

mark & al. 21953 (LD), et 28.5.1969, *Bresinsky* (M). Arcadia: pr. Leonidio, 17.5.1964, *Rechinger* 25124 (Gr, W). Laconia: "Passavas", 5.1955, *Goulimis* (Goul); pr. Molai, loco "Paliopirgos", 18.5.1970, *Stamatiadou* 8954 (Goul); in dit. opp. Areopolis, in valle ad occ. pagi Mirsini, 20.5.1964, *Runemark & al.* 22030 (LD).

Creta: a. 1932, *Archley* (K). Sphakia: 6.1932, *Gutol* (BM); in fauc. Domata, 5.6.1962, *Greuter* 4671 (Gr, Z), et 16.7.1971, *Greuter* 9427 (Goul, Gr); in fauc. pr. Aradena, 22.9.1966, *Greuter* 7571 (Gr); pr. Chora Sphakion, 14.5.1914, *Gandoger* 5628 (Fl, K); ibid., in fauc. "Kavi", 12.5.1962, *Runemark & al.* 17025 (LD), et 7.10.1966, *Greuter* 7672 (G, Gr, LD, W).

Sporades austr. (= ins. aegaeae or.). Ins. Ikaria: ad sept. sinûs Ajos Nikolaos, 21.4.1958, *Runemark & Snogerup* 6203 (LD); ad occ. pagi Plaja, 17.6.1958, *Runemark & Snogerup* 11392 (LD), et 14.7.1958, *Runemark & Snogerup* 12567 (LD); ad sept. pagi Plaja, 18.6.1958, *Runemark & Snogerup* 11490 (LD); ad occ. pagi Petropouli, 25.4.1958, *Runemark & Snogerup* 7044 (LD); ad or. loci "Messaria", 24.4.1958, *Runemark & Snogerup* 6831 (LD); in lat. occ. m. "Panora", 21.6.1960, *Runemark & Nordenstam* 16411 (LD).

Macedonia austr. Chalkidiki: in penins. Sithonia (= Longos), pr. Kouphos, 17.6.1930, *Mattfeld* 5364 (W); ibid., in lat. mer. sinûs Kouphos, 17.6.1972, *Greuter* 10491 (E, G, Goul, Gr, LD, M, Rech).

Loca excludenda

In graphide recentissimâ areae hujus subspeciei (Greuter 1971: fig. 2) lapsa duo loca falsa utique delenda inserui (in peninsulâ Cassandriâ Chalcidices et in Achaiâ).

**E. *Ptilostemon* sect. *Leptophyllon* Greuter, sect. nova. Holotypus: *Ptilostemon leptophyllus* (Pau & Font Quer) Greuter
— *Lamyra* auct. partim (non *Cirsium* subg. *Lamyra* Cass.).**

Suffrutex (vel frutex?). *Surculi* plus minusve elongati, infra densiuscule supra densissime foliati, post annum lignescentes et aut apice procrecentes aut surculos novellos laterales et caulem capituligerum terminalem edentes. *Folia* sicca subpersistentia, lobis exclusis anguste linearia margine revoluta, lobis e spinis rite geminis (rarius singulis ternisve) palmatim dispositis basi breviter triangulari-parenchymaticis constantibus, quarum proximalis robustior sursum vergens, distales si adsunt minores deflexae; nervi laterales praeter spinigeros omnino obsoleti. *Synflorescentia* subcorymbosa, pedunculis apice recurvis capitulis ideo nutantibus. *Phylla* involucri margine praeter papillas glabra haud araneosa, dorso infra glabra supra crispule pubescentia demum saepe glabrata, appendice intus ad ortum eximie gibbosâ. *Flosculi* marginales haud fructiferi, pappo plumoso parum reducto et florum centralium subsimili. *Pappi* setae apicem versus circumcirca dense penicillatim plumulosae vel barbellatae. *Corollae* limbus in floribus exterioribus inaequaliter, in centralibus subaequaliter fissus, laciniis valde patentibus. Appendices

antherarum in tertiâ vel dimidiâ parte apicali vittatae, vittâ prominulâ nectar secretante cito angustatâ infra omnino obsoletâ.

7. *Ptilostemon leptophyllus* (Pau & Font Quer) Greuter, comb. nova = *Chamaepeuce leptophylla* Pau & Font Quer in Font Quer, sched. impr. Iter Marocc. n. 1927, n. 691 [10.3.1928, sec. Cavanillesia 1: 47. 1928] = *Cirsium leptophyllum* (Pau & Font Quer) Font Quer in Index Seminum Horti Bot. Mus. Barcinon. Sci. Nat. 1928: 15, 20.11.1928 = *Lamyra leptophylla* (Pau & Font Quer) Soják in Novit. Bot. Delect. Seminum Horti Bot. Univ. Carol. Prag. 1962: 47. 1962. Typus: "Chamaepeuce leptophylla Pau et F. Q., sp. nov. Hab. in declivibus montis Iguermelez, versus Tizzi Ifri (Atlante rhiphaco), 1500 m. alt., solo schistoso; 24. junii", Font Quer, Iter maroccanum 1927, n. 691. Lectotypus: idem (G; isotypi: BM, FI, Gr, LAU, MA, MPU, RO).

Fig. 7c, p. 28 (lobus folii); fig. 10g-h, p. 34 (phylla involucri); fig. 15d, p. 44 (apices setarum pappi); fig. 18d-e, p. 49 (limbi corollarum explanati); fig. 19c, p. 50 (filamentum); fig. 20e, p. 52 (appendices et caudae antherarum); fig. 21f, p. 56 (apices styliorum).

