

PHANEROGAMARUM MONOGRAPHIÆ TOMUS XXI

To Dr. José Borja Carbonell
In Memoriam

A Taxonomic Revision of the Section *Sideritis*
(Genus *Sideritis*) (Labiatae)

by

CONCEPCIÓN OBÓN DE CASTRO and DIEGO RIVERA NUÑEZ

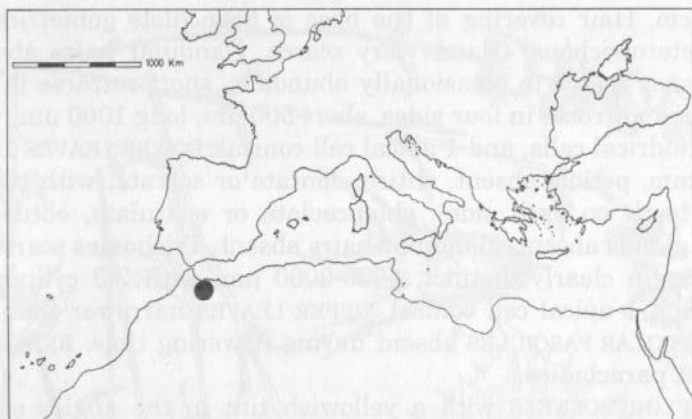
with 123 figures, 13 tables and 74 maps



J. CRAMER

in der Gebrüder Borntraeger Verlagsbuchhandlung

BERLIN · STUTTGART 1994



Map 55. Distribution map of *S. beniboufraiana*.

PHENOLOGY: Flowering in May-June, fruiting in June-July.

HABITAT: Thermo, meso-Mediterranean, dry. 500-800 m. **ARID GARRIGUES:** Scrubs, colonizing gravels among the *Smilax mauritanicae-Quercetum rotundifoliae* Barbero, Quezel and Rivas-Martínez, 1981.

COMMON NAMES: Unknown.

USES: Unknown.

SPECIMENS STUDIED

MOROCCO:

Rif:

Beni-Bu-Frah (Torres de Alcalá), 4-VI-1927, *Font Quer 532*, BC 74187 (10518), BM (1454), UC 370029 (9006).

45- *Sideritis bubani* Font Quer, Butll. Inst. Catalana Hist. Nat., 20 (October): 141, 1920.

Type: *Hab. in declivibus montosis Vallis Sicoris (Ilerda), prope pagos Martinet et Bellver, 950-1000 m. alt., ubi 4 jul. 1920 legi.*

Typification: **LECTOTYPE:** Designated here, the specimen affixed to the lower part of the sheet kept in the Herbarium MA 100497.

Synonyms:

≡ *Sideritis hirsuta* var. *bubani* (Font Quer) O. Bolós and Vigo, *Collect. Bot. (Barcelona)*, 14: 93, 1983.

Description: BASAL PARTS woody, persistent and erect; to 40 cm including branches. Non woody branches erect or ascending, to 35 cm. Hair covering at the base of branchlets goniotrichous and heterotrichous. Glands very scarce, glandular hairs absent. Trichomes scarce to occasionally abundant, short retrorse in two sides and antrorse in four sides, short 500 μ m, long 1000 μ m, with 2-3 cylindrical cells, and 1 apical cell conical. LOWER LEAVES 10-35 x 3-6 mm, petiole absent, entire, dentate or serrate (with two or three teeth on each side), oblanceolate or spatulate, obtuse or acute, glands absent, glandular hairs absent. Trichomes scarce, in the margin clearly distinct, 1000-2000 μ m, with 2-3 cylindrical cells, and 1 apical cell conical. UPPER LEAVES narrower than the lower. AXILAR FASCICLES absent during flowering time. BRANCHES without paraclades.

INFLORESCENCES with a yellowish tint in the angles of the axis, calyces and bracts, cylindrical, 4-10 cm, 3-8 verticillasters, the central pair 7-13 mm apart. On inflorescence axis, glands very scarce, glandular hairs absent. Trichomes abundant, patent or retrorse, 1000-2500 μ m, with 4-6 cylindrical cells, and 1 apical cell conical. LOWER BRACTS patent or reclinate, ovate, with greatest width 1/6 above the base and basal emargination 1/8 x 1/10, cut 1/5, 10-18 x 15-20 mm, 10-12 teeth on each side. MIDDLE BRACTS patent, ovate, with greatest width 0 above the base and basal emargination 1/6 x 1/8, cut 1/4-1/3, 11 x 16 mm, 10-12 teeth on each side. Adaxial surface glabrous. Abaxial surface with glands absent, glandular hairs (with thin glands) scarce or abundant. Trichomes very scarce, 400-600 μ m, with 1-2 cylindrical cells, and 1 apical cell conical.

