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1907.—Vierhapper, F. (Prof.).—Beiträge zur Kenntniss der Flora von Südarabien, Sokotra, Semha und Abd el Kari, Akad. d. Wiss. (1907) 17 pl.

1907.—Watt, G.—The wild and cultivated Cotton Plants of the world. London, 1907.

1907.—Weber, O.—Forschungsreisen in Südarabien bis zum Auftreten Ed. Glasers. Leipzig, 1907.

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Leone Caetani Principe di Teano.—Studi di Storia orientale. vol. I. Islam e cristianesimo. L'Arabia preislamica. Gli Arabi antichi, XV+419. Milano, 1911.

Musil, A.—Arabia Petraea. 3 vols. 1907-8.

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Bury, G. W.—Arabia Infelix or the Turks in Yamen. London, 1915. (Contains an interesting chapter on crops and climate).

1911.—**Dinsmore, J. E. und G. Dalman.**—Die Pflanzen Palästinas, auf Grund eigener Sammlung u. der Flora Posts u. Boissiers. Mit Beigabe der arabischen Namen von G. Dalman. Zeitschr. d. Deutschen Palästina-ver. 34 (1911) 1-38, 185-241.

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Crossland, C.—Desert and Water Gardens of the Red Sea. Being an account of the Natives and the Shore-formations of the Coast. London, 1913.

1913.—**Schmidt, W.**—Das südwestliche Arabien. 2 Karten u. 13 Tabellen. Frankfurt, 1913.

1915.—**Shakespear, William Henry.**—He joined the Indian Army in 1898 and entered the political service in 1903. Was political agent at Koweit. Here he made a collection of plants which are at the British Museum. He was killed in the course of tribal fighting in 1915.

1917.—**Philby, H. St. J. B.**—The Heart of Arabia, 1922. Contains a list of plants.

1922.—**Kaiser, A.**—Swiss explorer of Arbon.

Kaiser, A.—Die Sinaiwüste. Mitteilungen der Thurgauischen Naturforschenden Gesellschaft, Frauenfeld 1922.

1923.—**Buxton, P. A.**—Animal life in Deserts. London, 1923. (Plants are also considered).

1923.—**Cheesman, R. E. (Major).**—In the Political Department. Travelled in E. Arabia. His writings contain botanical notes.

Cheesman, R. E.—From Oqair to the Ruins of Salwa. Geogr. Journ. 1923, Nov.

Cheesman, R. E.—The Deserts of Jafura and Jabrin. Geogr. Journ. 1925, Feb.

Cheesman, R. E.—In unknown Arabia. London, 1926. Contains a small list of plants, named by R. D'O. Good and C. Norman.

1923.—Moritz, B.—Arabien. Studien zur physikalischen und historischen Geographie des Landes. Hannover, 1923.

1925.—Fernandez, Joseph.—Formerly employed in the Agricultural Directorate, Baghdad, joined G. M. Lees' expedition to Oman in South-Eastern Arabia in 1925-26. Fernandez collected along the coast from Maskat to Sohar and inland for about 40 miles. Before leaving Arabia he gathered plants on Bahrein Island in the Persian Gulf. His collection amounts to about 3,000 specimens, one of the largest ever made in Arabia. The plants are accompanied by an extensive and detailed journal. Both are at present in the Herbarium Blatter but the plants have not been worked out as yet. The journey has been described in detail in the following publications.

Lees, G. M.—The physical geography of South-Eastern Arabia. Geogr. Journal LXXI, No. 5 (1928).

Lees, G. M.—The geology and Tectonics of Oman and of parts of South-Eastern Arabia. Quart. Journ. Geol. Soc. LXXXIV pt. 4 (1928) 585-670, plates XLI-LI.

Eccles, G. J.—The Sultanate of Muscat and Oman. Journ. Centr. Asian Soc. XIV, pt. I (1927) 19.

1925.—Fox, H. Munro.—The Biology of the Suez Canal. In Nature 115 (1925) 262.

1926.—Stocker, Otto.—Die Aegyptisch-Arabische Wüste. In "Vegetationsbilder" herausgegeben von G. Karsten u. H. Schenck. 17 Reihe, Heft 5 6. Jena, 1926.

1926.—Thomas, Bertram S.—Financial Minister to the Sultan of Maskat. Did a good deal of travelling in S. Eastern Arabia : in 1926 between Maskat and Sharja on the Pirate Coast, 1928 from Suwaik westwards along the S. coast to Dhofar and lastly, (1930-31) from Dhofar across the Roba el Khali to Dohah in the Katar Peninsula on the Persian Gulf. His natural history collections await working out. In the meantime we must be satisfied with what he mentions in his descriptions.

Thomas, B. S.—Alarms and Excursions in Arabia. An account of his great journey against the Great Desert of South Arabia.

With a preface by Sir A. T. Wilson. With photograph and maps.

1926.—Wilson, A. T.—A summary of Scientific Research in the Persian Gulf. Journal Bombay Natural History Society XXXI (1926) 638.

1927.—In July of 1927 the Hebrew University of Jerusalem sent an expedition to Sinai under the guidance of F. S. Bodenheimer. The chief aim of the expedition was to inquire into the origin of the *Tamarix-manna*. In 1929 the results were published under the title: *Ergebnisse der Sinai-Expedition 1927*, edited by F. S. Bodenheimer and O. Theodor. It contains the following papers.

Bodenheimer und Theodor.—Reisebericht. (p. 1-19).

Bodenheimer und Theodor.—Allgemein zoologischer Bericht (p. 20-44).

Bodenheimer.—Ueber das Tamariskenmanna des Sinai (p. 45-88).

Fodor, A. und R. Cohn.—Notiz über die chemische Zusammensetzung des Tamariskenmannas (p. 89).

Under Beiträge zur Kenntnis des Sinaigebietes we find the following botanical papers.

Pinner, L.—Weizen aus der Oase Feiran (p. 129-132).

Warburg, O.—Bemerkungen über die Tamarisken des Sinaigebirges sowie der Sinai Halbinsel (p. 133-140).

1927.—**Bradnell, B. J. L.**—The Wilderness of Sinai: a record of two years' recent exploration. London, 1927.

1927.—**Parker, A. C. (Lt.-Col.)**.—Sinai, lecture given to the Central Asian Society on Nov. 2, 1927. Published in *Journ. Central Asian Soc.* XV, pt. I (1928) 3.

1927.—**Sprague, T. A.**—*Commiphora foliacea* Sprague. In *Hook. Ic. Pl.* II, pt. 1 (1927) t. 3105.

1928.—**Plessner, Martin.**—Der Inhalt der Nabatäischen Landwirtschaft *Zeitschr. f. Semitistik.* VI (1928) 27-56.

1928.—**Rihani, Ameen.**—*Ibn Sa'oud of Arabia. His people and his land.* London, 1928.

Rihani, A.—*Around the Coasts of Arabia.* 22 plates. 1930.

Rihani, A.—*Arabian Peak and Desert Travels in Al-Yaman.* 1930.

1930.—**Oppenheimer, H. R.**—*Reliquiae Aaronsohnianæ. I. Florula Transiordanica.* *Bull. Soc. Bot. Geneve* XXII, 1930.

1931.—**Schimper, A. F. W.**—*Pflanzengeographie auf physiologischer Grundlage, neu bearb. von F. C. von Faber.* Jena, 1931.

1931.—**Thiébaud, J. et R. Gombault.**—Made a botanical excursion to Jabel Tenf in the Syrian Desert, on the frontier of Syria and Irak. Their paper contains a list of plants and ecological notes.

