

NOTES ON PARSA'S FLORE DE L'IRAN VOLS 8 AND 9

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ABSTRACT. Attention is drawn to the little-known volumes 8 and 9 of Parsa's *Flore de l'Iran* (1960 and 1966). The numerous new taxa published in these volumes—none of them in the *Index Kewensis*—are listed (1 genus, 43 species, 21 varieties, 5 forms). New combinations made in the two volumes are also listed. An appendix contains a brief summary of the contents of each of the nine volumes.

Although most botanical libraries of institutes concerned with the flora of south-west Asia hold copies of the first seven volumes of *Flore de l'Iran* by A. Parsa, many are unaware of the existence of two subsequent volumes of this work. The first seven volumes appeared between 1943 and 1959 (for details of publication dates and other information see appendix). The main Flora is contained in volumes 1–5 where the families follow the sequence of Boissier's *Flora Orientalis*; volumes 6 and 7 contain supplements and indices. Volumes 8 and 9 were published in 1960 and 1966 and it can only be assumed that fewer copies were printed and certainly were much less widely distributed. Because of the scarcity of the latter volumes and the considerable number of validly published new Iranian taxa and new combinations occurring within them, it is appropriate to list the novelties; none has as yet appeared in *Index Kewensis* or the *Kew Record of Taxonomic Literature*. The nomenclatural situation is complicated by the fact that most of the descriptions of taxa which appear for the first time in volume 8 are repeated in volume 9 and give every impression that there they are the first valid descriptions.

Volume 8 commences with an index to vernacular names of some of the plants covered in the main part of the Flora (vols 1–5). This occupies the first half of the volume and is followed by additions to the Flora covering the families from Ranunculaceae to Cistaceae. These additions include both descriptions of new taxa and new combinations as well as records of species new to the Flora and taxa reduced to synonymy. All are given in French, with Latin descriptions of the new taxa. Almost the whole of the list is then repeated, this time in English, again with Latin descriptions of the new taxa. Thus almost all additions occur twice in the volume.

Volume 9 continues the additions covering the families from Anacardiaceae to Cornaceae. This time English and French descriptions, and Latin where appropriate, are given in the same place. This section is followed by a second supplement to the families Ranunculaceae to Geraniaceae containing this time only supposedly new taxa. However, despite the designation '*sp. nov.*' etc. almost all these are repeats of those in volume 8, with slight changes in the descriptions, and with the addition of figures. Occasionally new names are proposed which, although often more apt, are superfluous in that an adequate description has already been given in the earlier volume.

The new taxa and the new combinations are given here in two separate lists, attention being drawn to the discrepancies or superfluities. Both volumes contain numerous orthographic errors of taxa and these, in general, have been corrected without further comment in the lists which follow.

It is not known whether a further volume covering later families (i.e. after Cornaceae) is proposed. A vol. 10 (1974) is referred to in *Acta Ecol. Iran.* 1:85, 1976, but this is the only evidence that it exists.

NEW TAXA

The new taxa described by Parsa in volumes 8 and 9 of his *Flore de l'Iran* are now listed in the sequence of volumes 1 and 2. Parsa's valid names are given in bold type, illegitimate (superfluous) names and *nomina nuda* are given in italics, as are sectional names; volume and page references are in square brackets. Where descriptions of new taxa occur more than once, each page reference is given. Type citations incorporate details from each of these references; in many cases the later entries augment or modify the first. Attention is drawn to discrepancies between any of these repeated descriptions. Variations in dates on specimens cited can often be accounted for by having to adjust from the Mohammedan to the Gregorian calendar. Nowhere in the nine volumes does Parsa clarify his broad geographical divisions of Iran (N, SW, SE etc.) so these must be interpreted in general terms; occasionally they appear to be misleading.

Parsa's herbarium is said to be housed at the Faculty of Pharmacy, University of Tehran and occasionally he does infer that specimens can be located there (TEH).

Ranunculus zaghei Parsa [8:213, 261. 9:214, fig. 64]. SW:Zagheh of Khorramabad, 27 iv 1950, *hb. Parsa* 20006a (TEH). The full citation of the type gathering is given in vol. 9. Volume 8 gives the year of collection as 1956.

Chorispora syriaca Boiss. var. **minuta** Parsa [8:221, 266]. N:Bandar Pahlavi, 1 vii 1947.

Alyssopsis kotschyi Boiss. var. **stenophyllus** Parsa [9:216, fig. 65]. N:Gorzenow of Kushkak-Lowra in Elburz, 2600 m, 20 vii 1955, *Manouchehr Sotudeh* in *hb. Parsa* 20000.

Erysimum persepolitanum Boiss. var. **abbreviatum** Parsa [8:225]. S:Djahrom de Fars, 28 iii 1956, *Shokrollah Sabet Ghadam*.

var. *brevisiliqua* Parsa [9:216, fig. 66] *nomen illegit.* S:Jahrom of Fars, spring 1956, *hb. Parsa* 20041 (as *Erysimum djahromicum* Parsa).

The diagnosis given for var. *brevisiliqua* is more or less identical with that of var. *abbreviatum*. Considering the similarities in the citations of the type specimens it can be assumed that both varieties are based on the same collection. This makes the epithet '*brevisiliqua*' superfluous.

Biscutella alireza-dadjua Parsa [8:232, 275. 9:217, fig. 67]. SW:Shushtar, iii 1949, *hb. Parsa* 20008a. Vol. 8 gives only a diagnosis of the species and at p. 232 Shushtar is given as 'sud-est.' Vol. 9 has a full description.

