

New species of *Calligonum* (Polygonaceae) from Iraq

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Objekttyp: **Article**

Zeitschrift: **Candollea : journal international de botanique systématique = international journal of systematic botany**

Band (Jahr): **43 (1988)**

Heft 1

PDF erstellt am: **29.05.2024**

Persistenter Link: <https://doi.org/10.5169/seals-879740>

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New species of *Calligonum* (Polygonaceae) from Iraq

A. HUSAIN AL-KHAYAT

RÉSUMÉ

HUSAIN AL-KHAYAT, A. (1988). Une espèce nouvelle de *Calligonum* (Polygonaceae) d'Irak. *Candollea* 43: 273-277. En anglais, résumés français et anglais.

Calligonum mejidum et ses deux variétés sont décrites pour la première fois d'Irak.

ABSTRACT

HUSAIN AL-KHAYAT, A. (1988). New species of *Calligonum* (Polygonaceae) from Iraq. *Candollea* 43: 273-277. In French, French and English abstracts.

Calligonum mejidum with two varieties are described as new from Iraq.

Near the southern bank of Thirthar-Lake, ca. 50 km N.W. of Falluja City, two new *Calligonum* taxa were found. Upon comparing these plants with the collections in three main herbaria it was not possible to find a similar collection elsewhere. However they show some affinities, in many respects, to the Russian endemic *Calligonum bakuense* Litw. (*in* KUMAROV, 1936) which grows in different geographic, climatic and soil conditions. Apart from that, neither "Flora Orientalis" (BOISSIER, 1879), nor the floras of the countries in which this genus occurs (DAVIS, 1966; POST, 1933; RECHINGER & SCHIMAN-CZEIKA, 1968), or even the "Flora of Lowland Iraq" (RECHINGER, 1964) show a species with similar characteristics. Therefore these taxa are regarded as endemic for Iraq.

***Calligonum mejidus* Al-Khayat, spec. nov.**

Section: *Pterogobasis*.

Frutex usque ad 150 cm altus; cortice albidus vel albido-griseo; ramuli annotini ad nodos fasciculati herbacei; ramosis striati floriferous; internodiis 2-3 cm longis; ochrea brevis; folia filiform subula; flores 2-4(-5) ni fasciculati, pedicelli inaequalibus 2-5 mm longi, glabri; lobi perigonii 3 mm longi ovati-orbicularis reflexus in fructus; antherae caryophyllaceus; filamentis interdum in perianthii phylla delatatis ad basis barbatus; fructus subglobosus vel oblonga-ovatus 11-15 × 10-14 mm, setos; nux leviter sinistrorum torta cum costae obtusi; alis 1-2 mm latis apice stylorum basi adnatis; costae setis 2 seriatis obsitae quadri-quinquies 3-5 mm longae ± rigidæ, furcae terminali patuli subspinescenti; caryophyllacea ubi maturuti, spadiceus ubi siccitate.

A much branched shrub to 150 cm high; the branches flexuous; bark white, sulcate; herbaceous branchlets lateral, clustered at the nodes of annotinous branches branched, all floriferous; internodes 2-3 cm long, terminating in a short ochrea; leaves filiform subulate; flowers 2-4(-5) in fascicle; pedicels unequal 2-5 mm long, glabrous; perigon segments 3 mm long, ovate-orbicular, reflexed in fruit; anthers pink; filaments dilated at base, bearded; fruit subglobose to oblong-oval, 11-15 × 10-15 mm, setose; achene slightly anti-clockwise coiled with bluntish ribs; wings 1-2 mm broad

