

Why Do Plant Names Change?

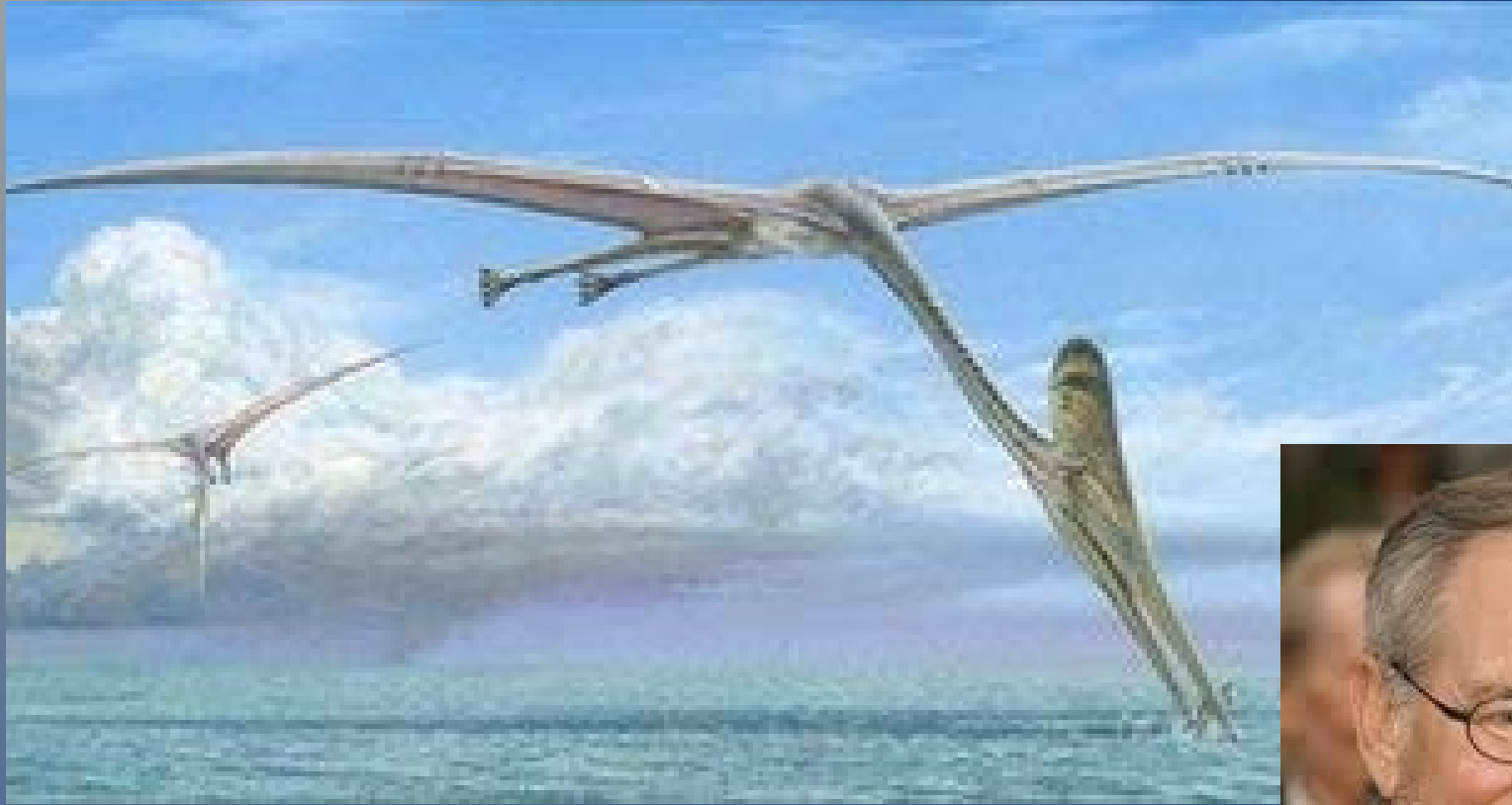
An introduction to taxonomy and nomenclature.

OR

How to give yourself a headache without even trying.



