of Kinnylough.

First record; Hart, 1887 (*Jour. of Bot.*)

### **Sparganium** *Linn.* BUR-REED.

540. **S. ramosum** *Huds.*

Ditches, slow streams and pools. Frequent. Fl. June, July.

Scarce in the remoter maritime districts, but occurs at Malin in Inishowen; Bedlam, near Ballyness Bay, etc.

From 600 feet to sea-level.

541. **S. simplex** *Huds.*

Ditches, marshy margins of lakes and slow streams. Not unfrequent. Fl. July, August.

I. In a small lake in Mamore Gap, by the roadside; Loughinn river, below Carndonagh.

III. Bran Lough, near Ballymagahy, Kindrum and Tamney Loughs, Fanet.

VI. Cloonea Lake, by the coast north-west of Ardara; river between Ardara and Glenties ("the floating state, often named *S. affine*," W.H. Beeby).

VIII. Lough Eske and Lake Unshagh.

542. **S. affine** *Schu.*

Mountain lakes and slow streams in mountainous districts. Common. Fl. August.

The more slender, long-leaved, alpine form occurs in most of the mountain lakes, often at considerable elevations, throughout the county.

III. Lough Golagh and Kinnylough in Fanet; Loughs Keel and Glenveagh; River Lennan between Ramelton and Lough Fern.

IV. Very common on Aranmore; Toome Lough in Lettermacaward in Loughahoey, Tory Island, R.M. Barrington.

VI. Lakes on Aghla above Finntown, at 1800 feet. The variety *alpinum*, named by Mr. W.H. Beeby.

VII. Lakes west of Ballyshannon; Lough Avelly, near Pettigo.

VIII. Lakes Unna, Dina, Agh, etc, near Carrick.

In the higher mountain lakes it is the variety *alpinum*. The specimens in this genus have been submitted to Mr. Bennett, who obtained Mr. Beeby's decision for me.

From 2100 feet to sea-level.

543. **S. minimum** *Fries.*

Lakes and ponds. Rare? Fl. July, August.

III. Milford Lake; Kindrum, Bran, Rinboy, and Ballymagahy Lakes in Fanet.

IV. Lake Unshagh, near Glenveagh.

VI. Kiltorris Lake, near Ardara; by the Barra River, below Lough Barra in several places.

VIII. Brockagh Lake, Killybegs.

I have no doubt this occurs in many other localities, but I have not usually distinguished it from *S. natans*, var. *alpinum*, and hesitate to record any localities except those where Mr. Beeby has seen the specimens.

## Aroideæ

### **Arum** *Linn.*

544. **A. maculatum** *Linn.* CUCKOO-PINT. LORDS AND LADIES.

Woods, thickets, and shady places. Local. Fl. April, May.

VII. and VIII. Frequent about Pettigo, Bundoran, Belleek, Ballyshannon and Donegal. Apparently confined to the limestone, and to this portion of Donegal.

Recorded by me from a station in Fanet (III.), but I cannot confirm the record, and fear there may have been an error.

First record; *Cybele Hibernica*, 1866 (A.G.M.)

## Lemnaceæ

**Lemna** *Linn.* DUCKWEED.

545. **L. minor** *Linn.*

Pools and ditches. Common. Fl. June to August.

## Alismaceæ

**Alisma** *Linn.*

546. **A. Plantago** *Linn.* WATER PLANTAIN.

Lakes and deep ditches. Frequent. Fl. July, August.

Local in Inishowen and Fanet, the extreme northern districts.

I. Doagh Island, Loughinn River, near Carndonagh.

II. Burnfoot and Inch.

III. Ballyhork, Between Waters and Kindrum, Fanet. Milford Lough, etc.

V. Foyle, above Lifford.

VII. and VIII. Not scarce in these districts. Probably occurs in the others.

547. **A. ranunculoides** *Linn.*

Marshes, ditches, and boggy margins of lakes. Frequent. Fl. June to August.

## Naiadaceæ

**Triglochin** *Linn.*

548. **T. palustre** *Linn.*

Marshy and wet meadows, chiefly in peaty or sandy soil. Common. Fl. June to August.

From 1000 feet to sea-level.

549. **T. maritimum** *Linn.*

Salt marshes. Common. Fl. June, July.

**Potamogeton** *Linn.* PONDWEED.

550. **P. natans** *Linn.*

Still waters. Very common. Fl. June to August.

From 1800 feet to sea-level.

551. **P. polygonifolius** *Pourr.*

Watery ground on peaty soil and bog-holes. Common. Fl. June to August.

Several long-leaved, usually barren, forms of this pondweed occur in Donegal. Usually in slow moving water on peaty soil. River Lennan at Ramelton has a remarkable variety. They would probably be referable to *var. pseudo-fluitans* of Syme.

From 1100 feet (Barnesmore) to sea-level.

552. **P. rufescens** *Schrad.* *P. alpinus* BALBL.

Lakes. Rare. Fl. July.

II. "On the race-course bog, near Londonderry, D.M." *Cyb. Hib.*

III. Mouth of stream into Lough Fern (near where the boats are kept); in the river Lennan, between Lough Fern and Ramelton (*P. homophyllus* of Syme); Milford Lake,

III. and IV. Stream between Lakes Akibbon and Gartan, near Churchill.

VII. Drumgun Lake, Pettigo.

VIII. Lake Unshagh, near Slieve League; Owentogher River, a mile above Ardar.

My specimens were named by Mr. Arthur Bennett.

First record; D. Moore, 1866 (*Cyb. Hib.*)

553. **P. heterophyllus** *Schreb.*

Rivers and lakes. Not common. Fl. June to September.

I. Loughinn River, near the lough.

III. Lennan River, up to Gartan Lake and in Lough Fern, and the river out of Lough Fern near Moyagh.

IV. Mullaghderg Lake to the west of Bunbeg, plentiful; Lough Nacung Lower and stream from it to Gweedore.

VI. Kiltorris Lake, near Ardar.

VII. Lough Laghtowen near Pettigo; Termon River where it meets Lough Erne.

VIII. River Eske.

Named by Mr. Arthur Bennett.

554. **P. varians** *Monig.*

In a small lake. Fl. July, August.

IV. In the small lake at Ards. Very abundant and monopolizes the inner margin. Mr. Bennett writes, "perhaps a form formerly produced by *P. heterophyllus* x *Zizzii*, but now a fixed quantity. It is known from the Fens."

First record; Hart, *Flora*.

555. **P. nitens** *Webb.*

Lakes and slow streams. Very rare. Fl. June, July.

