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Studies in the Flora of Yemen. 2. New records for the Flora of Aden

A. N. GIFRI

RÉSUMÉ

GIFRI, A. N. (1992). Etude sur la flore du Yémen. 2. Nouvelles données pour la flore d'Aden. *Candollea* 47: 613-619. En anglais, résumés français et anglais.

Soixante-deux espèces de vingt-six familles végétales sont signalées pour la première fois pour la flore d'Aden.

ABSTRACT

GIFRI, A. N. (1992). Studies in the Flora of Yemen. 2. New records for the Flora of Aden. *Candollea* 47: 613-619. In English, French and English abstracts.

Sixty two species belonging to 26 plant families are recorded for the first time for the Flora of Aden.

For the study of the "Flora of Aden" the author, in some cases in the company of others, collected 1200 specimens from Aden. Among these specimens 62 species belonging to 26 families are not mentioned in BLATTER's "Flora of Aden" (1914-16), and thus are new for the Flora of Aden. Those collected with Prof. L. BOULOS are mentioned in his article: "A contribution to the Flora of South Yemen" (1988).

The herbarium materials are housed mainly at KTU and the Herbarium of University of Aden and duplicates can be found at B, KARM and KOR.

The species are arranged according to family in alphabetical order.

AIZOACEAE

Sesuvium verrucosum Raf. (det. L. Boulos, August 1989, Kew).

Locality. — Found in saline soil in Khormaksar (1030, coll. on 12.11.1988); Al-Mansoorah — Caltex roundabout (1765, coll. on 30.7.1989).

Trianthema triquetra Roth ex Willd. (det. L. Boulos, August 1989, Kew).

Locality. — Sheikh Othman, Friendship Hospital (1099, coll. on 29.11.88).

AMARANTHACEAE

Achyranthes aspera L.

Locality. — Found as weed in Sheikh Othman (1115, coll. on 29.11.88 & 1481, coll. on 9.1.89); Bir Ahmed (1166, coll. on 30.11.1988); Darsaad, Al-Kimisri garden (1467, coll. on 4.1.89); Maalla, (1903, coll. on 14.3.90).

Amaranthus hybridus L. (det. L. Boulos, 1989, Kew).

Locality. — Khormaksar, Tarik camp (1380, coll. on 2.1.89).

Amaranthus spinosus L.

Locality. — Found as weed in Bir Ahmed (1143, coll. on 30.11.88).

Digera muricata (L.) Mart.

Locality. — Found as weed in Bir Ahmed (1142, coll. on 30.11.88 & 1232, coll. on 9.12.88); Maalla (1898, coll. on 14.3.90).

ASCLEPIADACEAE

Leptadenia arborea (Forssk.) Schweinf.

Locality. — Caltex — Abo Harba (Boulos, Gifri & al. 16571, coll. in June 1987); Khormaksar (1371, coll. on 2.1.89), College of Education (1007, coll. on 10.11.88); Gold mhure (1176, coll. on 2.12.1988); Aden, cemetery (1333, coll. on 29.12.88); Al-Mansoorah (1340, coll. on 31.12.88); Darsaad (1397, coll. on 4.1.89); Sheikh Othman (1490, coll. on 9.1.89).

Leptadenia pyrotechnica (Forssk.) Decne.

Locality. — Fukum, found on the sand (1811, coll. on 20.8.89).

Sarcostemma viminalis (L.) R. Br.

Locality. — Shamsan range (1793, coll. on 18.8.89 & 2015, coll. on 28.3.90).

ASTERACEAE

Launaea procumbens (Roxb.) Ramayya & Rajagopal (det. L. Boulos, August 1989, Kew).

Locality. — Found as weed in Bir Ahmed (1158, coll. on 30.11.88).

Vernonia cinerea (L.) Less. (det. L. Boulos, August 1989, Kew).

Locality. — Found as weed in Sheikh Othman, garden of Friendship Hospital (1109, coll. on 29.11.88); Bir Ahmed (1159, coll. on 30.11.88).

