# Aeonium cuneatum: the succulent which comes from the clouds



widespread plants, which almost all succulentophiles have met almost once. They are deservedly famous for their geometrical shape, for their wonderful flowers and for their drought-resistance. Surfing the net it is easy to find photos of them in their main habitat, the Canary Islands, growing in arid hills and on sunny outcrops or thriving in windy valleys.

Aeoniums are quite widespread also in Southern Europe, in California, in Australia and in New Zealand, where they are cultivated in gardens and greenhouses next to cacti and other desert plants, so it is easy to think that all these succulents come from dry regions and have to be

one of them, Aeonium cuneatum.

The first time I saw Aeonium cuneatum I was not particularly impressed. I was visiting the Botanical Garden of Rome and I spotted the plant in a greenhouse, together with many other aeoniums. I duly photographed it, but I was more attracted by other species, such as the big Aeonium urbicum, the bushy Aeonium arboreum or the intriguing Aeonium castello-paivae, which was in blossom. After a year l met again A. cuneatum, this time at Jardin Exotique de Monaco. The plants grew together with other aeoniums and they looked much better than those I saw in Rome, but I did lot linger long before them, since they seemed to me quite normal, ordinary succulents





My first meeting with this wonderful species took place on 15th August. In the morning I went to Chinamada (Anaga), where I saw and photographed many A. lindleyi in full blossom. In spite of the weather, which was rainy and cloudy, the sight of hundreds of aeonium bushes yellow with flowers was unforgettable. On the way back I noticed a few strange plants beside the road, near Taborno, so I stopped to observe them more carefully.

Upon coming closer I was surprised by what I saw. Under the trees, among ferns and moss, there were dozens of A. cuneatum, many having 30-40 cm in diameter. They grow in the under-wood, in the middle of a very wet laurisilya

forest. When I was there, the air was full of humidity, water was trickling from the branches and the soil was very moist. "No country for succulents" I would have thought looking at the sky, full of thick and fast clouds, if I had not seen A. cuneatum thriving there.

I do not know the average weather of that region of Tenerife, but the other parts of the island were very dry when I went there, whereas I always saw clouds over Anaga. Moreover, the plants grow under the trees and, sometimes, they are also hidden by ferns and bushes, so they do not manage to receive much sunlight. Shadow and humidity, however, seem not to be a problem for them.







Tenerife, Pico del Ingles, Aeonium cuneatum, in a less humid habitat than usual.

After returning home I decided to study A. cuneatum more carefully, so I looked for this succulent in books and articles about aeoniums. I soon made an interesting discovery. In fact almost all sources state that A. cuneatum grows both in Anaga and in Teno, but they are very vague about its habitat in the latter region (see table 1). Let us begin with the most recent monograph. Ángel Bañares Baudet, in his Las plantas suculentas (Crassulaceae) endémicas

de las Islas Canarias (2015), states that A. cuneatum grows between 500 and 950 meters in both Anaga and Teno without further information. Joël Lodé, in his Plantas Suculentas de las Islas Canarias (2010), offers more details, since he writes that our succulent can be found between 500-950 m in Anaga, El Bailadero, Cruz de Taganana and Teno.

We learn two precise places in the Anaga region, but none in Teno.

peninsula", whereas Reto Nyffler, in Urs Eggli's Illustrated Handbook of Succulent Plants: Crassulaceae (2003), writes that A. cuneatum grows between 500-900 m in East and West Tenerife, echoing Ho-Yih Liu's Systematics of Aeonium (Crassulaceae) (1989), where the succulent is said to live between "500-950 m, in the laurel forest regions of the eastern and western ends of Tenerife". Liu, on the other hand, was quoting Robert Lloyd Praeger's An account of the Sempervivum Group (1932), where we find out that our succulent grows "at the eastern and

well's Flores Silvestres de las Islas Canarias (1974), where they again write that A. cuneatum grows at the eastern and western ends of Tenerife, but between 600-800 meters. This little experiment of Quellenforschung (a German word which means "looking for the sources") tells us that all authors who wrote about A. cuneatum's distribution (with the possible exception of Schulz) more or less quoted Praeger, whereas the Bramwells probably derived the altitudinal vegetation zone of this species from their experience.