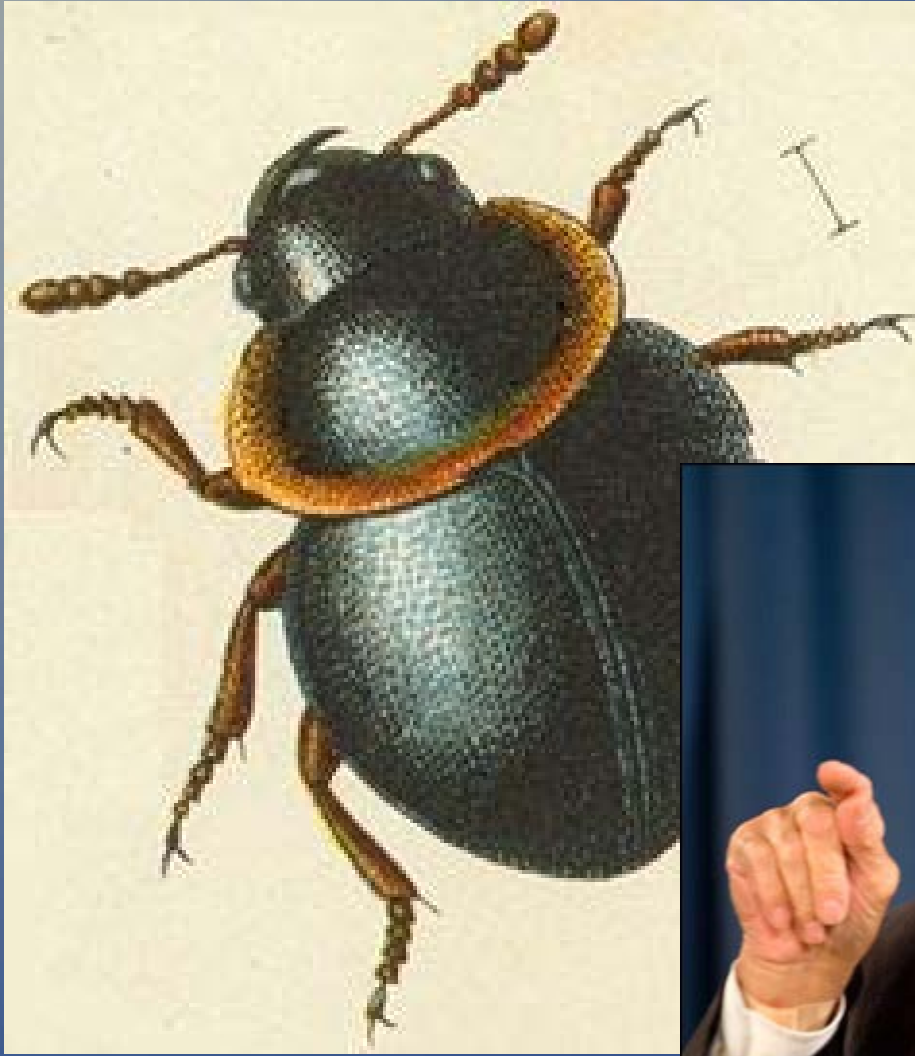
Bufonaria borisbeckeri



Coloborhynchus spielbergii



Scaptia beyonceae



Agathidium bushi,
A. rumsfeldi, E. cheneyi



Dypsis mcdonaldiana





Linnaea borealis - Twinflower

saepe in parte inferiore calyces fructiferos solum gerens. Flores sessilibus. Calyx glaber vel setulis minutis obsitus, fructifer non accretus. Corolla 6—10 mm longa, labio superiore bilobo, lobis denticulatis, rarius bilobis, labio inferiore trilobo, lobis emarginatis. Corolla plerumque pallide violacea macula flava in labio inferiore et striis coeruleis vel purpureis notata, rarius coerulea vel albida. Capsula cuneato-obovata, angusta, truncata vel subemarginata, calycis dentes non superans, margine longe ciliata caeterum pilosa vel glabrata.

Synonyme: *E. officinalis* β . *cucullata* Wahlenb. Flor. Carp. p. 134 (1814) z. T.

E. officinalis β . *montana* β . *cucullata* Fries Novit. Flor. Succ. ed. 2. p. 198 (1828) z. T.

E. rigida Lasch in Linnaea 1829. p. 405. resp. *E. officinalis* var. *rigida* a. a. O. — Harz in Bot. Centralbl. XLV. Bd. 3. 136 (1891).

E. officinalis α . *glabrata* Schlechtend. Flor. Berol. I. p. 331 (1823) z. T.

E. officinalis β . *parviflora* Wallr. Sched. crit. d. pl. Fl. Hal. p. 320 (1822) z. T.

E. nemorosa β . *intermedia*, α . *vulgaris* et β . *alpestris* Soyer Willemet Sur l'*Euphrasia offic.* et les espèces vois. p. 28 (Mém. d. l. soc. roy. d. sc. de Nancy 1833/34).

E. officinalis Hayne Arzneigew. IX. t. 8. (1823). — Willd. Spec. plant. III. p. 193 (1800) z. T. — Cassebeer et Theobald, Flora d. Wetterau S. 153 (1849). — Löhr, Flora v. Coblenz S. 127 (1838). — Nyman, Sylloge p. 127 (1854/55) z. T. — ?Lange, Handb. i d. Danske Fl. p. 466 (1864). — Willkomm et Lange, Prodr. Fl. Hisp. II. p. 618 (1870) z. T.

E. nemorosa Reichb. Flor. excurs. p. 358 (1830/32) excl. β . z. T. — Godron, Fl. d. Lorraine 2. éd. II. p. 89 (1861). — Schur, Enum. Fl. Transs. p. 509 (1866) z. T. — ?Rabenhorst, Fl. v. Sachs. S. 182 (1859) excl. b. — Karsten, Deutsche Flora S. 939 (1880/83). — Fiek, Fl. v. Schles. S. 339 (1881) z. T. — Kirchner, Flora v. Stuttgart S. 603 (1888) z. T. — Potonié, Ill. Fl. v. Deutschl. S. 455 (1889) z. T. — Beck, Flora v. Nied.-Öst. II. S. 1061 (1893).

E. officinalis β . resp. b. *nemorosa* Koch Synops. Flor. Germ. et Helv. ed. I. p. 545 (1837) z. grösst. T. — Maly, Enum. plant. phan. Austr. p. 207 (1848) z. T. — Döll, Rheinische Flora S. 336 (1843) z. T. — Hartman, Handb. i Skandinav. Flora p. 67 (1861) z. T. — Maly, Flora von Steierm. S. 147 (1868). — Murmann, Beitr. z. Pflanzengeogr. v. Steierm. S. 145 (1874). — Sauter, Flora v. Salz. S. 112 (1868), 2. Aufl. S. 85 (1879). — Hinterhuber und Pichlmayer, Prodr. e. Fl. v. Salz. 2. Aufl. S. 155 (1879). — Willkomm, Führer in d. Reich d. d. Pfl. S. 425 (1863). — Duftschmid, Flora v. Ob.-Öst. III. S. 179 (1883). — Neilreich, Flora v. N.-Öst. S. 563

(1859) z. T. — Ascherson, Flora v. Brandenb. S. 490 (1864) z. T. — Nöldeke, Flora v. Lüneburg S. 287 (1890). — Wartmann und Schlatter, Krit. Übers. d. Gef. Pfl. d. Kant. St. Gallen S. 324 (1881/88). — Brittinger, Flora v. Ob.-Österr. S. 89 d. S. A. (1862). — Pacher und Jabornegg, Fl. v. Kärnth. II. Abth. S. 307 (1884) z. Th. — Čelakovský, Prodr. S. 337 (1867).