Cleome komia Parsa [8:235, 278. 9:221, fig. 68]. Centre-north: between Qom and Tehran, in ruins of Hassanabad, 900 m, 11 x 1955, *hb. Parsa*.

Silene chaetodontoidea Parsa [8:241, 285. 9:223, fig. 69]. Elburz: Lovra valley, Kushkak, 2000 m, 12 vii 1955, *Sotudeh* in *hb. Parsa* 20005a (TEH).

Dadjoua Parsa [8:248, 292. 9:226]. Caryophyllaceae.

D. pteranthoidea Parsa [8:248, 292. 9:226, fig. 70]. W: Malashour, v 1955, *Parsa* 20010a (TEH). Vol. 9 gives—unknown locality, probably south in Malashour, spring 1956.

Lavatera thuringiaca L. var. *abbreviata* Parsa [8:250]. NW: Azerbaijan, Shahpour, 24 vii 1957.

var. *brevipedunculata* Parsa [9:228, fig. 72], *nom. illegit.* S: Shahpour, 22 vii 1957, *hb. Parsa* 20040.

Despite the discrepancy in the locality the types of var. *brevipedunculata* and var. *abbreviata* must be taken as the same, making the former a superfluous name. It is treated by I. Riedl in *Rech. f., Fl. Iranica* Malvaceae: 81 (1976) as '*species dubia*'.

Althaea hiri Parsa [8:250. 9:231, fig. 73]. W: Boroudjerd, Aligoudarz, 4 vi 1957 (7 vii 1956 in vol. 9.), *Houshang Ashrafi*, *hb. Parsa* 20019.

Treated by I. Riedl, l.c. as '*species dubia*'.

Alcea djahromi Parsa [8:253]. S: Djahrom, 31 viii 1955, *Sabet Gadam*. Common name 'Khatmikuhi', aff. *A. aucheri* Boiss.

Alcea vameghi Parsa [9:232, fig. 74], *nom. illegit.* SE: Jahrom of Fars, 31 viii 1956, *Sabet-ghadam*, *hb. Parsa* 20002. Common name 'Khatmi-Kuhi', aff. *A. aucheri* Boiss.

Although the description given for *A. vameghi* is much fuller than that for *A. djahromi* they are almost certainly based on the same type specimen. *A. vameghi* therefore becomes a superfluous name. It is treated by I. Riedl in *Flora Iranica* as '*species dubia*'.

Alcea sotudei Parsa [8:255, 295. 9:236, fig. 75]. N: Elburz, Kushkak, Lovra, 2000 m, 16 vii 1955 (7 vii in vol. 9.), *Sotudeh*, *hb. Parsa* 20029 (TEH).

Treated by I. Riedl in *Flora Iranica* as '*species dubia*'.

Alcea kuhsangnia Parsa [9:239, fig. 76]. E: Mashad of Khorassan, mt Kusangni, 3 vii 1957, *hb. Parsa* 20042.

Treated by I. Riedl in *Flora Iranica* as '*species dubia*'.

Oxalis corniculata L. var. *longepetiolata* Parsa [8:256, 297. 9:242]. S: Djahrom, 29 vi 1957, (vi 1959 in vol. 9.) *hb. Parsa* 20009.

Medicago tribuloides Desf. var. *rugosa* Parsa [9:1, fig. 1], *nom. nud.* No type given.

Melilotus elegans Salzmänn f. *grandiflora* Parsa [9:2, fig. 2]. W?: Darehbid of Azizabad, *hb. Parsa* 20023.

Trifolium tumens Stev. var. *integra* Parsa [9:2, fig. 3], *nom. nud.* No type given.

Lotus pumilus Parsa [9:5], *nom. illegit.* SE:Baluchistan (Makran), Chahbahar, Sharif 710E (W).

Parsa gives *L. sharifii* Rech. f. & Esfand., Bot. Jahrb. 75:334 (1951) as a synonym. There is no reason for rejecting this name, the type being Sharif 710E.

Astragalus abbas riasi Parsa, sect. *Oxyglottis* [9:6, fig. 4]. SE:Sirjan, iii-iv 1957.

Astragalus cyrusianus Parsa, sect. *Falcinellus* [9:9, fig. 5]. SE:Sirjan, between Kerman and Bandar Abbas, iii-iv 1956.

Astragalus nadirius Parsa, sect. *Pentaglottis* [9:11, fig. 6]. SE:Sirjan, iii-iv 1956.

Astragalus razicus Parsa, sect. *Drepanodes* [9:15, fig. 7]. SE:Kerman:Sirjan, iii-iv 1956, (TEH).

Astragalus parimanicus Parsa, sect. *Drepanodes* [9:17, fig. 8]. SE:Sirjan of Kerman, iii-iv 1956, *hb. Parsa* 20026.

Astragalus aulacolobus Boiss. var. *multijugus* Parsa [9:20, fig. 9]. Rendan, iv 1956 (TEH).

Astragalus hamosus L. var. *pumilus* Parsa [9:20, fig. 10]. S:Ahwaz, 31 iii 1957, (TEH).

Astragalus eriopodus Boiss. var. *longepedunculatus* Parsa [9:28, 89]. W:Arak 1600 m, 22 iii 1957 (22 iv 1956 on p. 89), *hb. Parsa* 20001.