If we leave Teno and return to Anaga, we have more detailed information about the places where Aeonium cuneatum grows. As I said before, I photographed the plant near the TF-12 road at Pico del Ingles, Roque Suarez and Taborno. Other known locations are El Bailadero, Cruz de Taganana, las Vueltas de Taganana, Cruz de Afur, Roque de Anambre, Cumbre de Anaga, las Casill<mark>as and Punta de Anaga.</mark>

The most detailed survey of A. cuneatum distribution in Anaga is still a Latin article published by Carl Bolle (1821-1909) in 1859, after two visits to the Canary Islands in 1852 and 1856 (see Table 1). The original description did not help because Aeonium cuneatum was first published by Sabin Berthelot (1794-1880), a French naturalist, and Philip Baker-Webb (1793-1854), an English botanist who described the species using a plant cultivated in his own garden at Milford, England. We did not know whence the plant came from, but since A. cuneatum is hard to find in Teno and is quite abundant in Anaga, I think that they used a specimen coming from the latter region.





This conjecture, together with the history of botanical literature about A. cuneatum, raises interesting questions.

The succulent has in fact been studied, apart from Burchard and Praeger, using only plants coming from Anaga. Moreover, it is not clear whether these authors compared the speciAnaga or not. If they did so, they did not write it in their works.

The western and eastern peninsulas of Tenerife are quite apart and A. cuneatum is nowhere to be found in the center of the island. How can we explain this distribution?







readers with a short description of it. A. cuneatum is a perennial succulent, sometimes epiphytic, whose rosettes, up to 40 cm (or more) in diameter, are often solitary, but they sometimes develop stolons up to 25 cm long (Praeger 1932), which appear, according to Burchard,

The green-bluish leaves are rigid, quite fleshy, obovate to obovate-oblanceolate, mucronate, finely ciliate, usually 10-30 cm long and 5-8 cm wide, but there are also bigger plants, with leaves up to 40 cm long. The inner leaves sometimes form a cup

