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Cordylogyne globosa

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Cordylogyne globosa E.Mey.

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Cordylogyne globosa grows from a perennial tuber that looks somewhat like a white carrot, into long, slender stems and leaves, hidden amongst other tall grasses in the habitat that it shares, and makes the plant very difficult to locate when not in flower or fruit.

Plant Attributes:**Plant Type:** Bulb,
Perennial**SA Distribution:** Eastern
Cape, KwaZulu-Natal**Soil type:** Loam



Description

Perennial, sedge-like, geophyte, with herbaceous aerial stems, 120–750 mm high. Stems solitary to few, erect or lax-ascending from a perennial rootstock. Leaves opposite, erect, linear, 37–67 × 0.7–3.0 mm, glabrous; margins revolute.

Flowering season: Spring,
Early Summer

PH: Acid, Neutral

Flower colour: Green,
White, Cream

Aspect: Full Sun

Gardening skill:
Challenging

Special Features:

 Wet sites

Horticultural zones



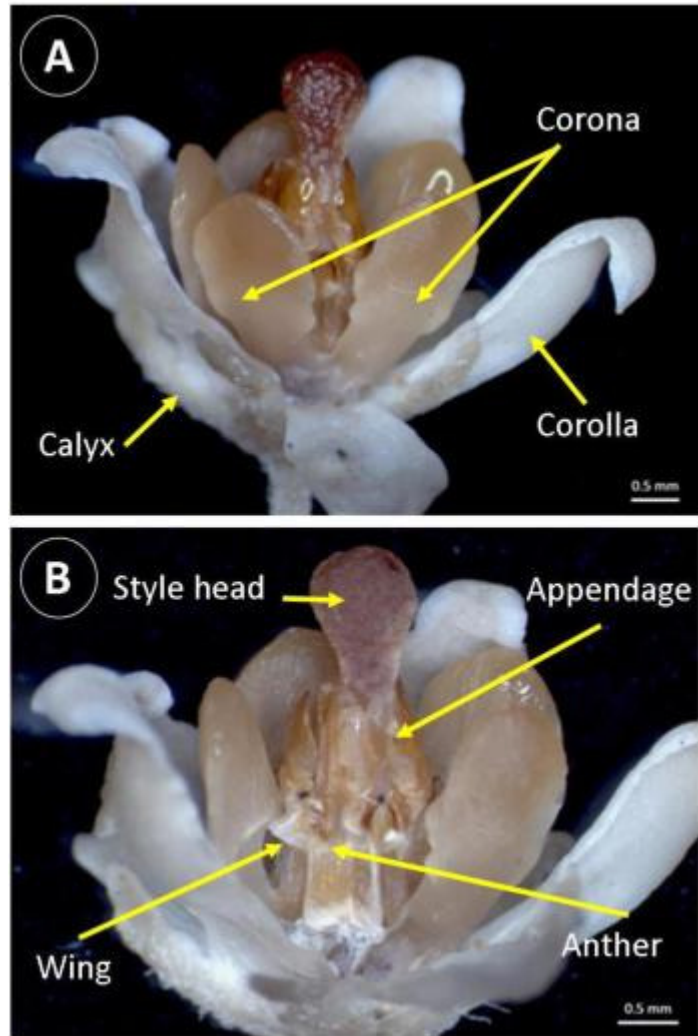
Zone 1 Coastal summer rainfall, frost free

Zone 4 Summer rainfall Karoo and Highveld, Frost in winter

Zone 5 Bushveld summer rainfall, Light frost



Inflorescences terminal, globose, compact umbels, 10–25-flowered; peduncle 25–170 mm long. Flowers green and white, brownish white and pink. Corolla erect, oblong, 4.5–5.5 × 1.5–2.5 mm, apex blunt. Staminal column not stipitate. Staminal corona white or greenish cream-coloured; lobes columnar, apex inflated, 2.0–2.5 mm high, 1.0–1.5 mm wide; 2 vertical ridges on inner surface terminating in upper third by horizontal, deltoid tissue flap, level with style-stigma-head; interstaminal corona lobes minute, tooth-like. Anthers: appendages resting against elongated, large, club-like protrusion of style-stigma-head.

