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Subspecies of *Jovibarba globifera* (L.) J. PARN. (Crassulaceae)

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ABSTRACT: In preparing a revision of the genus *Jovibarba*, the species *J. globifera* (L.) J. PARN. is divided in seven subspecies. Their list with main synonymy includes one new combination, *J. globifera* subsp. *pseudohirta* (LEUTE) LETZ.

KEYWORDS: Crassulaceae, *Jovibarba*, nomenclature, taxonomy

A wide species concept within the genus *Jovibarba* OPIZ was established in the recent literature (cf. PARNELL & FAVARGER 1993, LIPPERT 1995). It distinguishes two species: *J. heuffelii* (SCHOTT) Á. LÖVE & D. LÖVE without infraspecific taxa and *J. globifera* (L.) J. PARN. with four subspecies. In preparing a revision of the genus *Jovibarba* (LETZ in prep.) seven subspecies within *J. globifera* (L.) J. PARN. are recognised. The provisional combinations of two subspecies already have appeared in the checklist of the flora of Slovakia (LETZ 1998) and after it validated and partly corrected by HOLUB (1998). To be available in a botanical practice before publication of more detailed monographic study of the genus, one new combination is published. Survey of a new taxonomic concept of *J. globifera* as the list of all recognised subspecies with main synonymy is briefly presented. The subspecies which are not recognised in the Flora Europaea (PARNELL & FAVARGER 1993) are shortly commented as well.

Jovibarba globifera **(L.) J. PARN. in Bot. J. Linn. Soc. 103: 219, 1990.**

Basionym: *Sempervivum globiferum* L., Sp. Pl.: 464, 1753.

subsp. *globifera*

= *Sempervivum soboliferum* SIMS in Bot. Mag. 35: ad t. 1457, 1812.
  ≡ *Jovibarba sobolifera* (SIMS) OPIZ, Seznam: 54, 1852.
= *Diopogon hirtus* subsp. *borealis* H. HUBER in HEGI, Ill. Fl. Mitt.-Eur. 4/2: 107, 1963.

subsp. *hirta* (L.) J. PARN. in Bot. J. Linn. Soc. 103: 219, 1990.

Basionym: *Sempervivum hirtum* L., Cent. Pl. I: 12, 1755.
  ≡ *Jovibarba hirta* (L.) OPIZ, Seznam: 54, 1852.
  ≡ *Diopogon hirtus* (L.) H. P. FUCHS ex H. HUBER in HEGI, Ill. Fl. Mitt.-Eur. 4/2: 104, 1963.
= *Sempervivum hillebrandtii* SCHOTT in Oesterr. Bot. Wochenbl. 2: 18, 1852.
= *Sempervivum neilreichii* SCHOTT, NYMAN & KOTSCHY, Analect. bot.: 19, 1854.
= *Diopogon austriacus* JORD. & FOURR., Brev. pl. nov. 2: 46-47, 1868.
= *Sempervivum simonkaianum* DEGEN in Magyar Bot. Lapok 1: 134-135, 1902.

subsp. *preissiana* (DOMIN) HOLUB in Preslia 70: 106, 1998.

Basionym: *Sempervivum preissianum* DOMIN in Rozpr. České Akad. Věd, Tř. 2, Vědy Mat. Přír. 42/29: 19-20, 1933.
  ≡ *Sempervivum hirtum* subsp. *preissianum* (DOMIN) DOSTÁL, Květ. ČSR 2: 537, 1948.
  ≡ *Sempervivum soboliferum* subsp. *preissianum* (DOMIN) PAWŁOWSKA in SZAFER & PAWŁ., Fl. Polska 7: 48, 1955.
  ≡ *Jovibarba preissiana* (DOMIN) OMELCZUK & CHOPIK in Bot. Žurn. (Moscow & Leningrad) 60: 1183, 1975.
  ≡ *Jovibarba hirta* subsp. *preissiana* (DOMIN) SOÓ in Acta Bot. Hung. 23: 380, 1977.
= *Sempervivum tatrense* DOMIN in Rozpr. České Akad. Věd, Tř. 2, Vědy Mat. Přír. 42/29: 20-21, 1933.
  ≡ *Sempervivum hirtum* subsp. *tatrense* (DOMIN) DOSTÁL, Květ. ČSR 2: 537, 1948.
  ≡ *Sempervivum soboliferum* subsp. *preissianum* var. *tatrense* (DOMIN) PAWŁOWSKA in SZAFER & PAWŁ., Fl. Polska 7: 48, 1955.
  ≡ *Jovibarba hirta* subsp. *tatrensis* (Domin) Á. LÖVE & D. LÖVE in Bot. Not. 114: 53, 1961.
  ≡ *Jovibarba hirta* subsp. *glabrescens* var. *tatrensis* (DOMIN) SOÓ in Feddes Repert. 83: 174, 1972.