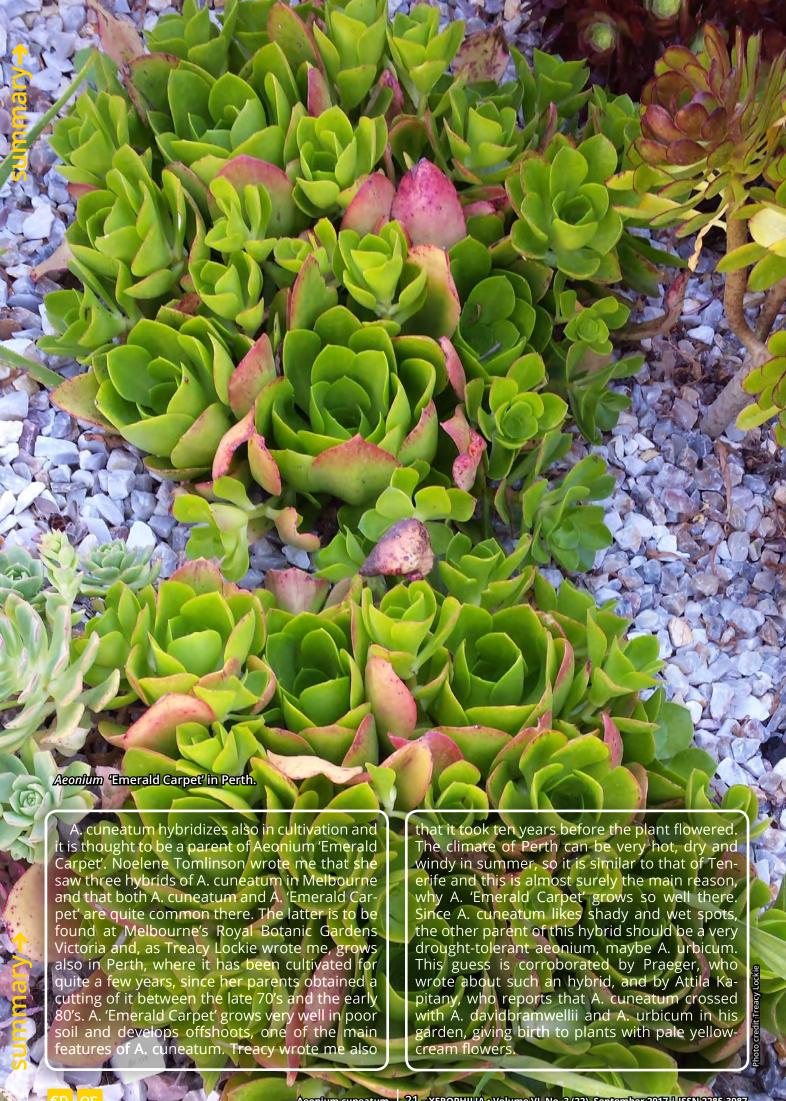




low, petals 7 mm long" (Praeger's translation, published in 1932). Praeger found two hybrids, one nearer to A. cuneatum and another nearer to A. canariense, at the head of Barranco Tajodio (or Tahodio), above a 30-foot waterfall at 700 meters. During the late Twenties, when

only extant illustration of the plant, published on plate IX (figure 4) of Praeger's article (1929), which, however, is of very little help, since it is only a quick sketch of the leaves. The plant was previously called Aeonium x bramwellii by Gordon Rowley (Jacobsen & Rowley 1973).