III. Kinnylough, Fanet.

III. and IV. In the stream between Lakes Akibbon and Gartan. Mr. Bennett states that the specimens from here are identical with Scotch specimens, but that others I sent him from Castlegregory in Kerry differed somewhat and were very near the form *curvifolius*, Hoeck.

Named by Mr. Bennett.

*Var. P. intermedius, Tis.*

To this form Mr. Bennett refers a plant from a still part of the Erne River, below Cliff, by the right bank. "Closely approaching the Swedish species, named by Dr. Tiselius *P. intermedius (ad nitens)*."

First record (for both); Hart, 1886. (*Proc. R.I.A.*)

556. **P. lucens** *Linn.*

Rather deep pools and lakes. Local. Fl. June to August.

III. Loughs Golagh and Kindrum, Fanet; River Lennan above Ramelton; Lough Fern.

VII. Bundrowes River, near Bundoran; Termon River where it meets Lough Erne; Carricknahorna Lake; Roshin Lake and Lough Gorman, near Ballyshannon.

VIII. Lough Eske and River Eske.

*Var. P. lancifolius, Mertens & Koch, Deutch Flora, 1823.*

Lake at a low level. Very rare. Fl. July, August.

III. Kinnylough, Fanet.

Named by Mr. Bennett.

First record; Hart, *Flora*.

557. **P. decipiens** *Hoth.*

Deep waters in lakes. Rare. Fl. July.

III. Long Lough, near Fort Royal, Rathmullan.

VII. Carricknahorna Lakes, north-east of Ballyshannon.

Named by Mr. Bennett.

First record; Hart, 1885. (*Proc. R.I.A.*)

558. **P. Zizzii** *Roth.*

Lakes and slow streams. Rare. Fl. July to September.

III. River Lennan above Ramelton; Kinnylough, Tamney and Ballyhork Lakes, Fanet.

VII. Letter River, near Pettigo; Bundrowes River above Bundoran.

In Ballyhork Lake, on the "Between Waters," Fanet, this scarce species is abundant and typical.

Determined by Mr. Bennett.

First record; Hart, 1885 (*Proc. R.I.A.*)

559. **P. praelongus** *Wuljen.*

Lakes in mountain districts. Very rare. Fl. June to August.

VI. At the southern end of Lough Finn, plentiful on the south side of the lake; Mullaghderg Lake, on the north side, Rosses. Identified in both cases by Mr. Arthur Bennett. Fragments picked up on the shores of Lough Anure, Rosses, belonged, I believe, to this species also, they had the hooded-tipped leaves and elongated habit.

First record; Hart, 1886 (*Proc. R.I.A.*)

560. **P. perfoliatus** *Linn.*

Lakes and rivers. Frequent. Fl. July and August.

*Var. cordata* occurs in Kinnylough.

561. **P. crispus** *Linn.*

Ditches, rivers and lakes. Not common? Fl. July, August.

III. Ballymagahy Lake and stream into it, and in Magherdromin Lake, Fanet; Kinnylough, Fanet; Lough Fern.

VI. Kiltorris Lake, near Ardara. A curious, young state, not easily determined.

VII. Bradagh River near Bundoran; in the Erne River.

562. **P. obtusifolius** *Mert and Koch.*

Peaty lakes and deep drains leading into them. Very rare. Fl. June.

III. Milford Lake; ("lakes in Fanet, Donegal, E. Murphy," *Cyb. Hib*, probably an error). In a deep ditch leading to a small lake by the roadside a mile north of Milford Union on the way to Carrowkeel.

VIII. In a deep dyke at the narrow end of St. Katharine's Lake, south of Killybegs. There is plenty of it here, but it could not be reached except in a dry season.

Determined by Mr. Bennett.

First record; E. Murphy, 1829 (*Mag. Nat. Hist*, Vol. I, p. 436).

563. **P. pusillus** *Linn.*

Still water, slow streams and watery bogs. Common. Fl. July and August.

564. **P. pectinatus** *Linn.*

Lakes near the sea and dykes flooded at high water. Local. Fl. July, August.

II. Abundant in dykes on Inch and Blanket Nook estuaries; along the railway from Inch road to Bridgend and adjoining ditches.

III. Kinnylough, Fanet; Kindrum.

This species will thrive in brackish water. In Babington's *Manual*, *P. flabellatus* is stated to grow "chiefly near the sea," while the present is given "ponds and streams." The reverse appears to me correct. I have often found *P. pectinatus* in brackish, or nearly salt water; *flabellatus* never. *P. flabellatus* appears to me very distinct, and also very rare in Ireland.

565. **P. flabellatus** *Bab.*

Margin of a lake on limestone. Very rare. Fl. July.

VII. Roshin Lough about four miles a little north of east from Ballyshannon. Thickly encrusted with calcareous matter. Named by Mr. Bennett.

First record; Hart, *Flora*.

566. **P. filiformis** *Holte.*

Shallow margins of lakes on a sandy peaty bottom. Very rare. Fl. July to September.

III. Kinnylough, Fanet. Abundant here, especially on the west shore.

First record; Hart, 1880 (*Jour. of Bot.*)

**Ruppia** *Linn.*

567. **R. maritima** *Linn. R. spiralis, Hartm.*

Brackish muddy pools. Very rare? Fl. July, August.

III. In a brackish pool by the southern avenue at Mulroy House; by the enclosed lake in the same demesne.

Named by Mr. Bennett.

First record; Hart, *Flora*.

568. **R. rostellata** *Koch.*

Brackish mud and pools. Frequent. Fl. July, August.

(I. and II. Abundant along shores of Lough Foyle. *Flor. Ulst.*)

I. Malin Estuary.

II. Blanket nook.

III. By the Thorn Embankment below Letterkenny.

VII. Salt marshes near Ballyshannon, etc; Donegal.

VIII. Glen Bay; Donegal.

**Zannichellia** *Linn.* HORNED PONDWEED.

569. **Z. palustris** *Linn.*

Muddy brackish ditches. Rare? Fl. July, August.

II. Between Inch and Burnfoot; Crana River, near Kinnagoe, Buncrana, J. Hunter.

VIII. Glen Head.

First record; Hart, 1872 (*Recent Additions, etc.*)

**Zostera** *Linn.* GRASS-WRACK.

570. **Z. marina** *Linn.*

Shallow, muddy-bottomed estuaries, from low-water mark at neap-tides to about ten feet below that of springs. Common. Fl. July, August.

*Var. augustifolia.*

I. Plentiful on mud flats in Trawbreaga Bay. This form was determined for me by Mr. Bennett.

571. **Z. nana** *Roth.*

Muddy shores, near high water mark. Very rare. Fl. July, August.