BORAGINACEAE

Heliotropium azzanum O. Schwartz

Locality. — Shamsan range west of the Tower of Silence (Boulos, Gifri & Awad 16538, coll. in June 87).

Heliotropium europaeum L.

Locality. — Found as weed in Bir Ahmed (1228, coll. on 9.12.88).

Heliotropium lasiocarpum Fisch. & Mey.

Locality. — Bir Ahmed (*Boulos, Gifri & al. 16599*, coll. in June 87).

CAPPARACEAE

Capparis spinosa L.

Locality. — Found as weed in Bir Ahmed (*Boulos, Gifri & al. 16598*, coll. in June 87; *1160*, coll. on 30.11.88 & *1235*, coll. on 9.12.88).

COMBRETACEAE

Conocarpus lancifolius Engl. ex Engl. & Diels

Locality. — Khormaksar, College of Education (*Boulos & Gifri 16491*, coll. in June 87), in the town (*1024*, coll. on 11.11.88 & *1094*, coll. on 19.11.88), Tarik camp (*1383*, coll. on 2.1.89); Darsaad (*1450*, coll. on 4.1.89); Al-Mansoorah (*1763*, coll. on 30.7.89).

CONVOLVULACEAE

Convolvulus cf. **rhyinospermus** Hochst. ex Choisy (det. A. G. Miller, Sept. 1990, Berlin).

Locality. — Shamsan (*2008*, coll. on 28.3.90).

Cressa cretica L.

Locality. — Khormaksar (*Boulos & Gifri 16498*, coll. in June 87), (*1008*, coll. on 10.11.88 & *1086*, coll. on 19.11.88); Al-Mansoorah (*1349*, coll. on 31.12.88); Malla (*1362*, coll. on 31.12.88); Darsaad (*1421*, coll. on 4.1.89).

Merremia dissecta (Jacq.) Hall

Locality. — Khormaksar (*1021*, coll. on 11.11.88), Tarik camp (*1373*, coll. on 2.1.89).

CUCURBITACEAE

Momordica balsamina L.

Locality. — Khormaksar, Airport (*1045*, coll. on 13.11.88); Bir Ahmed (*1150*, coll. on 30.11.88); Darsaad (*1456*, coll. on 4.1.89).

CYPERACEAE

Cyperus laevigatus L.

Locality. — Grows in the sea marshes (Sabakha) at Al-Mansoorah — Caltex roundabout (*1051*, coll. on 13.11.88).

Cyperus rotundus L.

Locality. — Khormaksar, College of Education (*Boulos & Gifri 16499*, coll. in June 87), in the town (*1031*, coll. on 13.11.88); Sheikh Othman (*1113*, coll. on 29.11.88); Bir Ahmed (*1157*, coll. on 30.11.88); Maalla (*1905*, coll. on 14.3.90). Found as weed.

EUPHORBIACEAE

Euphorbia tirucalli L. (det. A. R. Smith & L. Boulos, 1989, Kew).

Locality. — Sheikh Othman (*1429*, coll. on 4.1.89).

Securinega virosa (Roxb. ex Willd.) Pax & Hoffm.

Locality. — Slope of Shamsan towards Maalla (1941, coll. on 15.3.90).

LAMINACEAE

Ocimum basilicum L.

Locality. — Aden, the cemetery (1315, coll. on 29.12.88); Al-Mansoorah (1347, coll. on 31.12.88).

Ocimum tenuiflorum L.

Locality. — Tawahi (1192, coll. on 2.12.88).

LILIACEAE

Aloe doei Lavr.

Locality. — Aden, the cemetery (1307, coll. on 29.12.88); Darsaad (1430, coll. on 4.1.89).

MALVACEAE

Abutilon pannosum (Forst. f.) Schlecht.

Locality. — Found as weed in Khormaksar, College of Education (*Boulos & Gifri 16495*, coll. in June 87); Sheikh Othman (1121, coll. on 29.11.88); Darsaad (1459, coll. on 4.1.89).

Senra incana Cav.