Thiébaud, J. et R. Gombault.—Une excursion au Djebel Tenf. *Bull. Mensuel de la Société Linnéenne de Lyon* No. 5, May 1932.

1932.—Bergdolt, Ernst.—Beiträge zur Geschichte der Botanik im Orient, I. Berichte der Deutschen Bot. Gesellschaft (1932) 321-336.

1932.—Laurent-Täckholm, Vivi.—Bibliographical notes to the Flora of Egypt. Contains many references to the flora of Arabia. Reprinted from Festskrift till Verner Söderberg den fjärde oktober 1932.

Laurent-Täckholm, Vivi.—Some new plants from Sinai and Egypt. Svensk Botanisk Tidskrift, Bd. 26, H. 1—2 (1932) Upsala.

APPENDIX.

Of the following collectors I have not been able to ascertain any details, especially not the date of their visits to Arabia.

Bruce.—Collected in Arabia deserta.

Fischer, S.—Collected 208 sheets of plants in S. Arabia and sent them to Kew (ex Herb. Kew).

Grotan, F.—Collected in Sinai (ex A. Thellung sub genere *Lepidium*).

Holland, F. W.—Collected in Sinai (ex Herb. Kew.).

Paul, Prince of Würtemberg.—Collected at Jidda. (ex Engl. Bot. Jahrb. XVIII, 99).

Spitzel.—Collected at Mecca. Plants in Herb. Dingle (ex Engl. Bot. Jahrb. XVIII, 100).

Wiesner, Rd.—Collected at Aden (ex Herb. Sulp. Kurz).

Index of names of botanists, collectors and travellers with years of their activities.

	PAGE.		PAGE.
Abu H'anifadt, 895	455	Brandis, Sir Dietrich, 1852, 1855	473, 474
Abul Abbas Annabati, 1216	456	Bretzel, H., ab. 300 B.C.	454
Abu-l-Fida, 1331	456	Breydenbach, Bernhard von, 1800-1500 B.C.	452
Agatharchides, ab. 104 B.C.	454	Brogniart, A., 1859	475
Ali Bey al 'Abbasi, 1807	461, 462	Bromfield, William Arnold, 1851	472
Alpinus, Prosper, 1800-1500 B.C., 1580	452, 458	Brown, R., 1809	463
Anderson, Thomas, 1859	474	Brünnow, R. E., 1897	489
Annesley, George, 1802	461	Buckhardt, Johann Ludwig, 1809	462
Annesly, Oliver Francis T., 1875	480	Burckhardt, Hermann, 1891	487
Arconati, Visconti G., 1865	476	Burton, Sir Richard Francis, 1853	472
Artemidorus, ab. 104 B.C.	454	Bury, G. Wyman, 1911	493
Arvieux, d' (Chevalier), 1732	459	Büsching, A. Fr., 1800-1500 B.C.	452
Ascherson, P. F. A., 1887	486	Buxton, 1906	491
Aucher-Floy, Peter Martin Remi, 1830	464, 465	Buxton, P. A., 1923	493
Badger, G. P., 1535	457	Calvert, Henry Hunter, ab. 1857	474
Balfour, 1500-1500 B.C., 1880	451, 483	Carless, Lieut., 1833	466
Ball, John, ab. 1875	480	Carter, Henry John, 1848	471
Banermann, 1868	477	Celsius, 1800-1500 B.C.	451
Bardey, P., 1899	490	Charnay, D., 1897	489
Barthema, Ludovico di, 1535	457	Chedufau, 1843	468
Beevor, Hugh Reese, 1884	484	Cheesman, R. E., 1923	493, 494
Behn, E., 1910	493	Christ, H., 1846	470
Beke, Charles Tilstone, 1874	480	Cleave, 1863	476
Belon, Pierre, 1800-1500 B.C., 1546	452, 457	Clément-Mullet, 1866	476
Bent, James Theodore, 1893	487, 488	Cloupet, 1788	461
Berg, L. W. C. Van den, 1885	485, 486	Cohn, R., 1927	495
Bergdolt, Ernst, 1932	496	Cole, C. S. D., 1847	471
Berger, Alwyn, 1910	493	Collins, James, 1877	481
Besent, Sir Walter, 1869	479	Combes, E., 1840	468
Bethge, O., 1891	487	Coomaswamy, A. K., 1878	482
Birdwood, G. C. M., 1871	479	Courbon, Alfred, 1859	474, 475
Birdwood, W. S., 1897	489	Cox, Sir Percy Z., ab. 1907	491, 492
Blanche, J., 1847	471	Crossland, Charles, 1913	493
Blatter, Ethelbert, 1907	491	Cruttenden, Charles, 1831	465, 466
Blunt, Lady Anne, 1880	483	Cultrera, 1800-1500 B.C.	451
Bodenheimer, F. S., 1800-1500 B.C., 1927	453, 495	Dalechamps, 1573	458
Boissier, Pierre-Edmond, 1830, 1846	465, 469, 470	Dalman, G., 1911	493
Bornmüller, Joseph, 1893	488	Dapper, O., 1681	459
Boteler, T., 1821	464	Daumas, 1869	478
Botta, Paul Emile, 1837	467	Decaisne, J., 1831, 1837	465, 467
Bové, Nic., 1831	465	Deflers, A., 1885	486, 489
Bradnell, B. J. L., 1927	495	Delile, A. R., ab. 1833	466
		Desvergers, N., 1847	471
		Dinsmore, J. E., 1911	493

	PAGE.		PAGE.
Domaszewski, A. von, 1897	489	Haig, F., 1887	486, 487
Don Josaphet, 1892	487	Haines, S. B., 1839	468, 469
Doughty, Charles Montague, 1875	480, 481	Hamilton, James, 1854	473
Drake, 1869	478	Hanbury, 1873	480
Duns, 1800-1500 B.C.	452	Hanstein, J., 1820-26	464
Ebers, G., 1883	483	Harris, Walter, B., 1892	487
Eccles, G. J., 1925	494	Hart, Henry Chichester, 1883	484
Edgeworth, Michael Pakenham, 1846	470, 471	Hein, Wilhelm, 1900	490
Ehrenberg, Christian Gottfried, 1820	463, 464	Hemprich, F. G., 1820	464
Ellenbeck, 1899	490	Hemprich, W. F., 1820	464
Erdle, M., 1837	467	Herodotus, 484 B.C.	453
Euting, Julius, 1883	483, 484	Hervey, Dudley Francis Amelius, 1892	487
Fairley, B., 1875	481	Hildebrandt, Joh. Maria, 1872	479
Farmer, John Bretland, 1895	489	Hiller, 1800-1500 B.C.	451
Fernandez, Joseph, 1925	494	Hirsch, Leo, 1893	488
Ferrières-Sauveboeuf, 1782	461	Hochstetter, 1834	466
Field, Henry M., 1884	484	Hogarth, David George, 1875, 1904	481, 491
Figari, Antonio, 1849	471, 472	Hogg, John, 1849	472
Fillion, 1800-1500 B.C.	452	Hommel, Fr., 1884, 1901	485, 490
Finati, G., 1807	462	Hooker, Sir Joseph Dalton, 1847	471
Fiori, Adriano, 1909	492	Hornby, E., 1899	490
Fischer, Theobald, 1881	483	Huber, Charles, 1878	482
Flavius, Josephus, 1800-1500 B.C.	452	Hulton, 1831	466
Floyer, Ernest Aiscouth, 1876	481	Hummelauer, 1800-1500 B.C.	453
Fodor, A., 1927	495	Humphery, G. C., ab. 1907	492
Fonck, 1800-1500 B.C.	452	Hunter, Frederick Mercer, 1880	483
Forskall, Peter, 1761	459, 460	Hurgronje, J. S., 1887	487
Fox, H. Munro, 1925	494	Ibn Baithar, 1248	456
Fox, Henry Elliott, 1867	476	Ibn Batuta, 1303	456
Franchet, A., 1885	486	Idrisi, 1153	456
Fresenius, J. B. G. W., 1826, 1834	464, 466	Istakhri, 915	455
Fresnel, F., 1843	469	Jacob, G., 1897	489
Fuchs, M., 1885	486	Jaubert, 1842	468
Furer ab Haimendorf, Christ, 1565	457, 458	Jayakar, A. S. G., 1899	490
Glaser, Ed., 1884	484, 485	Kahlenberg, C., 1885	486
Gombault, R., 1931	495	Kaiser, A., 1800-1500 B.C., 1891, 1922	453, 487, 493
Goodrich, L. C., 1883	484	Kiepert, H., 1877	482
Gough, George Stevens, ab. 1840	468	King, J. S., 1877	482
Grandpré, L. de, 1789	461	Klunzinger, C. B., 1878	482
Gronovius, Jan Fredrik, 1573	458	Kneuker, J. Andreas, 1902	490, 491
Guarmani, Carlo, 1851	472	Knight, 1800-1500 B.C.	452
Guessfeldt, P., 1877	482	Knox, S. G., ab. 1907	492
Gutschmid, A. von, 1881	483	Kotschy, Th., 1861	475
		Krause, K., 1905	491
		Kuntze, Otto, 1876	481