The subspecies represents a special morphotype characterized especially by sparse marginal cilia on the rosette leaves and glabrous surfaces of the cauline leaves. It is distributed especially in higher altitudes of the West Carpathians and some adjacent regions (Slovakia, Poland, Ukraine, Romania). The names *S. tatrense* DOMIN and *S. preissianum* DOMIN belonging to the same taxon are of equal priority. PAWŁOWSKA (1955) established priority of a name with the epithet "*preissianum*" at subspecies rank. Therefore a new combination with this epithet is correct for this taxon. It was published by HOLUB (HOLUB 1998).

subsp. *glabrescens* (SABR.) HOLUB in Preslia 70: 106, 1998.

Basionym: *Sempervivum hirtum* f. *glabrescens* SABR. in Oesterr. Bot. Z. 32: 378, 1882.

≡ *Sempervivum hirtum* subsp. *glabrescens* (SABR.) SOÓ & JÁV., Magyar Növényv. Kéz. 1: 304, 1951.

≡ *Jovibarba hirta* subsp. *glabrescens* (SABR.) HOLUB in Preslia 38: 81, 1966.

= *Sempervivum adenophorum* BORBÁS, Geogr. enum. pl. comit. Castriferrei: 238-239, 1887.

≡ *Jovibarba hirta* subsp. *adenophora* (BORBÁS) Á. LÖVE & D. LÖVE in Bot. Not. 114: 53, 1961.

The subspecies represents the variant intermediate between *J. globifera* subsp. *globifera* and *J. globifera* subsp. *hirta* (cf. LETZ 1997), which occurs in the lower altitudes at the northern border of the Pannonian area (Austria, Czech republic, Slovakia, Hungary, Romania).

subsp. *pseudohirta* (LEUTE) LETZ, **comb. nov.**

Basionym: *Diopogon arenarius* subsp. *pseudohirtus* LEUTE in Verh. Zool.-Bot. Ges. Wien 105-106: 186, 1966.

≡ *Jovibarba arenaria* subsp. *pseudohirta* (LEUTE) HOLUB in Folia Geobot. Phytotax. 2: 422, 1967.

The subspecies represents the variant intermediate between *J. globifera* subsp. *arenaria* and *J. globifera* subsp. *hirta* (cf. LEUTE 1966). It occurs in the Alps in SE Tirolia (Austria, Italy).

subsp. *arenaria* (W. D. J. KOCH) J. PARN. in Bot. J. Linn. Soc. 103: 219, 1990.

Basionym: *Sempervivum arenarium* W. D. J. KOCH, Syn. fl. Germ. Helv.: 833--834, 1837.

≡ *Jovibarba arenaria* (W. D. J. KOCH) OPIZ, Seznam: 55, 1852.

≡ *Jovibarba hirta* subsp. *arenaria* (W. D. J. KOCH) J. PARN. in MORIARTY, Taxonomy: 38, 1988.

subsp. *allionii* (JORD. & FOURR.) J. PARN. in Bot. J. Linn. Soc. 103: 219, 1990.

Basionym: *Diopogon allionii* JORD. & FOURR., Brev. pl. nov. 2: 46, 1868.

≡ *Jovibarba allionii* (JORD. & FOURR.) D. A. WEBB in Feddes Repert. 68: 197, 1963.

≡ *Diopogon arenarius* subsp. *allionii* (JORD. & FOURR.) LEUTE in Verh. Zool.-Bot. Ges. Wien 105-106: 185, 1966.

≡ *Jovibarba hirta* subsp. *allionii* (JORD. & FOURR.) SOÓ in Feddes Repert. 83: 174, 1972.

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