E. officinalis γ . *nemorosa* Koch in Röhl. Deutschl. Flora IV. S. 349 (1833) z. grösst. T. — Rohrer et Mayer, Vorarb. z. e. Fl. d. mähr. Gouv. S. 136 (1835). — Hausmann, Flora v. Tirol II. S. 665 (1852).

E. officinalis δ . *nemorosa* Reichenb. Icon. Fl. Germ. et Helv. XX. p. 58 (1862).

E. officinalis, var. *nemorosa* Woerlein Fl. d. Münchner Thalebene. S. 117 (1894).

E. officinalis c. *nemorosa* Dietrich, Flor. Borus. II. p. 91 (1834) z. T. — Garcke, Fl. v. Deutschl. 16. Aufl. S. 336 (1890) excl. *micr.*

E. officinalis b. *nemorosa grandiflora* Beckhaus Fl. v. Westf. S. 672 (1893).

E. officinalis β . *nemorosa* 2. *imbricata* et 4. *curta* Prahl Krit. Fl. v. Schlesw.-Holst. II. S. 162 (1890) sec. spec. orig.

E. nemorosa α . *grandiflora* Aclouque Fl. d. Fr. p. 495 (1894).

E. micrantha Schur Enum. plant. Transs. p. 509 (1866) z. T.

E. officinalis β . *grandiflora* Reichenb. Fl. Germ. exc. p. 358 (1830/32).

E. officinalis 2. *stricta* Dolliner Enum. plant. phan. Austr. p. 97 (1842).

E. officinalis α . *stricta* Borbás Budap. es Kornyekeken növen. (1879).

E. officinalis γ . *vulgaris* Benth. in DC. Prodr. X. p. 552 (1846) z. T.

E. officinalis var. β . Presl Flora cech. p. 129 (1819).

E. coerulea Gremlí Neue Beitr. z. Fl. d. Schw. I. S. 18 (1880).

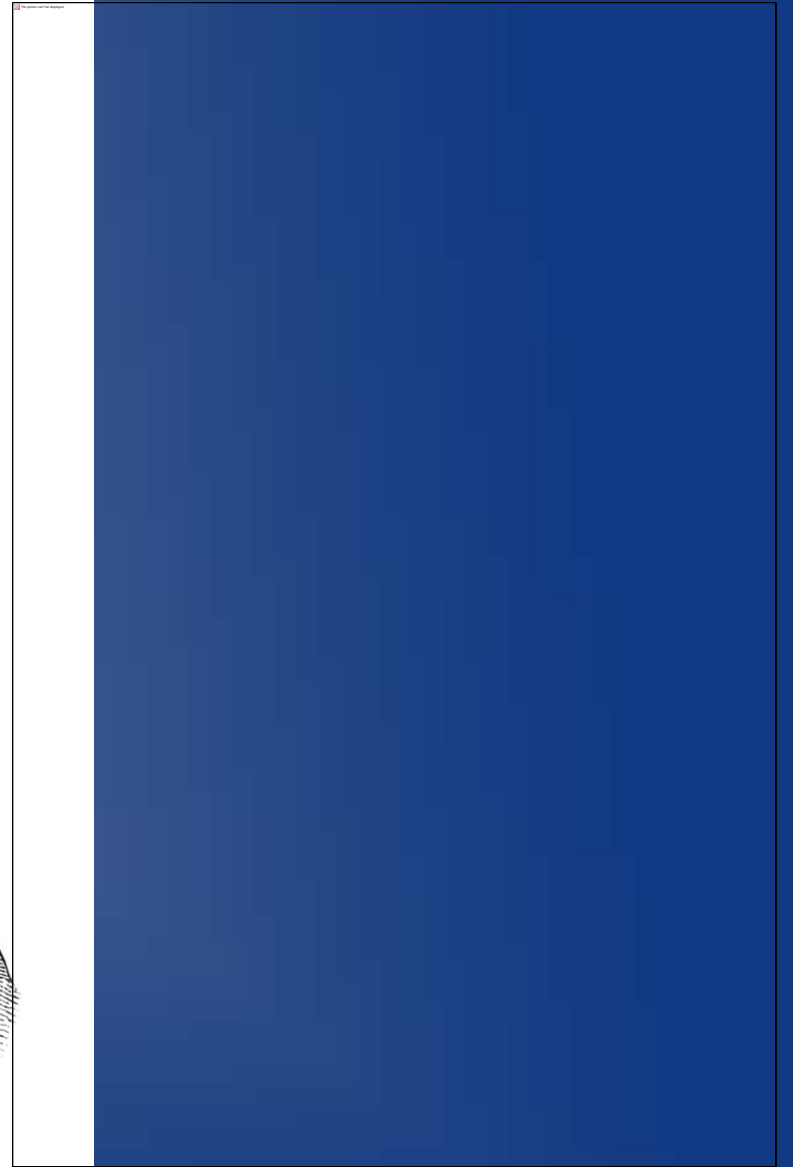
E. ericetorum Jordan in Reuter Compt. rend. d. l. soc. Haller. 1854/56. p. 120 et Catal. d. pl. vase. d. Gen. 2. éd. p. 168 (1861) et in Boreau Flor. d. centr. d. l. Fr. éd. 3. II. p. 494 (1857). — Gremlí, Excursionsfl. f. d. Schw. 7. Aufl. S. 320 (1893) excl. b. — Grenier, Flor. Jurass. p. 567 (1865).

