

## New descriptions

### Nové popisy

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### ***Thelocactus panarottoanus* Halda spec. nov.**

**Descriptio:** Species in editione prima operis nostri depicta, *T. rinconensis* proxima, sed flores anguste infundibuliformes, auratae; semina *T. conotheli* similis.

Corpus globosum, 70-150mm diametiens, (postem multicephalum ad 400mm diametiens), pars eius olivacea vel purpurascens; tubercula conica, usque ca 25mm longa et 35mm lata. Spinae centrales plerumque 5, 100-120mm longae; spinae laterales 7-8, 20-40mm longae, albae, luteae vel tenebrae. Flores anguste infundibuliformes, autem latiores ad 35mm ostendit; perianthii phylla lanceolata, ca 30mm longa, integerrima, atroarei-lutea, externa stria media purpurea ornata. Fructus urniformis, ca 15mm longus. Semen nigrum, ca 3x1.5mm magnum; testa microgranulata; hilum ca 1mm longum.

**Holotypus:** PR no. PP8502130 leg. Paolo Panarotto 10.2.1985.

**Patria et Distributio:** Mexico septentrionalis, San Luis Potosi [in vicinitate pagi La Hincada], in declivibus petrosis, solo calcareo ad 1100m supra mare.

### ***Turbincarpus saueri* subspecies *nelissae* Halda et Panarotto subsp. nov.**

**Descriptio:** Corpus simplex, globosum, basi napiforme, ca 60-70mm latum et 70-80mm longum, pars eius atroviridis, postem brunneo-violacea; tubercula semi-ovalis, quadricostata, usque 3-5mm longa; spinae radiales 8-14, albae, 0.5-10mm longae; spina centralis 1, curvata, nigra, 10-35mm longa; flos infundibuliformis ca 20mm longus; perianthii phylla lanceolata,

10-18mm longa, alba vel lactea, stria media rosea ornata; fructus urniformis ca 6mm longus; semen obovoideum, ca 1mm longum; testa nigra, tuberculata; hilum albicans, ca 0.3mm longum.

**Holotypus:** PR no. PP8502144, leg. Paolo Panarotto 9.2.1985.

**Patria et Distributio:** Mexico septentrionalis, Tamaulipas [in vicinitate pagi Bustamante], in declivibus petrosis, solo calcareo.

### ***Turbinicarpus pailanus* Halda et Panarotto spec. nov.**

**Descriptio:** Corpus simplex, sub-globosum, basi napiforme; pars eius ca 60mm lata et 50mm longa, olivaceo-viridis postem brunescens; tubercula irregulariter pyramidalis, quadrangularis, basi rhomboidea, usque ca 5mm longa et 4mm lata; spinae centrales usque 2, ca 25mm longae, una erecta et secunda horizontalis; spinae radiales 11-16, albae, rigidae, ca 10mm longae; flores infundibuliformes, autem latiores ad 24mm diametens ostendit; perianthii phylla lanceolata, integerrima, acuta, atro-armeniaceo-lutea, stria media purpurea ornata, marginibus dilutis; fructus urniformis, ca 12mm longus; semen nigrum, testa granulata, hilum ovato-discoideum, dilutum.

**Holotypus:** PR no. PP850477, leg. Paolo Panarotto 7.4.1985.

**Patria et Distributio:** Mexico septentrionalis, Coahuila [Sierra de la Paila], in declivibus petrosis, solo calcareo.

### ***Ariocarpus retusus* subsp. *jarmilae* Halda, Horacek et Panarotto subsp. nov.**

**Descriptio:** affinis subsp. *retusus* sed plantis minoribus, ad 70mm altis et 90mm latis; tubercula ca 25mm diametens, espinosa, pars apicalis attenuata, epidermis glauco-cinerea, irregulariter granulata; flores minoribus ad 30mm longis, perianthii phylla obovata, integerrima, obtusa, atro-armeniaceo-lutea; fructus urniformis, tantum ca 15mm longus; samem ca 1.2mm magnum, obovoideum, testa nigra, verrucosa, hilum albicans.