	PAGE.		PAGE.
Laborde, Léon de, ab. 1833 . . .	466	Palacky, J., 1896 . . .	489
Lambert, Aylmer Bourke, 1827 . . .	464	Palgrave, William Gifford, 1862 . . .	475, 476
La Roque, J. de, 1708 . . .	459	Palmer, Edward Henry, 1869 . . .	478
Last, J. T., 1909 . . .	492	Parker, A. C., 1927 . . .	495
Laurent-Täckholm, Vivi, 1932 . . .	496	Pelly, Sir Lewis, 1865 . . .	476
Lees, G. H., 1925 . . .	494	Pengelly, W. M., 1860 . . .	475
Legré, L., 1761 . . .	460	Perry, William Wykeham, 1878 . . .	482
Léveillé, 1903 . . .	491	Peters, 1800-1500 B.C. . .	453
Lindley, John, 1838 . . .	468	Philby, H. St. J. B., 1917 . . .	493
Lord, J. K., 1868 . . .	477	Pietri, 1772 . . .	461
Lorentz, 1867 . . .	477	Pilgrim, Guy, E., 1906 . . .	491
Lowne, Benjamin Thompson, 1863 . . .	476	Pinard, 1846 . . .	471
Lowth, G. T., 1855 . . .	474	Pinner, L., 1927 . . .	495
Lunt, William, 1893 . . .	488	Planès, J., 1905 . . .	491
Lynch, 1851 . . .	472	Playfair, Sir Robert Lambert, 1852 . . .	473
Madden, Edward, 1850 . . .	472	Plessner, Martin, 1928 . . .	495
Magnus, P., 1903 . . .	491	Post, George Edward, 1884 . . .	485
Maille, Alphonse, 1847 . . .	471	Postel, R., 1886 . . .	486
Malcolmson, 1845 . . .	469	Puel, Timothée, 1847 . . .	471
Maltzan, H. von, 1873 . . .	469, 480	Rauwolf, Leonhard, 1573 . . .	458
Manzoni, Renzo, 1877 . . .	482	Rehatsek, E., 1879 . . .	483
Marcel Dubois, ab. 66 B.C. . .	455	Richard, A., 1835 . . .	466
Marchesetti, C. von, 1875 . . .	481	Ridley, H. N., 1884 . . .	485
Maundrell, Henry, 1810 . . .	463	Rihani, Ameen, 1928 . . .	495
Mayeux, 1816 . . .	463	Ritter, Karl, 1800-1500 B.C., 1846 . . .	452, 469, 471
McDonald, Major, 1849 . . .	472	Robinson, E., 1800-1500 B.C. . .	452
Meyer, E. H. F., ab. 104 B.C., ab. 66 B.C., 1856 . . .	454, 455, 474	Roediger, E., 1842 . . .	468
Michaelis, J. Dan, 1761 . . .	460	Rosenmüller, 1800-1500 B.C. . .	452
Mildbraed, J., 1868 . . .	478	Rossi, 1891 . . .	487
Miles, S. B., 1870, 1872 . . .	479, 480	Roth, J. R., 1837 . . .	467
Millingen, Charles, 1873 . . .	480	Rueppel, Edward, 1826 . . .	464
Milne, John, 1874 . . .	480	Sadlier, George Forster, 1819 . . .	463
Milne-Redhead, Richard, 1866 . . .	476	Salt, Henry, 1809 . . .	462, 463
Moritz, B., 1923 . . .	494	Saulcy, 1853 . . .	473
Morren, C. J. E., 1546-49 . . .	457	Schapira, 1877 . . .	482
Morrison, A., 1800-1500 B.C. . .	452	Schenk, A., 1836, 1837 . . .	467
Munro, William, 1847 . . .	471	Schiffner, V., 1901 . . .	490
Munzinger, W. M., 1870 . . .	479	Schimper, A. F. W., 1931 . . .	495
Musa, 1887 . . .	487	Schimper, Wilhelm Philipp, 1835 . . .	466
Muschler, Reno, 1907 . . .	492	Schmidt, V., 1899 . . .	490
Musil, Alois, 1909 . . .	492, 493	Schmidt, W., 1913 . . .	493
Nagelberg, S., 1909 . . .	493	Schomburgk, Sir Robert Hermann, 1857 ? . . .	474
Niebuhr, Karsten, 1761 . . .	460, 461	Schubert, G. H. von, 1836 . . .	466, 467
Nolde, Edward, 1893 . . .	489	Schweinfurth, G. A., 1868, 1887 . . .	477, 478, 486
Oedmann, 1800-1500 B.C. . .	452	Seetzen, Ulrich Jaspas, 1800-1500 B.C., ab. 1810 . . .	452, 463
Oliver, 1863 . . .	476		
Oppenheimer, H. R., 1930 . . .	495		