Locality. — Found as weed in Sheikh Othman (1119, coll. on 29.11.88); Bir Ahmed (*Boulos, Gifri & al. 16596*, coll. in June 87), (1165, coll. on 30.11.88 & 1236, coll. on 9.12.88); Darsaad (1459, coll. on 4.1.88).

MORACEAE

Ficus salicifolia Vahl

Locality: Darsaad (1403, coll. on 4.1.89).

NYCTAGINACEAE

Boerhavia coccinea (Mill.) (det. A. G. Miller, Sept. 1990, Berlin).

Locality. Abo al Wadi (1959, coll. on 17.3.90).

Commicarpus helenae (Roemer & Schultes) Meikle

Locality. — Slopes of Shamsan towards Maalla (1934, coll. on 14.3.90).

POACEAE

Arundo donax L.

Locality. — Darsaad, Al-Kamisri garden (1401, coll. on 4.1.88).

Brachiaria ovalis Stapf (det. T. A. Cope & H. Scholz, Sept. 1990, Berlin).

Locality. — Ravines of Shamsan range (*Boulos, Gifri & Awad 16565*, coll. in June 87), (2002, coll. on 28.3.90).

Brachiaria reptans (L.) Gardner & Hubbard

Locality. — Found as weed in Khormaksar, College of Education (2025, coll. on 6.4.90).

Chloris barbata Sw.

Locality. — Found as weed in Khormaksar (1090, coll. on 19.11.88 & 1861, coll. on 11.3.90); Aden, the cemetery (1319, coll. on 29.12.88); Sheikh Othman (1476, coll. on 4.1.89).

Dactyloctenium aristatum Link

Locality. — Shamsan, ravine SW of the Tower of Silence (Boulos, Gifri & Awad 16543, coll. in June 87), (1715, coll. on 14.7.89); Little Aden, ravine at J. Muzalham (1744, coll. on 28.7.89).

Dactyloctenium scindicum Boiss. (det. L. Boulos in Kuwait in 1988).

Locality. — Shamsan, ravine (Gifri, Rowaished & Hussein 3065, coll. in Feb. 1989).

Digitaria ciliaris (Retz) Koeler

Locality. — Found as weed in Bir Ahmed (1168, coll. on 30.11.88); Sheikh Othman (1477, coll. on 4.1.89).

Odysea mucronata (Forssk.) Stapf

Locality. — Desert plain near Al-fiush (1127, coll. on 30.11.88); Bir Ahmed (Boulos, Gifri & al. 16605, coll. in June 87), (1217, coll. on 9.12.88); El-Hiswa (1243, coll. on 12.12.88); Caltex — El-Hiswa (Boulos, Gifri & al. 16574, coll. in June 87), (1766, coll. on 3.8.89); Little Aden, sea shore sand beside Refinery Club (1755, coll. on 28.7.89); Amran, sand dunes (1817, coll. on 20.8.89).

Paspalidium desertorum (A. Rich.) Stapf

Locality. — Found a weed in Khormaksar, College of Education (Boulos & Gifri 16497, coll. in June 87).

Pennisetum divisum (J. F. Gmelin) Henrard (det. T. A. Cope, 1989, Kew).

Locality. — Khormaksar, near the Directory of Education (1396, coll. on 2.1.89); El-Hiswa (1252, coll. on 9.12.88); Bir Ahmed (Boulos, Gifri & al. 16610, coll. in June 87), (1212, coll. on 9.12.88); Desert plain, near Al-fiush (1128, coll. on 30.11.88), near Masabeen (1833, coll. on 26.8.89).

PORTULACACEAE

Portulaca oleracea L.

Locality. — Kormaksar (1085, coll. on 19.11.88); Bir Ahmed (Boulos, Gifri & al. 16591, coll. in June 87), (1161, coll. on 30.11.88); Darsaad (1425, coll. on 4.1.89), found as weed.

RESEDACEAE

Reseda spheocleoides Defl. (det. L. Boulos, 1989, Kuwait).

Locality. — Shamsan range (Boulos, Gifri & Awad 16535, coll. in June 87) & (Gifri, Rowaished & Hussein, coll. in Feb. 89).

