

## ON CHRISTEN SMITH'S NAMES OF CANARIAN PLANTS.

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### RESUMEN

Se presenta un breve informe de la exploración del botánico Noruego-Danés Christen Smith de las Islas Canarias en el año 1815 con una moderna interpretación de nombres en manuscrito de Christen Smith que fueron publicados después de su muerte en 1816 por varios Científicos contemporáneos, L. von Buch, Link, De Candolle, Choisy & Hornemann.

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### INTRODUCTION

The Norwegian-Danish botanist Christen Smith (1785-1816) should be mentioned, together with Masson and Broussonet, as one of the pioneer botanists whose collections of plants from the Canary Islands have been of the greatest importance to our knowledge of the flora of these islands.

Together with the German geologist Baron Leopold von Buch (1774-1853), C. Smith stayed on the islands during the period 6/5 - 27/10 in 1815, with the following itinerary:

TENERIFE 6/5 - 28/6, GRAN CANARIA 28/6 - 12/8, TENERIFE again 13/8-20/8, LA PALMA 21/9-2/10, TENERIFE once more 3/10-11/10 and finally LANZAROTE 17/10-27/10 (Kjaer, 1889).. Thus 4 of the 7 Canary Islands were visited, and everywhere extensive collections were made, brought together and taken to England, where Smith and Buch arrived on December 8th in the same year.

Of course Smith had intended to publish the results from his collecting on the Canary Islands, among them a number of species new to science, but as he already on February 25th 1816 left

on another expedition, this time to African Congo, under the leadership of Captain J.K. Tuckey, from which he never returned (he died in the Congo on September 22nd in the same year) he never realized his plans. His notes from the Canaries though were safe, they were utilized by Buch in his main work on the Canary Islands (Buch, 1825) in which the botanical part, to a great extent, is based on Smith's investigations. In all, 561 species of higher plants have been listed in this work, among them about 50 species detected by Smith and at that time thought to be new to science. Smith's provisional names and probably also his provisional descriptions, when present in his notes, were taken over by Buch and by other botanists (H. F. Link, A.P. de Candolle, J.D. Choisy) assisting Buch with comments on his botanical part. Also in a separate paper by Buch (119), a few of Smith's new species have been validly published.

Smith's Canarian collections were distributed from London into many European herbaria, thus prof. J. W. Hornemann, then head of the Botanical Garden and collections in Copenhagen (also a personal friend of Smith's, see fig. 1) received a number of duplicates, about 400 nos., which are still kept in the Botanical Museum of Copenhagen (Herb. C), mounted on sheets with the general and laconic description "E Canariis, C. Smith (without exact localities) in Hornemann's handwriting. Hornemann also described a few of Smith's new species (Hornemann 1819). Some of the Smith-plants in Herb. C. can be most likely considered as syntypes. In the following list of Smith's names of Canarian plants the supposed types in Herb.C are mentioned, when present. In the same list, all the Smith names given in the above mentioned publications by Buch are listed, and their synonyms and present status have been cleared up as far as possible.

Fig. 1. — Part of a letter from Chr. Smith to prof. J. Hornemann, Copenhagen, dated in London on March 28th, 1815 — the day before he left England for the Canary Islands. It was probably the last letter that Hornemann ever received from Smith with whom he had been in lively correspondence since 1810. This letter is written in Danish and with "black-letters", of course difficult to read for non-Scandinavians. In translation it reads like this: "Just before the war broke out again on the continent I happened to change my mind, and perhaps you will find it eccentric when I inform you now about the fact that I am just going to leave the blood-scenes just starting in Europe, in order to head straight for the peaceful garden of the Hesperids — the Canary Islands The well-known Baron Buch heard me speaking about how interesting such a trip would be, and when he proposed me to join, my superficial wish was soon changed into a decision. We are leaving tomorrow for Portsmouth where our ship is ready for the first wind! On our way we will call at Madeira for a few days. It has always been one of my few wishes to be able to see Nature in its greatest abundance in the tropics. The vegetation of the Canaries may be very well investigated, but in the cryptogamic way and as to general observations there is certainly still enough to do. (Then 5 lines of greetings for friends and colleagues in Denmark follow).