	PAGE.		PAGE
Shakespear, William Henry, 1915	493	Vahl, Martin, 1761 . . .	460
Sibthorp, J., ab. 300 B.C. . .	454	Valle, Pietro della, 1658 . .	458, 459
Silberberg, B., 895 . . .	455	Vaniot, 1903 . . .	491
Simony, O., 1898 . . .	489	Vatke, W., 1872 . . .	479
Slade, Edmund John Warre, 1882	483	Vaughan, James, 1852 . .	473
Smith, 1800-1500 B.C. . .	452	Velenovsky, J., 1909 . . .	492
Sontheimer, 1248, 1761 . . .	460	Vierhapper, F., 1907 . . .	492
Spach, 1842 . . .	468	Vigouroux, 1800-1500 B.C. .	452
Sprague, T. A., 1927 . . .	495	Volkens, G., 1886 . . .	486
Sprengel, Curtius, 1761 . . .	460		
Sprenger, A., 1875 . . .	481	Wallin, George Augustus, 1845 .	469
Staudinger, P., 1868 . . .	478	Walther, Fr. P., 1892 . . .	487
Steiner, J., 1898 . . .	490	Walther, J., 1868 . . .	478
Stern, A., 1856 . . .	474	Warburg, O., 1927 . . .	495
Steudel, 1834 . . .	466	Watt, G., 1907 . . .	492
Steudner, H., 1861 . . .	475	Weber, O., 1907 . . .	492
Stevens, 1873 . . .	480	Wellsted, James Raymond, 1838	467, 468
Stiffe, A. W., 1859 . . .	475	Werther, C. W., 1899 . . .	490
Stocker, Otto, 1926 . . .	494	Wetzstein, 1880 . . .	483
Strabo, ab. 66 B.C. . .	455	Whish, 1859 . . .	475
Strauss, F. A., 1859 . . .	475	Whitlock, F., 1838 . . .	468
		Wichura, 1860 . . .	475
Tamisier, M. O., 1840, 1849	468, 472	Wilson, A. T., 1926 . . .	494
Teano, L. C. P. di, 1909 . . .	492	Wimmer, J., 1902 . . .	491
Tellez, F. Balt, 1710 . . .	459	Winckler, Emil, 1854 . . .	474
Theodor, 1927 . . .	495	Wrede, Adolph von., 1843 . .	468, 469
Theophrastus of Eresus, ab. 300		Wüstenfeld, F., 1871 . . .	479
B.C. . . .	453		
Thiebaut, J., 1931 . . .	495	Yerbury, J. W., 1884 . . .	485
Thomas, Bertram, S., 1926 . .	494	Yrwin, E., 1780 . . .	461
Thomson, Thomas, 1851 . . .	472		
Tischendorf, C., 1800-1500 B.C.	452	Zenker (Dr.), 1868 . . .	478
Traill, James, 1834 . . .	466	Zenner, 1800-1500 B.C. . .	453
Tristram, 1800-1500 B.C. . .	452	Zohrab, James, ab. 1859 . .	475
		Zwemer, S. M., 1894 . . .	489
Upton, R. D., 1881 . . .	483		
Ursinus, 1800-1500 B.C. . .	451		

XCIX. GNETACEAE.

1. *Ephedra* Tourn. ex L.

1. *E. alata* Decne. Enum. pl. réc. par Bové. Ann. Sc. Nat. Isér. II (1835) 239, var. *Decaisnei* Stapf in Denkschr. d. Mathem.-Naturw. Classe d. Kais. Akad. d. Wissensch. Wien (1889) 37.

HABITAT: I. Arabia Petraea (McDonald!); Oasis Farrun, Wady Shellal, between Ras Abu Zenîme and Wady Charandel, and between Wady Charandel and Wady Werdan (ex Kneuck.); Tih Desert (Boiss.); Sinai Valleys (Bové, Auch.).

2. *E. foliata* (Boiss.) Stapf in Denkschr. d. Mathem.-Naturw. Classe d. Kais. Akad. der Wissensch. Wien (1889) 49, t. 2 and 10, f. 1-11, var. *ciliata* Stapf l. c.—*E. ciliata* Aitchison Fl. Kurum Valley (1882) 187.—*E. foliata* Aitch. Bot. Affghan. Bound. Commiss. 112.—*E. Alte* Brandis For. Fl. 501, t. 69.—*E. peduncularis* Boiss. l. c. 717.—*E. asparagoides* Griff. Not. II, 340.

HABITAT: II. Aden (S. 106!, Thomson, Defl.!, Perry!).

FL.: Apr. 1878 (Perry), May 1886 (Defl.), Dec. 1888 (S.).

FR.: Feb. 1857 (Thomson), Apr. 1878 (Perry), May 1886 (Defl.), Dec. 1888 (S.).

DISTRIB.: Punjab, Sind, Persian Baluchistan, Turkestan and westwards to Syria.

3. *E. Alte* C. A. Mey. Monogr. d. Gattung Ephed. (1846) 75, t. 3, fig. 4; Boiss. Fl. Or. V (1884) 715.—*E. aphylla et distachya* Forsk. Fl. Aeg.-Arab. (1775) LXXVII.—*E. altissima* Del. Descr. de l'Eg. 110 (non Desf.).

HABITAT: I. Raphidim (Schimp. 280!); Bestam (Schimp. 316!); Sinai (Auch. 2873!); Mt. Catherine (Drake 2!); top of Mt. Sinai (Bové 214!).

FL.: June 1832 (Bové), July 1835 (Schimp.).

DISTRIB.: Egypt, Syria, Cyrenaica, Somaliland.

Vern. name: *Aelde-gammel* (Bové), *Alte* (Schimp.).

4. *E. fragilis* Desf. Fl. Atlant. II, 372.

HABITAT: I. Wady Arabah (Hart).

DISTRIB.: Mediterranean, Arabia.

C. CONIFERAE.

1. *Cupressus* Tourn. ex L.

1. *C. sempervirens* L. Sp. Pl. 1002.

HABITAT: I. Jebel Musa, ca. 2,100 m., probably cult. (ex Kneuck.); Arabia Petraea (McDonald!) very likely planted.

DISTRIB.: N.-W. India, planted only. The horizontally branches variety is wild in N. Persia, Syria and Asia Minor.

2. *Juniperus* Tourn. ex L.1. *J. procera* Hochst. ex Endl. Syn. Conif. 26.

HABITAT : II. Yaman (ex Fiori).

DISTRIB. : Tropical Africa.

2. *J. phoenicea* L. Sp. Pl. 1471.

HABITAT : I. Central Midian (Burton!).

DISTRIB. : Mediterranean region.

3. *J. macropoda* Boiss. Fl. Or. V, 709.

HABITAT : IV. Maskat, Gebel Akhdar (Auch. 5335).

DISTRIB. : Arabia, Persia, Himalayan region.

B. MONOCOTYLEDONEAE.

CI. HYDROCHARITACEAE.

1. *Enhalus* C. A. Rich.

1. *E. acoroides* Steud. Nomencl. I, 554.—*Stratiotes acoroides* Linn. f. Suppl. 268.—*Enhalus acoroides* Boiss. Fl. Or. V (1881) 6.—*E. marinus* Griff. Not. Pl. As. III, 178, Ic. t. 249, 250.

HABITAT : II. Hodeidah (S. 149!).

FR. : Sterile in Dec. (S.).

DISTRIB. : Indian and Pacific Oceans, on the shores of Asia, Africa, Australia and Melanesia.

Vern. name : *Suram* (S.).2. *Halophila* Thouars.

1. *H. ovalis* (R. Br.) Hook. f. in Fl. Tasm. II (1860) 45; Boiss. Fl. Or. V (1881) 2; Balfour, The genus *Halophila* 47.—*Caulinia ovalis* R. Br. Prodr. Nov. Holl. 339.—*Halophila ovata* Gaud. in Freyc. Voy. Bot. 429, t. 40, fig. 1.

HABITAT : I. Gulf of Suez (Frauenfeld, Aschers.).

II. Hodeidah (S. 150!); Aden (Balfour!); near Jedda (Hildebr. 107).

FR. : Dec. 1888 (S.).

DISTRIB. : Also known from the Persian Gulf, Indian Ocean, South Seas.

Vern. name : *Suram* (S.).

2. *H. stipulacea* Aschers. Sitzb. Naturf. Fr. Berlin (1867) 3.—*Zostera stipulacea* Forsk. Fl. Aeg.-Arab. (1775) Descr. 158.—*Thalassia stipulacea* Koenig Ann. Bot. II, 97,

HABITAT : I. Gulf of Suez (Del., Ehrenb. !, Schimp. !); near Tor (Ehrenb. !, Bové !).