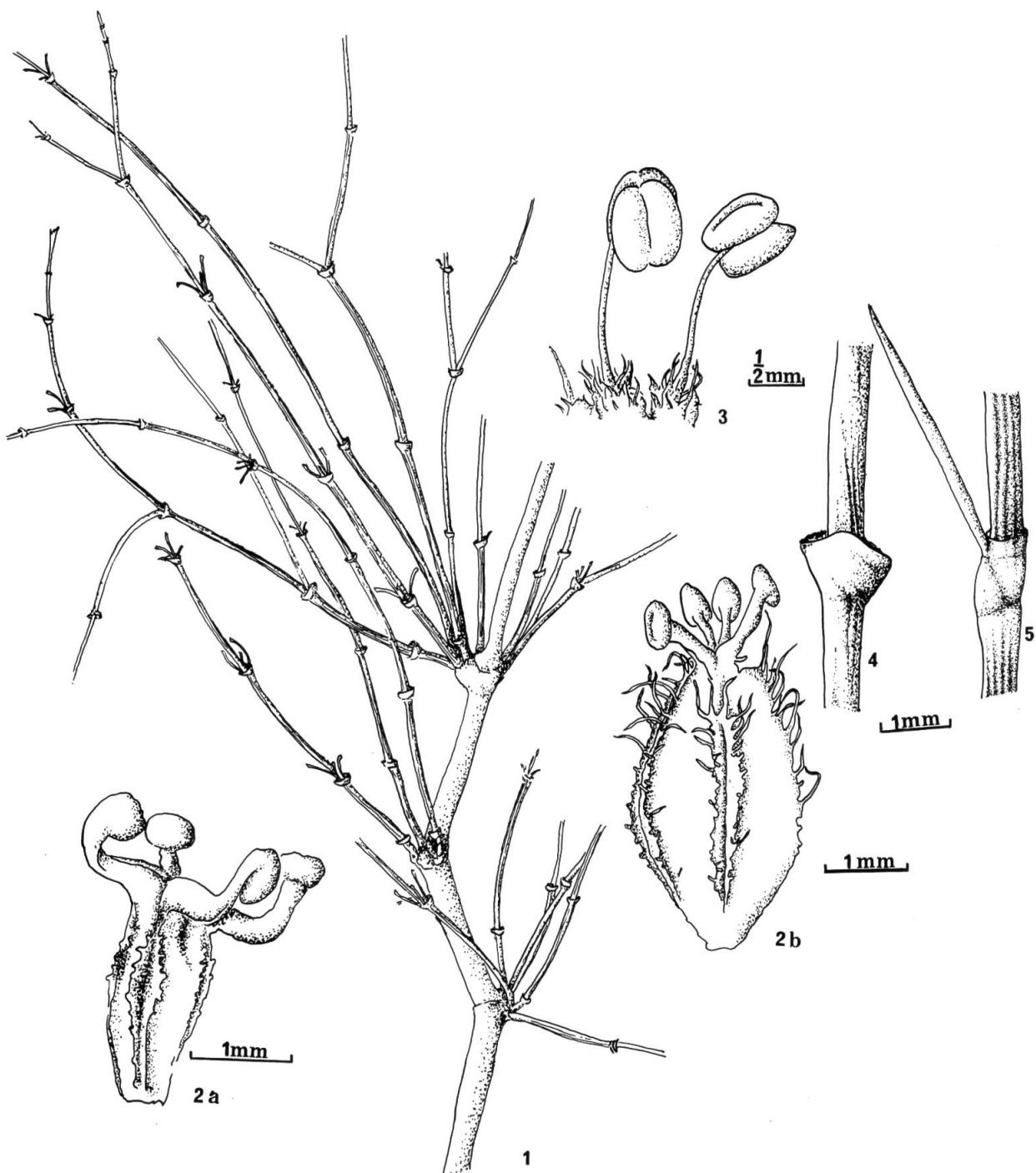


Fig. 1. — *Calligonum mejidum* var. *mejidum*.
1, habit; 2a-b, two development stages of fruit; 3, stamens; 4, ochrea; 5, *C. mejidum* var. *thirtharicum*, ochrea.



Fig. 2. — Distribution of *Calligonum mejidum* in Iraq.