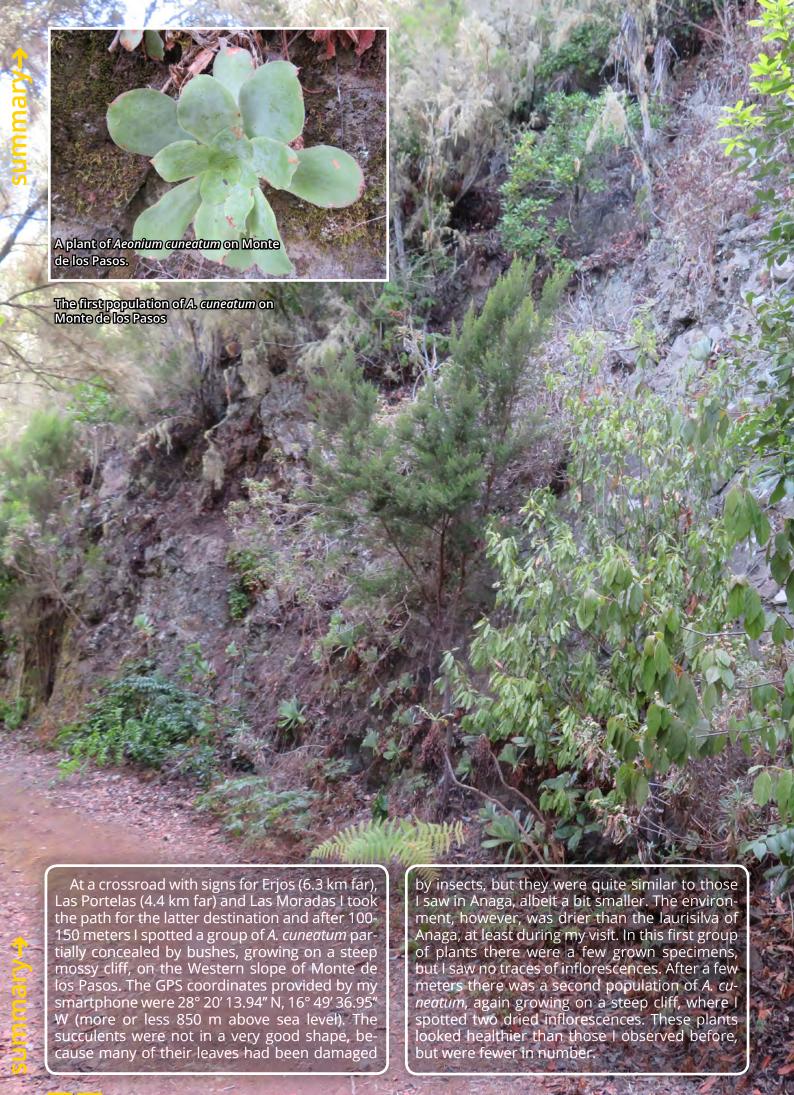


Bañares (2015) too stresses the importance of humidity and writes that A. cuneatum needs an environment similar to its habitat. When I am writing this article (May 2017), I have been growing this plant for ten months and I agree that it can

be a difficult species, since its growth is slow and it is easily attacked by mealy-bugs if kept indoors during winter. However, if one lives in a frost-free and not too arid area, I would recommend this succulent, because it is really a wonderful plant.











#### Table 1: Aeonium cuneatum

## distribution according to literature

Banares Baudet 2015	Elemento termomediterráneo relegado a los ambientes más húmedos del monteverde en Tenerife (Anaga y Teno) donde crece en sectores escarpados y sotobosque así como epifitico de árboles de esta formación forestal, desde los 500 a 900 m s.m.
Lodé 2010	Tenerife (Anaga, El Bailadero, Cruz de Taganana, Teno) [] <i>Aeonium cuneatum</i> grows between 500-950 m in alt., in the laurel forest, on cliffs or soil banks, sometimes on trees, in relatively wet habitats.
Carbonell 2007	Medium-high wooded areas of Tenerife: Anaga, El Bailadero, El Teno and Taganana.
Schulz 2007	In clearings in the dense evergreen laurel forest on Tenerife's wet and windy northeast peninsula.
Nyffler 2003	Canary Islands (E and W Tenerife); 500 - 950 m, laurel forest region in fairly humid habitats.
Liu 1989	Common on rocks, soil banks, and among bushes, occasionally on trees, in fairly moist habitats; 500-950 m; in the laurel forest regions of the eastern and western ends of Tenerife, Canary Islands.
Bramwell 1974	Limitada a los viejos bloques montañosos en cada extremo de la Isla, Anaga y Teno, riscos de bosques y terraplenes, común localmente por la cumbre de Anaga, Cumbres de Taganana, El Bailadero, 600-800 m.
Praeger 1932	Canary Islands: Tenerife, locally abundant at the eastern and western ends of the island, on rocks, banks and among bushes, about 1500 to 3500 feet.
