

Appendix

Alphabetical list of 76 species and infra-specific taxa from 31 genera representing the Asclepiadaceae s.l. Names of taxa and their abbreviations in Fig. 5 are in heavy bold and underlined. Collection data of the specimens examined of each taxon are presented as follows: the collector's name, collection number (if available) and locality. * = specimens kept in the herbarium of the Botany and Microbiology Department, Faculty of Science in Cairo, Al-Azhar University; all other specimens are kept in CAI.

(Arau ser) *Araujia sericifera* Brot.: C. Baenitz, 27/4/1904, Flora Istriaca: Lussinpiccolo, in Bernhoffs Garten, Peru. **(Ascl amp) *Asclepias amplexicaulis* Sm.:** David Castaner 2265, 29 May 1972, about 5.5 miles north of Warrensburg, Johnson County, Missouri, USA; Alma L. Moldenke and Harold N. Moldenke, 26 June 1974, Ocean County, New Jersey, USA. **(Ascl cur) *Asclepias curassavica* L.:** Ahmed Ali Abd El Fadeel, 2/1/1953, cultivated in Farouk's Garden in Inshas, Egypt; Vivi Täckholm, 28/10/1959, Cairo University Garden, Giza, Egypt; Vivi Täckholm and Ibrahim Elsayed, 8/1/1961, Medicinal Garden, Barrage, Egypt; Soliman Sisi, 6/4/1961, Giza, Egypt; Mohamed El Mahdi, 21/9/1963, Faculty of Agriculture Garden, Giza, Egypt; Mohamed El Mahdi, 15/10/1963, Faculty of Pharmacy garden, Boulaq Dakrou, Giza, Egypt; Nabil El Hadidy, 26/8/1967, Canal bank at Maamoura, Alexandria; Adel El-Gazzar, 3/May/1975, Botanic Garden, Faculty of Science, Alexandria University, Moharram Bey, Alexandria, Egypt; Alma L. Moldenke and Harold N. Moldenke 29840, 19/May/1975, Bostwick, Putnam County, Florida, USA; Ramadan, 26/10/1976, Zamalek at the Nile, Egypt; Lotfy Boulos 16190, 28 September 1986, Agricultural Research Station at Omariya, Kuwait City. **(Ascl phi) *Asclepias phillipsiae* N.E. Br.:** M. Kassas, M.D. El Khalifa and M.O. Mobarak 571, 18/12/1965, Toratong, Gebel Marra, Sudan. **(Ascl syr) *Asclepias syriaca* L.:** Vivi Täckholm, 28/10/1959, Cairo University garden, Giza, Egypt. **(Ascl tub) *Asclepias tuberosa* L.:** Alma L. Moldenke and Harold N. Moldenke 28611, 28/June/1974, Tabernacle, Burlington County, New Jersey, USA. **(Ascl ver) *Asclepias verticillata* L.:** Andrew R. Moldenke and Harold N. Moldenke 27721, 14/August/1973, Sanders, Apache County,

Arizona, USA. **(Blyt spi) *Blyttia spiralis* (Forssk.) D.V.Field & J.R.I.Wood:** Gunnar Täckholm, 21/1/1929, at the Red Sea Coast, about 3 km N. of Mersa Halaib, Egypt; Gunnar Täckholm, 22/1/1929, in the Wadies W. of Mersa Halaib, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M.A. Zahran, 31/1/1962, old water reservoir at Suakin El Qadem, Expedition to the Gebel Elba district, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M.A. Zahran, 7/2/1962, mouth of wadi Serimtai, Expedition to the Gebel Elba district, Egypt. **(Calo pro) *Calotropis procera* (Aiton) Aiton:** Dr. M. Helmy, 14/4/1927, Kharga Oasis, Egypt; Gunnar Täckholm, 16/1/1928, Kharga Oasis, Near the town, Egypt; Nabil El Hadidy, Spring/1955, in the garden of Medicinal plants at Barrage, Egypt; Mostafa Imam, 11/9/1956, Suez Road, Egypt; Sami and William, 6/11/1959, along Suez Road, Egypt; M. Imam, 6/2/1959, Kharga