DISTRIB. : Red Sea, Indian Ocean, islands of E. Africa.

3. *Thalassia* Solander.

1. *T. Hemprichii* (Ehrenb.) Aschers. in Boiss. Fl. Or. V (1884) 7.—*Schizotheca Hemprichii* Ehrenb. Symb. Phys. Bot. Tab. XI, 1; Act. Acad. Berol. (1832) t. 429.

HABITAT : II. Jedda (S.).

DISTRIB. : Indian and Pacific Oceans on the shores of Africa and tropical Asia, Indian Archipelago, Melanesia.

CII. ORCHIDACEAE.

1. *Holothrix* L. C. Rich.

1. *H. Vatkeana* Rehb. f. in Journ. Bot. XIV (1876) 346.

HABITAT : II. Spring el Mechader, near Menacha (S. 1431 !).

FL. : Feb. 1889 (S.), Mar. 1889 (S.).

FR. : Mar. 1889 (S.).

DISTRIB. : Tropical Africa.

2. *Habenaria* Willd.

1. *H. arabica* Blatter, *nov. comb.*—*Bicornella Arabica* Deff. Voy. Yemen 208, t. 6.

HABITAT : II. Yaman (Deff. !).

2. *H. macrantha* Hochst. in A. Rich. Tent. Fl. Abyss. II (1851) 294, t. 87.

HABITAT : II. At the Shibam near Menacha, 2,600 m. (S. 1768).

FL. : Mar. 1889 (S.).

DISTRIB. : Abyssinia.

3. *H. aphylla* R. Br. Prodr. 312, *in nota*.

HABITAT : Arabia (*non vidi*).

DISTRIB. : Arabia.

3. *Eulophia* R. Br.

1. *E. Schimperiana* Rich. Tent. Fl. Abyss. II (1851) 283.

HABITAT : II. Wolledje at the foot of Jebel Melhan, 700 m. (S. 735 !).

FL. : Jan. (S.).

DISTRIB. : Abyssinia.

2. *E. Petersii* Reichb. f. in Flora XLVIII (1865) 186.

HABITAT : Arabia (ex Herb. Kew).

DISTRIB. : Tropical Africa.

4. *Orchis* (Tourn.) L.

1. *O. palustris* Jacq. Coll. I, 75.

HABITAT : IV. Hufuf Oasis (Cheeseman).

DISTRIB. : Europe, N. Africa, Orient.

CIII. SCITAMINACEAE.

ZINGIBERACEAE.

1. *Zingiber* Adans.

1. *Z. officinale* Rosc. Trans. Linn. Soc. VIII, 348.

HABITAT : II. Jebel Bura, cultivated in coffee plantations, 1,000 m. (S. 1882).

Vern. name : *Sengebil* (S.).

CANNACEAE.

1. *Canna* L.

1. *C. indica* L. Sp. Pl. 1.

HABITAT : II. Jebel Bura, above Hille, 900 m. (S. 501) ; near Ussil in Wady Hedjan, 12 m. (S. 1272) ; Manod near Hodjela, 900 m. (S. 984) ; wild or run wild.

FL. : Jan. (S.).

Vern. name : *Jussr* (S.), *Schenef-el-diq* (S.).

MUSACEAE.

1. *Musa* L.

1. *M. sapientium* L. Sp. Pl. 1477.

HABITAT : II. Jebel Bura, cultivated in coffee plantations, 900-1,000 m. (S. 1819).

CIV. HAEMODORACEAE.

1. *Sansevieria* Thunb.

1. *S. Ehrenbergii* Schweinf. in Baker Journ. Linn. Soc. XIV, 549 ; Kew Bull. (1892) 129 ; Oliv. in Bot. Mag. 2269.

HABITAT : II. Outliers W. of Jebel Melhan and in the plain of Tehama, 300-500 m. (S. 696 !) ; W. of the foot of Jebel Bura, near Chalife, 400 m. (S. 190 !).

DISTRIB. : Abyssinia.

2. *S. guineensis* Willd. Sp. Pl. II, 159.

HABITAT: II. Yaman (ex Fiori); Jebel Melhan near Wolledje, 600 m. (S. 696a!); Jebel Bura, above Hille, 800 m. (S. 378).

FL.: Feb.-Jan. 1889 (S.).

FR.: Feb.-Jan. 1889 (S.).

DISTRIB.: Tropical Africa.

Vern. name: *Dermeq, hharag* (S.).

CV. IRIDACEAE.**1. *Iris* Tourn. ex L.**

1. *I. florentina* L. Sp. Pl. II, 55; Bot. Mag. t. 671.—*I.* Forsk. Fl. Aeg.-Arab. (1775) p. CIII.—*I. sp.* Defl. Voy. Yemen 209.

HABITAT: II. Top of Shibam, below the old castle; S. W. slope of the hill between el-Hausan and Hayjera, 2,850-2,200 m. (S. 1663).

FL.: Beginning of Mar. (S.).

DISTRIB.: Mediterranean.

2. *I. Sisyrinchium* L. Sp. Pl. 40.—*I. aegyptia* Del. in Labord. Voy. Arab. Petr. 82.

HABITAT: IV. From the neighb. of Koweit and here and there in hollows in the neighb. of Regat (Pelly!).

DISTRIB.: Mediterranean, Orient, Afghanistan, Baluchistan.

3. *I. Helenae* Barbey Herboris. au Levant (1880) 159, no. 841; Boiss. Fl. Or. V (1884) 132; Baker Handb. Irid. 19.

HABITAT: I. Desert between Egypt and Palestine near El-Arish (Barbey).

FL.: Mar. (Barbey).

4. *I. palaestina* Boiss. Fl. Or. V (1884) 122.—*Xiphium palaestinum* Baker in Seem. Journ. (1871) 108.

HABITAT: 1. Tel Abou Hereireh to Gaza (Hart).

FL.: Last week of Dec. (Hart).

DISTRIB.: Palestine, Syria, Mesopotamia.

2. *Gladiolus* L.

1. *G. segetum* Ker-Gawl. in Bot. Mag. (1804) t. 719; Boiss. Fl. Or. V (1884) 139; Baker Handb. Irid. 200; Musch. Fl. Egypt. I (1912) 238.

HABITAT: I. Arabia Petraea (ex Muschler).

DISTRIB.: Mediterranean to Persia and Turkestan.

2. *G. segetum* Ker-Gawl. var. *Guepini* (Koch) Boiss. Fl. Or. V (1884) 139; Musch. Fl. Egypt I (1912) 238.—*G. Guepini* Koch Flora XXIII (1840) 466.

HABITAT : I. Arabia Petraea (ex Muschler).

DISTRIB. : Mediterranean.

CVI. AMARYLLIDACEAE.

1. *Pancratium* Dill. ex L.

1. *P. maritimum* L. Sp. Pl. (1753) 291 ; Boiss. Fl. Or. V (1884) 152 ; Baker Handb. Amaryll. 118 ; Musch. Fl. Egypt I (1912) 235.

HABITAT : I. Arabia Petraea (ex Muschler).

DISTRIB. : Mediterranean.

2. *P. tortuosum* Herb. in Ann. Nat. Hist. ser. I, IV (1840) 28 ; Baker Handb. Amaryll. 120.—*P. tortifolium* Boiss. Diagn. ser. I, XIII, 18.

HABITAT : II. Jedda (Zohrab 101 !, Fischer 94 !, Schimp. 876 !); Aden (Thomson !).

III. Dhofar Mts. (Bent 153).

FL. : Feb. (Fischer), Apr. 1861 (Thomson), Dec. 1835 (Schimp.).