Astragalus shahpouricus Parsa, sect. *Malacothrix* [9:29, fig. 13]. NW: Azerbaijan, alpine region of NW, Shahpoor, 27 vii 1957, *hb. Parsa*.

Astragalus mollis MB. var. *retusus* Parsa [9:31, fig. 14]. W Elburz:Gachessar in Lowra, Kushkak, c. 2000 m, 10 vii 1955, *M. Sotudeh* in *hb. Parsa* (TEH).

Astragalus ahouicus Parsa, sect. *Malacothrix* [9:33]. W:Golpayegan, 4 v 1957, in *hb. Parsa* (TEH). Common name 'Alaf-e-ahou'. See remarks below under *A. griseus* var. *viridis*.

var. *pumilus* Parsa [9:36, fig. 15]. W:Golpayegan, 19 v 1957; id Khomayn 12 v 1957, in *hb. Parsa*.

Astragalus chrysotrichus Boiss. f. *linearicus* Parsa [9:36, fig. 16]. NW: Azerbaijan, Khalkhal, 16 vii 1956.

Astragalus griseus Boiss. var. *viridis* Parsa [9:36, fig. 17]. W:Golpayegan, 4 v 1957. Common name 'Alaf-i-ahou'.

The type citation and the vernacular name are identical with those given for *A. ahouicus*, q.v. The colour of the corolla however is distinct.

Astragalus anserinifolius Boiss. var. *elegantifolius* Parsa [9:38]. SE:Sirjan, iii-iv 1956.

Astragalus arakensis Parsa [sphalm. *arakansis*], sect. *Brachylobium* [9:38, fig. 18]. W:Arak, 3 iii 1956, (TEH).

Astragalus borudjerdicus Parsa, sect. *Hemiphragmium* [9:42, fig. 19]. W: Borujerd, Aligoudarz, Kashgak, iii-iv, (TEH).

Astragalus bardsiricus Parsa, sect. *Hemiphragmium* [9:45, figs. 20, 21, 22, 23]. SE:Bardsir of Kerman, ix 1957, *Azarhoush* in Tehran Mus. 10046.

Astragalus ferdovsicus Parsa, sect. *Erionotus* [9:52, fig. 24]. SE:Sirjan, iii-iv 1957, (TEH).

Astragalus pellitus Bge. var. *orbicularis* Parsa [9:54, fig. 25]. N:Darjezin, Semnan, iii 1956, *Danai* (TEH as *A. darjesinicus* Parsa).

Astragalus angustidens Parsa f. *longepedunculata* Parsa [9:54, fig. 26]. E: Khorassan:Mashad, 28 iv 1957, (TEH as *A. mashadicus* Parsa).

Astragalus aligoudarzcus Parsa, sect. *Myobroma* [9:59, fig. 27]. W:Aligoudarz, iii 1956, (TEH).

Astragalus movlavius Parsa, sect. *Myobroma* [9:61, fig. 28]. Locality unknown, probably Sirjan, spring 1956, *hb. Parsa* 20035.

Astragalus remotijugus Boiss. var. *pumilus* Parsa [9:64, fig. 29]. SE:Kerman, Sirjan, spring 1956 (as *A. golnokhodicus* Parsa). Common name 'golnokhodou'. See remarks below under *A. saadius*.

Astragalus rugosus Fisch. var. *humilis* Parsa [9:64, fig. 30]. NW:Azerbaijan, Sharafkhaneh, Till, 5 vii 1957, *Hosseini Fahimi*.

Astragalus sirdjanicus Parsa, sect. *Myobroma* [9:66, fig. 31, 32 (sphalm. 33)]. SE:Kerman, Sirjan, 7 iv 1956, (TEH).

Astragalus avicennicus Parsa, sect. *Myobroma* [9:72, ?fig. 33]. W:M. Alwand Hamadan, 20 vii 1957, *hb. Parsa* 10045 (TEH).

Figure 33 illustrates "*A. hamadanicus* Parsa" a name that does not occur elsewhere. The illustration agrees with the description of *A. avicennicus*.

Astragalus saadius Parsa, sect. *Myobroma* [9:77, fig. 34]. SE:Sirjan, vi 1957. Common name 'Gol-nokhodou'.

Despite the similarities in the type citation and in their common names the descriptions and illustrations show *A. saadius* and *A. remotijugus* var. *pumilus*, cited above, to be completely different plants.

Astragalus segazicus Parsa, sect. *Polystegis* [9:89, fig. 35]. Tcharlang of Bakhtiari: Abadtchi, Segaz, 25 viii 1955, (TEH).

Astragalus kashgakius Parsa, sect. *Tricholobus* [9:94, fig. 36]. S:Kashgak, v 1956.

Astragalus khayamicus Parsa, sect. *Microphysa* [9:97, fig. 37]. SE:Sirjan, iii-iv 1956, (TEH).

Astragalus gandjehicus Parsa, sect. *Microphysa* [9:101, fig. 38]. W:Aligoudarz, Ganjeh, Haj-mahmoud, v 1956, (TEH).

Astragalus ardahalicus Parsa, sect. *Megalocystis* [9:106, fig. 39]. C:Kashan, Mashad-Ardahal, 23 vii 1957 (TEH).

Astragalus ashuricus Parsa, sect. *Alopecias* [9:110, fig. 40]. W:Mal-Ashour of Mahallat, v 1951 (TEH).