Oasis, Boulaq, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W.A. Girgis and M.A. Zahran, 27/9/1960, Cairo-Suez Road on kilo 68-69 from Cairo, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W.A. Girgis and M.A. Zahran, 27/9/1960, Cairo-Ismailia Road, in the beginning near Suez, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W.A. Girgis and M.A. Zahran, 14/10/1960, Wadi Foll at the Suez Road, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W.A. Girgis and M.A. Zahran, 30/12/1960, Cairo-Suez Road Wadi El Forn, Egypt; Vivi Täckholm, and Ibrahim Elsayed, 8/1/1961, Medicinal Garden, Barrage, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W.A. Girgis and M.A. Zahran, 28/2/1961, Wadi el Gafra on Cairo-Suez Road, Egypt; S.I. Ghallow, 3/3/1961, Cairo-Suez Road, km 90, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M.A. Zahran 397, 23/1/1962, Wadi Saremtai, Expedition to the Gebel Elba district, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M.A. Zahran 1048, 28/1/1969, upstream part of Wadi Mawaw across Gebel Asotriba, Expedition to the Gebel Elba district, Egypt; Vivi Täckholm, 18/3/1966, Cairo-Suez Road at kilo 70 from Cairo, Egypt; Dale J. Osborn and Ibrahim Helmy, 21/10/1966, Bahariya Oasis, North edge of Mandisha sand dunes, Egypt; Dale J. Osborn and Ibrahim Helmy, 2/12/1966, El Maharik 17 miles NE of Kharga, Egypt; Dale J. Osborn and Ibrahim Helmy, 5/5/1969, El Alamona, North of Dakhla Oasis, Egypt; M. Imam, 15/9/1971, Baharia Oasis, El-Kasr, Ain Maroun, Egypt; Hadidy *et al.*, 20/4/1976, Cairo-

Suez desert road, Egypt; Monier Abd El Ghani 65, 28/2/1978, Governmental Farm, Outside Farmland, Bahariya Oasis, Western Desert, Egypt; Monier Abd El Ghani 491, 17/7/1978, Bawiti, Ain Miftilla, Bahariya Oasis, Western Desert, Egypt; A. El Bakry 3165, 14/9/1981, Cairo-Ismailia desert road 10 km of Cairo, Egypt; L.M. Hassan 270, 15/3/1982, beginning of Idfu-Mersa Alam Road at 6 km, Egypt; Alaa El-Kady*, 8/3/2016, At Biotechnology and Fermentation Research Center Garden, Al-Azhar University, Nasr City, Cairo, Egypt; Alaa El-Kady*, 29/2/2016, in front of Faculty of Pharmacy, Al-Azhar University, Nasr City, Cairo, Egypt; Alaa El-Kady*, 22/4/2016, Ain Badr, Al-Harrah, Bahryia Oasis, Egypt; Alaa El-Kady*, 28/4/2016, Wadi Feran, Saint Catherine, south Sinai, Egypt. **(Cara edu) *Caralluma edulis* (Edgew.) Benth. ex Hook. f.**: M.Kassas, M.O. Mobarak and Hamad A. Omar 922, 21/12/1966, Bakiyai Islands (Aqiq), Red Sea, Sudan. **(Cara ret) *Caralluma retrospiciens* (Ehrenb.) N.E.Br.**: Gunnar Täckholm, 23-27/January/1929, Gebel Elba, in the S. E. Corner of Egypt; M. Hassib, 18-25/1/1930, Gebel Elba, in the S. E. Corner of Egypt; M. Hassib, 1930, Gebel Elba, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M.A. Zahran 942, 28/1/1962, Wadi Mawaw, Expedition to the Gebel Elba district, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 21/1/1962, Wadi Aideib, Expedition to the Gebel Elba district, Egypt. **(Cara sin) *Caralluma sinaica* (Decne.) A. Berger**: A. Khattab and J.R. Shabetai F4648, 19/4/1945, Elmethnah, El Tayef, Hedjaz, Saudi Arabia. **(Cryp gra) *Cryptostegia grandiflora* Roxb. ex R.Br.