DISTRIB. : Arabia, Egypt, Nubia.

3. *P. trianthum* Herb. in Ann. Nat. Hist. ser. I, IV (1840) 28.—*P. tenuifolium* Hochst. in A. Rich. Tent. Fl. Abyss. II (1851) 312.

HABITAT : II. Haifa, Wady Moaden (Defl.).

DISTRIB. : Tropical Africa, Arabia.

4. *P. Sickenbergerii* Aschers. & Schweinf. in Gartenzeitg. II (1883) 345 ; Boiss. Fl. Or. V (1884) 153 ; Baker Handb. Amaryll. 118.

HABITAT : I. Wady-es Sheikh, Wady Barak and Wady Lebweh (Hart !); from Akaba to Ain Abon Weirideh (Hart); between Suez and Mt. Sinai (Boiss. !); Bir el Fachme (Sickenb.); Bir Abu Elfein (Barbey).

FL. : Nov. and Dec. (Hart).

DISTRIB. : Egypt, Sinai.

Vern. name : *Aissalan* (ex Boiss.).

5. *P. maximum* Forsk. Fl. Aeg.-Arab. (1775) Descr. 72 ; Schweinf. in Bull. Herb. Boiss. (1894) App. II, 82.

HABITAT : II. Jebel Melhan, near Wolledje, 600 m. (S. 699 !); Jebel Bura, above Hille, 900 m. (S. 352 !); Aden (S. 109 !); near Taes (Nichbur).

FL. : Dec. 1888 (S.).

DISTRIB. : S. Arabia, Nubia.

OBSERV. : Flowered at Aden on the 6th day after heavy rain (S.).

Vern. name : *Bassal er robach* (=bulb of the baboon) (S.).

2. *Crinum* L.

1. *C. yemense* Schweinf. Bull. Herb. Boiss. (1894) App. 81; Defl. Voy. Yemen (1889) 209; (*Deflers non descripsit plantam quare Schweinfurth consideramus speciei auctorem.*)—*Crinum yemense* Hort. Damman in Gard. Chron. I, 643.—*C. jemenicum* Hort. Damman.—*Non est C. latifolium* Linn. uti habet Index Kewensis. Vide Schweinf. l. c.

HABITAT: II. Haifa (Defl.!).

DISTRIB.: Arabia.

3. *Ixiolirion* Fisch.

1. *I. montanum* Herb. App. (1821) 37.—*Amaryllis montana* Labill. Ic. Pl. Syr. Dec. II, 5.

HABITAT: I. Gaza (Boiss.!, Barbey).

DISTRIB.: Syria, Palestine, Mesopotamia, Persia.

4. *Haemanthus* L.

1. *H. arabicus* Roem. et Schult. ex Schweinf. in Bull. Herb. Boiss. (1894) App. II, 80.—*H. coccineus* Forsk. Fl. Aeg.-Arab. (1775) Des. 75.

HABITAT: II. Hadie (Forsk.); Lakkeme Jebel Harassa, 2,000 m. (S. 1971!); Jebel Bura, 900 m. (S. 1841); Kahil near Menacha, 2,500 m. (S. 1441, 1701); Jebel Melhan, 900 m. (S. 756).

FL.: Jan. and Feb. 1889 (S.).

FR.: Feb. 1889 (S.), Mar. 1889 (S.).

DISTRIB.: Arabia.

Vern. name: *Bassal el hannesch* (S.) (means Snake-bulb).

2. *H. coccineus* L. Sp. Pl. 325; Defl. Ext. Bull. Société Bot. France XLIII (1896) 330.

HABITAT: II. Haifa, Serrya (Defl.).

DISTRIB.: S. Africa, Arabia.

5. *Polianthes* L.

1. *P. tuberosa* L. Sp. Pl. 316.

HABITAT: II. Jebel Bura, above Hille, cultivated, 1,000 m. (S. 1821).

FL.: Jan. 1889.

DISTRIB.: Mexico.

Vern. name: *Sambag*; *rengess* (S.).

6. *Vellozia* Vand.

1. *V. sp.* Schweinf. in Bull. Herb. Boiss. (1894) App. II, 94, under *Barbacenia*.

HABITAT: II. Jebel Bura, above Hille, 1,000 m. (S. 1872).

Vern. name: *Thalliq* (S.).

2. *V. (xerophyta) arabica* Baker in Kew Bull. (1894) 342 ; Ic. Plant. 2364.

HABITAT : III. Under the edges of rocks at Dobaibah, alt. 1,200 m. (Lunt 205 !).

FL. : Feb. 1894 (Lunt).

DISTRIB. : Arabia.

7. *Sternbergia* Waldst. & Kit.

1. *S. cholchiciflora* Waldst. & Kit. Pl. Rar. Hung. II (1805) 172, t. 159 ; Boiss. Fl. Or. V (1884) 147.—*Amaryllis cholchiciflora* Ker-Gawl. in Journ. Sc. & Arts II (1817) 345.—*Sternbergia aetnensis* Guss. Fl. Sic. Prodr. I (1832) 395.—*S. dalmatica* Herb. Amaryll. (1837) 413, t. 47, f. 2.—*S. Clusiana* Ker-Gawl. ex Schult. f. Syst. VII, 794.—*S. macrantha* J. Gay ex Boiss. Fl. Or. l. c. 148 ; Hart Bot. Sinai & S. Palest. in Transact. Roy. Irish Acad. (1885) 445.—*S. pulchella* Boiss. & Blanche Diagn. ser. II, IV, 97.—*S. Schuberti* Schenk Pl. Sp. Aegypt. (1840) 11.—*S. stipitata* Boiss. & Haussk. ex-Boiss. l. c. 148.

HABITAT : I. Mount Hor, especially about the summit (Hart !).

FL. : Early in Dec. (Hart).

DISTRIB. : S. Europe, Syria, Palestine, Persia.

CVII. COLCHICACEAE.

1. *Androcymbium* Willd.

1. *A. palaestinum* Baker in Journ. Linn. Soc. XVII (1880) 445.

HABITAT : I. Wady Arabah (Hart).

DISTRIB. : Sinai, Palestine.

2. *Colchicum* L.

1. *C. montanum* L. Sp. Pl. 342.

HABITAT : I. Sinai (Holland !).

DISTRIB. : S. Europe.

2. *C. Steveni* Kunth Enum. Pl. IV, 144.

HABITAT : I. Jebel Catherine (Hart !); Mt. Hor and Petra (Hart !).

FL. : Second week of Dec.

DISTRIB. : Arabia, Syria.

3. *C. variegatum* L. Sp. Pl. 342.

HABITAT : I. Sinai.

DISTRIB. : S. Europe.

4. *C. velutinum* Bornm. et Kneuck. in Allg. Bot. Zeitsch. (1903)

63.

HABITAT : I. Jebel Catherine, ca. 2,450 m. (ex Kneuck.).

DISTRIB. : Sinai.

CVIII. LILIACEAE.

1. *Littonia* Hook.

1. *L. obscura* Baker Ic. Plant. 2365.

HABITAT: III. Near Cosair, nearly sea level (Lunt 280!).

FL.: Mar. 1894 (Lunt).

DISTRIB.: Endemic.

2. *L. minor* Defl. in Bull. Soc. Bot. Fr. XXXII (1885) 353.

HABITAT: II. Little Aden (Defl. 517!); Wady el'anterich (Defl. 541!).

FL.: Apr. 1890 (Defl.).

FR.: Apr. 1890 (Defl.).