Astragalus kermanicus Parsa, sect. *Malacothrix* [9:113, fig. 41]. SE:Kerman, 28 vii 1957, in *hb. Parsa* (TEH). Syn. *A. ahmad-farhadica* in exsicc.

Astragalus tenellus Bge. var. *ovatifolius* Parsa [9:119]. Semnan, iv-v 1956, in *hb. Parsa* (TEH).

Astragalus cyclophyllon Beck var. *ordoudaricus* Parsa [9:119, fig. 43]. W: Boroujerd, Aligoudarz, Ordoudar, nr. Oshtorankuh, iv 1956 in *hb. Parsa* (TEH).

f. *nana* Parsa [9:119, fig. 44]. W: Boroujerd, Aligoudarz, Bavoki, iv 1956, in *hb. Parsa* (TEH).

Astragalus faridanicus Parsa, sect. *Proselius* [9:121, fig. 45, 46]. S:80-90 km SE from Isfahan to Fars, Mussiabad of Faridan, 1520-1830 m, in calcareous places, vi 1955, *H. S. Gentry* 14894 in *hb. Parsa* 10047 (TEH).

Astragalus khadjouicus Parsa, sect. *Xiphidium* [9:126, fig. 47]. SE: mountains of Sirjan, vi 1957, in *hb. Parsa* (TEH).

Hedysarum ahilum Parsa [9:132, fig. 48]. West Elburz: valley Lovra of Gachessar in Koushkak, 2100 m, 23 vii 1955, *M. Sotudeh* in *hb. Parsa* (TEH).

Hedysarum farinosum Parsa var. *elongatum* Parsa [9:141, fig. 50]. NW: Azerbaijan, Aliabad of Zanjan, viii 1957, *hb. Parsa* 10049.

Onobrychis sirdjanicus Parsa [9:142, figs. 51, 52]. SE:mountains of Sirjan, spring 1956, *hb. Parsa* 10053.

Onobrychis alyassinicus Parsa [9:147, fig. 53]. C:Mashad-Ardahal of Kashan, 22 vi 1957, *Alyassin* in *hb. Parsa* 10054.

Onobrychis lahidjanicus Parsa [9:151, fig. 54]. N:Gilan, Lahijan (Movestan), Bidguel, 15 vi 1956, *Hossein Koutchekinia*.

Alhagi camelorum Fisch. var. **pluriarticulatum** Parsa [9:157]. C:Kavir of Lut, 20 vi 1954, in *hb. Parsa* (TEH).

Pyrus syriaca Boiss. var. **inermis** Parsa [9:160]. N:Gilan, Lahijan, M. Dobaradaran, 23 vii 1957, *Kouchekinia*.

Rubus kutchekiniaeus Parsa [9:162, fig. 56]. N:Lahijan, damp places in Bijarboneh, *Hossein Kouchekinia* in *hb. Parsa* 10042.

Rubus sotudehae Parsa [9:164, figs 57, 58]. Western Elburz:Lovra valley, Kushkak of Gatchessar, 2000 m, 23 vii 1955, *M. Sotudeh* in *hb. Parsa* 10043.

Rubus zandjanicus Parsa [9:169, fig. 59]. NW:Azerbaijan, Zandjan, Gharaboulagh, 6 vii 1957, *hb. Parsa* 10048; in Hosseynabad of Zandjan, *hb. Parsa* 10050.

Bunium caroides (Boiss.) Bornm. f. **elegans** Parsa [9:177, fig. 60]. E:Khorassan, Torbat-i-Haydari, v-vi 1957, (TEH).

Prangos haussknechtii Boiss. var. **puberula** Parsa [9:182, fig. 61]. NW:Khalkhal of Azerbaijan, 21 vii 1956, in *hb. Parsa* 10059 (as *P. khalkhallii* Parsa).

Ferula reza-dadjoua Parsa [9:185, fig. 62]. C:Azizabad of Kashan, vi 1955, *hb. Parsa* 10056.

Malabaila sedov Parsa [9:204, fig. 63]. SE:Sirjan of Kerman, spring 1956, *hb. Parsa* 10060.

NEW COMBINATIONS

The sequence of taxa follows Parsa's *Fl. de l'Iran* vols 1 and 2. Nomenclatural or orthographic errors occurring in his work are, in general, corrected throughout.

Ranunculus macropus Boiss. & Buhse var. **papyrocarpus** (Rech. f., Aell. & Esfand.) Parsa [8:214, 262].

Syn.: *Ranunculus papyrocarpus* Rech. f., Aellen & Esfandiari in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 88:211 (1951).

Matthiola dumulosa Boiss. & Buhse var. *deserticola* (Rech. f., Aell. & Esfand.) Parsa [8:222, 266].

Syn.: *Matthiola deserticola* Rech. f., Aellen & Esfandiari in *Phyton* 3:61 (1951).

Matthiola chenopodiifolia F. & M. var. *porphyrantha* (Rech. f., Aell. & Esfand.) Parsa [8:267].

Syn.: *Matthiola porphyrantha* Rech. f., Aellen & Esfandiari in *Phyton* 3:61 (1951).

Arabis bryoides Boiss. var. *rimarum* (Rech. f.) Parsa [8:224, 267].

Syn.: *Arabis rimarum* Rech. f., in *Phyton* 3:58 (1951).

Sisymbrium brassiciforme C. A. Meyer var. *integerrimum* (Rech. f. & Aell.) Parsa [8:227, 269].