**: Lotfy Boulos, July 1952, in front of Faculty of Agriculture, Giza, Egypt; Vivi Täckholm, 28/10/1959, University Garden, Giza, Egypt; Vivi Täckholm and Ibrahim Elsayed, 8/1/1961, Barrage Medicinal Garden, Egypt; Mohamed El Mahdi, 17/7/1963, Orman Garden, Giza, Egypt; Mohamed El Mahdi, 22/5/1965, Cairo University Garden, Giza, Egypt; Mohamed El Mahdi, 24/10/1965, Plant Island, Assuan, Egypt; Mohamed El Mahdi, 21/5/1968, Barrage, Medicinal Garden, Egypt; Mohamed El Mahdi, 27/8/1973, Cairo University Garden, Giza, Egypt; Adel El-Gazzar, 13/7/1976, Zaafaran Palace garden, Ain Shams University, Abbassia, Cairo, Egypt. **(Crypobl) *Cryptolepis oblongifolia* (Meisn.) Schltr.**: J. Lewalle, 30/4/1967, Bujumbura, Kabezi, Burundi. **(Cyna acu) *Cynanchum acutum* L.**: Evert Hartmann, 19/9/1910, Ghizeh near Cairo, Egypt; Prof. G. Runkewitz, 25/11/1934, Luxor, Egypt; A. Khattab & J.R. Shabetai K190, 16/2/1944, Djedda, El-Leith, Hedjaz, Saudi Arabia; Nabil El Hadidy, 28/8/1952, Faculty of Agriculture Farm, Alexandria University, Egypt; Nabil El Hadidy, Jan./1953, Kom Aushim, near Faiyum, Egypt; Vivi Täckholm, 21/9/1959, Kom Aushim, Faiyum, Egypt; Loutfy Boulos, 15/7/1960, Kom Aushim, Faiyum, Egypt; M.A. Zahran and Boulos, 27/12/1969, Siwa Oasis, Egypt; Alaa Amer 11904, 16/7/1987, Behiera Province Rosetta, Egypt; Alaa Amer 13742, 19/9/1987, Behiera Province Rosetta, Egypt; Ramadan Bedair, 3/2014, Bahi El-Dien, Siwa Oasis, Egypt; Ramadan Bedair, 10/2014, Nejden, Siwa Oasis, Egypt; Alaa El-Kady*, 8/3/2016, beside Faculty of Agriculture, Al-Azhar university, Nasr City, Cairo, Egypt; Alaa El-Kady*, 21/4/2016, Ain Badr, Al-Harrah, Bahryia Oasis, Egypt; Alaa El-Kady*, 29/4/2016, Wadi El-Arbaeen, Saint Catherine, south Sinai, Egypt. **(Cyna fru) *Cynanchum fruticosum* Decne.**: A. Khattab and J.R. Shabetai, 16/2/1944, Djedda, El Leith, Hedjaz, Saudi Arabia; A. Khattab 1109, 13/1/1945, Mecca, Arafat, mount of Wadi No'man, Hedjaz, Saudi Arabia. **(Cyna lax) *Cynanchum laxum* Bartl.**: Jos. Ullepitsch, June/1891, Zips, Wien, Austria. **(Cyna mos) *Cynanchum mossambicense* K. Schum.**: *s.n.*, no date, Mozambique. **(Cyna sch) *Cynanchum schistoglossum* Schltr.**: *s.n.* 1524, 25/Janvier/1967, Plaine de la Rusizi, Bujumbura, Burundi. **(Cyna vim) *Cynanchum viminalle* (L.) L.**: Mohamed Drar, 10/4/1938, Bahr El Ghazal, Way Goba to Yei, Sudan; M. Kassas, 8/1/1956, Khor Alent, Hill Side, Red Sea Hills, Sudan; M. Kassas, M.D. El Khalifa and M. O. Mobarak, 22/12/1965, Sunni, Sudan; M. Kassas, M.D. El Khalifa and M.O. Mobarak, 23/12/1965, Gebel Marra, Sudan; M. Kassas, M.O. Mobarak and Hamad A. Omar, 6/12/1966, Erkuit, Sudan; M. Kassas, M.O. Mobarak, B. Fadlallah, H.A. Omar and M. Osman, 27/12/1967, Ingassana-Eurmuk, Sudan. **(Dreg aby) *Dregea abyssinica* (Hochst.) K. Schum.**: Mohamed Drar, 13/5/1938, Kurana, Gebl Marra, Darfur, Sudan; A. Khattab and J.R. Shabetai, 25/3/1944, Wadi Seham, Obal, Yemen; Refaat B. Salama and Staff, December/1970, Gebl El Nuba area, Sudan. **(Dreg sch) *Dregea schimperii* (Decne.) Bullock**: M. Kassas, M.O. Mobarak and Hamad A. Omar, 6/12/1966, Erkuit, Sudan. **(Geni lau) *Genianthus laurifolius* (Roxb.) Hook. f.**: Shocks Law, No Date. **(Geni**