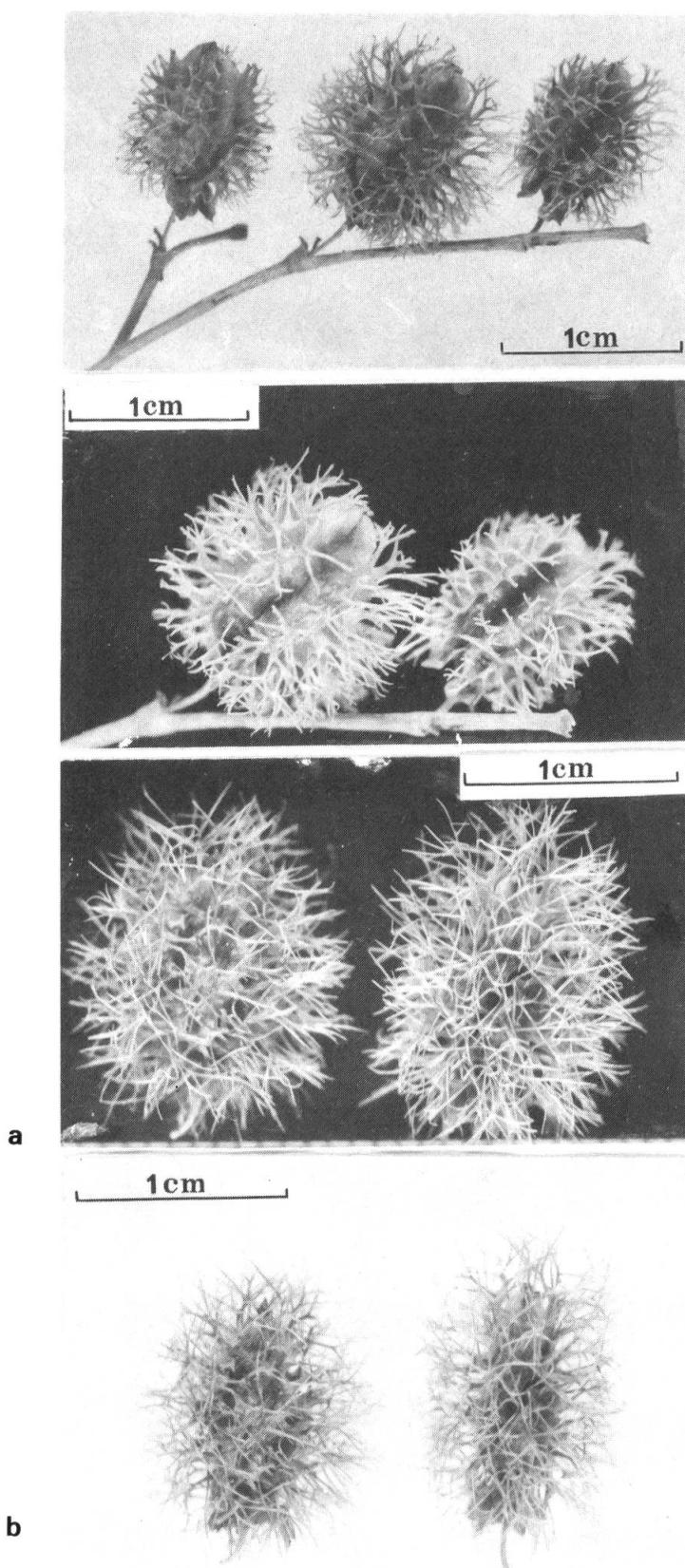


Fig. 3. — *Calligonum mejidum*; the fruit of var. *mejidum* in two development stages (a), var. *thirtharicum* (b).

united with base of style, in 2 rows, beset on the margin with flat ± stiffish bristles, 4-5 times branched, 3-5 mm long, the terminal spinules spreading subspinescent, partly pink when ripe, becoming light yellowish brown when dried; nut light brown.

Distribution. — (DLJ) Southern edge of Thirthar Lake. Endemic.

Fr.: April-May. *Hab.*: In arenosis-gypsis.

Calligonum mejidum var. **mejidum**

Ochrea cupulatae ± coriaceus, in parte inferiore coriaceae brunneae opaceae; folia brevis 2-4 mm longus, mox decidua; cortice albidus; fructus subglobosus vel ovatus 11-14 × 10-13 mm, setae 4 mm longae 4-furcatae, rigidulus; nux elliptica, cellula epidermis manifestus.

Ochrea cup-shaped ± leathery, in the lower parts brown-leathery opaque; leaves short 2-4 mm long, soon deciduous; bark white, fruit subglobose or ovate, 11-14 × 10-13 mm, bristles 4 mm long, 4-forked stiffish; achena elliptic, epidermis cells obvious.

Holotype: Iraq (DLJ) ad maridiem a lacum Thirtharum, 15.5.1984, *Al-Khayat & Omar* 54885 in (BAG). *Isotype*: in Kew et (BUH).

Calligonum mejidum var. **thirtharicum** Al-Khayat, var. nov.

Ochrea junioris tubulosae membranaceae hyalinae; folia partim decidua, ad summum 12 mm longus; cortice albido-griseo; fructus ovatus 13-15(-16) × 11-12 mm; setae 4 mm longae 3-4-furcatae ± tenuis; nux anguste elliptica, cellula epidermis non manifestus.

Young ochrea tubular membranous pellucid; leaves partly deciduous to 12 mm long; bark greyish; fruit ovate 13-15(-16) × 11-12 mm, bristles 4 mm long, 3-4-forked, ± thin; achene narrowly elliptic, epidermis cells not obvious.

Holotype: Iraq (DLJ) ad meridiem a lacum Thirtharum, 15.5.1983, *Al-Musawi* 54001 (BAG).

Isotype: in Kew et (BUH).

Representative specimens: (BAG): (DLJ) Thirthar Lake, southern bank ca. 50 km N.W. of Falluja City, *Al-Khayat & Omar* 54884, 54885, 54886, 54888, 54889, 54893. (BUH): (DLJ) Thirthar Lake, southern bank ca. 50 km N.W. of Falluja City, *Al-Musawi* 41643, 41644, 41645, 41646.

Abbreviations: BAG = National Herbarium, Baghdad, Iraq. BUH = Baghdad University Herbarium, Iraq. DLJ = Lower Jazira District, Desert Plateau.

ACKNOWLEDGEMENTS

I am indebted to Mr. C. C. Townsend, Royal Botanic Gardens, Kew, U. K. who provided me with a xerox copy of the family *Polygonaceae* of Flora of U.S.S.R. Also Professor Dr. Gubov, Head Curator of the Herbarium of Kumarov Botanical Institute, Leningrad, U.S.S.R. for the Herbarium material. My thanks to Dr. Ali Al-Musawi, Department of Biology, University of Baghdad, Iraq for his valuable advice and for the Herbarium material, to Dr. Hikmat Rumi, Botanical Research Center, to Miss Widad Hamdan, National Herbarium of Iraq for their co-operation and to Mr. Sabah Wahbi for his assistance in photography.

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