IV. Abundant on the strand at Ards, looking south towards Creeslough.

Named by Mr. Bennett.

First record; Hart, 1880 (*Jour. of Bot.*)

**Eleocharis** *R. Br.* SPIKE-RUSH.572. **E. palustris** *R. Br.*

Marshy places, and margins of streams and lakes. Common. Fl. June to August.

573. **E. uniglumis** *Link.*

Muddy salt ditches. Very rare. Fl. July.

VII. Pools and ditches in mud by the Ballyshannon estuary below Ballyshannon on the south side. Named by Mr. Bennett.

First record; Hart, *Flora*.

574. **E. multicaulis** *Sm.*

Spongy bogs, margins of lakes and wet moors. Locally abundant. Fl. June to August.

I. Characteristic of Malin Head and common generally in extreme north of Inishowen. Loughs Naminn and Fad.

II. Slieve Main, and other bogs. Not uncommon.

III. Lough Golagh, Fanet.

IV. About Dunfanaghy, and Marble Hill, frequent. Muckish, Dooish and Glenveagh; Tory Island, R.M. Barrington.

V, VI, VII, VIII. Frequent on the western moors.

From 925 feet to sea-level.

575. **E. acicularis** *Sm.*

Muddy sand at the edge of a large river. Very rare. Fl. June to August.

VII. In one place by the Erne River, right bank, nearly opposite Camlin. A considerable patch here in July, 1893.

First record; Hart, *Flora*.

**Cyperaceæ****Scirpus** *Linn.* BULL-RUSH.576. **S. lacustris** *Linn.*

Margins of lakes and rivers. Frequent. Fl. June to August.

I. Loughs Naminn and Inn.

III. Kindrum, Fanet; River Lennan; Lough Gartan.

IV. Bedlam.

VII. Lough Eske, etc.

VIII. Lake near Cliff.

577. **S. Tabernaemontani** *Gm.*

Ditches, pools and wet places near the sea. Rare? Fl. June to August.

III. By the side of Lough Swilly, near Ramelton.

IV. Salt marshes, about three miles west of Dunglow; Kiltooris Lake, near Ardara.

VII. Salt marshes by Ballyshannon estuary.

First record; Hart, 1880 (*Jour. of Bot.*)

578. **S. maritimus** *Linn.*

Salt marshes and wet places near the sea. Frequent. Fl. June to August.

Particularly common along the muddy shores of Lough Foyle where it is often much in use for thatching. Rather local in some districts, but only on account of unsuitability of ground.

579. **S. sylvaticus** *Linn.*

River banks. Very rare. Fl. June to August.

I. Very sparingly by the Glentogher River in a couple of places below Glentogher wood, south of Carndonagh.

V. "By the Fyn [*sic*] in Donegal, Admiral Jones." – *Cyb. Hib.* I failed to rediscover it here. By the Deel River, on the south side, near its junction with the Foyle. Plentiful here, but grazed early by cattle.

VII. Termon River, above Pettigo, sparingly, near the town; abundant near the source of the stream, at the edge of the county.

This species decreases westwards of the Foyle, in a remarkable manner. It is frequent in Derry and Antrim.

First record; Admiral Jones, 1866 (*Cyb. Hib.*)

580. **S. setaceus** *Linn.*

Wet gravelly places and dug-out peat-bogs. Local. Fl. July to September.

I. and II. "Plentiful in the district of Inishowen," Dickie. Probably this should refer to *S. savii*, which is much commoner.

The present plant occurs about the signal tower at Malin Head, and elsewhere.

III. Fields and ditches near Croaghross, Fanet.

VIII. By the Eske; Lough Eske, etc.

581. **S. Savii** *Seb. and Maur.*

Marshy places in poor soil, chiefly near the coast. Frequent. Fl. July and August.

I. and II. Common in Inishowen.

III. Common in Fanet, and many other places round the coast.

IV. Tory Island, R.M. Barrington; Horn Head.

V. Mournebeg River.

VII. and VIII. Frequent.

582. **S. fluitans** *Linn.*

Ponds, ditches and pools in slow streams. Local. Fl. June to August.

I. Lough Naminn, Lough Inn, River Inn, etc.

III. Several Loughs in Fanet, as Lough Daragh; in a bog-hole at 300 feet above Carrablugh House.

IV. In a pond at Ards.

VII. Lakes between Pettigo and Ballyshannon.

583. **S. caespitosus** *Linn.*

Bogs, moors, and mountains. Common. Fl. May to July.

From 2300 feet to sea-level.

584. **S. pauciflorus** *Lightf.*

Wet, stony or sandy ground near lakes, or liable to be flooded in winter. Local. Fl. July, August.

I. Shores of Trawbreaga Bay, north of Carndonagh, and by the coast below Ballyliffin (very glaucous here).

III. Shores of Lough Golagh, Daragh, and Kindrum, Fanet; wet stony ground at the western end of Kinnylough, Fanet; sloblands below Carrigart, and near Rosapenna.

VI. Damp places amongst sandhills, north-west of Ardara.

VII. Lakes at Cavan Garden near Ballyshannon; about Ballyshannon in several places; shores of Lough Naveaghy, about seven miles north-west of Pettigo.

VIII. Shores of Lough Eske, east side; St. John's Point; by the coast between Donegal and Killymard.

**Blysmus** *Panz.*585. **B. rufus** *Panz.* WAHLB.

Salt marshes. Local. Fl. June to August.

I. Plentiful at the western end of Trawbreaga Bay on the south shore.

II. Side of the Foyle near Brookhall, Dr. Moore.

III. By Lough Swilly, close to Ramelton; Rosapenna to Carrigart.

IV. Abundant by Horn Head Bridge; coast below Creeslough; muddy estuary at Bedlam.

VI. By Kiltorris Lake, near Ardara; Gweebarra Estuary, below Doochary Bridge and above Russell's Ferry.

VII. Shores of Donegal Bay, at town of Donegal, *Flor. Ulst.*VIII. Shores at Donegal, abundant; Fintragh; Killybegs; Lough Head, near Killybegs; "shore at Glencolumbkille, and at Killybegs, A.G.M." *Cyb. Hib.*First record; Dr. Moore, 1864 (*Flor. Ulst.*)**Eriophorum** *Linn.* COTTON-SEDGE.586. **E. vaginatum** *Linn.*

Bogs, moors, and mountains. Common. Fl. April, May.

From 1450 feet to sea-level.

587. **E. polystachion** *Linn.*

Bogs and wet moors. Common. Fl. April, May.

From 2200 feet to sea-level.