- mac)** *Genianthus macrophyllus* (Blume) Boerl.: Dr. G. Kjellberg, 1929, no locality. (**Glos bov)** *Glossonema boveanum* (Decne.) Decne.: Riad El Halwagy, 1959, Desert near Omdurman, Sudan; Kadry and Collaborators, 1961, Arabia; Kadry and Khodeir, Spring/1962, Arabia, Kharj Road. (**Glos nub)** *Glossonema boveanum* subsp. *nubicum* (Decne.) Bullock: M. Hassib, 13/1/1930, Bir Abraa, Western Desert, Egypt; M. Hassib, 1/2/1933, Gebel Elba, Egypt; M. Hassib, 19/1/1933, Gebel Elba, Egypt; M. Kassas, 24/8/1954, J. Qunan Fattasha, Sudan; M. Kassas, 31/7/1954, Fattasha, Sudan; Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 7/2/1961, Gebl Hamata, Red Sea Coast; Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 11/2/1961, Gebl Um Gurdi, Red Sea, Egypt; Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 12/2/1961, Wadi El Faraied, Red Sea Coast, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 24/1/1962, El-Aaw hill, Expedition to the Gebel Elba district, Egypt; Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 24/1/1962, Wadi Shallal, Expedition to the Gebel Elba district, Egypt. (**Glos lin)** *Glossonema lineare* (Fenzl) Decne.: Kanar Obeid, 28/9/1967, from J. Geili to Abu Zellig, Sudan. (**Glos var)** *Glossonema varians* (Stocks) Benth. ex Hook.f.: Loutfy Boulos, 2/April/1977, Al Kharrarah and the area 5 km away towards the northeast, Miocene, Qatar; K.H. Batanoney, 18/1/1978, Qatar; K.H. Batanoney, 30/11/1978, Karaanah, Qatar. (**Gomp fru)** *Gomphocarpus fruticosus* (L.) W.T. Aiton: Vivian Holmén, 10/5/1965, cultivated in a garden, El Maadi, Egypt; Christina Brydolf, 13/2/1967, Thosy-Sakahara, S.W. Madagascar. (**Gomp sin)** *Gomphocarpus sinaicis* Boiss.: Alaa El-Kady*, 29/4/2016, Wadi El-Arbaeen, Saint Catherine, south Sinai, Egypt; Alaa El-Kady*, 29/4/2016, Hamatet Ebada, Saint Catherine, south Sinai, Egypt; Alaa El-Kady, 29/4/2016, Shak El-Gerageniah, Saint Catherine, south Sinai, Egypt; Alaa El-Kady*, 30/4/2016, Wadi Faraah, Saint Catherine, south Sinai, Egypt; Alaa El-Kady*, 30/4/2016, Shak Musa, Saint Catherine, south Sinai, Egypt; Alaa El-Kady*, 1/5/2016, Gebel Musa, Saint Catherine, south Sinai, Egypt. (**Gymn syl)** *Gymnema sylvestre* (Retz.) R.Br.: M. Kassas 85, 7/12/1965, Nyala, Darfur, Sudan; M. Kassas, M. O. Mobarak and Hamad A. Omar 1047, 25/12/1966, Jebel Dambobei-Karora, Sudan; J. Lewalle 1898, 30/4/1967, Kabezi, Bujumbura, Burundi; (**Hoya car)** *Hoya carnososa* (L.f.) R.Br.: L. Zoleran, IV/1911, Süd China; Mervet Abdel Rihim, No date, Orman Garden, Egypt. (**Huer mac)** *Huernia macrocarpa* N.E.Br.: M. Kassas 256, 21/12/1953, Erkuut, Sudan; M. Kassas, 8/4/1954, Jebel Nafi, Erkuut, Sudan; M. Kassas, 10/1/1956, Red Sea Hills, Sudan; M. Kassas, M. O. Mobarak and Hamad A. Omar 253, 8/12/1966, Jebel Erbab, Erkuut, Sudan; Rifaat B. Salama and Staff, December/1970, Gebel El Nuba area (Diling, Kadugli, Hiban & Rashad), Sudan; Mrs. S.A. Robertson 1518, 16/5/1971, Kajiado Dist., on circular route to west of Ngong Hills, Kenya. (**Kana lan)** *Kanahia laniflora* (Forssk.) R.Br.: Mohamed Drar, 25/2/1938, Khartoum at the Blue Nile, Sudan. M. Kassas 544, 15/7/1954, Nile Bank, Khartoum, Sudan; M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 28/12/1967, Kurmuk, Sudan. (**Lept