RUBIACEAE

Kohautia retrorsa (Boiss.) Bremek. (det. A. G. Miller, 1990, Berlin).

Locality. — Shamsan range, ravine on the plateau (2005, coll. on 28.3.90).

SOLANACEAE

Datura innoxia Mill.

Locality. — Found as weed in Bir Ahmed (1140, coll. on 30.11.88).

Datura stramonium L.

Locality. — Found as weed in Tawahi (Steamer point) the garden (1194, coll. on 2.12.88).

Solanum coagulanus Forssk.

Locality. — Found as weed in Khormaksar, Aden International Airport (1041, coll. on 21.11.88 & 1197, coll. on 4.12.88); Bir Ahmed (1233, coll. on 9.12.88).

Solanum nigrum L.

Locality. — Found as weed in Bir Ahmed (1136, coll. on 30.11.88); Darsad, Al-Kimisri garden (1416, coll. on 4.1.89).

Solanum palmatorum Dunal. (det. F. N. Hepper, Kew, 1989).

Locality. — Found as weed in Bir Ahmed towards Al-Waht (1153, coll. on 30.11.88).

Withania somnifera (L.) Dunal

Locality. — Found as weed on Al-Shaab farm, Bir Ahmed (1138, coll. on 30.11.88).

TAMARICACEAE

Tamarix aphylla (L.) Karst.

Locality. — Desert plain, northern Aden towards Lahej (1125, coll. on 30.11.88); Bir Ahmed (1218, coll. on 9.12.88); El-Hiswa (1251, coll. on 12.12.88).

Tamarix nilotica (Ehrenb.) Bunge

Locality. — Khormaksar, College of Education (*Boulos & Gifri 16481*, coll. in June 87), (1009, coll. on 11.11.88); Tarik camp (1382, coll. on 2.1.89); Al-Mansoorah (*Boulos, Gifri & al. 16566*, coll. in June 87); Sheikh Othman, near Abdul Kawi camp (1102, coll. on 29.11.88); garden of Friendship Hospital (1485, coll. on 9.1.89); El-Hiswa (1238, coll. on 12.12.88); Aden, Al-Aqaba (1506, coll. on 17.1.89).

TYPHACEAE

Typha domingensis Pers.

Locality. — Khormaksar, near Aden Hotel; Al-Naser, beside the road to Sheikh Othman (2026, coll. on 25.4.90).

UMBELLIFERAE

Pimpinella etbaica Schweinf.

Locality. — Shamsan, ravine SW of the Tower of Silence (*Boulos, Gifri & Awad 16527*, coll. in June 87).

VITACEAE

Cissus rotundifolia (Forssk.) Vahl

Locality. — Aden, the cemetery (*1311*, coll. on 29.12.88); Darsaad (*1427*, coll. on 4.1.89).

ZYGOPHYLLACEAE

Fagonia ovalifolia Hadidi

Locality. — Bir Ahmed (*Boulos, Gifri & al. 16588*, coll. in June 87); Shamsan ravine SW of the Tower of Silence (*2017*, coll. on 28.3.90).

Fagonia paulayana Wagner & Vierh.

Locality. — Gold muhre Valley (*Boulos, Gifri & Saeed 16524*, coll. in June 87).

Fagonia schweinfurthii (Hadidi) Hadidi

Locality. — Bir Ahmed (*Boulos, Gifri & al. 16594*, coll. in June 87).

Seetzenia lanata (Willd.) Bullock

Locality. — Bir Ahmed (*1205*, coll. on 9.12.88).

Tribulus omanense H. Hosni var. **yemenense** H. Hosni (det. M. N. Hadidi, August 1989, Kew).

Locality. — Found as weed in Bir Ahmed (*Boulos, Gifri & al. 16585*, coll. in June 87); Sheikh Othman, garden of Friendship Hospital (*1110*, coll. on 29.11.88).

Zygophyllum album L. f.

Locality. — Caltex (*2023*, coll. on 6.4.90).

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