588. **E. latifolium** *Hoppe.*

Marshy places. Very rare. Fl. May, July.

VI. Plentiful in low, rushy, coarse pasture near the sea, by Lough Sheskinmore, north-west of Ardara.

First record; Hart, 1886 (*Proc. R.I.A.*)**Rhynchospora** *Vahl.* BEAK-RUSH.589. **R. alba** *Vahl.*

Moors and bogs. Locally abundant. Fl. July, August.

Occurs abundantly wherever there are wide extents of wet moors, as about Glenveagh, The Rosses, between Pettigo and Donegal, Slieve League, East Inishowen, etc.

From 1000 feet to sea-level.

**Schoenus** *Linn.*590. **S. nigricans** *Linn.*

Wet moors and damp sandy ground near the sea. Frequent. Fl. June and July.

Occurs on many of the outer headlands in very exposed situations as well as inland in boggy places.

From 1100 feet to sea-level.

**Cladium** *R. Browne.* TWIG-RUSH.591. **C. Mariscus** *R. Br.*

Watery margins of lakes. Local. Fl. July, August.

I. Lough Naminn.

III. Kindrum and Lough Golagh, Fanet.

VI. By the Gweebarra, below Doochary Bridge; Mullagher Lake, Rosses.

VII. and VIII. Frequent. A very unusual locality occurs beside a lake in the Ballyshannon district at Carricknahorna. The *Cladium* grows here amongst blackthorn and other land plants in a hedge beside the lake. I have never seen it out of standing water or very wet mud elsewhere.

**Carex** *Linn.* SEDGE.592. **C. dioica** *Linn.*

Wet peaty places. Local. Fl. May to July.

I. Marshes at Malin Presbyterian Church, Dickie; on Bulbein Mountain.

III. Carrablagh, on banks by the sea; Bunlinn, near Milford, a mile above the bridge; Rosapenna.

IV. At the western base of Muckish; about five miles up the stream, running north to Bedlam.

VI. Marsh near Croaghbridd Lough, at the source of Owengarve River, Martin's Bridge, Glenties.

VII. Shores of Lough Gorman, between Cavan Garden and Brown Hall; shores of several other lakes in the same district; Lough Keenaghan, east of Belleek, on the borders of Fermanagh.

VIII. About the base of Slieve League; Lowerymore Glen, above Lough Eske; marsh at St. John's Point.

From 750 feet to sea-level.

593. **C. pulicaris** *Linn.*

Bogs and wet peaty pastures. Frequent. Fl. June, July.

I. Bulbein mountain, from 1000 feet to the summit; Crockaughrim, Culdaff, where it forms the sward at the shore, Dickie.

III. Carrablagh and Glenalla; Carradoan; shores of Lough Keel; the sod is composed of this at the Bin in Fanet; Rosapenna.

IV. Horn Head.

VII. and VIII. Not unfrequent.

From 1700 feet to sea-level.

594. **C. disticha** *Huds.*

Marshes, and by rivers and lakes. Local. Fl. June.

V. Port Lough, Bogay, west of Derry.

VII. and VIII. Frequent.

595. **C. arenaria** *Linn.*

Sandy sea shores. Common. Fl. May to July.

Omitting District V.

592. **C. teretiuscula** *Good.*

Boggy margins of lakes. Rare. Fl. June, July.

III. Fallaneass Lake, Fanet.

IV. By a small lake, between Marble Hill and Sesiagh Lough, near Dunfanaghy.

VI. By the Barra River, a little above Doochary Bridge.

VII. Shores of several lakes between Ballyshannon and Ballintra, Lake Gorman, etc; abundant in wet pasture lands, north of Ballyshannon; Lettercran, north-west of Pettigo.

First record; Hart, 1881 (*Jour. of Bot.*)

*Var. C. Ehrhartiana, Hoppe.*

III. Ballyshannagh bog, by the roadside, between Portsalon and Carrowkeel.

IV. At a small lake near Bedlam, about six miles north of Gweedore.

VII. By a small lake about three miles north of Ballyshannon.

First record; Hart, *Flora*.

597. **C. paniculata** *Linn.*

Spongy bogs and margins of lakes. Local. Fl. June, July.

II. In a large bog between Scalp and Slieve Snacht, J. Hunter.

III. By the Lennan, above Ramelton; Ballyshannagh bog between Portsalon and Carrowkeel.

IV. By the small lake near Dunfanaghy, with *C. teretiuscula*.

VII. and VIII. Not uncommon.

598. **C. vulpina** *Linn.*

Marshy places and ditches by the sea. Local. Fl. June, July.

I. Inishowen Head and Inishtrahull, Prof. Dickie; Culdaff, Mr. Hunter.

II. Between Inch Road and Burnfoot; Blanket Nook; Buncrana, Mr. Hunter; about Derry by the Foyle.

III. Shores of Lough Swilly at Rathmullan, Caraleena and Ramelton; wet places along the granite coast west of Fanet Lighthouse; plentiful on the west side of Lough Swilly from Letterkenny to Fort Stewart in various places.

V. By the Swilly below Manor Cunningham; Foyle above Derry.

VII. Wardtown, Ballyshannon.

VII. and VIII. Donegal Bay in various places.

599. **C. echinata** *Murr.* (*C. stellulata* *Good.*)

Bogs, wet peaty places and mountain pastures. Very common. Fl. June to July.

From 2150 feet to sea-level.

600. **C. remota** *Linn.*

Shady places in wooded districts. Local. Fl. June to July.

I. Malin Hall.

II. Farland Point and Blanket Nook; Inch and Burnfoot; Buncrana, J. Hunter.

III. Glenalla; Greenfort, Fanet; Carradoan; Fort Stewart.

IV. Doe Castle and Horn Head.

VII. and VIII. Frequent.

601. **C. Bæninghauseniana** *Weihe*.

Damp woods. Very rare. Fl. June, July.

VIII. By a sunken fence between The Hall and the sea wall, near Mt. Charles. The only Irish locality.

Probably a hybrid between *C. remota* and another which is supposed to be *C. paniculata*. But I failed to observe the latter anywhere in above locality. I hear this form has been discovered in Kerry in 1894.

First record; Hart, 1886 (*Proc. R.I.A.*)

602. **C. canescens** *Lim.*

Swamps and wet mountain slopes. Rare. Fl. June.

II. In a bog at the north side of the Railway at Gallagh Road, between Derry and Fahan; between Scalp and Slieve Snacht, J. Hunter.

III. Ballyshannagh Swamp by the roadside between Portsalon and Carrowkeel; Milford Lake.

III. and IV. Marshy ground at the south end of Lake Akibbon, and remarkably plentiful at the north-west end of the same lake adjoining Lake Gartan, near Churchill.

