



Nomenclatural analysis of validity of *Taraxacum* names published by J. L. van Soest after 1958

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Abstract

A revision of names published by J. L. van Soest (1898–1983) after 1958 revealed a number of names of doubtful validity. A detailed nomenclatural analysis of the validity of these names revealed that, from the point of view of the typification methods of van Soest, there are ten categories of names, many of them requiring validation. All the relevant names were studied and the problematic names are listed. There are 27 names with more than one specimen of a single gathering cited (20 are lectotypified). Another 19 names are listed that were typified by van Soest only in the captions to figures accompanying the text. Many names were found invalid; of these, eight names were validated later by van Soest or other authors, another 15 names were not considered as taxonomically sound by the present authors (and remained invalid). The following 15 names are validated and therefore published as new here, with the authorship of J. L. van Soest retained, Art. 46, Ex. 20): *Taraxacum luteocucullatum*, *T. elegans*, *T. fulvobrunneum*, *T. nagaricum*, *T. sordidepapposum*, *T. vulpinum*, *T. brakelii*, *T. flavum*, *T. pseudoeriopodum*, *T. pullocarpum*, *T. rufulum*, *T. tenuiceps*, *T. helianthum*, *T. phoenicolepis* and *T. stereodiforme* (all mainly as a result of the conflict with Art. 40.1, 40.3, Ex. 3, or Art. 30.4, 30.5 of the Code).

Key words: Asteraceae, Cichorieae, nomenclature, new species

Introduction

Our monographic and revision studies in *Taraxacum* pointed out a number of nomenclatural problems since 1983 (Kirschner & Štěpánek 1983, 1987, 1993, 1994, 1996, 1997, 1999, 2008). Our nomenclatural work has aimed at an unequivocal typification and taxonomic evaluation of names relevant to the revision of the Euro-Asiatic dandelions. Routine check of validity of selected names published by J. L. van Soest after 1958 (the requirement of type citation took effect, see Lanjouw & al., 1956) revealed the fact that numerous names require a detailed evaluation to decide about their validity. In the present paper, we attempt at a nomenclatural revision of the names published by J. L. van Soest between 1958 and 1978 (last publication of new names by J. L. van Soest and collaborators). In particular, we focused our interest on possible conflicts with provisions dealing with the accurate identification of the type (for several decades it used to be Art. 37, the current Code includes them as Art. 40, McNeill & al., 2012).

Similar screening of *Taraxacum* names in the past (Haworth & Richards 1990, Kirschner & Štěpánek 1983) led to many nomenclatural adjustments and changes towards the agreement of *Taraxacum* nomenclature with the ICBN, which is what we expect from the present paper.

J. L. van Soest (1898–1983)

Johannes Leendert van Soest, “not only a brilliant physicist and mathematician and an outstanding botanists ...” (Richards 1984), published over 50 scientific papers dealing with the genus *Taraxacum*. In the 1940s and 1950s, he initiated taraxacological research in The Netherlands and Belgium but also studied dandelions of the western

I. Invalid names not validated here (unless otherwise stated, the names are not considered sound taxonomically)

More than one gathering is cited as type or holotype in the protologue and the name cannot be considered as valid. However, the taxonomic interpretation of the material used shows that there is no argument in favour of the recognition of such taxa. These cases are listed but the names are not validated.

- Taraxacum balticiforme* Dahlst. f. *fuscosquameum* Soest, Veröff. Geobot. Inst. ETH Rübel, Zürich, 42: 67, 1969, *nom. inval.*
Taraxacum balticiforme Dahlst. f. *multilepis* Soest, Veröff. Geobot. Inst. ETH Rübel, Zürich, 42: 67, 1969, *nom. inval.*
Taraxacum balticiforme Dahlst. f. *subpalustre* Soest, Veröff. Geobot. Inst. ETH Rübel, Zürich, 42: 65, 1969, *nom. inval.*
Taraxacum balticiforme Dahlst. f. *tenerum* Soest, Veröff. Geobot. Inst. ETH Rübel, Zürich, 42: 66, 1969, *nom. inval.*
Taraxacum bosniacum Soest, Acta Bot. Neerl. 14: 22, 1965, *nom. inval.* (for details, see Kirschner & Štěpánek, Monogr. Tarax. Sect. Palustria 274, 1998).
Taraxacum calocephalum Hand.-Mazz. f. *stramineum* Soest in Rechinger, Fl. Iranica 122: 263, 1977, *nom. inval.*
Taraxacum excellens Dahlst. f. *dentatum* Hagendijk, Soest & Zevenbergen, Acta Bot. Neerl. 27 (5/6): 315, 1978, *nom. inval.*
Taraxacum laeticolorifrons G. Hagl. ex van Soest, Acta Bot. Neerl. 14: 36, 1965, *nom. inval.* (The name was “typified” in Kirschner & Štěpánek, Monogr. Tarax. Sect. Palustria 51, 1998, but the name was not accepted taxonomically and was listed in the synonymy, so that it remains invalid).
Taraxacum minimum Gussone f. *stramineum* Soest, Proc. Koninkl. Nederl. Akad. Wetensch., Amsterdam, ser. C, 69: 433, 1966, *nom. inval.*
Taraxacum monochlamydeum Mand.-Mazz. f. *dissectum* Soest in Rechinger, Fl. Iranica 122: 254, 1977, *nom. inval.*
Taraxacum rubicundum (Dahlst.) Dahlst. f. *potens* Soest, Veröff. Geobot. Inst. ETH Rübel, Zürich, 42: 22, 1969, *nom. inval.*
Taraxacum szovitsii Soest f. *rufulum* Soest, Wentia 10: 17, 1963, *nom. inval.*
Taraxacum tirichense Soest f. *stramineum* Soest, Nytt Mag. Bot. 13: 85 (1966), *nom. inval.*
Taraxacum vulpinum Soest f. *pallidocarpum* Soest, Wentia 10: 34, 1963, *nom. inval.*
Taraxacum wallichii DC. f. *obscurum* Soest in Rechinger, Fl. Iranica 122: 259, 1977, *nom. inval.*

J. Names appearing only on herbarium labels or as synonyms or *nomina nuda* mentioned in the text of van Soest’s papers (all without diagnosis and type) are **not considered** in this account.

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