E. rigidula Jord. Pug. plant. nov. p. 134 (1852).

E. condensata Jord. I. c. p. 135.

E. cuspidata Saint-Lager in Ann. d. l. soc. bot. de Lyon VII. p. 126 (1878/79).

E. stricta A. Kerner Veget. Verh. S. 375 (1875) z. T. — A. Kerner, Schedae ad Flor. exs. Austr.-Hung. I. p. 41 (1881). — Oborny, Flora v. Mähren u. Schles. I. S. 432 (1881) excl. β . — Halácsy u. Braun, Nachtr. z. Fl. v. N.-Öst. S. 112 (1882). — Beck, Flora v. Hernstein S. 240 (1884). — Flora v. Südbosn. etc. S. 140 (1887). — Simonkai, Enum. Flor. Trans. p. 432 (1886). — Sagorski in D. bot. Monatsschr. 1889 S. 6 z. T. — Freyn in Verh. zool. bot. Ges. XXXVIII. Abh. S. 623 (1888). — Fritsch in Verh. zool. bot. Ges.



Bo I International Congress of Botany. 3rd, Brussels, 1910.

RÈGLES INTERNATIONALES DE LA NOMENCLATURE BOTANIQUE

ADOPTÉES PAR LE
CONGRÈS INTERNATIONAL DE BOTANIQUE DE VIENNE 1905

DEUXIÈME ÉDITION MISE AU POINT D'APRÈS LES
DÉCISIONS DU CONGRÈS INTERNATIONAL DE
BOTANIQUE DE BRUXELLES 1910

PUBLIÉE AU NOM DE LA COMMISSION DE RÉDACTION DU CONGRÈS

PAR
JOHN BRIQUET
RAPPORTEUR GÉNÉRAL

INTERNATIONAL RULES OF BOTANICAL NOMENCLATURE

ADOPTED BY THE INTERNATIONAL BOTANICAL CONGRESSES
OF VIENNA 1905 AND BRUSSELS 1910

INTERNATIONALE REGELN DER BOTANISCHEN NOMENCLATUR

ANGENOMMEN VON DEN INTERNATIONALEN BOTANISCHEN KONGRESSEN
ZU WIEN 1905 UND BRÜSSEL 1910



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INTERNATIONAL CODE OF NOMENCLATURE FOR ALGAE, FUNGI, AND PLANTS (SHENZHEN CODE)