IV. Lower slopes of Muckish looking towards Calabber Bridge.

VII. Lettercran Lake about six miles north of Pettigo.

VIII. Near Killybegs, A.G. More; Brockagh Lake, near Killybegs.

First record; A.G. More, 1866 (*Cyb. Hib.*)

603. **C. ovalis** *Good*.

Pastures and meadows in mountain districts and in bogs. Not common. Fl June and July.

I. Wet meadows in Glentogher by the river.

II. Farland Point.

III. Bran Lough, Fanet; Glenalla; Thorn embankment by the Swilly, near Letterkenny; Church Hill; Lough Conny near Milford.

IV. Western base of Muckish; by the shore about half a mile west of Dunglow; below Falcarragh.

V. Castle Forward, near Bogay; by the Deel River; by the Finn at Killygordon.

VIII. By the Eske above Donegal.

604. **C. stricta** Good.

Boggy margins of lakes and rivers. Rare. Fl. June, July.

?III. and IV. North-western end of Lake Akibbon near Churchill

?IV. Near Dunfanaghy with *C. teretiuscula*. In this station as well as the last the specimens were withered.

VII. By the Erne River.

605. **C. acuta** Linn.

Margins of streams. Very rare. Fl. May, June.

V. Banks of the Finn, Admiral Jones (*Cyb. Hib.*) This was probably a mistake for *C. aquatilis*.

VIII. Riverside at Glencolumbkille, *Flor. Ulst.* Not seen there by me.

VII. Bundrowes River, above Bundoran; by a small lake close to the Ballyshannon and Belleek Railway; by the Lowerymore River, in the Glen 1½ miles above Lough Eske; by the Eske River. These specimens were gathered in June, 1893, and named for me by Mr Bennett. I am doubtful about the other records. All those I have found were on the limestone.

First certain record; Hart, *Flora*.

*C. acuta* var. *prolixa* Fr.

VII. By the Erne River on the right bank below Cliff. A large and handsome sedge. Named by Mr. Bennett. Mr. Bennett remarks that no European sedge varies in glumes more than *acuta*. This form is most distinct.

606. **C. rigida** Good.

Wet places in alpine situations on mountains. Very local. Fl. June, July.

I. Bulbein Mt. "This scarce *Carex* is to be met with on Bulbein, Inishowen, flowering in June, Mr. Browne." Wade, *Plantæ Rariores*, 1804.

III. About a hundred yards north-east of the highest point of Knockalla in Fanet, at 1200 feet.

IV. Slieve Snacht West, 1500 to 2100 feet; Errigal; 1700 to 2000 feet on Muckish; Slieve Snacht Beg (west).

VI. Aghla Mountain, above Lough Finn.

VIII. Slieve League, summit to 1400 feet; Slieve-a-Tooney; Alt Mountain, near Ardara; Lavaghmore, 2000 to 2200 feet; Croaghnacarkfree near Martin's Bridge, Glenties. (See under *Lycopodium alpinum*.)

From 2400 to 1000 feet above sea-level.

First record; R. Brown, 1804 (*Wade, Plantæ Rariores*).

607. **C. aquatilis** *Wahl.*

Margins of rivers. Very rare. Fl. June, July.

VI. Doocharry Bridge, Gweebarra. Occurs with the Var. *virescens*. Mr. Bennett writes "glumes too pointed for Var. *virescens*." On both margins of the Gweebarra.

*Var. Watsoni, Syme.*

V. By the River Finn in several places, as, half way between Stranorlar and Killygordon, and close to Killygordon, near Castlefinn.

*Var. virescens, Anderson.*

VI. By the Barra River immediately above Doocharry Bridge, plentiful; by the River Finn, right bank above Clady.

Always growing *in* the water.

Mr. Bennett writes that the Gweebarra plant is a variety he has seen only from Perth in Great Britain.

First record; Hart, 1885 (*Proc. R.I.A.*)

608. **C. Goodenovii** *Gay.* *C. vulgaris, Fries.*

Marshy and boggy places and margins of streams. Very common. Fl. May to July.

From 1100 feet to sea-level.

*Var. juncella, Fr.*

III. Milford Lake.

VII. Near Ballyshannon.

VIII. Mountains near Martin's Bridge, Glenties.

609. **C. glauca** *Murr.*

Pastures, heaths and wet places. Common. Fl. May, June.

610. **C. limosa** *Linn.*

Spongy bogs and margins of lakes. Local. Fl. June, July.

[I. "Gap of Urris," Mr. C. Moore. This may refer to Mamore Gap in Erris Mts, but I failed to find the sedge there.]

III. Rinboy Lake, Fanet; in a marshy spot a little west of Lough Doira, Fanet; upper end of Glenlough.

III. and IV. By the stream between Lakes Akibbon and Gartan, and elsewhere round Lake Akibbon near Churchill.

IV. Lake Inshagh between Churchill and Glenveagh; by the Ray River about five miles down from Muckish Gap; marshes at the source of the Bedlam River.

V. Lough Napaste, south-east from Barnesmore Gap. The divisional line of V. and VII. passes through this little tarn. As usual *C. limosa* is here accompanied by *C. filiformis*. This lake is 1100 feet above sea-level. I have never seen either sedge nearly as high. Watson's highest record is Tyne, 200 yards for both. Marshy ground between Lough Mourne and River Mournebeg.

VII. Marsh on the east side of Bulbein Mountain, near Ballyshannon; Lake Unshin; bogs at Cliff, Erne River.

VIII. Bog-holes between Glen and Carrick on both sides of the road; lakes near Killybegs; lake by the roadside south of Binbane between Donegal and Glenties.

From 1100 feet at Lough Napaste (Barnesmore Gap) to sea-level.

First record; 1864. (*Flor. Ulst.*)

611. **C. pilulifera** *Linn.*

Dry stony places on moors and mountains. Not common. Fl. May to July.

I. Bulbein Mt.

II. Hills above Fahan.

IV. Muckish.

III. Glenalla; Churchill; Rosapenna.

VII. and VIII. Frequent.

From 2200 feet to sea-level.

612. **C. præcox** *Jacq.*

Dry pastures and heaths. Frequent. Fl. April to June.

From 1300 feet to sea-level.

613. **C. pallescens** *Lam.*

Marshy places and wet banks in mountainous woods, thickets and glens. Rather rare. Fl, June to July.

III. Glenalla; Between Waters, Fanet; thickets on the east side of Lake Akibbon, Churchill; by the Lennan, below Lough Gartan; thickets above the sea at Carrablagh; Cottian Wood, Kilmacrenan.