Syn.: *Sisymbrium integerrimum* Rech. f. & Aellen in *Phyton* 3:67 (1951).

Malcolmia karelinii Lipsky var. *glaberrima* (Rech. f. & Esfand.) Parsa [8:227, 270].

Syn.: *Malcolmia glaberrima* Rech. f. & Esfandiari in *Phyton* 3:63 (1951).

Hesperis matronalis L. f. *khorsanica* (Rech. f. & Aell.) Parsa [8:228, 271].

Syn.: *Hesperis khorsanica* Rech. f. & Aellen in *Phyton* 3:65 (1951).

Cithareloma lehmannii Bge. var. *gedrosiacum* (Rech. f. & Esfand.) Parsa [8:228, 271].

Syn.: *Cithareloma gedrosiacum* Rech. f. & Esfandiari in *Phyton* 3:63 (1951).

Alyssum inflatum Nyár. var. *polycladum* (Rech. f.) Parsa [8:230, 273].

Syn.: *Alyssum polycladum* Rech. f. in *Phyton* 3:55 (1951).

Alyssum homalocarpum (F. & M.) Boiss. f. *nomismocarpum* (Rech. f., Aell. & Esfand.) Parsa [8:231, 274].

Syn.: *Alyssum nomismocarpum* Rech. f., Aellen & Esfandiari in *Phyton* 3:56 (1951).

Treated by T. Dudley in Rech. f., *Flora Iranica*, Cruciferae 155 (1968) as a synonym of *A. homalocarpum* (F. & M.) Boiss.

Aethionema trinervia [sphalm. *trinervis*] (DC.) Boiss. var. *apterocarpum* (Rech. f. & Aell.) Parsa [8:233, 275].

Syn.: *Aethionema apterocarpum* Rech. f. & Aellen in *Phyton* 3:49 (1951).

This antedates the combination made by Hedge in Rech. f., *Fl. Iranica* Cruciferae 197 (1968).

Isatis tinctoria L. var. *pachycarpa* (Rech. f., Aell. & Esfand.) Parsa [8:233, 276].

Syn.: *Isatis pachycarpa* Rech. f., Aellen & Esfandiari in *Phyton* 3:47 (1951).

Brassica deflexa Boiss. f. *iranica* (Rech. f., Aell. & Esfand.) Parsa [8:233, 276].

Syn.: *Brassica iranica* Rech. f., Aellen & Esfandiari in Phytion 3:44 (1951).

Crambe hispanica L. var. *gracillima* (Rech. f.) Parsa [8:234, 278].

Syn.: *Crambe gracillima* Rech. f. in Phytion 3:45 (1951).

Helianthemum sessiliflorum (Desf.) Pers. f. *cinereoflavescens* (Rech. f., Aell. & Esfand.) Parsa [8:236, 279].

Syn.: *Helianthemum cinereoflavescens* Rech. f., Aellen & Esfandiari in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 87:297 (1950).

Viola stocksii Boiss. var. *behboudiana* (Rech. f. & Esfand.) Parsa [8:236, 280].

Syn.: *Viola behboudiana* Rech. f. & Esfandiari in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 87:298 (1950).

Dianthus orientalis Adams var. *fallax* (Rech. f. & Esfand.) Parsa [8:237, 281].

Syn.: *Dianthus fallax* Rech. f. & Esfandiari in Bot. Jahrb. 75:362 (1951).

Gypsophila polyclada Fenzl var. *lurorum* (Rech. f.) Parsa [8:239, 283].

Syn.: *Gypsophila lurorum* Rech. f. in Bot. Jahrb. 75:354 (1951).

var. *xanthochlora* (Rech. f.) Parsa [8:239, but on p. 283 as f. *xanthochlora* (Rech. f.) Parsa].

Syn.: *Gypsophila xanthochlora* Rech. f. in Bot. Jahrb. 75:355 (1951).

Gypsophila honigbergeri (Fenzl) Boiss. var. *porphyrantha* (Rech. f. & Aell.) Parsa [8:240, 283].

Syn.: *Gypsophila porphyrantha* Rech. f. & Aellen in Bot. Jahrb. 75:356 (1951).

Acanthophyllum sordidum Bge. f. *chloroleucum* (Rech. f. & Aell.) Parsa [8:241, 284].

Syn.: *Acanthophyllum chloroleucum* Rech. f. & Aellen in Bot. Jahrb. 75:360 (1951).

Silene kotschyi Boiss. f. var. *effusissima* Boiss. f. *austro-iranica* (Rech. f., Aell. & Esfand.) Parsa [8:241, 285].

Syn.: *Silene austro-iranica* Rech. f., Aellen & Esfandiari in Bot. Jahrb. 75:349 (1951).

Silene nurensis Boiss. & Hausskn. var. *dictyoneura* (Rech. f. & Esfand.) Parsa [8:243, 287].

Syn.: *Silene dictyoneura* Rech. f. & Esfandiari in Bot. Jahrb. 75:348 (1951).

Silene commelinifolia Boiss. var. *pravitziana* (Rech. f.) Parsa [8:243, 287].

Syn.: *Silene pravitziana* Rech. f. in Bot. Jahrb. 75:349 (1951).

Silene marschallii C.A. Mey. var. *behboudiana* (Rech. f. & Esfand.) Parsa [8:243, but on p. 288 as f. *behboudiana* (Rech. f. & Esfand.) Parsa].