2018

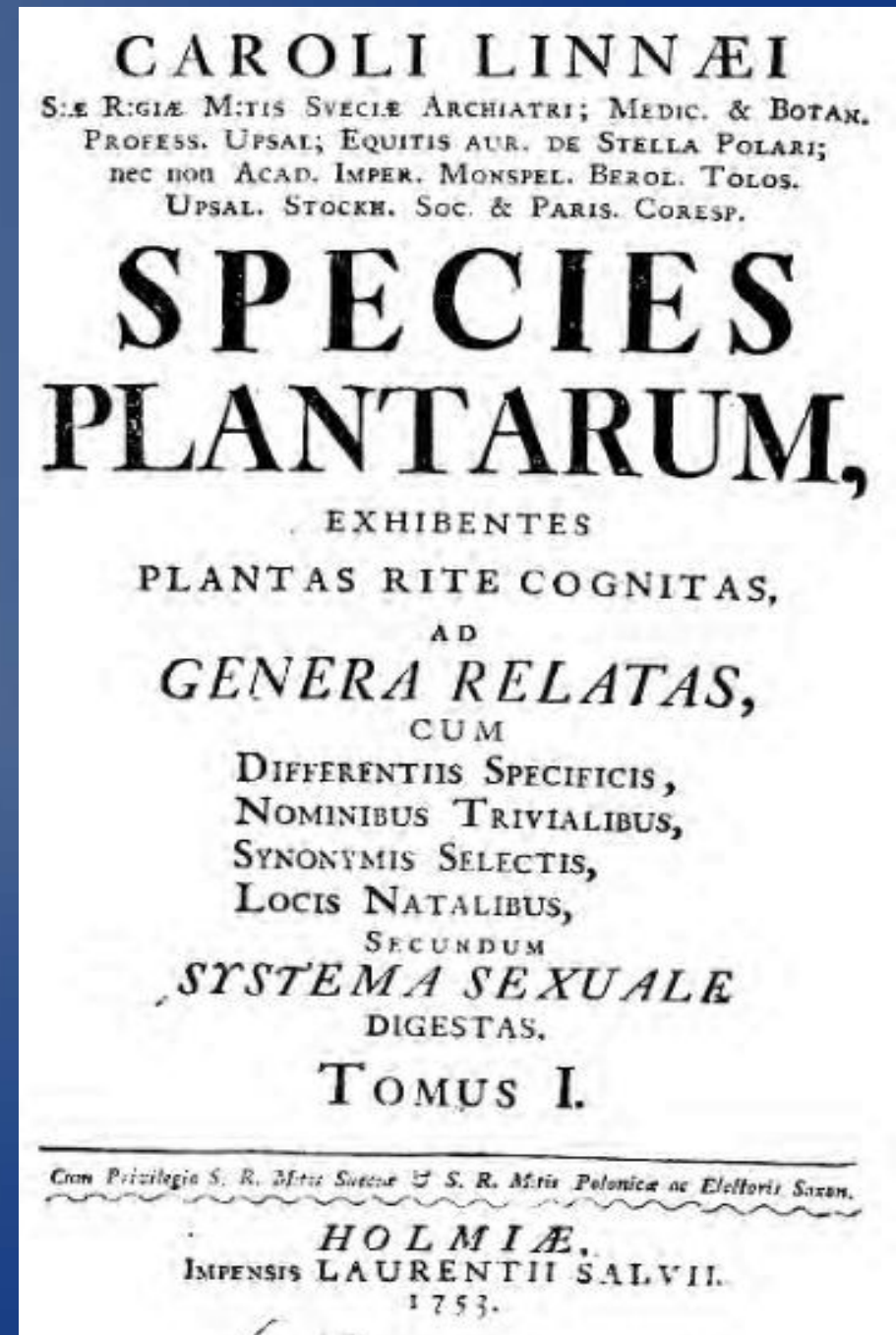


International Botanical Congress Nomenclature Section



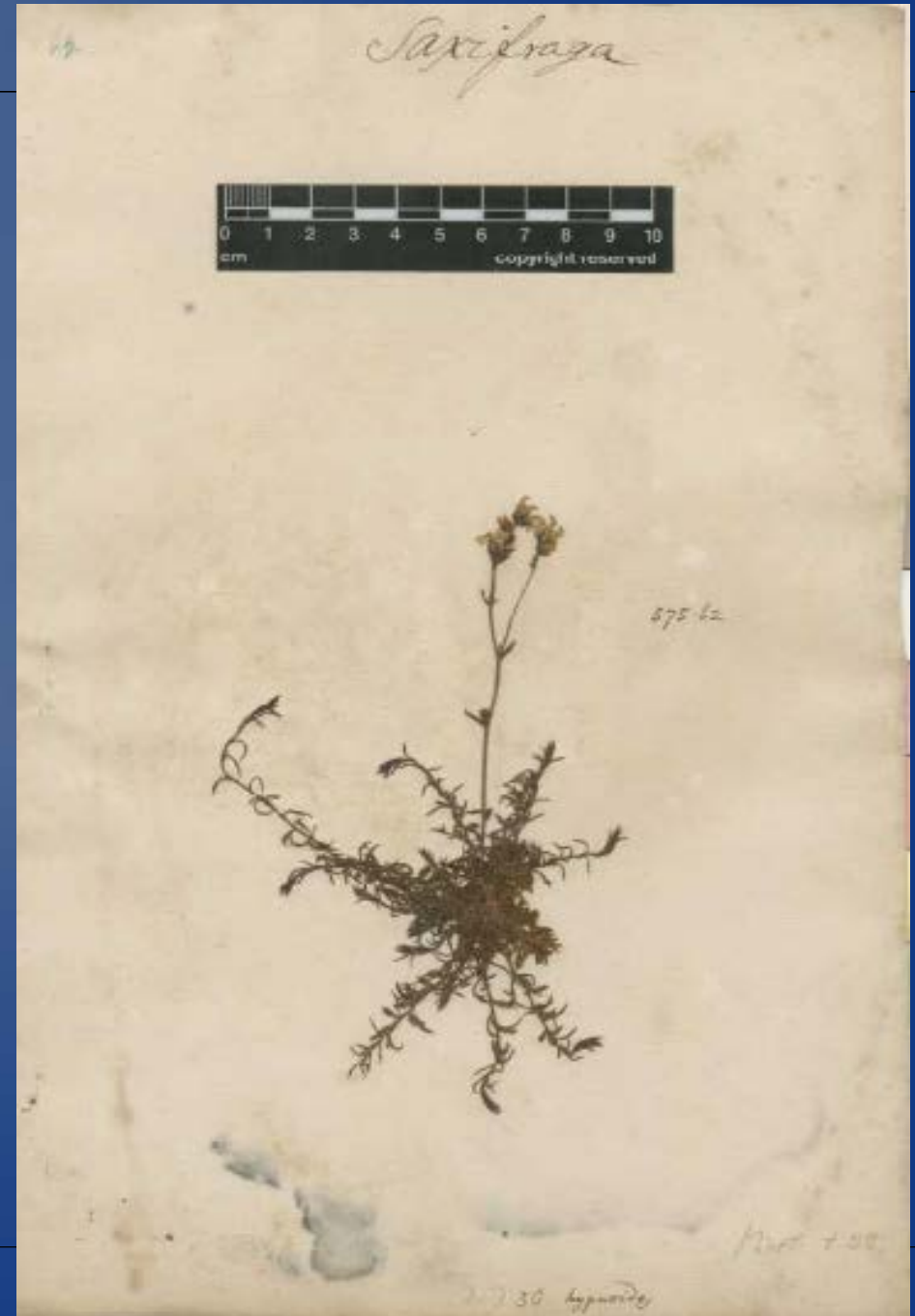
Code Principles

- Each species defined by a type specimen.
- Each species name is unique to that type.
- Start date 1st May 1753.



Types

- Specimen to which name is permanently attached.
- New names are invalid if not attached to a type.
- Old (pre-1930) names are not invalid if not typified.