IV. Thickets along Faymore river, on north side of Muckish.

V. Castleforward Deer Park, west of Derry.

VI. South side of Gweebarra Estuary, a little above Russell's Ferry; and above Doocharry.

VII. By the Termon river, above Pettigo, in meadows, abundant; Wardtown, Ballyshannon and elsewhere north of Ballyshannon; Lettercran, north-west of Pettigo.

VIII. Above Ardnamona, Lough Eske; by the Eske River, in several places.

614. **C. panicea** *Linn.*

Wet places, especially on mountains. Frequent. Fl. May to July.

From 1200 feet to sea-level.

615. **C. pendula** *Huds.*

Damp woods and borders of streams. Very rare. Fl. June.

VIII. Right bank of the Eske River, three-quarters of a mile above Donegal; left bank of Eanymore Water, above Drumagraa Bridge.

First record; Hart, 1885 (*Proc. R.I.A.*)

616. **C. strigosa** *Huds.*

Damp woods. Very rare. Fl. June.

IV. Ards? My specimens were too far advanced for determination (July, 1889).

VII. In thickets on an island in the Erne River, immediately below Cliff.

VIII. Abundant at The Hall, Mount Charles; near the town of Donegal, between it and Mount Charles, Prof. Dickie.

First record; Prof. Dickie, 1864 (*Flor. Ulst.*)

617. **C. sylvatica** *Huds.*

Woods and shady places. Frequent. Fl. May to July.

I. Carndonagh.

II. Kilderry.

III. Glenalla; Greenfort, Fanet; Carradoan; Fort Stewart.

IV. Doe Castle.

V. Convoy.

VII. and VIII. Frequent along the rivers.

618. **C. lævigata** *Sm.*

Wet thickets, borders of woods and marshes. Scarce. Fl. June, July

III. Leatbeg, Fanet.

VII. Thickets by the Erne River.

VIII. Woods about Lough Eske Castle, abundant; in a wet hedge near Killybegs, A.G. More (*Cyb. Hib.*)

First record; A.G. More, 1872 (*Cyb. Hib.*)

619. **C. binervis** *Sm.*

Heaths, moors and mountains. Common. Fl. June, July.

From 2000 feet to sea-level.

620. **C. distans** *Linn.*

Wet places near the shore, specially by estuaries and lochs. Frequent. Fl. June and July.

I. Inishowen Head and Inishtrahull, Dickie; Greencastle, Glengad head, Malin Head.

II. Inch Road and Burnfoot.

III. Shore at Ramelton.

IV. Shore below Horn Head House and elsewhere on the Head; Burton Port; Aranmore; Ards; Breaghy Head; Falcarragh.

VI. Gweebarra, below Doocharry Bridge and to Russell's Ferry.

VII. and VIII. Frequent.

621. **C. fulva** *Good. C. Hornschuchiana, Hoppe.*

Wet moors in hilly districts and spongy bogs at the base of mountains. Local. Fl. May, July.

I. Abundant in Inishowen, Dickie.

III. Wet slopes a little inland from Drimnacraig Bay in a south-westerly direction, Fanet; by the Lennan River at Gartan; Rosapenna.

IV. Muckish, *Flor. Ulst*; at the western base of Muckish.

VI. Below Doocharry Bridge, Gweebarra, on the north side

VII. Cavan Garden lakes, north of Ballyshannon; Brown Hall; by the Erne.

VIII. By the Eske River; Slieve League; marsh at St. John's Pt.

622. **C. *extensa*** *Good.*

Salt marshes. Local. Fl. June.

I. Culmore, by the Foyle, Dickie.

II. Very sparingly near the signal tower, Malin Head.

III. Ramelton to Aughnish Island; Rosapenna.

IV. Dunfanaghy, C. Moore, *Cyb. Hib*; Ards; Horn Head, near the House; Aranmore to the north of the harbour at Leabgarrow.

VI. Gweebarra, below Doocharry Bridge, and to Russell's Ferry.

VII. and VIII. Frequent.

623. **C. *flava*** *Linn.*

Wet moors, lake margins, and marshy places. Frequent. Fl. May to July.

Especially common in Districts VII. and VIII, and occurs chiefly in swamps around lakes.

624. **C. *Æderi*** *Ehrh.*

Margins of lakes, stony dug-out bogs, and exposed pastures near the sea. Common. Fl. June, July.

From 2000 feet to sea-level.

625. **C. *filiformis*** *Linn.*

Shaky bogs and margins of mountain lakes at low levels. Very local. Fl. May to July.

III. With *C. limosa* at the Drumnacraig Lakes, Doira and Golagh, in Fanet; upper end of Glen Lough.

III. and IV. Various places about Lake Akibbon, near Churchill.

IV. Lake Unshagh, between Churchill and Glenveagh, and in the stream out of the lake; Gweedore (Crawley) River, on IV. and VI. boundary.

V. Lough Napaste, south-east from the summit of Barnesmore at

1100 feet. See remarks under *C. limosa*. A record elevation for this sedge.

VI. Stream from Sheskinmore Lake, north west of Ardara; by the Barra River, below Lough Barra; River Crawley (or Gweedore River), on IV. and VI. Boundary

VII. Laree Lake, Lough Unshin and Lough Golagh, west of Ballyshannon; lakes north of Cavan Garden; Lough Avehy, near Pettigo; lake near Cliff, Belleek; Lettercran, north-west of Pettigo.

VIII. West side of Lough Eske, abundant in two places; south-east corner of Lough Eske; Cunlin Lake, near Killybegs; Lowerymore Glen, above Lough Eske; lake by the roadside, south of Binbane, between Donegal and Glenties.

From 1100 feet (Lough Napaste, Barnesmore) to sea-level.

First record; A.G. More, 1866 (*Cyb. Hib.*)

626. **C. hirta** *Linn.*

Wet pastures in a poor soil, and marshes. Rather rare. Fl. June, July.

III. Glenalla; Rosapenna.

IV. Glenveagh.

V. By the Swilly, near Manor Cunningham.

VII. Ballyshannon to Bundoran, by the railway, etc; Termon River, above Pettigo.

VIII. River Eske; Ardnamona, Lough Eske.

627. **C. riparia** *Curt.*

Deep dykes near the sea. Very rare. Fl. May, June.

VII. By the stream at Bunlin Bar, along the coast between Donegal and Ballyshannon – the locality is a little north of Carrickfad, in a deep ditch; ditches at Wardtown, west of Ballyshannon.