arb)** *Leptadenia arborea* (Forssk.) Schweinf.: Mohamed Drar, 14/3/1938, El Gash, Kassala, Sudan. Mohamed Drar, 19/3/1938, Umm Gaili, Sennar, Sudan; Mohamed Drar, 15/5/1938, Kabbeh, Gebl Marra, Sudan; M. Kassas, 10/8/1953, Enclosure in Khartoum, Sudan; M. Kassas, 15/1/1954, Khor Shuliat-Karai Hills, Sudan; Riad El-Halwagy, 1959, Desert N. E. of Kurmuk, Sudan; Samir I. Ghabbour, 7/4/1967, Dongola, Sudan. M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 7/12/1967, J. Avitola-K. Tagando, Sudan; M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 28/12/1967, Kurmuk, Sudan. (**Lept lan)** *Leptadenia lancifolia* (Schumach. & Thonn.) Decne.: Mohamed Drar, 5/3/1938, Erkuut, Red Sea, Sudan. Mohamed Drar, 4/5/1938, Way Obaid to Nohoud, Kordofan, Sudan. Mohamed Drar, 28/4/1938, Tunga, Gebl Leir, Kordofan, Sudan; M. Kassas, 5/2/1954, Omdurman-Obeid Road, Sudan; M. Kassas, 6/2/1954, Merikueat, Sudan. Riad Halwagy, 1-3/Sept. /1960, Nile Island near Khartoum, Sudan. M. Kassas, M. D. El Khalifa and M. O. Mobarak, 25/12/1965, Fasher, Darfur, Sudan. M. Kassas, M. O. Mobarak and Hamad A. Omar, 25/12/1966, Jebel Dambobei-Karora, Sudan. (**Lept pyr)** *Leptadenia pyrotechnica* (Forssk.) Decne.: M. Hassib, 11/1/1930, Wadi Kharit. J. R. Shabetai and A. Khattab, 4/7/1932, Wadi Habib. Vivi Täckholm, 25/4/1958, Wadi Aber of Gebl Ataqa, Suez, Egypt. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 3/9/1960, 75 km. E. of Qena, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 21/1/1962, El-Aawayed

Hill, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 8/2/1962, Wadi Aideib, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, W. A. Girgis and M. A. Zahran, 5/2/1964, Kom Ombo desert: Wadi Natash, Expedition to Nubia of the Nile, Egypt. Dale J. Osborn and Ibrahim Helmy, 11/2/1967, Wadi Hodein, Gebel Elba, Egypt. Dale J. Osborn and Ibrahim Helmy, 7/3/1967, Wadi Gemal, Red Sea Coast, Egypt. Kamal Zahran, Sept. /1968, Thall, W., Pakistan. Hadidi *et al.*, 20/4/1976, Cairo-Suez desert Road, Egypt. A. El Bakry, 18/4/1980, Suez-Sokhna desert Road, 43 km. S. of Suez, Egypt. M. N. El Hadidi *et al.*, 17/8/1982, Wadi Madsose, Sinai, Egypt. S. M. El Naggar, 22/5/1998, Wadi Khuda. (**Mars flo**) **Marsdenia floribunda (Brongn.) Schltr.**: Mohamed El Mahdi, 12/12/1964, Agricultural Museum Garden, Dokki, Giza, Egypt. Ezz el Din, 5/7/1969, Zohria garden, Gezira, Egypt. (**Oxys bor**) **Oxystelma bornouense R.Br.**: M. Kassas, December/1953, Khartoum Province, Sudan. (**Oxys esc**) **Oxystelma esculentum var. alpini (Decne.) N.E. Br.**: Lotfy Boulos, 28/9/1953, Beni-Suef Station, Egypt. Lotfy Boulos, 28/9/1953, Beni-Suef Station, On Ibrahimia Eastern Bank, Egypt. Lotfy Boulos, 17/10/1956, on E. Nile Bank, Egypt. Bror Pettersson and Teuvo Ahti, 19/10/1962, Nile Delta, Prov. Giza, SE tip of the Island Gueziera, along Mountaza Street, along the Shore of the Nile, Egypt. Lotfy Boulos, 20/11/1963, Plant Island, Aswan, Egypt. Lotfy Boulos, 20/11/1963, Wadi Nile, Near Aga Khan Tomb, Aswan, Egypt. Abd El Sabur, J. Kohwra and J. Chlack, 18/4/1967, Nabatat Garden, Aswan. (**Pach exi**) **Pachycarpus eximius (Schltr.) Bullock**: Ouplicafe, 21/11/1966. Herbar J. Lewalle, 21/Nov./1966, Burundi, Bujumbura, the de Nyanza Lac. (**Pent ins**) **Pentarrhinum insipidum E. Mey.