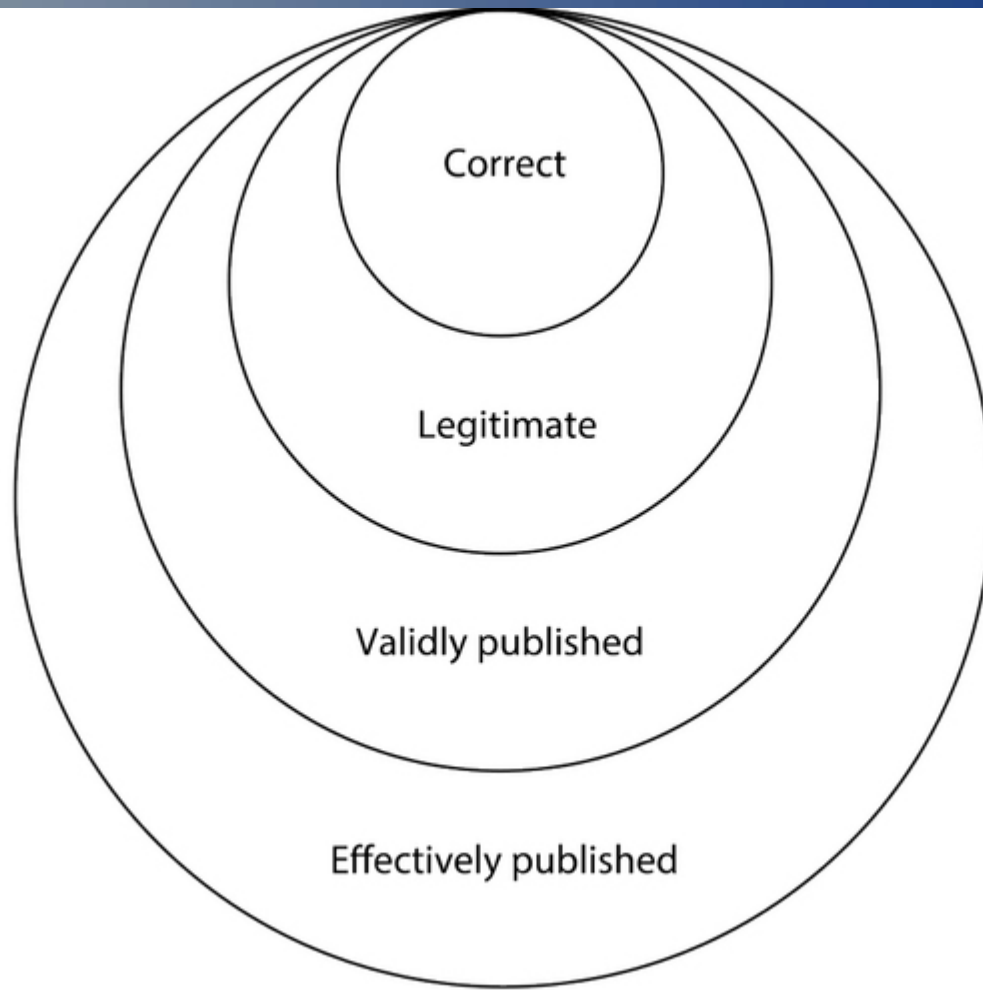


Names

- Permanently attached to a type specimen.
- Earliest name takes priority.
- To be valid the rules must be followed.



Creating a Valid name



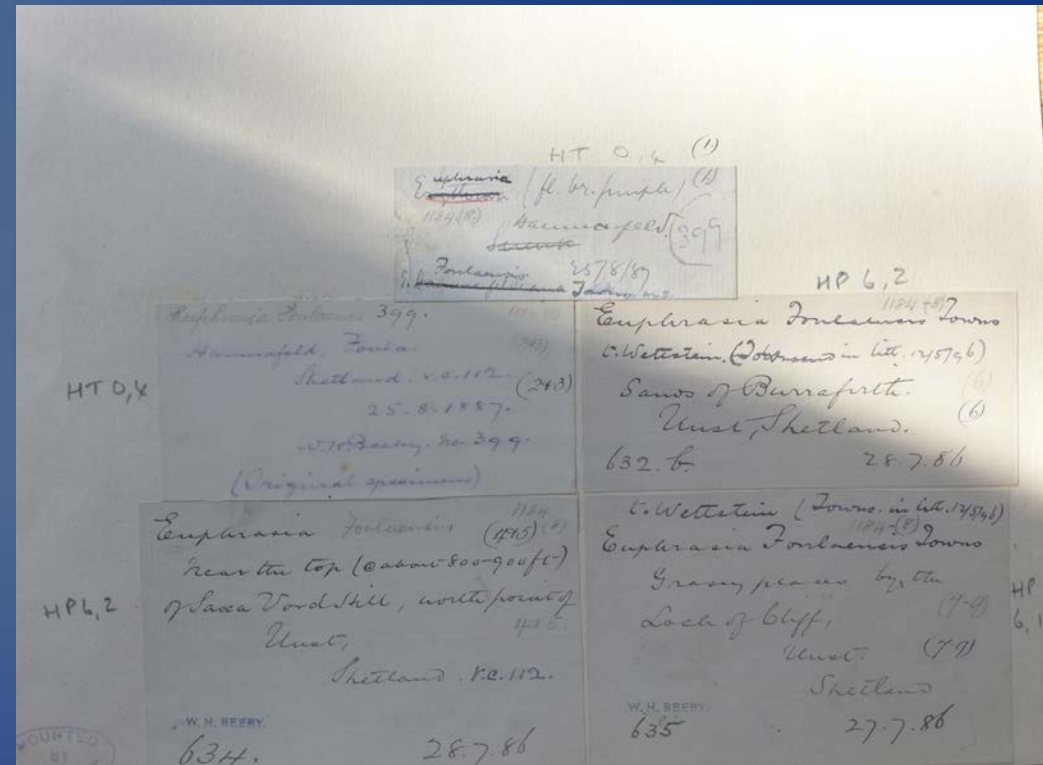
Euphrasia foulaensis

- Found by W.H. Beeby on Foula in 1887.



Euphrasia foulaensis

- Found by W.H. Beeby on Foula in 1887.
- Named by him “*Euphrasia hammerfeldiana*”, but only on an herbarium label.
- Not “effectively published”.



HT 0.4 (1)

Euphrasia (*fl. br. purple*) (1)
~~*Euphrasia*~~

1184 (8)

Hammefeld (399)
~~Stent~~

Foulensis 2578/87
~~*E. hammefeldiana*~~ Foulens. no. 9.

Euphrasia Foulensis 399.

1184 (8)

Hammefeld, Foulens.

(243)

Shetland. v.c. 112. (243)

25. 8. 1887.

W. H. Deasy, no. 399.

(Original specimens)

Euphrasia

C. Wettstein. (1)

Sands of

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632. b.