VIII. Marsh at St. John's Point.

First record; Hart, 1885 (*Proc. R.I.A.*)

Of the specimens from Wardtown, Mr Bennett writes that they are decidedly off type. The plant is very distinct in habit from the southern *C. riparia*, being smaller and stouter. Mr. Bennett considers it "approaches American *C. Watsoni*, *Olney*; the fruit has, however, a tendency to be hairy. It cannot be referred either to *orthostachys*, C.A. Meyer, nor *evoluta*, Hartm."

628. **C. ampullacea** Good. *C. rostrata* Stokes.

Marshes, ditches and borders of lakes and rivers. Very common. Fl. May to July.

A remarkably broad-leaved variety, very flaccid in habit, occurs in still deep bog-drains out of Lake Akibbon, Churchill. The present species is a very important agent in the economy of nature. Its power in overgrowing and choking up shallow mountain lakes, and in diminishing the size of deep ones, is very great. Within my own observation some small lakes have almost ceased to exist from this cause.

From 1500 feet to sea-level.

629. **C. vesicaria** Linn.

Margins of lakes and rivers. Rare. Fl. May to July.

III. By the Lennan River, out of Lough Fern.

VII. Left bank of River Erne, above Belleek; Brown Hall; Termon River, Pettigo.

First record; Hart, 1885 (*Proc. R.I.A.*)

## Gramineæ

**Phalaris** Linn.

630. **P. arundinacea** Linn. REED GRASS.

Ditches and sides of rivers and lakes. Frequent. Fl. June, July.

[*P. canariense* occurs as an outcast occasionally, as at Greencastle in Inishowen.]

**Anthoxanthum** Linn.

631. **A. odoratum** Linn. SWEET VERNAL GRASS.

Fields, heaths, mountains and woods. Common. Fl. May to July.

From 1400 feet to sea-level.

**Alopecurus** Linn. FOX-TAIL.

632. † **A. pratensis** Linn.

Colonist? Pastures, banks and meadows. Local. Fl. June, July.

I. and II. Not infrequent.

III. Glenalla; Greenfort, Fanet.

VII. Belleek; Lettercran, north-west of Pettigo.

Not unfrequent as a meadow-grass, but rarely, if ever, established

except in the best cultivated districts. I have not many notes of the occurrence of this species having till lately been under the impression it was much commoner than it is.

633. **A. geniculatus** *Linn.*

Marshes, ditches and wet places. Not uncommon. Fl. June, July.

I. Malin Head in several places.

II. Blanket Nook; Buncrana, J. Hunter.

III. Wet places on Ballyvicstocker and Bottom Shore, Fanet; not rare in Fanet; River Lennan above Ramelton; Lough Swilly from Fort Stewart to Letterkenny.

IV. Tory Island, R.M. Barrington.

V. Shores of the Swilly from Pluck upwards; by the Foyle above Derry; by the Finn below Castlefinn.

VII. By the Erne.

VIII. Lake Unshagh, near Carrick.

**Milium** *Linn.* MILLET.

634. **M. effusum** *Linn.*

Woods. Very rare. Fl. June, July.

VIII. Ardnamona Wood, Lough Eske; left bank of Eanymore Water, above Drumagraa Bridge.

First record; Hart, 1885 (*Proc. R.I.A.*)

**Phleum** *Linn.* CAT'S-TAIL. TIMOTHY.

635. † **P. pratense** *Linn.*

Meadows and pastures. Rare. Fl. June, July.

III. Glenalla.

V. By the Finn a little below Castlefinn Bridge.

VII. By the Termon River above Pettigo; and below Pettigo.

636. **P. arenarium** *Linn.*

Sandhills along the coast. Local. Fl. June, July.

I. Between Greencastle and Inishowen Head; west end of Trabreaga Bay.

II. Between Buncrana and Fahan, J. Hunter.

III. Melmore Head and elsewhere in Rossgull; Doaghmore and

Glinsk, Between Waters and Ballyvicstocker, Fanet; Carrigart sandhills; Macamish Pt, Lough Swilly.

IV. Abundant on sandhills at Dunfanaghy, *Flor. Ulst.*; Tramore Strand.

VI. Sandhills north-west of Ardara.

VII. Between Ballyshannon and Bundoran.

VIII. Glen Bay.

**Agrostis** *Linn.* BENT.

637. **A. canina** *Linn.*

Moors and heaths. Frequent. Fl. July, August.

638. **A. vulgaris** *With.*

Fields, dry pastures, banks and heaths. Common. Fl. June to August.

From 2460 feet to sea-level. A summit plant.

639. **A. alba** *Linn.* FIORIN.

Wet waste places and pastures, especially along the coast. Common. Fl. July.

From 1000 feet to sea-level.

This is a most valuable grass in poor wet lands, with a peculiar method of culture.

**Ammophila** *Host.* MARRAM GRASS.

640. **A. arundinacea** *Host.* (*Psamma arenaria*, *R. et.*)

Sandhills on the coast. Common. Fl. July to August.

Much planted to bind the sand, and no doubt on this account much commoner than it would naturally be.

**Aira** *Linn.*

641. **A. caryophyllea** *Linn.*

Dry places on a light soil, tops of walls and banks. Frequent. Fl. June, July.

642. **A. præcox** *Linn.*

Heaths, banks and bare places. Frequent. Fl. May, June.

**Deschampsia** *Beauv.*644. **D. flexuosa** *Linn.*

Moors and mountains. Common. Fl. July, August.

From 2400 feet to sea-level. A summit plant.

645. **D. caespitosa** *Linn.*

Woods, glens and damp meadows. Frequent. Fl. July and August.

From 1100 feet to sea-level.

**Holcus** *Linn.* SOFT GRASS.646. **H. lanatus** *Linn.*

Waste ground, meadows and banks. Very common. Fl. June-July.

647. **H. mollis** *Linn.*

Thickets, pastures and borders of woods. Very local.

?III. Pasturage amongst copses by the River Lennan about a mile below Churchill, sparingly and casual here.

VI. Owentogher River above Ardara.

VII. By the Moyne River, at Moynalt, about three miles above Laghy.

VIII. Abundant on the banks of the Owentogher River for some miles above Ardara in several places.

Only plentiful and constant by the Owentogher River.

First record (satisfactory); Hart, *Flora*.**Trisetum** *Pers.*648. **T. flavescens** *Beauv.* YELLOW OAT-GRASS.

Dry banks and pastures. Very local and rare. Fl. June, July.

VII. Plentiful along the Railway banks of Ballyshannon and Bundoran Railway; meadows at Camlin by the Erne; roadside near Ballyshannon on the way to Belleek; plentiful on banks by the sea at Bundoran and in grass lands.

