

New Bolivian Cacti, II (Martin Cardenas)

Rebutia arenacea ⁽¹⁾ sp. nov.

Simplex saepe caespitosa subplana, vertice umbilicata, 2-3,5 cm. alta, 2,5-5 cm. lata, flavo viridis. Costae 30 spiralia disposita, in tubercula (3 mm. lata) dissolutae. Areolae oblongae densissime flavo-albi tomentosae, 2,5 mm. long. Aculei 14-16 tenuis, aciculari-setosis, pectinatis, adpressus plus minusve 5 mm. long. arenae albo-flavi pubescenti. Flores 5-6 e latere vel basim corporis, 3 cm. long., 3 cm. lata, aureis, infundibuliformis; ovarium parvum e basim pilosum, ceterum nudus; tubus squamis paucis praeditus; phylla perigoni interiora 13 mm. longa acuta; stamina inaequilonga numerosa; filamentis aureo-flavis; antheris pallide flavidis; stylo 1,5 cm long, flavidi temperatis; 5 ramis stigmaticis albidus, 3 mm. long. coronatus.



Simple or caespitose, globose flattened deeply umbilicate, 2-3,5 cm. high, 2,5-5 cm broad. Ribs about 30, spirally arranged and broken into 3 mm. broad tubercles. Areoles 3 mm. apart, obliquely transverse in relation to the direction of the ribs, elliptic, 2,5 mm. long, with grey-creamy silky dense felt. Spines all radial, pectinate, 6-7 on each side of the areole plus one on each apex; all spines bristle-like, about 5 mm. long, appressed, interlaced and covered by short silky cream-colored hairs. Flowers 5-6 from the base or the equatorial section of heads, funnel-form, 3 cm. long and 3 cm. wide when open. Ovary hairy at its base only, naked above, with broad, somewhat orbicular and abruptly mucronate, imbricate red-

brown scales. Tube short, about 3 mm. long, 4 mm. wide, slightly bent. Outer perianth segments scale-like, few, spatulate, mucronate, 7 mm. long, 3 mm. broad, brownish tips; inner segments 3 mm. long, acute, somewhat striate, yellow-orange. Stamens from the base of the tube to the base of the petals; filaments golden-yellow, anthers light yellow. Style 1,5 cm. long, light yellow, longer than the stamens. Stigma rays 5, whitish, 3 mm. long.

Bolivia: Department of Cochabamba, Province of Ayopaya, near Tiquirpaya, about 10 to 15 kilometers towards Santa Rosa, alt. 2.200 m., *E. Rocha* June, 1949 (type in Herbarium, cotype in U.S. National Herbarium).

This new species is related to *Rebutia Krainziana* Kesslrg. but differs by its more numerous spines and the smaller golden-yellow flowers.

⁽¹⁾ The name *arenacea*, which means sandy, refers to the appearance of the spines, which look as if covered by loose sand.

Rebutia glomeriseta sp. nov.

Caespitosa, globosa paulo subumbilicata, pallide viridis, 5-6 cm. diam. Costae 20, in tubercula 5 mm. diam. dissolutae. Areolae 4 mm. distantes, 2 mm. diam. primum pallide bruneis vel albidus deinde atro cinereis tomentosa. Aculei setosis, numerosis, glomerantes, 2-3 cm. longis, albis. Flores singulares e latere basim corporis, 2,5 cm longi, aureis. Ovarium 4 mm. diam. pallide flavis, nudum, squamis latis lilacinum praeditus; tubus 3-4 mm. long. cum squamis, ceterum nudus. Phylla perigoni interiora oblonga linearis 7 mm. long. Stamina numerosa, filamentis albis, antheris flavis. Stylo 11 mm. long. albis; stigma 4-ramis pallide flavidis.



Caespitose, globose, about 5-6 cm. diameter. Ribs about 20, spirally arranged and broken into round 5 mm.

tubercles. Areoles

4 mm. apart, about 2 mm. diam.; young areoles light brown or whitish felted, prominent, circular; old areoles dull gray felted. Spines bristle-like, numerous, 2.3 cm. long, white, rather appressed, interlaced and hiding the light green and umbilicate stems; top bristles shorter, reddish brown; all bristles thin, thread like, flexible.

Flowers single, from the lower and lateral portions of stems, 2,5 cm. long, golden yellow. Ovary 4 mm. diam., light yellow, with broad lilac

marginated scales. Tube short 3-4 mm. long, bearing few scales, without hairs. Outer perianth segments 6 mm. long, 1,5 mm broad, mucronate, yellow, lilac tinged. Inner segments 7 mm. long, 2 mm. broad, yellow. Stamens in two rows; filaments white, anthers yellow. Style about 11 mm. long, white. Stigma lobes 4, light yellow, 3 mm. long.

Bolivia: Departement of Cochabamba, Province of Ayopaya, near Naranhito, Hacienda Choro, on the way to Rio Cotacajes, 1.800 m. *E, Rocha* 4399 April, 1949 (Type in Cárdenas Herbarium, cotype in U.S. National Herbarium).

This species from the northern area of the genus *Rebutia* appears to be completely distinct from any of the Bolivian species.

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