**: Mohammed Drar, 11/5/1938, Wadi Saria, Gebel Marra, , Darfur, Sudan. (**Perg dae**) **Pergularia daemia (Forssk.) Chiov.**: Gunnar Täckholm, 23-27/January/1929, wadi Kansisrob, Gebel Elba, in the S. E. Corner of Egypt. Dr. I. R. Fahmy and M. Hassib, 14/January-27/Feb./1933, Gebel Elba, in the S. E. Corner of Egypt. Lotfy Boulos, 24/October/1956, Wadi Kansisrob, G. Elba, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 22/1/1962, Wadi Aiderb, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 24/1/1962, Gorge across the North-East Slope of

Gebel Elba, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 27/1/1962, Wadi Oolak, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 28/1/1962, North-West and west Slope of Gebel Asortiba, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 3/2/1962, Bir Kansisrob, Expedition to the Gebel Elba district, Egypt. M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 28/22/1967, Kurmuk, Sudan. Nabil, Ibrahim, Sisi and Abdel Aziz, 29/6/1973, Cairo-Suez Road, Egypt. (**Perg tom**) **Pergularia tomentosa L.**: Lotfy Boulos, 3/10/1952, Wadi Digla, Egypt. Fikry Ibrahim Francis, 20/10/1952, Wadi Hof, Egypt. Nabil, 25/1/1956, Suez desert Road, K. 34, Egypt. Vivi Täckholm, 9/2/1956, W. Qiseib, N. Galala. Amal Amin and Sami Kenawi, 13/2/1956, Wadi Bukheit. Mostafa Imam, 11/9/1956, Suez Road, Egypt. Botany Dept. Excursion, 2/12/1956, Gebel Ahmar. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 4/2/1960, Wadi Araba (between the two Galalas). Vivi Täckholm, M. Kassas, M. Samy, W. A. Gigis and M. A. Zahran, 6/2/1960, Cretaceous foot hills of S. Galala. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 29/2/1960, Wadi Garawi, Helwan Desert, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 22/1/1962, Khor wadi Siamtit, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 27/1/1962, Wadi Oolak, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 27/1/1962, upstream part of wadi Sarimtai, Expedition to the Gebel Elba district, Egypt. Dale J. Osborn and Ibrahim Helmy, 29/3/1966, Wadi Dehmit, Bir Umm Hibal, Nubia. S. Soliman, No date, wadi Liblh. (**Peri aph**) **Periploca aphylla Decne. subsp. aphylla**: Ahmed Khattab and J. R. Shabetai, 11/2/1945, El Madinih, Abar Ali and El Freish, Saudi Arabia. Ahmed Khattab and J. R. Shabetai, 22/5/1945, Gebal El Hoda, El Tayef, Hedjaz, Saudi Arabia. A. M. Migahid and Ali El Qasim, Spring/1970, El Mansouryeh. A. M. Migahid and Ali El Qasim, Spring /1970, Gebal Toweriq. Yousif Al-Sewaidi, 5/3/1972, Salbok High-Way. Prof. Dr. A. M. Migahid, 16/2/1973, El-Dereieh and Hanifa Valley, Saudi Arabia. Prof. Dr. A. M. Migahid, 22/2/1974, Hanifa