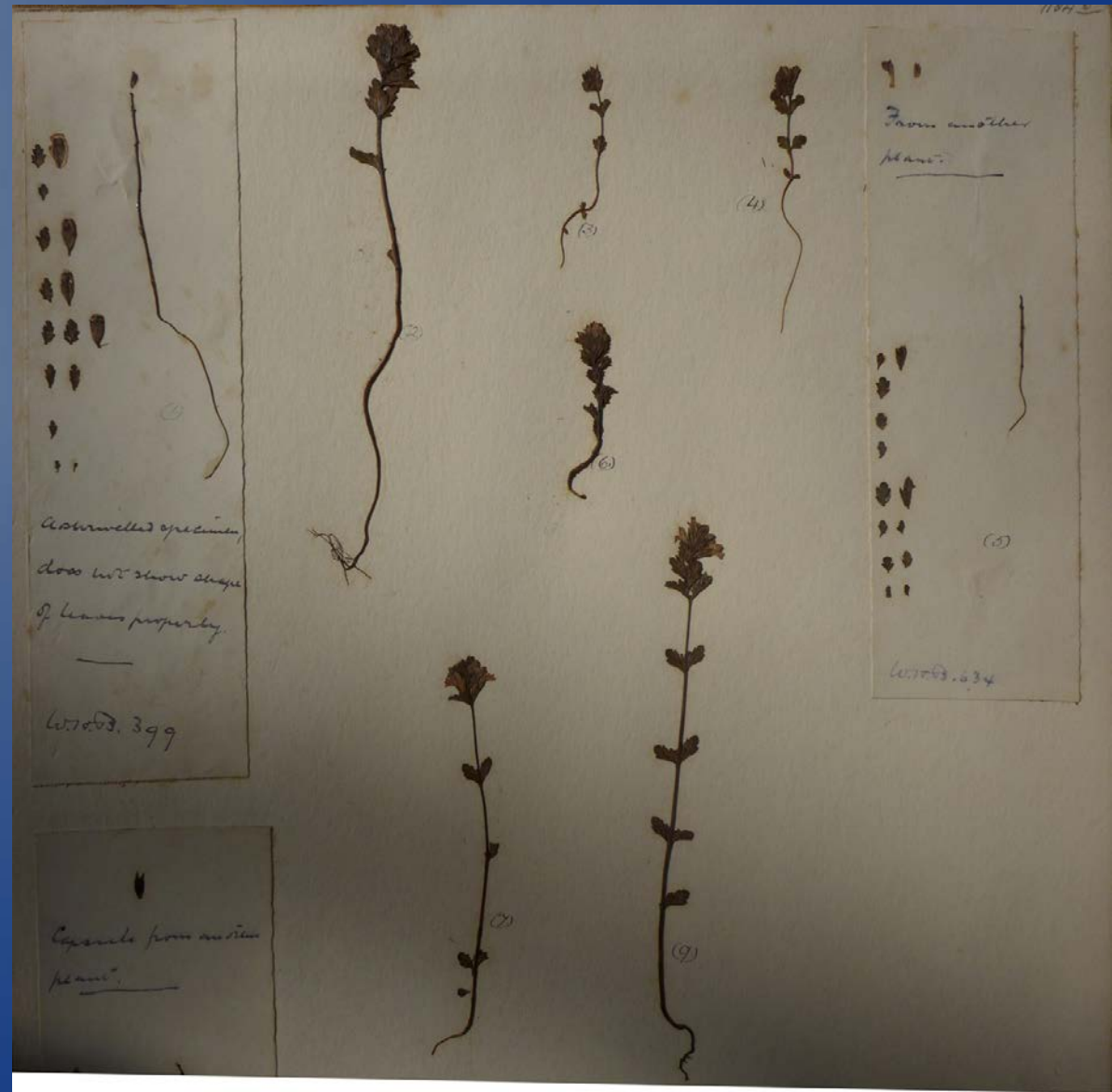
Euphrasia foulaensis

- Found by W.H. Beeby on Foula in 1887.
- Named by him “*Euphrasia hammerfeldiana*”, but only on an herbarium label. Not “effectively published”.
- Published by Wettstein in Leipzig in 1896 as *Euphrasia foulaensis*.



Euphrasia foulaensis

- Wettstein's originals untraced.
- Beeby's specimens discovered in 2013.