DISTRIB.: Arabia.

2. *Merendera* Ram.

1. *M. abyssinica* Rich. Tent. Fl. Abyss. II, 337.

HABITAT: II. Neighb. of Aden (Hunter 57!).

DISTRIB.: Abyssinia, Arabia.

Vern. name: *Shagorat-al-tair* (Hunter).

3. *Gagea* Salisb.

1. *G. reticulata* Schult. Syst. Veg. VII (1829) 552, var. *tenuifolia* Boiss. Fl. Or. V (1884) 238.

HABITAT: I. Towards top of Mt. Catherine (Schimp. 404!); N. Midian (Burton!).

FL.: Apr. 1835 (Schimp.).

Vern. name: *Betet hakjel* (Schimp.).

4. *Tulipa* L.

1. *T. montana* Lindl. in Bot. Regist. XIII (1827) t. 1106; Boiss. Fl. Or. V, 192; Baker in Journ. Linn. Soc. XIV (1873) 279.

HABITAT: I. Sinai.

DISTRIB.: Egypt, Sinai, Armenia, Persia, Kurdistan, Afghanistan.

5. *Hyacinthus* (Tourn.) L.

1. *H. flexuosus* Baker in Journ. of Botany XII (1874) 8.—*Bellevalia flexuosa* Boiss. Diagn. Plant. Or. Ser. I, fasc. XIII, 36.

HABITAT: I. N. Midian (Burton!).

DISTRIB.: Egypt, Sinai, Midian, Syria.

2. *H. colchicoides* Delile in Laborde Voy. Arab. Petr. 32.

HABITAT: I. Arabia Petraea (Herb. Kew!).

DISTRIB.: Arabia.

6. *Muscari* Tourn.

1. *M. comosum* (L.) Mill. Gard. Dict. ed. VIII (1768) no. 2; Baker in Journ. Linn. Soc. XI (1871) 414.—*Hyacinthus comosus* L. Sp. Pl. I, 318.—*Muscari Holzmanni* Boiss. Fl. Or. V, 293.—*Bellevalia comosa* Heldr. in Atti Congr. Fir. 228.

HABITAT: I. Sinai (Herb. Kew!).

DISTRIB.: Middle and south Europe and the other parts of the Mediterranean region, Egypt, Sinai.

7. *Urginea* Steinh.

1. *U. undulata* Steinh. in Ann. Sc. Nat. ser. 2, I (1834) 330; Baker in Journ. Linn. Soc. XIII (1873) 220.

HABITAT: I. Sinai (Herb. Kew!).

DISTRIB.: Egypt. All other parts of the Mediterranean region.

8. *Albuca* L.

1. *A. Yerburyi* Ridley in Journ. Bot. XXII (1884) 370.

HABITAT: II. Aden (Yerburyi!, Birdwood 126! Beever!).

DISTRIB.: Aden.

2. *A. abyssinica* Dryand in Vet. Acad. Nya. Handl. Stockh. (1784) 297.

HABITAT: II. Near Menacha, 2,900 m. (S. 1664); near Kahil above Menacha, 2,500 m. (S. 1439! 1753!); Jebel Bura above Hille, 1,000 m. (S.).

DISTRIB.: S. Africa, Abyssinia, Eritrea.

9. *Dipcadi* Medic.

1. *D. erythraeum* Webb. & Benth. Hist. Nat. Canar. III, pt. 2 (1840-1850) 341; Baker in Journ. Linn. Soc. XI (1871) 40.—*Urope-talum erythraeum* Boiss. Fl. Or. V, 286.—*Hyacinthus serotinus* Forsk. Fl. Aeg.-Arab. 209.

HABITAT: I. Desert, between Suez and El Tor (Schimp. 405!); N. Midian (Burton!).

II. Jedda (Fischer 96!).

IV. Found sprinkled all over the plain from Koweit to Regat (Pelly).

FL.: Feb. (Fischer), Mar. 1835 (Schimp.).

FR.: Mar. 1835 (Schimp.).

DISTRIB.: Egypt, Syria, Arabia.

2. *D. tacazzeanum* (Hochst.) Baker in Trans. Linn. Soc. II, ser. I, 247.

HABITAT: II. Yaman (Herb. Kew!).

DISTRIB.: Arabia, Eritrea.

10. Allium (Tourn.) L.

1. A. ascalonicum L. Amoen. Acad. IV, 454.

HABITAT : III. Cultivated at Shibam, 600 m. (Lunt 172 !).

FL. : Jan. 1894 (Lunt).

FR : Jan. 1894 (Lunt).

DISTRIB. : Cultivated everywhere.

Vern. name : *Busl* (Lunt).

2. A. sativum L. Sp. Pl. 296.

HABITAT : III. Cultivated at Al Ghatan, 345 m. (Lunt 179 !).

DISTRIB. : Europe.

3. A. cepa L. Sp. Pl. I (1753) 431.

HABITAT : I. Sinai (Herb. Kew !).

II. Yaman (Herb. Kew !).

DISTRIB. : A cosmopolitan pot-herb.

4. A. neapolitanum Cirillo. Plant. rar. regn. Neap. I (1788) 13, t. IV.

HABITAT : I. Sinai (Herb. Kew !).

DISTRIB. : Throughout the Mediterranean region.

5. A. paniculatum L. Sp. Pl. ed. II (1762) 428, var. *pallens* Boiss.
Fl. Or. V (1884) 260.

HABITAT : I. Sinai (Herb. Kew !).

DISTRIB. : Mediterranean region.

6. A. nigrum L. Sp. Pl. ed. II, 430.

HABITAT : I. Sinai (Herb. Kew !).

DISTRIB. : Europe, Orient.

7. A. sinaiticum Boiss. Diagn. Ser. I, XIII, 31.

HABITAT : I. Between Mt. Sinai and Nuckl (Boiss.).

DISTRIB. : Arabia.

8. A. stamineum Boiss. Diagn. Ser. II, IV, 119.

HABITAT : I. Sinai and Mt. St. Catherine (Schimp. 258).

DISTRIB. : Mediterranean, Orient.

11. Bulbine L.

1. B. asphodeloides Spreng. Syst. II, 85.

HABITAT : II. Yaman (Herb. Kew !).

DISTRIB. : Abyssinia, South Africa.

12. Asphodeline Reichb.

1. A. lutea Reich. Fl. Germ. Excurs. 116.

HABITAT : Arabia (ex Baker).

DISTRIB. : Mediterranean region, Caucasus, Asia Minor,

13. *Asphodelus* (Tourn.) L.

1. *A. viscidulus* Boiss. Diagn. Pl. Or. ser. 1, fasc. VII (1846) 118.

HABITAT : I. Arabia Petraea (Schimp. 237 !); sandy plain of Ramleh between Sinai and Jebel Tih (Boiss. !).

FL. : Mar. 1835 (Schimp.), Mar. 1846 (Boiss.).

DISTRIB. : Egypt, Arabia, Syria.

2. *A. fistulosus* L. Sp. Pl. 309.

HABITAT : II. Jedda (Zohrab !); Taifa (Botta !).

DISTRIB. : Mediterranean region, Orient, India.

3. *A. fistulosus* L. var. *tenuifolius* Baker in Journ. Linn. Soc. XV (1877) 272.

HABITAT : I. Wady Hamme (Schimp. 206 !); N. Midian (Burton !); Wady Nasb (Lord !); Desert of Sinai (Bové 505 !); Arabia Petraea (McDonald !); Sinai, near Senned (Drake 85 !).

IV. Neighbourhood of Koweit (Pelly !).

FL. : Apr. 1868 (Lord).