- Valley. Prof. Dr. A. M. Migahid and M. Sabry Elsayed, 21/3/1975, HaaValley, Saudi-Arabia. A. M. Migahid, 10/3/1976, HaaValley, Riyad area, Saudi-Arabia. (**Peri aph**) *Periploca aphylla* Decne. subsp. *laxiflora* Browicz: Gunnar Täckholm, 23-27/January/1929, Gebel Elba, in the S. E. Corner of Egypt. M. Hassib, 18-25/1930, Gebel Elba, in the S. E. Corner of Egypt. I.R. Fahmy and M. Hassib, 17/1/1933, Gebel Elba, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 22/1/1962, Khor Wadi Yahameib, Expedition to the Gebel Elba district, Egypt. Vivi Täckholm, M. Kassas, H. Fawzy, F. Shalaby, M. Samy and M. A. Zahran, 7/2/1962, Gebel Karma, Elba, Expedition to the Gebel Elba district, Egypt. K. H. Batanony, 9/3/1978, El Fareesh, Hedjaz. (**Peri gra**) *Periploca graeca* L.: C. Baenitz, 20/6/1911, Silesiaca: Bresian: Scheitinger Park. Adel El Gazzar, 8/8/1975, Öland, Sweden. (**Peri lae**) *Periploca laevigata* Aiton: Abdel Aziz Hashem, October/1962, Rabat, Jardin J. D. C., Morocco. Lotfy boulos, 19/1/1967, Wadi El-Teir, Gebel Akhder, c. 24 km. wadi Derna, along Coastal Road to Susa, Libya. Lotfy boulos, 31/3/1970, Wadi Derna, Libya. (**Peri ang**) *Periploca laevigata* subsp. *angustifolia* (Labill.) Markgr.: M. Abdel Aleem, 23/4/2005, Wadi Knuda, Sallum area, Egypt. M. Abdel Aleem, 22/4/2006, Sallum-Barani Road, Egypt. M. Abdel Aleem, 22/4/2006, 20 km. before Sallum, Egypt. (**Peri lin**) *Periploca linearifolia* Quart.-Dill. & A. Rich.: Herbier J. Lewalle, 19/Juin/1971, Muramvya, Bukeye Mt Teza. (**Perv tom**) *Pervillaea tomentosa* Decne.: Karl Afzelius, 30/3/1912, Majeuga. (**Pleu sch**) *Pleurostelma schimperi* (Vatke) Liède: Mohamed Drar, 3/8/1938, Sinkat, Red Sea Hills, Sudan. M. Kassas, 22/12/1953, Suikat, Erkuik Plain, Sudan. M. Kassas, 24/12/1954, Khor Abent-Suakin, Sudan. M. Kassas, 7/1/1956, Khor Abent (Jebel Slope) Red Sea Hills, Sudan. M. Kassas, M. O. Mobarak and Hamad A. Omar, 5/12/1966, Sinkat, Erkuik, Sudan. M. Kassas, M. O. Mobarak and Hamad A. Omar, 7/12/1966, Erkuik, Sudan. M. Kassas, M. O. Mobarak and Hamad A. Omar, 8/12/1966, Erkuik (Khem Amat) Sudan. M. Kassas, M. O. Mobarak and Hamad A. Omar, 23/12/1966, Jebal wad Noboo, Red Sea, Sudan. (**Seca afr**) *Secamone africana* (Oliv.) Bullock: R. B. Drummond and J. H. Hemsely, 28/9/1953, West Bugwe Forest Reserve, Busia-Bugiri Road, Busoga District. (**Seca afz**) *Secamone afzelii* (Roem. & Schult.) K. Schum.: G. Zenker, 1913, Bipinde, Urwaldgebiet, Kamerun. F. A. Melville and T. Hooker, 15/Aug./1958, Kortright-Klasy Breek, footpath downhill, Scrambling over 10 ft. (**Seca alp**) *Secamone alpini* Schult.: J. B. Kelleet, 3/12/1952. (**Seca ell**) *Secamone elliptica* R. Br.: H. A. Longman, 1911, Aurtral. Oot, 5/ Jun./1927, Kaw Somani, Kenwensi. (**Seca min**) *Secamone elliptica* subsp. *minutiflora* (Woodson) Klack.: Albert N. Steward and H. C. Cheo, 17/7/1933, Valley on Rocks, China. (**Seca eme**) *Secamone emetica* (Retz.) R. Br. ex Schult.: C. S. Venkatesh, 11/June/1944, Yeswantakur, Bangalore. (**Seca fru**) *Secamone frutescens* (E. Mey.) Decne.: R. O. Strey, 27/1/1967, Dukuduka. (**Sec ager**) *Secamone gerrardii* Harv. ex Benth.: R. H. Comptow, 21/10/1958, Swaziland. (**Seca myr**) *Secamone myriantha* K. Schum.: Zenker, No Date, Yanunde, Urwaldgebiet, Kamerun. (**Seca par**) *Secamone parvifolia* Bullock: A. D. J. Meeuse, 18/10/1957, Transvaal. P. K. Rwaburindore, 16/ March/1999, Buhweju Country, Bushenyi. (Ankol) District, Rugongo. (**Seca ret**) *Secamone retusa* N.E. Br.: H. G., 1940. (**Seca urd**) *Secamone urdanetensis* Elmer: A. D. E. Elmer, August /1912, Island of Mindanao, Philippine. (**Seca zam**) *Secamone zambesiaca* Schltr.: N. C. Chase, 20/12/1947, Umvumvumu R., Salisbury. (**Sole arg**) *Solenostemma argel* (Delile) Hayne: G. H. Runkewitz, 15/12/1936, Bir Umm Deffa, near G. Schavib.A. Khattab, 17/2/1945, Bir Owa Wady el Akik Madiera.A. Khattab, 17/2/1945, El Madinah, Between Ebiar Ali and Orwa well. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 10/2/1960, Bir Umm Dalfa of Gebl Shayeb, near Hurghada, Egypt. Vivi Täckholm, M. Kassas, M. Samy, W. A. Gigis and M. A. Zahran, 19/2/1960, Wadi Umm Sidr, Hurghada District, Egypt. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 10/2/1961, 196 km. E. of Edfu, Egypt. Vivi Täckholm, M. Kassas, M. Samy, W. A. Girgis and M. A. Zahran, 14/2/1961, Bir Umm Dalfa near Hurghada, Red Sea Coast, Egypt. Vivi Täckholm, M. Kassas, W. A. Girgis and M. A. Zahran, 21/1/1963, wadi at the feet of Gebel Muqsim, Expedition to Nubia east of the Nile, Egypt. M. A. Zahran, W. A. Girgis, 23/10/1963, Edfu-Mersa Alam Road. Ibrahim El Garf, 26/4/1995, Slopes of Gebel El Shayeb. A. Hegazy, M. Soliman and A. El Khateeb, March/2006, Gebel El Dokhan. (**Sole ole**) *Solenostemma oleifolium* (Neck.) Bullock & E.A. Bruce: D. Podlech, 17/3/1980, Wilaya Ouargla, Tassili N.

Ajjer, 10km. W Djanet an der Piste nach Fort Gardel (Zaouatallaz), Algerien. D. Podlech, 22/3/1980, Wilaya Tamanrasset, Hoggarmassif, 28 km. W Hirafok an der Piste nach Amguel, Algerien. D. Podlech, 26/3/1980, Wilaya Tamanrasset: 7 km. N Djanet in Sekket an der Strasse von Tamanrasset nach Ain Salah, Algerien. M. N. El Hadidi *et al*, 8/5/1982, Sant Kathrina, Sinai, Egypt. M. N. El Hadidi *et al*, 18/8/1982, Sharm El Sheik, Wadi Malg, Sinai, Egypt. **(Stre juv)** *Streptocaulon juvenas* (Lour.) Merr.: J. W. Helfer, 1937. **(Taca ven)** *Tacazzea venosa* Decne.: M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 19/12/1967, Doka-Gallabat, Sudan. M. Kassas, M. O. Mobarak, B. Fadlallah, H. A. Omar and M. Osman, 21/12/1967, Doka-Gallabat, Sudan. **(Toxo kle)** *Toxocarpus kleinii* Wight & Arn.: No data. **(Toxo mer)** *Toxocarpus merrillii* Schltr.: No Name, June-July/1917, Philippine. **(Toxo sor)** *Toxocarpus sorsogonensis* Elmer: No Name, September/1916, Island of Luzon, Philippine. **(Toxo vil)** *Toxocarpus villosus*

(Blume) Decne.: Dr. A. F. G. Kerr, 18/Dec./1924, Tameen. **(Toxo wig)** *Toxocarpus wightianus* Hook. & Arn.: Fourth Hainan Expedition of Sun Yatsen University, 2/sept./1933, Hainan. Shiu Ying Hu, 10/July/1970, Shek Kong, Hong Kong. **(Vinc hir)** *Vincetoxicum hirsutinaria* Medik.: Carl Johan, 20/6/1918. Hildesheiru, Mai/1925, Hirundinariae; Larissa Kooock, 2/8/1930, Stenig Backe, Vedavåg, Sweden; H. J. Hylander, 2/7/1935. Torvard Laurent, 17/8/1943, Hornsjon, Öland, Sweden. Loutfy Boulos, 10/8/1958, Ramsholmen, Trosa Archipelago, Sweden. No Name, 6/6/1968, Hungary, Zebegny. Elsa Johansson, No Date, Sweden. David J. Goyder and Stephen L. Jury, 1/Aug./1982, Spain. D. J. N. Hind, 21/June/1983, Italy. **(Vinc nig)** *Vincetoxicum nigrum* (L.) Moench: F.V. Ranzoni, 28/May/1962, at edge of angiosperm woods at Vassar College, New York, USA; A. Raimundo et J.A. Guerra 5060, 22/7/1960, Alto Alentejo, Sierra d'Casa, Spain; J. C. Ledoux, 16/4/1974, France.