Most sincerely yours  
C. Smith

I intend to be back again in England in August".

gamto Khavon - Mye for hisan ut brod isian  
 yoo foatruenten falk in ut min Lethu yoo auter  
 Ender og de ml moatras find ut land apilakij's  
 noot in foalaten dunn ut in yoo sin frouot noot  
 moed ut foalade Anupias isian boggatruede Oloofstans  
 foor ut foyan ut fanginad mias fardelij, fann - de  
 fannat's foor fann bikkant? Borow Buth fann de  
 foor myc nootun foor auterfoot fley an eevit fande  
 kloo for myc myc fann fangouade ut yoo's fof'of  
 Eder moel foyelij, foyen fnoel ut Oloofstainy  
 in'thi yooer foygan ut Oloofstainy fann fof'of  
 foygan fardij foor fof'of fnoel fann foygan unlobo  
 in: Madusa foor ut foor fof'of

falk ut alter moed ut ut min ma de fof'of  
 ut fann fann notun, fann fof'of fof'of fof'of  
 Anupias Anupias Anupias ut ml fann myc noot  
 moel fof'of fann fann fof'of fof'of fof'of  
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## CATALOGUE

- Anthemis revoluta* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 370(34), 1819. — 1 sheet in Herb.C. Loc. class.: Taganana, Tenerife.
- Chr.Sm. ex Link in Buch, Phys. Besch. Can.Ins. 150, 1825.
- Lugoa revoluta* (Chr.Sm.) DC., Prodr. é: 14, 1837.
- Gonospermum revolutum* (Chr.Sm.) Sch.Bip. in Webb & Berth., Phytogeogr. Canar. III, 2(2): 292, 1844.
- Artemisia ramosa* Chr.Sm. in Buch, Abh. König. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 370(34), 1819. — 1 sheet in Herb. C. Loc. class.: Mogan, Las Palmas, Gran Canaria.
- ex Link in Buch, Phys. Besch. Can.Ins. 148, 1825.
- Artemisia reptans* Chr. Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 370(34), 1819. — 3 sheets in Herb. C. (same collection). Loc. class.: Las Palmas, Gran Canaria.
- ex Link in Buch, Phys. Besch. Can.Ins. 148, 1825.

- Asparagus exaltatus* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 362(26), 1819, nom. nud.— Loc. class.: Barranco del Paso Alto, St. Cruz, Barranco del Infierno, Tenerife.
- Asparagus scoparius* Lowe, Prim. Fl. Madeira 11, 1830.
- Beta procumbens* Chr.Sm. in Hornem., Suppl. Hort. Bot. Hafn. 31, 1819. — 1 problematic sheet in Herb. C.
- Centaurea cynaroides* Chr.sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 369(33), 1819.— Loc. class.: Las Cañadas, Tenerife.
- Chr.Sm. ex Link in Buch, Phys. Beschr. Can. Ins. 147, 1825.
- Rhaponticum canariense** DC., Prodr. 6: 664, 1837 (non **R.cynaroides** Less., Syn. Comp. 6, 1832).
- Serratula canariensis* (DC.) Sch.Bip. in Webb & Berth., Phytogeogr. Canar. III, 2(2): 370, 1846 (non *S. cynaroides* DC., Fl. France 4: 87, 1805).
- Centaurea teydis* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 369(33), 1819. — Loc. class.: Chasña, Tenerife.
- Centaurea arguta* Nees, Horae Phys. Berol. 116, 1820.
- Cineraria bracteata* Chr.Sm. ex Link in Buch, Phys. Beschr. Can. Ins. 148, 1825.
- Cacalia echinata* L.f., Suppl. 353, 1781.
- Cineraria ramentosa* l'Hérit., Sert. Angl. 26, 1789.
- Senecio echinatus** (L. f.) DC., Prodr. 6: 411, 1837.
- Senecio cruentus* DC. var. *bracteata* (Chr.Sm.) Christ, Bot. Jahrb. 9: 148, 1888.
- Cistus ocreatus* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 380(44), 1819. — 2 sheets in Herb. C. Loc. class.: Artenara-Aldea, Tenerife.
- Chr.Sm. ex Link in Buch, Phys. Beschr. Can.Ins. 153. 1825.
- Cistus symphytifolius** Lamk., Enc. 2: 15, 1786.
- Cistus vaginatus* Aiton, Hort. Kew 2: 231, 1789.
- Cistus candidissimus** Dunal in DC., Prodr. 1: 264, 1824.
- Rhodocistus berthelotianus* Spach, Ann.Sc.Nat. 6: 367, 1836.
- Commelina canariensis* Chr.Sm. in Buch, Abh. Königl.Akad.Wiss. Berlin, Phys. Kl. 1816/17: 362(26), 1819, nom.nud.
- Chr.Sm. in Buch, Phys. Beschr. Can. Ins. 140, 1825, nom. nud.