VERTICILLASTERS 12 flowered. BRACTEOLAS absent. CALYCES campanulate, 7-9 mm, with five teeth divergent, subequal, 3-4 mm, ending in spines 1 mm. Carpostegium discontinuous, alternating with the teeth. In the external surface of calyx: glands absent, glandular hairs (with thin glands) scarce to abundant. Trichomes scarce, 2 μ m. COROLLAS 10 mm, 2-lipped in 1/3-1/2 of their length, upper lip yellow, emarginate; lower lip yellow, cut in 3 unequal lobes; gorge yellow. STAMENS included in the corolla tube, filaments 1 mm. STYLE 2-3 mm.

CREMOCARPS ovoid, 1.8-2.2 mm .

CHROMOSOME NUMBERS: Unknown.

DISTRIBUTION: Endemic to the Provincia Pirenaica (Sector Pirenaico Oriental: Andorrano-Ariegense) (Map 56).



Figure 92. *S. bubani*: a. habit; b. leaves; c. lower bract; d. middle bract; e. calyx. Scale bars, a = 1 cm; b, c, d, e = 1 mm.

PHENOLOGY: Flowering in June-July, fruiting in July-August.

HABITAT: Montane, subhumid. 900-1100 m. **APHYLLANTHES GRASSLANDS:** Scrubs colonizing slopes among the *Buxo-Quercetum pubescentis* Br.-Bl., 1932 *buxetosum* (*Buxo-Quercion pubescentis*, *Quercetalia pubescentis*, *Querco-Fagetea*). *Thymo-Globularietum cordifoliae* Bolós, 1954 (*Xero-Aphyllantenion*, *Sideritido-Salvion*, *Rosmarinetalia*, *Rosmarinetea*).

COMMON NAMES: Unknown

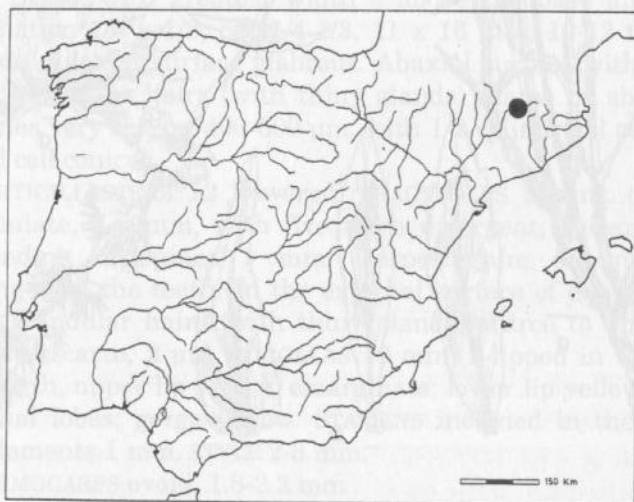
USES: Unknown.

SPECIMENS STUDIED

SPAIN:

Lérida:

2 km from Tuixén to Seo Urgel, 5-VII-1987, *Molero and Simon*, MA 428043 (2928, 2929), MGC 23668 (5619). - Between Martinet and Bellver near Seo Urgell, 4-VII-1920, *Font Quer 261*, K (595), BM (3030), MA 100497 (2926). - Between Martinet and Bellver, 23-VIII-1910, *Soulié*, TL (3735). - Martinet, 10-VI-1983, *Montserrat and Villar*, MA 256237 (2925). - Valle del Segre (El Martinet), 16-VII-1846, *Bubani*, TL (3687). - Valle del Segre above Bellver, 20-VII-1901, *Coste and Gautier 4783*, P (240), MA 100496 (2927). - Near Bellver, 5-VIII-1993, *Rivera and Obón*, MUB (10315, 10316, 10317, 10318, 10319, 10320, 10321, 10322, 10323, 10324).



Map 56. Distribution map of *S. bubani*.