Syn.: *Silene behboudiana* Rech. f. & Esfandiari in Bot. Jahrb. 75:351 (1951).
var. *koelzii* (Rech. f.) Parsa [8:243, 287].

Syn.: *Silene koelzii* Rech. f. in Bot. Jahrb. 75:352 (1951).

Buffonia kotschyana Boiss. var. *capitata* (Rech. f.) Parsa [8:246, 290].

Syn.: *Buffonia capitata* Rech. f. in Bot. Jahrb. 75:347 (1951).

Arenaria rigida M. Bieb. var. *mirdamadii* (Rech. f.) Parsa [8:246, 291].

Syn.: *Arenaria mirdamadii* Rech. f. in Bot. Jahrb. 75:343 (1951).

Arenaria balansae Boiss. var. *minutissima* (Rech. f. & Esfand.) Parsa [8:247, 291].

Syn.: *Arenaria minutissima* Rech. f. & Esfandiari in Bot. Jahrb. 75:342 (1951).

Haplophyllum affine (Aitch. & Hemsl.) Eug. Kor. var. *khorrassanicum* (Rech. f., Aell. & Esfand.) Parsa [8:257, 298].

Syn.: *Haplophyllum khorrassanicum* Rech. f., Aellen & Esfandiari in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 87:303 (1950).

Lotus schimperii Steud. f. *laricus* (Rech. f., Aell. & Esfand.) Parsa [9:2].

Syn.: *Lotus laricus* Rech. f., Aellen & Esfandiari in Bot. Jahrb. 75:333 (1951).

Lotus stocksii Boiss. f. *makranicus* (Rech. f. & Esfand.) Parsa [9:2].

Syn.: *Lotus makranicus* Rech. f. & Esfand. in Bot. Jahrb. 75:334 (1951).

Hippocrepis constricta Kunze var. *bornmuelleri* (Hausskn.) Parsa [9:5].

Syn.: *Hippocrepis bornmülleri* Hausskn. in Mitt. thüring. bot. Ver. NF 6:53 (1894).

Chesneya parviflora Jaub. & Spach f. *makranica* (Rech. f. & Esfand.) Parsa [9:5].

Syn.: *Chesneya makranica* Rech. f. & Esfand. in Bot. Jahrb. 75:335 (1951).

Astragalus ophiocarpus Benth. var. *glaberrimus* (Širj. & Rech. f.) Parsa [9:5].

Syn.: *Astragalus glaberrimus* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:180 (1953).

Astragalus ammophilus Kar. & Kir. var. *balucistanicus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:62 (1951).

This taxon was superfluously published as *A. ammophilus* Kar. & Kir. var. *balucistanicus* (Širj. & Rech. f.) Parsa [9:6] with the basionym mistakenly cited as *A. balucistanicus* Širj. & Rech. f.?

Astragalus gyzensis Del. f. *brachycarpus* (Širj. & Rech. f.) Parsa (9:14).
Syn.: *Astragalus gyzensis* Del. var. *brachycarpus* Širj. & Rech. f. [sphalm.
'*A. brachycarpus* Širj. & Rech. f.'] in Ann. Nathist. Hofmus. Wien
58:62 (1951).

Astragalus viciifolius DC. var. *haematinus* (Širj. & Rech. f.) Parsa [9:25].
Syn.: *Astragalus haematinus* Širj. & Rech. f. in Anz. Oest. Akad. Wiss.
Math.-nat. Kl. 90:114 (1953).

Astragalus podosphaerus Boiss. & Hausskn. var. *ulodjensis* (Širj. & Rech. f.)
Parsa [9:25].
Syn.: *Astragalus ulodjensis* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-
nat. Kl. 90:115 (1953).

Astragalus buchtormensis Pall. var. *pseudobuchtormensis* (Širj. & Rech. f.)
Parsa [9:57].
Syn.: *Astragalus pseudobuchtormensis* Širj. & Rech. f. in Anz. Oest. Akad.
Wiss. Math.-nat. Kl. 90:183 (1953).

Astragalus subinduratus Gontsch. var. *pseudoindurascens* [sphalm. *pseudo-
induratus*] (Širj. & Rech. f.) Parsa (9:58 based on Rech. & Aell. 4610).
Syn.: *Astragalus pseudoindurascens* [sphalm. *pseudoinduratus*] Širj. & Rech.
f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:119 (1953) based on
Rech. & Aell. 4610.

Astragalus nicharensis Bge. var. *longepedunculatus* (Širj., Rech. f. & Aell.)
Parsa [9:66].
Syn.: *Astragalus longepedunculatus* Širj., Rech. f. & Aellen in Anz. Oest.
Akad. Wiss. Math.-nat. Kl. 90:181 (1953).

Astragalus samamensis Boiss. & Buhse f. *djashmensis* (Širj., Rech. f. & Aell.)
Parsa [9:70].
Syn.: *Astragalus djashmensis* Širj., Rech. f. & Aellen in Anz. Oest. Akad.
Wiss. Math.-nat. Kl. 90:182 (1953).

Astragalus apricus Bge. var. *rarus* (Širj. & Rech. f.) Parsa [9:72].
Syn.: *Astragalus rarus* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat.
Kl. 90:183 (1953).

Astragalus schistocalyx Bge. var. *bizgi-montanus* Širj. & Rech. f. in Ann.
Nathist. Hofmus. Wien 58:63 (1951).