*Commelina nudiflora* L., Sp. Pl. 41, 1753, p.p.  
*Commelina benghalensis* L., Sp. Pl. 41, 1753 ?  
*Commelina diffusa* Burm. f., Fl. Ind. 18, tv. 7, f. 2, 1768.  
*Commelina canescens* Vahl, Enum. 2: 173, 1806.  
*Commelina agraria* Kunth, Enum. 4: 38, 1843.

*Crepis lagopoda* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 364(28), 1819, nom.nud.

*Tolpis lagopoda* Chr.Sm. in Buch, Phys. Besch. Can.Ins. 147, 1825.

1 sheet in Herb.C. Loc. class.: Above Villa Orotava, Cruz del Paso de Güimar, Tenerife.

*Cynosurus tenuis* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 361(25), 1819, nom.nud.

probably = *C.echinatus* L., Sp.Pl. 72, 1753.

*Cyperus glomeratus* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 361(25), 1819, nom.nud.

— Chr.Sm. in Buch, Phys. Besch. Can.Ins. 138, 1825, nom.nud. — Loc. Class.: Tejina, Tenerife.

*Cyperus rubicundus* Vahl, Enum. 2: 308, 1806.

*Cyperus teneriffae* Poiret ex Lamk., Encycl. 7: 245, 1806.

*Dactylis fasciculata* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 361(25), 1819, nom.nud.

— Chr.Sm. ex Link in Buch, Phys. Besch. Can.Ins. 139, 1825, nom. invad. non Lamk., Tabl. Encyc. 1: 180, 1791.

*Dactylis smithii* Link in Buch, Phys. Besch. Can.Ins. 139, 1825.—

Loc.class.: Realejo, Taganana, Tenerife.

*Festuca filifolia* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 361(25), 1819, nom.nud.

probably = *F. filiformis* Chr.Sm.

*Festuca filiformis* Chr.Sm. ex Link in Buch, Phys. Besch. Can. Ins. 139, 1825, nom. inval., non *F.filiformis* Pourr. 1778 =

*Psilurus aristatus* (L.) Duv.-Jouve. — Loc. class. Aguamansa, Tenerife.

*Festuca agustini* Lindinger, Beitr. Kenntn. Veget. u. Flora Kan. Ins. 298, 1926.

*Frankenia ericifolia* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.

— Chr.Sm. in Buch, Phys. Besch. Can. Ins. 154, 1825, nom.nud. — Loc. class.: Realejo, Tenerife.

*Frankenia ericifolia* Chr.Sm. in DC., Prodr. 1: 350, 1824.