First record; Hart, *Flora*.

**Avena** *Linn.* WILD OAT.649. **A. pubescens** *Linn.*

Dry banks. Very rare. Fl. June, July.

I. Coast at Inishowen Head, G.D, *Flora Ulster*.

VIII. Near Killybegs, A.G. More.

First record; G. Dickie, *Flora Ulst*, 1864.

The locality in the Flora of Ulster for *Avena pratensis*, "coasts near Culdaff, Co. Donegal" is omitted, the authority (G.D.) having considered it uncertain. It is not in the least likely to occur in Donegal.

**Arrhenatherum** *Beauv.*650. **A. avenaceum** *Beauv.* FALSE OAT.

Borders of fields and cultivated land. Very common. Fl. June to August.

One of the worst weeds in ploughed land and only to be destroyed by fire. It is known as "pearl" from the shining tuberous or knotted rootstock.

**Triodia** *R.Br.* HEATH-GRASS.651. **T. decumbens** *Beauv.*

Heaths and dry mountainous pastures, frequent. Fl. June to August.

I. and II. Forms the sod in many very exposed places at Malin Head and elsewhere on the Inishowen coast.

III. Kindrum and Carrablagh, Ballyvicstocker, etc; frequent in Fanet. Forming the sod by the coast of Fanet in exposed outer headlands.

IV. Horn Head; Tory Ireland, R.M. Barrington.

VI, VII. and VIII. Frequent.

From 1800 feet to sea-level.

**Phragmites** *Trin.*652. **P. communis** *Trin.* REED.

Margins of lakes, ditches and wet sandy ground. Common. Fl. July, August.

From 800 feet to sea-level.

**Sesleria** *Scop.*653. **S. cærulea** *Scop.*

Limestone pastures. Locally abundant. Fl. April to June.

VII. Rocks on the south side of the inlet below Ballyshannon; on limestone hills between Ballyshannon and Bundoran, and from Ballyshannon to Cavan Garden, abundant; about Lough Gorman and thence to Brown Hall; banks by the sea a little north of Bundoran; by the Termon River, a little above Pettigo; on the banks of the Erne at Ballyshannon, A.G. More (*Cyb. Hib.*); limestone west of Brown Hall and near Ballintra, all the grass in many places here is *Sesleria*.

VIII. St. John's Point and on the promontory leading to it, plentiful; by the Eanymore Water in several places, reaching up to the skirts of the Bluestack Mountains, but at no great elevation; south-east shore of Lough Eske, abundant.

Always on limestone.

First record; A.G. More, 1866 (*Cyb. Hib.*)**Cynosurus** *Linn.* DOG'S-TAIL.654. **C. cristatus** *Linn.*

Meadows and pastures, common. Fl. July and August.

**Koeleria** *Pers.*655. **K. cristata** *Pers.*

Dry pastures and banks near the sea, and on mountains. Local. Fl. June, July.

I. Dunaff Head; Inishowen Head, Dickie; Dunargas, on the west side of Malin Head.

II. Lough Swilly shores, in several places, J. Hunter.

III. Bottom Shore, Carrablagh, Kindrum and Glinsk in Fanet.

IV. Ballyness Bay; Gweedore Estuary.

VI. Kincashla.

VIII. Inver Bay; Slieve League, in many places.

From 1500 feet to sea-level.

**Molinia** *Schrank.* MOOR-GRASS.656. **M. cærulea** *Moench.*

Wet, peaty places, and on the mountains. Common. Fl. July and August.

From 1700 feet to sea-level.

**Catabrosa** *Beauv.*657. **C. aquatica** *Beauv.*

Ditches and watery places. Local. Fl. June, July. Increasing to the westwards.

I. Marshes, a little east of Culdaff, Dickie; west of Malin, by the estuary.

II. By the Foyle embankment, below Kilderry; about Buncrana, J. Hunter.

III. Doaghmore Strand, near Glinsk, and by Lough Trusnahan, Fanet; by the shore, north-west of Rosapenna.

IV. Shores of Doagh estuary, near Creeslough; ditches at Bedlam; frequent on the Bloody Foreland, and on Aranmore.

VI. Wet places amongst the sandhills north-east of Ardara.

**Melica** *Linn.* MELICK.658. **M. uniflora** *Retz.*

Shady banks and rocks in woods and glens. Rather scarce. Fl. June, July.

III. Bunlinn, at the Waterfalls; by the Lennan, at an old mill, above Kilmacrenan; Ards; woods at Daisyknowe Island, between Ray and Ramelton; woods between Ray and Rathmullan; Cottian Wood, near Kilmacrenan.

IV. Woods at Doagh Castle.

VI. South side of the Gweebarra River, a little above Russell's Ferry.

VII. By the Erne and Letter Rivers; Brown Hall; thickets by Waterfoot River, near Pettigo, and close to Lough Erne.

VIII. By the River Eske.

**Dactylis** *Linn.* COCKSFOOT.659. **D. glomerata** *Linn.*

Meadows, pastures and banks. Common. Fl. June and July.

**Briza** *Linn.*

660. **B. media** *Linn.* QUAKING GRASS.

Damp meadows. Local. Fl. June, July.

III. Glenalla; Fort Stewart; Carrablagh; Fort Royal, Rathmullan and about Ramelton.

VII. Common on all the meadow and grass lands, on limestone in this district.

VIII. Left bank of Eske River.

**Poa** *Linn.* MEADOW-GRASS.

661. **P. annua** *Linn.*

Pastures and waste places. Very common. Fl. March to November.

From 1600 feet to sea-level.

662. **P. pratensis** *Linn.*

Pastures, meadows and waste places. Very common. Fl. June to August.

*Var. subcærulea, Sm.*

Walls of Derry; sands at Drimnacraig and the Bottom in Fanet; west end of Trawbreaga Bay, Carndonagh, on sands; Carrigart sands; Ballyness Bay, north of Gweedore.

From 1600 feet to sea-level (*P. pratensis*.)

663. **P. trivialis** *Linn.*

Pastures, meadows and waste places. Common. Fl. June, July.

664. ‡ **P. compressa** *Linn.*

Dry places. Very rare.

II. Walls of Derry (*Cyb. Hib.*)

I have not been able to rediscover this plant, which was gathered on the walls of Derry by Dr. David Moore. The only unusual *Poa* that came under my notice was *pratensis* *var. subcærulea*.

**Glyceria** *R. Br.*

665. **G. fluitans** *R. Br.* FLOATING GRASS.

Ditches, pools and borders of streams. Common. Fl. June to August.

From 1350 feet to sea-level.