Praeger 1929	Dr. Burchard told me that he had found this plant near the western end of the island (it had been known previously only from the Anaga area, in the extreme east), so I was not surprised when I saw it in abundance in several places in the great wooded valley behind Los Silos, 750-1050 meters. Both here and at Anaga it may be found growing in woods in deep shade, among luxuriant ferns and <i>Selaginella</i> , as well as in exposed situations.
Burchard 1929	Ist es sehr auffallend, daß sich mehrere nur und ausschließlich im Anaga-Gebirge bekannte Sondertypen von Crassulaceen jetzt auch im Tenogebirge haben nachweisen lassen, welche sonst absolut nirgends vorkommen, <i>Aeonium cuneatum</i> und die bisher als große Seltenheit bekannte <i>Greenovia gracilis</i> . (p. 43) [] Im Tenowalde findet sie [ <i>Prunus lusitanica</i> ] sich etwas unterhalb der fuente de Calera, einer anderen Quelle in 750 m Höhe, auch ist weiter oben an Felsen der cumbre <i>Aeonium cuneatum</i> in großen Mengen. (p. 45) [] Die Art war bisher nur aus dem Anagagebirge bekannt, wo dieselbe auf den Felsen der Cumbre, etwa vom Cruz de Afur beginnend, nach Osten zu immer häufiger wird und in der Umgebung des Ostabsturzes der Insel beim Roque de Anambre. Massenvegetation bildet, hier auch vielerorts auf den Humusboden der Wälder übergeht, 700-1000 m. Schon vor vielen Jahren entdeckte ich dies <i>Sempervivum</i> an den feuchtesten Stellen der Teno-kette im Westen, wo ich das Bild (Taf. 40) bei der Fuente de Calera (750 m) aufnahm. Die Art dringt hier kaum tiefer in die obere Küstenzone hinab. Sie fehlt völlig im zentralen Teile der Insel. (p. 128)
Pitard-Proust 1908	Vueltas de Taganana (Bourg.); Punta de Anaga (Christ).
Bornmueller 1904	Teneriffa: in rupibus montium Anagae inter Cruz de Afur et Cruz de Taganana (n. 657), in jugo inter Taganana et San Andres, c. 900 m s. m
Bolle 1859	Habitat in Nivaria quam maxime septentrionali secus viam sylvosam las Vueltas de Taganana; abunde in lauretis et dendro-ericetis supra vallem las Palmas et inde ad Punta de Anaga et las Casillas usque nec non ubi ima vallis S. Andreae jugum Cumbre de Anaga dictum attingit.