This taxon was superfluously published as *A. schistocalyx* Bge. var. *bizgi-
montanus* (Širj. & Rech. f.) Parsa [9:80] with the basionym mistakenly cited
as '*A. bizgimontanus* Širj. & Rech. f.'

Astragalus farmanfarmajani Širj. & Rech. f. f. *flavus* (Širj.) Parsa [9:81].
Syn.: *Astragalus farmanfarmajani* Širj. & Rech. f. var. *flavus* Širj. in Ann.
Nathist. Hofmus. Wien 58:63 (1951).

Astragalus parrowianus Boiss. & Hausskn. var. *flavus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:66 (1951).

This taxon was superfluously published as *A. parrowianus* Boiss. & Hausskn. var. *flavus* (Širj. & Rech. f.) Parsa [9:82] with the basionym mistakenly cited as '*A. flavus* Širj. & Rech. f.'

Astragalus aureus Willd. f. *bracteolatus* (Širj. & Rech. f.) Parsa [9:82].
Syn.: *Astragalus aureus* Willd. var. *bracteolatus* Širj. & Rech. f. [sphalm. '*A. bracteolatus*'] in Ann. Nathist. Hofmus. Wien 58:67 (1951).

var. *pseudaureus* (Širj. & Rech. f.) Parsa [9:83].
Syn.: *Astragalus pseudaureus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:68 (1951).

Astragalus caspius M. Bieb. var. *bornmuelleri* Širj. f. *sharifii* (Širj. & Rech. f.) Parsa [9:83].
Syn.: *Astragalus sharifii* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:65 (1951).

var. *talarensis* (Širj. & Rech. f.) Parsa [9:84].
Syn.: *Astragalus talarensis* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:67 (1951).

var. *rahensis* (Širj. & Rech. f.) Parsa [9:84].
Syn.: *Astragalus rahensis* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:66 (1951).

var. *rosellus* (Širj. & Rech. f.) Parsa [9:85].
Syn.: *Astragalus rosellus* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:110 (1953).

Astragalus pachystachys Bge. var. *longemucronulatus* (Širj. & Rech. f.) Parsa [9:87].
Syn.: *Astragalus longemucronulatus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:65 (1951).

Astragalus totchalensis Bornm. var. *behboudii* (Širj. & Rech. f.) Parsa [9:89].
Syn.: *Astragalus behboudii* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:68 (1951).

Astragalus chrysostachys Boiss. f. *parisiensis* (Širj. & Rech. f.) Parsa [9:91].
Syn.: *Astragalus chrysostachys* Boiss. var. *parisiensis* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:184 (1953).

Astragalus persicus F. & M. var. *naftabensis* (Širj. & Rech. f.) Parsa [9:93].
Syn.: *Astragalus naftabensis* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:69 (1951).

var. *brevipedunculatus* [sphalm. *pedunculatus*] (Širj. & Rech. f.) Parsa [9:94 based on Rech. 6738].

Syn.: *Astragalus naftabensis* Širj. & Rech. f. var. *brevipedunculatus* Širj. & Rech. f. [sphalm. *A. naftabensis* Širj. & Rech. f.] in Ann. Nathist. Hofmus. Wien 58:70 (1951) based on Rech. 6738.

Astragalus ptychophyllus Boiss. f. *longepedunculatus* (Širj. & Rech. f.) Parsa [9:99].

Syn.: *Astragalus ptychophyllus* Boiss. var. *longepedunculatus* Širj. & Rech. f. [sphalm. '*A. longepedunculatus* Širj. & Rech. f.'] in Ann. Nathist. Hofmus. Wien 58:70 (1951) based on *Stapf* 1030, 1031 from prov. Fars.

Not to be confused with *Astragalus longepedunculatus* Širj., Rech. f. & Aell. in sect. *Myobroma* based on *Aellen* 1082 from Mazanderan (see p. 359).

f. *xerxis* (Širj. & Rech. f.) Parsa [9:101].

Syn.: *Astragalus ptychophyllus* Boiss. var. *xerxis* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:184 (1953).

Astragalus microphysa Boiss. f. *paucijugus* (Širj. & Rech. f.) Parsa [9:105].

Syn.: *Astragalus microphysa* Boiss. var. *paucijugus* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:122 (1953).

var. *durudensis* (Širj. & Rech. f.) Parsa [9:105].

Syn.: *Astragalus durudensis* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:121 (1953).

Astragalus lurorum Bornm. f. *chamchidensis* (Širj. & Rech. f.) Parsa [9:106].

Syn.: *Astragalus lurorum* Bornm. var. *chamchidensis* Širj. & Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:184 (1953).

Astragalus lalezarensis Bornm. var. *rubrolineatus* (Širj. & Rech. f.) Parsa [9:109].

Syn.: *Astragalus rubrolineatus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:71 (1951).

Astragalus mucronifolius Boiss. var. *talimansurensis* (Rech. f.) Parsa [9:131].

Syn.: *Astragalus talimansurensis* Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 90:180 (1953).

var. *ovoideus* (Širj. & Rech. f.) Parsa [9:131].

Syn.: *Astragalus ovoideus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:72 (1951).

var. *robustus* (Širj. & Rech. f.) Parsa [9:131].

Syn.: *Astragalus mucronifolius* Boiss. subsp. *robustus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:71 (1951).

f. *brevidentatus* (Širj. & Rech. f.) Parsa [9:132].

Syn.: *Astragalus mucronifolius* Boiss. var. *brevidentatus* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:72 (1951).