Folia surculorum plerumque 10-15 cm longa, lobis exclusis c. 2 mm lata, in parte inferiore utrinque lobis 4-5 remotis ornata; a medio vel parum ultra integerrima eleganter flexuoso-curvata apice tenuiter spinuloso-acuminata, basi sessilia; eximie discoloria nam subtus candida tomento compacto crasso, supra glaberrima vel ad costam tantum araneoso-floccosa, viridia. *Caulis* ineunte aestate evoluti, 40-60 cm alti, graciles, laxius densiusve araneoso-canescens ad costas rite glabrescentes, infra dense supra laxe foliati; folia caulina lris surculorum conformia sed media et superiora diminuta, lobis utrinque 2-3 dein in ramealibus 0-1, quorum proximales ad insertionem folii siti stipulas aemulant. *Synflorescentia* laxissima irregulariter subcorymbosa, ramis elongatis apice incrassatis et recurvatis, capitulis in quoque caule rite 2-4. *Involucrum* e basi umbilicatâ late hemisphaericum dein patelliformi-expansum, parce pubescens vel glabrescens. *Phyllorum* exteriorum et mediorum pars basalis triangulari-ovata ad 2-2.5 mm lata, infra pallida supra ubi ad lucem patet subito atropurpurea; appendix intus eburnea extus saepius virens, patula crasse subulata spinescens recta vel subflexuosa, in phyllis mediis aut vix elongata 3-6 mm longa aut evidenter elongata ad 18 mm longa; phylla interiora linearia, sub apice spinuloso-acuminato subito extus flexa. *Setae* receptaculi candidae, 6-8 mm longae. *Flosculi* e collectore albo-rosei, sicci albi. *Pappus* 13-15 mm longus, setis 3-4-fariis mediocriter (ad c. 2 mm) plumosis (in flosculis marginalibus 2-fariis, brevius plumosis). *Corolla* 15-18 mm longa; tubus 7-8 mm longus; limbus 8-10 mm longus, basi distincte ampliatu, inde tubulosus, per $\frac{2}{3}$ c. longitudinis subaequaliter (in flosculis centralibus) vel inaequaliter (in flosculis exterioribus, differentiâ fissurarum 0.5-0.8 mm) 5-fidus, laciniis basi 0.8-1.1 mm latis. *Staminum* filamenta post anthesin 3.5-5 mm longa, a medio vel parum infra dense longiuscule sublanato-pilosa; tubus antherarum per 1-2.5 mm e corollâ exsertus, 8-10.5 mm longus, 1-1.2 mm crassus, caudis 1.6-2.4 mm longis, appendicibus 2.2-3 mm longis acutiusculis vel api-

culatis. Apex *stylis* 1.4-1.6 mm longus; lobi stigmatiferi lineari-spatulati apice rotundati, per 0.2-0.5 mm liberi, vix hiantes, lateraliter non vel vix (per 0.2 mm) decurrentes. *Fructus* oblique obovoideus crassus, 3.8-4.2 mm longus, 3-3.3 mm crassus, brunneo-griseolus, vittis 5 atrioribus notatus; discus apicalis diametro 1.4-1.6 mm, margine obsoleto.

Habitat in clivis apricis saxosis vel rupestribus et in silvis raris *Pini halepensis*, solo schistoso vel margaceo, inter 600 et 1500 m supra maris aequor. Floret mensibus Junio et Julio.

Area

Regnum marocanum, in parte australi Atlantis rifani endemicus. Vide fig. 35, p. 140.

Specimina visa

Regnum marocanum, Atlas rifanus; in dit. Beni-Zeroual, pr. Zrharin in lat. sept. m. Jebel Outka, 20.6.1928, *Maire* (MPU); in lat. m. Jebel Oursine (= Iguermalez), vs. Tizi Ifri, 24.6.1927, *Font Quer 691* (BM, FI, G, Gr, LAU, MA, MPU, RO); pr. Taineste, 1.6.1929, *Jahandiez 368* (BM, E, FI, G, MA, MPU, P, Z); pr. Meknassa Foukania, inter Taza et Bou-Kellal, 4.1917, *Ducellier* (MPU).

F. *Ptilostemon* sect. *Echinocephale* Greuter, sect. nova. Holotypus: *Ptilostemon echinocephalus* (Willd.) Greuter

– *Chamaepeuce* sect. *Platyraphium* auct. partim (non *Platyraphium* Cass.).

– *Lamyra* vel *Cirsium* sect. *Lamyra* auct. partim (non *Cirsium* subg. *Lamyra* Cass.).

Suffrutex. *Surculi* abbreviati, densissime foliati, post annum lignescentes et aut apice procrecentes aut surculos novellos laterales et caulem capituligerum terminalem edentes. *Folia* sicca persistentia, lobis exclusis anguste linearia margine revoluta, lobis inaequaliter bifidis lacinia proximali indivisa lineari patenti apice in spinam contracta, distali (si evoluta) minore deflexa e basi triangulari subulato-spinosa, integra vel in latere distali vel utrinque spinulam proferente; nervi laterales praeter spinigeros omnino obsoleti. *Synflorescentia* corymbosa. *Phylla* involucri praeter papillas marginales glabra vel dorso praesertim secus marginem crispule pubescentia et araneosa. *Flosculi* exteriores haud fructiferi, pappo in extimis valde reducto setis paucis non plumosis singulatim delabentibus, in sequentibus intermedio setis partim ad medium plumosis basi leviter cohaerentibus. *Pappi* normalis plumosi setae saltem validiores apicem versus laxe irregulariter circumcirca (rarius subbifariam) barbellatae inde scabrae, dein in verticem nudum laevem acicularem desinentes. *Corollae* limbus ad vel paulo ultra