- Hypericum coadunatum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Hypericum coadunatum** Chr.Sm. in Buch, Phqs. Beschr. Can. Ins. 153, 1825. — Loc. Class.: Valsequillo, Gran Canaria.
- Mollia aristata* Chr.Sm. in Hornem., Suppl. Hort. Bot. Hafn. 28, 1819 see *Polycarpaea aristata* Chr.Sm. ex DC. below
- Pinus canariensis* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 368(32), 1819, nom.nud.
- Pinus canariensis** Chr.Sm. (ex DC?) in Buch, Phys. Beschr. Can. Ins. 1959, 1825. — 2 sheets in Herb. C. Loc. class.: Tenerife, several localities.
- Poa filiformis* Chr.Sm., Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 361(25), 1819, nom.nud.  
probably = *Festuca filiformis* Chr.Sm.
- Polycarpaea aristata* Chr.Sm. in DC., Prodr. 3: 373, 1828.
- Illecebrum aristatum* Aiton, Hort. Kew. 1: 290, 1789.
- Mollia aristata* Aiton, Hort. Kew. ed. 2, 2: 62, 1811.
- Mollia aristata* Chr.Sm. in Hornem., Suppl. Hort. Bot. Hafn. 28, 1819.
- Polycarpaea divaricata* (Aiton) Poir. var. *aristata* (Chr.Sm.) Bornm., Bot. Jahrb. 33: 417, 1903.  
Correct citation would be: **Polycarpaea aristata** (Aiton) DC., Prodr. 3: 373, 128. — Loc. class.: La Cumbre, G. Canaria; Angostura, Tenerife.
- Polycarpaea carnososa* Chr.Sm. in Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Polycarpaea carnososa** Chr.Sm. ex Link in Buch, Phys. Beschr. Can. Ins. 142, 1825. — Loc. class.: Barranco de la N. S. de Gracia, Tenerife.
- Rottboellia palmensis* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 368(32), 1819, nom.nud.
- Salix canariensis* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 368(32), 1819, nom.nud.
- Salix canariensis** Ch. Sm. in Buch, Phys. Beschr. Can. Ins. 159, 1825.— Several sheets in Herb. C. Loc. class.: La Laguna, Infierno Adeje, Tenerife.
- Sambucus palmensis* is often ascribed to Chr.Sm., but surely should be cited in the best way as follows: *S.palmensis* Link in

Buch, Phys. Beschr. Can. Ins. 151, 1825 (*S. palmensis* Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 365 (29), 1819, nom.nud.) — Loc. class.: Saucos, La Palma.

*Satureja lanata* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 369(33), 1819, nom.nud.

— Chr.Sm. ex Link in Buch, Phys. Beschr. Can. Ins. 143, 163, 1825. — Loc. Class.: Mogan, Tazarte, G. Canaria.

*Micromeria lanata* (Chr.Sm.) Benth., Suppl. Lab. 731, 1836.

*Scabiosa fruticosa* (fruticulosa) Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 365(29), 1819, nom.nud.

*Pteroccephalus lasiospermus* Link in Buch, Phys. Beschr. Can. Ins. 150, 1825.

*Sempervivum annuum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.

— Chr.Sm. in Buch, Phys. Beschr. Can. Ins. 154, 1825, nom.nud. — Loc. class.: Fuente de Verro, Tenerife.

*Sempervivum laxum* Haworth, Revis. Plant. Succ. 65, 205, 1821.

*Sempervivum dichotomum* DC., Pl. Rar. Jard. Genève 78, 1826.

*Aichyson dichotomum* (DC.) Webb & Berth., Phyt. Canar. III, 2(1): 181, 1840.

*Aeonium laxum* (Haworth) Webb & Berth., op. cit. 198, 1840.

*Aichyson laxum* (Haworth) Bramwell, Bol. Inst. Nac. Invest. Agron. 28(59): 207, 1968.

*Sempervivum aureum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.

— Chr.Sm. in Hornem., Suppl. Hort. Bot. Hafn. 61, 1819.

— Chr.Sm. ex Otto in Nees, Horae Phys. Berol. 37, 1820.

— Chr.Sm. in Buch, Phys. Beschr. Can. Ins. 154, 1825.— Loc. class.: St. Urzula, M. Chigila, Esperanza, La Laguna, Tenerife.

*Greenovia aurea* (Chr.Sm. in Hornem.) Webb & Berth., Phyt. Canar. III, 2(1): 199, 1840.

III, 2(1): 199, 1840.

*Sempervivum barbatum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.

*Sempervivum spathulatum* Hornem., Suppl. Hort. Bot. Hafn. 60, 1819.— Some sheets in Herb. C.

*Sempervivum barbatum* Chr.Sm. ex Otto in Nees, Horae Phys. Berol. 37, 1820.