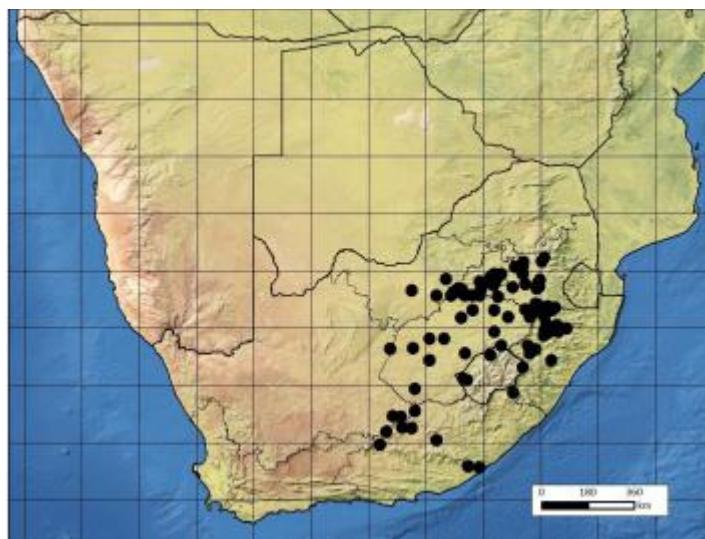


Follicles solitary, erect, narrowly fusiform, smooth; stalk straight. Flowering time is summer to autumn, Nov.–Feb.(–Apr.).



Conservation Status

As wetlands are amongst the most threatened habitats in South Africa, and home to this species, it is indirectly threatened due to loss of habitat. This will definitely lead to a decline in populations of this species. It is currently listed as Least Concern (LC) possibly because of its wide distribution, and as this taxon was not selected in any one of four screening processes for highlighting potential taxa of conservation concern for detailed assessment, it was hence given this automated status (Foden & Potter 2005).



Distribution and habitat

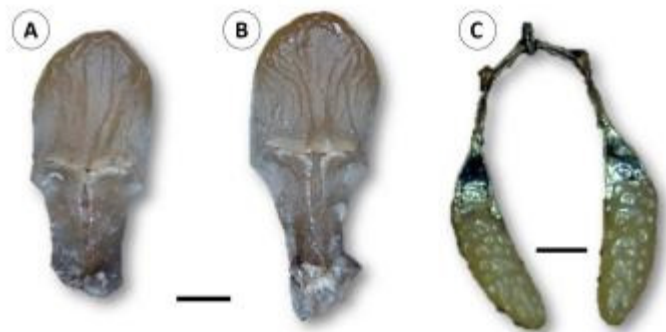
Plants are usually associated with moist or seasonally moist situations in damp or marshy grassland. Specimens of *Cordylogyne globosa* are exclusively collected from wetlands, marshy areas and floodplains. Plants are also found in regionally arid areas, but where the microhabitat is wet enough for it to establish. This species flowers during the summer months from October to March with a peak in the wetter periods between November and February. It has a wide altitudinal range between 1 000–2 000 m.

This species is widespread in Lesotho, South Africa (Eastern Cape, Free State, Gauteng, KwaZulu-Natal, Mpumalanga, Northern Cape and North-West Provinces) and Swaziland.



Derivation of name and historical aspects

The generic name is derived from the Greek words *cordyle* meaning 'a club' and *gyne* 'female', with reference to the central gynostegial head that is club-shaped. The specific epithet *globosa* is the Latin word for 'round' and refers to the shape of the inflorescence. This is one of only two species in the genus: *C. argillicola* is rare and a Namibian endemic known from only 2 populations in the vicinity of Windhoek.



Ecology

Although not observed, *Cordylogyne globosa* probably has the same pollinator-assemblage as its near relative *Periglossum angustifolium*, that includes species of *Hymenoptera*, *Pompilidae* and *Hemipepsis* (Shuttleworth & Johnson 2009). After successful pollination, the long follicles (fruits) develop. These split along a single zone in the length of the fruit and release the seeds. Each seed contains a plume of long, white hairs that quickly dries after the fruit has opened and spread out in a parachute-like fashion. The seeds are carried off by the slightest breeze and disperse to a favourable spot where a new plant will establish. The flowers are relatively short-lived and last for only a few days.



Uses

Literature is lacking of information on both their use for medicine, food or other use in cultural activities. If seed could be found, it would make an interesting and perhaps challenging subject to grow.

Growing *Cordylogyne globosa*

As far as could be established, this plant is not grown in cultivation. Plants probably grow best from fresh seed, and if this could be obtained, it would make for a difficult subject to grow, as no information on its cultivation is available. Best practise for growing indigenous species is to try and simulate the natural growing conditions, which in this case, is frequent watering and growing seed in a medium of loam soil with a high organic content. Due to the species having a tuberous rootstock, it would probably make a good subject for a container plant.

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