### Table 2: Aeonium cuneatum

## in literature - page 1

	BAÑARES BAUDET 2015	Lodé 2010	CARBONELL 2007	Nyffler 2003	Liu 1989	Bramwell 1974	Praeger 1932	Burchard 1929	WEBB & BERTHELOT 1841
Name	Aeonium cuneatum Webb & Berthelot, Hist. Nat. Iles Canar. (Phytogr.) 3 (2.1): 197 (1841) (Góngaro de Anaga).	Aeonium cuneatum Webb & Berthelot 1841.	Aeonium cuneatum Webb & Berthelot (Phyt. Canar. 197).	A. cuneatum Webb & Berthelot (Phytogr. Canar. 1: 197, 1841).	Aeonium cuneatum Webb & Berth., Hist. Nat. Iles Canaries 3(2.1): 197. 1841.	A. cuneatum Webb & Berth.	Aconium cuneatum Webb & Berth.	Sempervivum cuneatum W.B.	Aeonium cuneatum Nob.
Туре				Canary Islands (Anonymus s.n. [not located]).	Spain, Canary Islands, detailed locality, collector and date unknown; cultivated in Webb's own garden at Milford, England (type specimen has not been located in the Webb herbarium).				
Synonymes	Sempervivum cuneatum (Webb & Berthelot) Webb & Berthelot ex Christ 1888.			Sempervivum cuneatum (Webb & Berthelot) Webb ex Christ (1888).	Sempervivum cuneatum (Webb & Berth.) Webb & Berth. ex Christ, Bot. Jahrb. Syst. 9:161. 1888.		Aeonium cuneatum Webb & Berth. Phyt. Canar. 1, 197 (1840) Sempervivum cuneatum Webb & Berth. I.c. (1840).	Aeonium cuneatum Webb.	Sempervivum cuneatum Nob. in hort. Milf.
Habit	Cespitoso, de hasta 20 cm de alto, suacaule, a menudo estolonìfero.	Herbaceous succulent, sometimes epiphytic.	Ascending, rosetted plant.	Perennials, rosettes solitary or ccasionally off-setting.	Perennial terrestrial or epiphytic herbs.	Planta arrosetada.			
Stems		Very short, often stoloniferous stems.	Very short.	Stout, glabrous, smooth.	Very short, often stoloniferous, 0.5-3 cm diam., brown, erect.		Usually very short or decumbent.	Kurz, stark.	Caule fruticoso, crasso.
Stolones					To 25 cm long, decumbent, glabrous, leafy.		Few, strong, horizontal, on leafy stems up to 25 cm long.	Zahlreiche Ausläufer mit Tochter- rosetten umgeben die Hauptrosette, welche zuerst zur Blüte gelangt.	
Rosettes	De 20-40 cm de diámetro.	15-20 cm in diam.	Very tight [] greyish green colour, almost a bluish green.	15 – 50 cm diameter, cup-shaped.	15-50 cm diam.; phyllotaxy 5/13.		Very large, up to 1,5 foot across, canariense-like, the inner leaves forming a cup.		
Leaves	Glaucas, cuneadas y mucronadas, de 12-30(40) x 5-8 cm, glabriúsculas.	Fleshy [] obovate- oblanceolate to cuneate, glaborus, stiff, arranged horizontally, those of centre ascending, sometimes waved, bluish- glaucous.	Long and wide [] oblong-spathulate [] have a mucronate tip. They are concave, rigid and completely glabrous.	Inner leaves generally tightly appressed to each other; leaves 10-25 x 5-8 cm, 5-9 mm thick, obovate or obovate- spatulate, apically acute, mucronate, basally cuneate, glabrate, [] occasionally slightly undulate.	Obovate to obovate- oblanceolate, 10-25 cm long, 5-8 cm wide, narrowly transversely rhombic in cross-section, 5-9 mm thick, glabrate, at base cuneate, at apex mucronate, [] and sometimes with portions of margin undulate.	Ascendentes sobre- saliendo, horizontales. Hojas rígidas, glabras, azulglauco, más ó menos oblongas, el ápice mucronado.	Rigid, glabrous, glaucous in shelter or when young, elongate-cuneate, broadest near apex, up to 25 cm long, 8 cm broad above, 5 cm broad at base, acute and mucronate at apex.	Mit schmal spatel- förmigen, völlig glatten unbehaarten, bläulich- grünen Rosetten- blättern. [] Die jungen Blätter neigen sich eiförmig zusammen.	Foliis rigidis, elongato- cuneatis, laete viridibus, apice mucronatis, ad basim sensim attenuatis 4- gonis.
Cilia	Margen con cilios cilìndricos.	With the margins very finely ciliate.		Margin with conical cilia (≤ 0.4 mm).	At margin ciliate with conical unicellular trichomes c. 0.4 mm long.	Bordes sutilmente ciliados.	Margins finely and evenly ciliate. Cilia patent, crowded, almost cylindrical blunt hyaline.		Margine breviter ciliatis.
Phenology	En abril-mayo.	April-June.	From April to June.		Flowering from April to June.		Aprile-June.	Die Blütezeit ist wenig später als die von Aeonium canariense.	
Flowering stem						Tallo floral frondoso, hasta 1 m de altura.	Terminal, up to 3 or 4 feet long or more, very leafy, with decreasing leaves.		