- Serpervivum barbatum* Chr.Sm. in Link, Enum. Hort. Berol. 2: 20, 1822.
- Sempervivum barbatum* Chr.Sm. in Buch, Phys. Besch. Can. Ins. 154, 1825. — Loc. class.: Garachico, Arguaio, Tenerife.
- Aeonium spathulatum* (Hornem.) Praeger, Proc. Roy. Irish Acad. 98, B: 482, 1929.
- Sempervivum caespitosum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Sempervivum simsii* Sweet, Hort. Suburb. London. 230, 1818.
- Sempervivum barbatum* Hornem., Suppl. Hort. Bot. Hafn. 61, 1819, non Chr.Sm. — Some sheets in Herb. C.
- Sempervivum caespitosum* Chr.Sm. ex Otto in Nees, Horae Phys. Berol. 38, 1820.
- Chr.Sm. in Buch, Phys. Besch. Can. Ins. 154, 1825. — Loc. class.: Roque del Saucillo, Tejada, G. Canaria.
- Aeonium caespitosum* (Chr.Sm.) Webb & Berth., Phyt. Canar. III, 2(1): 191, 1840.
- Aeonium simsii* (Sweet) Stearn, Gard. Chron. 3, ser. 130: 169, 1951.
- Sempervivum foliosum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Sempervivum smithii* Sims, Bot. Mag. no. 1980, 1818.
- Sempervivum foliosum* Chr.Sm. ex Otto in Nees, Horae Phys. Berol. 38, 1820.
- Chr.Sm. in Buch, Phys. Besch. Can. Ins. 155, 1825. — Loc. class.: Taganana, Tenerife.
- Aeonium smithii* (Sims) Webb & Berth. Phyt. Canar. III, 2(1): 187, 1840.
- Sempervivum punctatum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Chr.Sm. in Buch, Phys. Besch. Can. Ins. 155, 1825. — Loc. class.: Esperanza, Tenerife.
- Aichryson punctatum* (Chr. Sm. in Buch) Webb & Berth., Phyt. Canar. III, 2(1): 182, 1840.
- Sempervivum pygmaeum* Chr.Sm. ex Link in Buch, Phys. Besch. Can. Ins. 155, 1825. — Loc. class.: Haría, Lanzarote.
- Sempervivum tortuosum* Aiton, Hort. Kew. ed. 1, 2: 148, 1789.
- Aichryson tortuosum* (Aiton) Webb & Berth., Phyt. Canar. III, 2(1): 184, 1840.
- Sempervivum urbicum* Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.

- Chr.Sm. in Hornem., Suppl. Hort. Bot. Hafn. 60, 1819.
- Chr.Sm. in Buch, Phys. Besch. Canar. Ins. 154, 1825. — Loc. class.: La Laguna, Puerto Orotava, etc., Tenerife.
- Aeonium urbicum** (Chr.Sm. in Hornem.) Webb & Berth., Phyt. Canar. 2(1): 194, 1840.
- Senecio palmensis** Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 370(34), 1819. — 1 sheet in Herb. C. Loc. class.: Barranco de las Angustias, Tazacorte, La Palma.
- Cineraria palmensis** Nees, Horae Phys. Berol. 115, 1820.
- Senecio palmensis** (Nees) Chr.Sm. in Buch, Phys. Besch. Can. Ins. 148, 1825.
- Bethencourtia palmensis** Choisy in Buch, op. cit. 148, 1825.
- Silene lagunensis** Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 366(30), 1819, nom.nud.
- Chr.Sm. ex Link in Buch, Phys. Besch. Can. Ins. 154, 1825, nom.nud. — Loc. class.: La Laguna, Tenerife.
- Silene lagunensis** Chr.Sm. in Christ, Bot. Jahrb. 9: 101. 1888.
- Verbena humifusa** Chr.Sm. in Buch, Abh. Königl. Akad. Wiss. Berlin, Phys. Kl. 1816/17: 363(27), 1819, nom.nud. = ?
- Vicia cirrhosa** Chr.Sm. in Herb. Reg. Berol. no. 410, 1815, nom.nud.
- Vicia aphylla** Chr.Sm. in Buch, Phys. Besch. Can. Ins. 157, 1825, nom.nud. — Loc. class.: Infierno Adeje, Tenerife.
- Lathyrus aphylla** Link in Buch, Phys. Besch. Can. Ins. 157, 1825.
- Vicia cirrhosa** Chr.Sm. in Webb & Berth., Phyt. Canar. III, 2(2): 108, 1842.

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