**Holotypus:** PR no. JJH8511038, leg. J. J. Halda 3.11.1985.

**Patria et Distributio:** Mexico septentrionalis, Nuevo Leon [in vicinitate pagi La Asuncion], in declivibus petrosis, solo calcareo.

***Ariocarpus retusus* subsp. *horaceki* Halda et Panarotto subsp. nov.**

**Descriptio:** affinis subsp. *scapharostroides* sed tubercula subtus profunde bicarinata; organa reproductionis cum varietatae typica conformia.

**Holotypus:** PR no. JJH8511035, leg. J. J. Halda 5.11.1985.

**Patria et Distributio:** Mexico septentrionalis, San Luis Potosi [in vicinitate pages Matehuala et Palmas], in summo collis, solo calcareo.

***Ariocarpus retusus* subsp. *panarottoi* Halda et Horacek subsp. nov.**

**Descriptio:** affinis subsp. *retusus* sed corpus simplex, discoideo-globosum; pars eius olivaceo-viridis, 50-70mm longa et 100-120mm lata; pars hypogaea pseudobulbosa, 100-220mm lata et 70-100mm longa; tubercula triangularis, subtus more or less carinata, usque 70mm longa, basi ca 50mm lata; epidermis laevis, olivaceo-viridis;

**Holotypus:** PR no. PP851028, leg. Paolo Panarotto 2.10.1985.

**Patria et Distributio:** Mexico septentrionalis, Tamaulipas [in vicinitate pages Tula et Mama Leon], in summo collis, solo vulcanico ad 1000-1500m supra mare.

[The hypogeous part of this taxon is ca three times larger than the emerging part, creating a large "pseudobulb"].

***Ariocarpus scapharostrus* var. *swobodae* Halda, Horacek et Panarotto var. nov.**

**Descriptio:** affinis var. *scapharostrus* sed tubercula mollis, brevis, epidermis atro-glaucocinerascentia, irregulariter rugosa; flores minoribus, ad 25mm longis; seminibus minoris.

**Holotypus:** PR no. HS85110608, leg. Heinz Swoboda 6.11.1985.

**Patria et Distributio:** Mexico septentrionalis, Nuevo Leon [ca 40km ad septentriones versus Rayones], in clivis schistosis ad orientem versus secundum flumen.

[Known as a "soft *A. scapharostrus*"].

### ***Conophytum jarmilae* J. J. Halda spec. nov.**

**Descriptio:** Corpora nana, costata, glabra, firma, epidermide glauco vel pallide-purpurascens; floribus mediis, petalis roseis aut purpureis raro lacteis; capsula 4-7-locularia, lignosa.

**Holotypus:** Herbarium Halda no. 97080159, leg. J. J. Halda 18.3.1997.

**Patria et Distributio:** Africa australis, Provincia Capensis (Namaqualand: Daakus farm), mons vulcanicus solitarius purpureus, in fissuris rupium, ad meridiem versus, ad 300m supra mare.

**Description:** Plants stemless, densely caespitose; steath papery; bodies wedged, up to 15mm across, firm; leaf-apex keeled; epidermis glabrous, glaucous more or less suffused purple at the top; flowers pink, purple, rarely creamy-white, 10-17mm across; capsule 4-7-locular, woody, brownish.

Occuring in the NW Cape (Namaqualand), growing only on a single ornamentally purple volcanic hill, which is easily visible. Plants, always growing in narrow crevices, create small densely branched cushions.

### ***Gymnocalycium x pazoutianum* J. J. Halda hybr. nov.**

[*G. denudatum* (Link. & O.) Pfeiff. x *G. baldianum* (Speg.) Speg.]

Planta inter parentes intermedia, habitu *G. denudatum* similis, sed floribus purpureis.

**Holotypus:** Herbarium Halda no. 9806003.

This widely cultivated plant is known for long time as a "red-blooming *G. denudatum* 'Jan Suba'," raised and described by ing. F. Pazout.