#### Table 2: Aeonium cuneatum

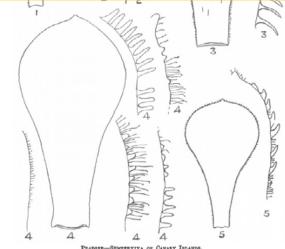
## in literature - page 2

	BAÑARES	Lodé 2010	CARBONELL 2007	Nyffler 2003	Liu 1989	BRAMWELL	Praeger 1932	BURCHARD	WEBB &
	BAUDET 2015					1974		1929	BERTHELOT 1841
Inflorescences	Cónica; pedunculos y pedicelos pubescentes.	Conical, with flowers golden yellow in 8-10 parts.	Very tall and luxuriant.	18-60 x 12-30 cm; peduncle 15-50 cm, leafy.	18-60 cm long, 12-30 cm diam.	Cónica.	Occupying the upper third of the stem, 1 to 2 feet long, clongate-conical in outline, with alternate, glandular- hairy branches, sparingly bracteate in lower part, [] branching above into 6 to 12 simple or di- or trichotomous branchlets.	Der Blütenschaft erreicht Meterlänge.	
Bracts							Ovate acuminate.		
Buds							Ovoid, pointed.		
Flowers	8-9 partidas.		Golden coloured flowers.	8- to 9-merous.		Amarillo dorado, 8- a 10-partidas, planas.	Subsessile [], 8-to 9-parted, golden, flat.		
Calix	Pubescente; segmentos deltoides, agudos.						Densely glandular- pubescent, cup- shaped, 6 mm long, cut half-way down into ovate-lanceolate or deltoid-lanceolate acute segments.		
Pedicels				1-6 mm, puberulent.	1-6 mm long, puberulent.				
Sepals				Puberulent.	8-9, triangular, 3-4 mm long, 1.2-1.6 mm wide, puberulent, at apex acute.				
Petals	Amarillo-oro, linear- lanceolados, agudos y de margen serrulado.			6.5-7.5 x 1.3-1.6 mm, oblanceolate, acuminate, yellow.	Oblanceolate, 6.5-7.5 mm long, 1.3-1.6 mm wide, yellow, glabrous, at apex acuminate, at margin minutely denticulate.		Non contiguous, linear-lanceolate, finely subserrate, very acute, 7 mm long.		
Stamens	Glabros.				With interpetalous ones 5.5-6 mm long, with antipetalous ones 5-5.5 mm long.		Yellow, 6 mm long.		
Filaments				Glabrous.	Glabrous.				
Carpels	Puberulentos en su cara adaxial.				With ovaries 3-3.5 mm long, c. 1.8 mm diam., sparsely puberulent adaxially.		Slender, pale green, 6 mm. Long.		
Anthers					Yellow.				
Styles					3.5-4 mm long.		Equalling or slightly longer than ovaries.		
Nectaries	Subcuadrados, algo ensanchados en el ápice.				Widely obovate, c. 0.7 mm long, 0.6 mm wide, greenish, at apex rounded and slightly emarginate.	Subcuadradas o redondeadas.	Roundish- subquadrat, broader above, 0.75 mm long and broad, greenish.		
Citology					n = 18				









Aeonium × tahodiense, in Praeger 1929, plate IX, fig. 4.

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#### **Bibliography**

- M. AFFERNI, Le Dracaena draco nel Barranco de Igueste a Tenerife (Canarie), in Piante Grasse, 35(4): 2-13: 5 (bella fotografia).
- Á. BAÑARES BAUDET, Híbridos de la familia Crassulaceae en las islas Canarias IV, in Vieraea, 35 (2007), pp. 9-32: 17 (descrizione dell'ibrido Aeonium x tahodiense).
- Á. BAÑARES BAUDET, Las plantas suculentas (Crassulaceae) endémicas de las Islas Canarias, Santa Cruz de Tenerife 2015, pp. 81-83 (dettagliata descrizione con fotografia, illustrazione e mappa della distribuzione).
- C. BOLLE, Addenda ad floram Atlantidis, praecipue insularum Canariensium Gorgadumque, in Bonplandia, 7 (1859), pp. 238-246: 239 (ottima descrizione latina).
- J. BORNMÜLLER, Ergebnisse zweier botanischer Reisen nach Madeira und den Canarischen Inseln, in Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie, 33 (1904), pp. 387-492: 429. (breve descrizione)
- O. BURCHARD, Beiträge zur Ökologie und Biologie der Kanarenpflanzen, Stuttgart 1929, pp. 43-45, 128. (descrizione molto dettagliata, che menziona le piante presenti nel Teno)
- E. CARBONELL, Cuadernos de succulencia, Barcelona 2007, p. 78 (breve descrizione con due immagini).
- H. CHRIST, Spicilegium Canariense, in Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie, 9 (1888), pp. 86-172: 111, 161 (breve descrizione che segue Bolle).
- H. JACOBSEN, Lexicon of Succulents Plants, London 1974, pp. 33-34 (brevissima descrizione).
- H. JACOBSEN & G. ROWLEY, Some name changes in succulent plants: Part V, in National Cactus and Succulent Journal, 28(1973), pp. 4-7:5 (descrizione dell'ibrido Aeonium x bramwellii).
- H.Y. LIU, Systematics of Aeonium (Crassulaceae), Special Publications Number 3, Taichung (Taiwan) 1989 (descrizione accurata priva di immagini).
- J. LODÉ, Plantas Suculentas de las Islas Canarias, Santa Cruz de Tenerife 2010 (informazioni chiare con immagini nitide).