Hedysarum ecbatanum Beck f. *kurdicum* (Rech. f.) Parsa [9:136].

Syn.: *Hedysarum kurdicum* Rech. f. in Bot. Jahrb. 75:335 (1951).

Hedysarum callithrix Bge. var. *stenophyllum* (Rech. f. & Esfand.) Parsa [9:137].

Syn.: *Hedysarum stenophyllum* Rech. f. & Esfandiari in Bot. Jahrb. 75:337 (1951).

Onobrychis subacaulis Boiss. f. *grandiflora* (Širj. & Rech. f.) Parsa [9:147].

Syn.: *Onobrychis subacaulis* Boiss. var. *grandiflora* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:74 (1951).

Onobrychis gaubae Bornm. f. *kalakensis* (Širj. & Rech. f.) Parsa [9:151].

Syn.: *Onobrychis gaubae* Bornm. var. *kalakensis* Širj. & Rech. f. in Ann. Nathist. Hofmus. Wien 58:74 (1951).

'*Prunus divaricata* Ledeb. var. *caspica* (Kov. & V. Ekim.) Parsa' [9:159].

Parsa published this combination based on '*P. caspica* Kov. & V. Ekim.' in Komarov, *Fl. URSS* 10:518 (1941). The name however was originally proposed in *Dokl. Akad. Nauk SSSR* 23:282, 284 (1939) but, as pointed out by Browicz in Rech. f., *Flora Iranica*, Rosaceae 163 (1969), it is a *nomen nudum*, the description being in English. Browicz, *l.c.*, treats it as '*P. divaricata* subsp. *caspica* (Kov. & V. Ekim.) Browicz, *comb. nov.*' Although both Parsa and Browicz give a short latin description (Parsa very short!) neither clearly indicates a type specimen. The name therefore still requires to be validated.

Saxifraga cartilaginea Willd. var. *mazanderanica* [sphalm. *mazandarunica*] (Rech. f.) Parsa [9:176].

Syn.: *Saxifraga mazanderanica* Rech. f. in Anz. Oest. Akad. Wiss. Math.-nat. Kl. 87:87 (1950).

CONCLUDING REMARKS

Although a useful check-list, Parsa's *Flore de l'Iran* is a badly written and ill-presented Flora which in many respects contravenes accepted botanical practice. It contains innumerable mistakes of all kinds and many of the new taxa in it cannot be accurately assessed because the type specimens cannot be located. Attempts (for example) to locate the whereabouts of the type specimens of the species which are dealt with in this paper have been unsuccessful, despite several relevant enquiries. It is merely an assumption that they are all to be found in the Faculty of Pharmacy, University of Tehran.

Unless all the type specimens can be traced and safely housed in an institute where they can be readily available to all for study, it seems highly probable that most of Parsa's over hastily published, yet valid, names are going to remain in limbo as an unnecessary burden to all those who deal with the Iranian flora.

APPENDIX

Summary of contents of Parsa, *Flore de l'Iran*, vols 1-9

Publication details of volumes	Contents
1. Tehran. 4 Feb. 1951 (15 Feb. 1952, p. 1707).	pp. 5-315: general introductory chapters including collectors, bibliography, gazetteer, maps etc. pp. 316-346: key to families. pp. 347-1554: Ranunculaceae (1) to Vitaceae (33), figs. pp. 1555-1707: supplement, indices.
2. Ministry of education, Museum of Natural History, Tehran. 1943 (cover) 1948 (title page).	pp. 3-873: Burseraceae (34) to Cornaceae (56), figs. pp. 874-905: figs., addenda and supplements etc. 61 pages of index.
3. Ministry of education, Museum of Natural History, Tehran. 1943 (21 Nov. 1949, p. 972).	pp. 3-889: Caprifoliaceae (57) to Vacciniaceae (64), figs. pp. 890-972: figs., indices.
4. Ministry of education, Museum of Natural History, Tehran. Oct. 1949 (15 Jan. 1951, p. 1495).	pp. 3-1376: Lentibulariaceae (65) to Casuarinaceae (115), figs. pp. 1377-1508: indices, addenda.
5. Ministry of education, Museum of Natural History, Tehran. July 1950 (26 Dec. 1950, p. 937).	pp. 3-936: Hydrocharitaceae (116) to Equisetaceae (145), figs. pp. 937-1024: indices.
[6]. Suppl. 1. Ministry of education, Museum of Natural History, Tehran. March 1952 (cover and Tom. 1). June 1952 (Tom. 2 & 3).	pp. 4-518: Tom. 1—suppl. to vol. 2, text, figs. and diagn. pl. nov. pp. 519-551: Tom. 2—suppl. to vol. 4. pp. 553-613: Tom. 3—suppl. to vol. 5.
7. Publ. Univ. Tehran no. 504. 1959.	Part 1, pp. 1-65: index to supplement. Part 2, pp. 67-335: index to names (a) Persian-Latin (b) Latin-Persian.

Publication details of volumes	Contents
8. Publ. Univ. Tehran no. 613. 1960.	pp. 1-212: index to names, Latin-Persian. pp. 213-339: 'Additions to Persian Flora, part 1', Ranunculaceae to Cistaceae, figs. [Title page and introduction to the 'Additions' appear on pp. 259 and 260].
9. Publ. Univ. Tehran no. 613/9 1966—dated p. 213.	pp. 1-212: second suppl. to vol. 2, figs. pp. 213-254: second suppl. to vol. 1, index, figs.