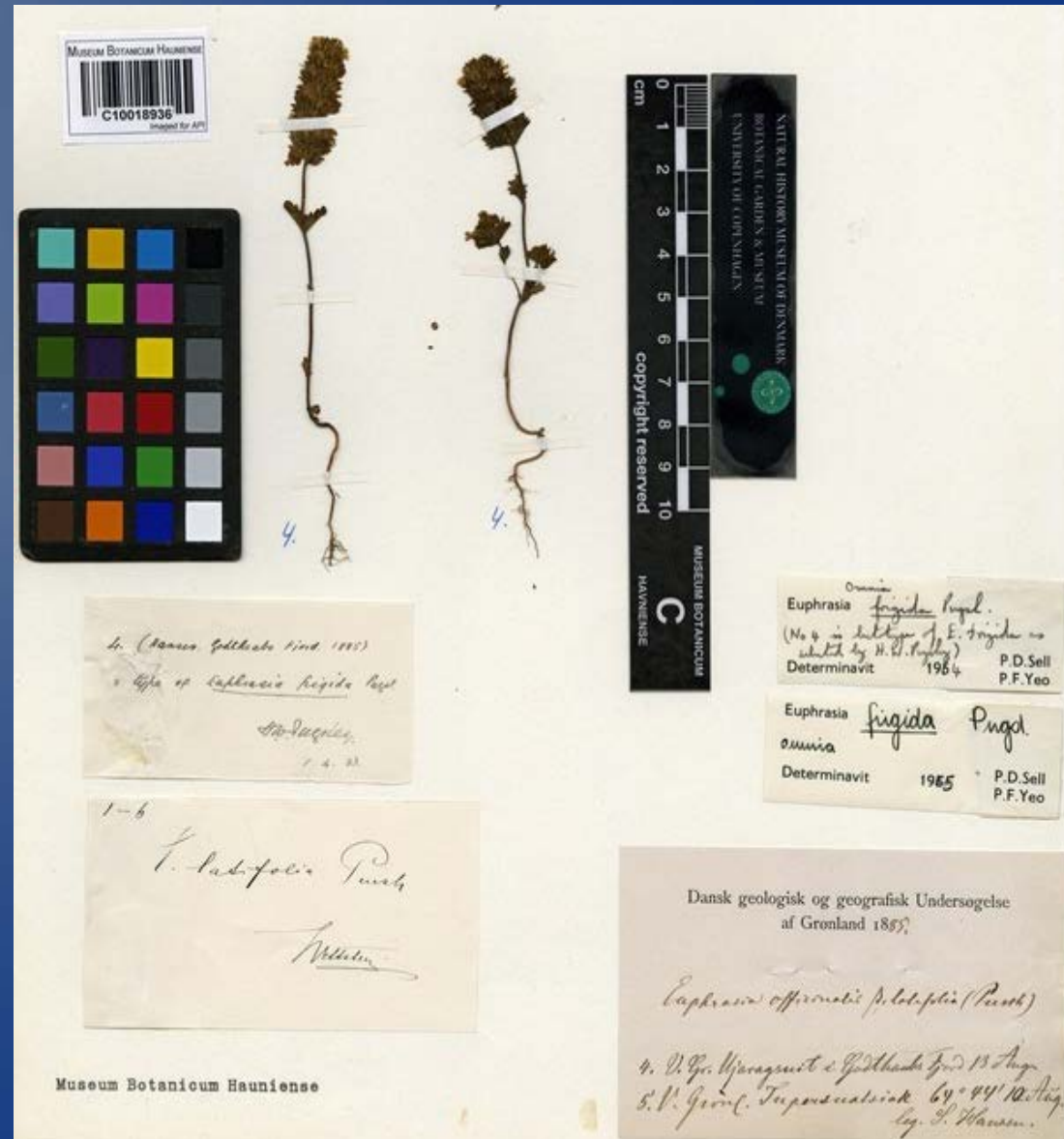


No name

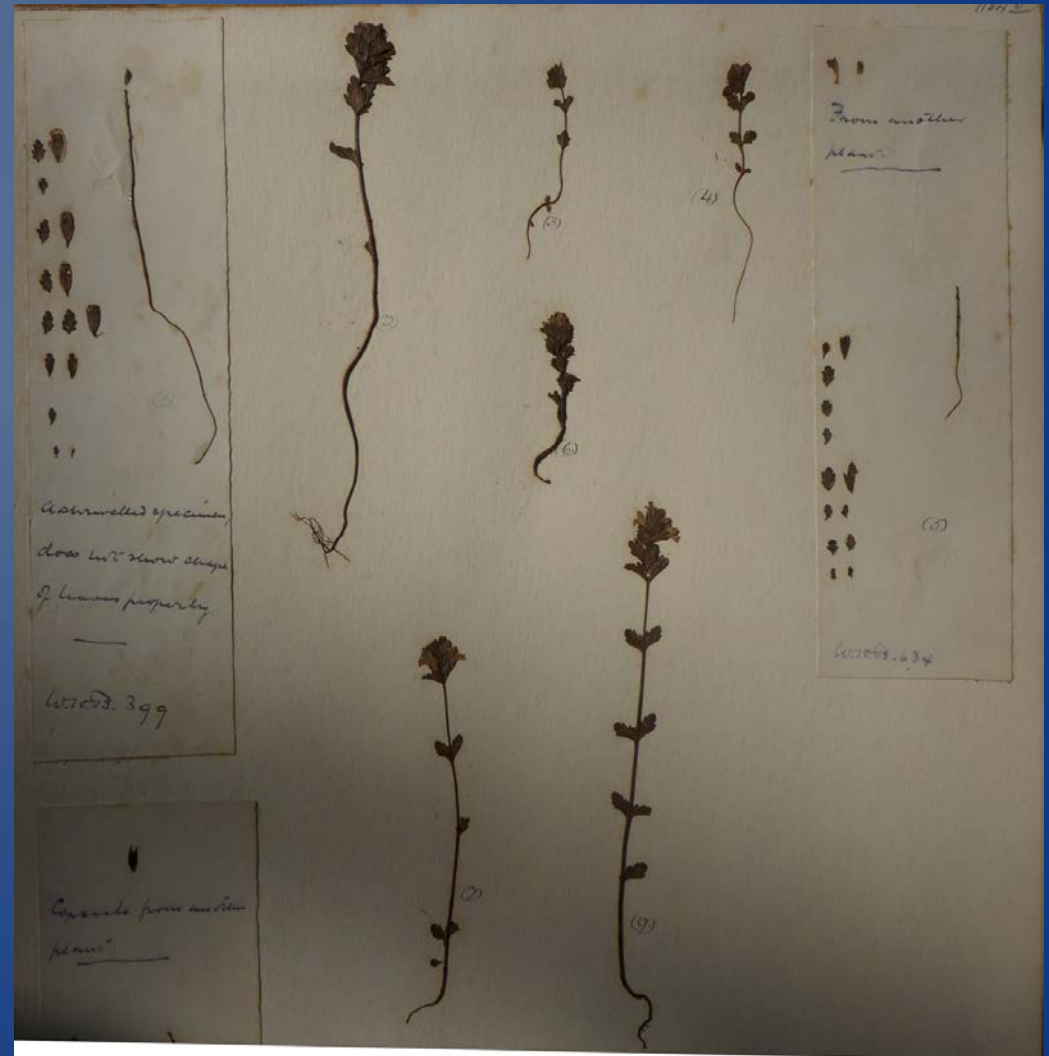


Euphrasia frigida

- Named by H.W. Pugsley in 1930.
- Pugsley published the type in 1933.
- The typification is invalid!



Euphrasia frigida = Euphrasia foulaensis



Summary of the Confusion

- Plant we know as *Euphrasia foulaensis* needs a new name.



Summary of the Confusion

- Plant we know as *Euphrasia foulaensis* needs a new name.
- *E. foulaensis* 1896, *E. frigida* 1930.
- Plant we know as *Euphrasia frigida* is really named *Euphrasia foulaensis*.