- R. NYFFLER, Aeonium cuneatum, in URS EGGLI (ed.), Illustrated Handbook of Succulent Plants. Crassulaceae, Berlin-Heidelberg 2003, p. 18 (descrizione precisa senza fotografie).
- J. PİTARD & L. PROUST, Les Îles Canaries. Flore de l'archipel, Paris 1908, p. 190 (brevissima descrizione).
- L.R. PRAEGER, Notes on Canarian and Madeiran Semperviva, in Transactions and Proceedings of the Botanical Society of Edinburgh, 29 (1925), pp. 199-217: 204. (breve commento)
- L.R. PRAEGER, Semperviva of the Canary Islands Area, in Proceedings of the Royal Irish Academy. Section B: Biological, Geological, and Chemical Science, 38 (1928/1929), pp. 454-499: 472. (articolo fondamentale per gli ibridi e la distribuzione di A. cuneatum)
- L.R. PRAEGER, An account of the Sempervivum Group, London 1932 (reprinted New York 1967 and Lehre 2012), pp. 136, 142-143 (la descrizione più dettagliata che ho letto, con illustrazioni in bianco e nero).
- R. SCHULZ, Aeonium in habitat and cultivation, San Bruno (California) 2007, pp. 62-63 (buona descrizione con fotografie).
- P.B. WEBB & S. BERTHELOT, Histoire naturelle des îles Canaries, vol. 3.2.1, Paris 1841, p. 197 (prima descrizione latina, molto breve).

#### Sitography

- https://de.wikipedia.org/wiki/Aeonium\_cuneatum (buona descrizione con fotografia di una pianta in fiore)
- https://en.wikipedia.org/wiki/Aeonium\_cuneatum (breve descrizione con fotografia di una pianta in fiore)
- https://es.wikipedia.org/wiki/Aeonium\_cuneatum (breve descrizione con fotografia di una pianta in fiore)
- http://www.floradecanarias.com/aeonium\_cuneatum.html (brevissima descrizione con fotografie di infiorescenza e fiori)
- http://www.crassulaceae.ch/de/artikel?akID=2&aaID=2&aiID= C&aID=3033 (descrizione di Nyffeler in inglese e francese con ottime fotografie)
- http://www.crassulaceae.ch/de/artikel?akID=22&aaID=3&aiID= B&aID=4741 (descrizione di A. x bramwellii)
- http://www.crassulaceae.ch/de/artikel?akID=22&aaID=3&aiID= E&aID=2810 (A. 'Emerald Carpet')
- http://www.biodiversitylibrary.org/item/668#page/170/ mode/1up (articolo di H. Christ)
- http://echo.mpiwg-berlin.mpg.de/zogilib?fn=/permanent/humboldt/webb\_histo\_fr\_01\_1836/017-01-pageimag&pn=206 (prima descrizione)

#### Notes

(1) **Laurel forest**, also called laurisilva or laurissilva, is a type of subtropical forest found in areas with high humidity and relatively stable, mild temperatures. The forest is characterized by broadleaf tree species with evergreen, glossy and elongated leaves, known as "laurophyll" or "lauroid". Plants from the laurel family (Lauraceae) may or may not be present, depending on the location.