FR. : Mar. 1835 (Schimp.), Apr. 1868 (Lord), June 1832 (Bové).

Vern. name : *Baruak* (Schimp.), *Barwry* (Drake).

4. *A. fistulosus* L. var. *clavatus* Baker in Journ. Linn. Soc. XV (1877) 271.

HABITAT : III. Weed in cultivated crop near Shibam, 600 m. (Lunt 170 !).

FL. : Jan. 1894 (Lunt).

FR. : Jan. 1894 (Lunt).

DISTRIB. : Dhofar.

5. *A. pendulinus* Coss. et Dur. in Bull. Soc. Bot. Fr. IV (1857) 399, 497.

HABITAT : I. Arabia Petraea : Wady Mokateb (Boiss. !); Arabia Petraea (McDonald !).

FR. : Mar. 1846 (Boiss.).

DISTRIB. : Algeria, Arabia.

6. *A. tenuifolius* Cav. in Ann. Sc. Nat. III (1800) 46, t. 27, fig. 2, var. *micranthus* Boiss. Fl. Or. V (1884) 315.

HABITAT : I. Arabia Petraea (Boiss. !).

DISTRIB. : Mediterranean region, Arabia, Syria, Palestine, Nubia.

7. *A. microcarpus* Viv. in Linnaea I (1826) 500.

HABITAT : I. Beersheba (Lowne 306 !).

DISTRIB. : Mediterranean, Canaries.

14. Dracaena Vand.

1. D. serrulata Baker in Kew Bull. (1894) 342.

HABITAT : III. On hills near Dobaibah, about 1,200 m. (Lunt 206 !).

DISTRIB. : Arabia.

15. Scilla L.

1. S. yemensis Defl. Voy. Yemer (1889) 212.

HABITAT : II. Yaman (Defl.).

DISTRIB. : Arabia.

16. Aloe Tourn. ex L.

1. A. trichosantha Berger. in Engl. Bot. Jahrb. XXXVI (1905)

62.—*A. percrassa* Schweinf. (1894) *non* Tod.

HABITAT : II. Yaman (ex Fiori).

DISTRIB. : Eritrea, Yaman.

2. A. inermis Forsk. Fl. Aeg.-Arab. (1775) 74.—*A. Luntii* Baker in Kew Bull. (1894) 342 *et in* Bot. Mag. (1895) t. 7448.

HABITAT : II. Neighb. of Taz (Forsk.).

III. Hills near Dobaibah, 900 m. (Lunt 225 !).

FL. : Feb. 1894 (Lunt).

DISTRIB. : Arabia.

3. A. menachensis Schweinf. in Bull. Herb. Boiss. (1894) App. II 64 (*sub. var.*).

HABITAT : II. Near Menacha, 2,200 m. (S. 1685 !).

FL. : Mar. 1889 (S.).

DISTRIB. : Arabia.

4. A. vaccillans Forsk. Fl. Aeg.-Arab. 74.

HABITAT : II. Ussil, 1,400 m. (S. 1350) ; near Menacha, 2,300 m. (S. 1497, 1623).

FR. : Feb. 1889 (S.).

DISTRIB. : Arabia.

Vern. name : *Cher* (S.).

5. A. sabaea Schweinf. in Bull. Herb. Boiss. II. App. II (1894) 74.

HABITAT : II. Wady Madfar near Hodjela, 700 m. (S. 941 !); Aggara near Hodjela, 600 m. (S. 1010 !); Ussil, 1,400 m. (S. 1344 !).

FR. : Jan. 1889 (S.), Feb. 1889 (S.).

DISTRIB. : Arabia.

OBSERV. : Notizblatt Konig. bot. Gart. Berlin (1895) 425.

Vern. name : *Geschb.* (S.).

6. *A. rubroviolacea* Schweinf. in Bull. Herb. Boiss. II, App. II (1894) 71.

HABITAT : II. Top of Shibam near Menacha, 2,900 m. (S. 1658 !).

FL. : Mar. 1889 (S.).

FR. : Mar. 1889 (S.).

OBSERV. : Figd. for Herb. Kew and for Bot. Mag. t. 7882.

Vern. name : *Ssabr* (S.).

7 *A. pendens* Forsk. Fl. Aeg.-Arab. 74 ; Bot. Mag. t. 7827.

HABITAT : II. Above Ussil, 1,500 m. (S. 1222 !); in Wady Nahemi above Attara, 2,000 m. (S. 1751); Jebel Bura, 900 m. (S. 363, 1845).

FL. : Feb. 1889 (S.).

DISTRIB. : Arabia.

Vern. name : *Arrar* (S.).

8. *A. tomentosa* Defl. Voy. Yemen (1884) 211.

HABITAT : II. Yaman (Defl. !).

DISTRIB. : Arabia.

9. *A. vera* L. Sp. Pl. 320, var. *officinalis* Forsk. descr. 72, 74.

HABITAT : II. Badjil, 200 m. (S. 531); foot of Jebel Bura near Hille, 600 m. (S. 360); at Chalife, 300 m. (S. 182); at the foot of Jebel Melhan, 600 m. (S. 658).

FL. : Jan. 1889 (S.).

DISTRIB. : Arabia.

10. *A. vera* L. var. *angustifolia* Schweinf. in Bull. Herb. Boiss. App. II (1894) 62.

HABITAT : II. Jebel Bura near Hille, 600 m. (S. 305).

FL. : Jan. 1889 (S.).

DISTRIB. : Yaman.

17. *Kniphofia* Moench.

1. *K. sumarae* Defl. Voy. Yemen, 210.

HABITAT : II. Yaman (Defl. !).

DISTRIB. : Arabia.

18. *Asparagus* Tourl.

1. *A. racemosus* Willd. Sp. Pl. II, 152.

HABITAT : II. Jebel Bura, 900-1,200 m. (S. 487).

III. Dhofar Mts., 480 m. (Bent 189 !).

DISTRIB. : India, Orient, tropical Africa, Australia.

2. *A. asiaticus* L. Sp. Pl. 313.

HABITAT : II. Jedda (Schimp. 914 !); Ussil, 1,400 m. (S. 1164); Menacha, 2,000-2,400 m. (S. 1613; 1505); western slope of Jebel Bura above Hille, 900 m. (S. 423).

FL. : Feb. (S.).

FR. : Dec. 1837 (Schimp.).

DISTRIB. : India, Orient, tropical and S. Africa.

3. *A. stipularis* Forsk. Fl. Aeg.-Arab. (1775) 72.

HABITAT : I. Sinai (Holland 111a !); Arabia Petraea (McDonald !).

DISTRIB. : Mediterranean region, Canary Islands.

4. *A. africanus* Lam. Encycl. I, 295.

HABITAT : III. Hills near Dobaibah, 1,200 m. (Lunt 217 !); South coast, el-Hami (S. 190).

DISTRIB. : Arabia, S. Africa.

5. *A. officinalis* L. Sp. Pl. 313.

HABITAT : II. Jebel Bura, cultivated in the coffee region, 1,000 m. (S. 488); Jebel Melhan, 1,000 m. (S. 864).

DISTRIB. : Europe, Caucasus, Siberia, Arabia.

Vern. name : *Ssûfel herr* (S.) *Cat's hair*.

6. *A. scaberulus* Rich. Tent. Fl. Abyss. II, 320.

HABITAT : II. Yaman.

DISTRIB. : Arabia, Abyssinia.

CIX. COMMELINACEAE.

1. *Cyanotis* D. Don.

1. *C. foecunda* DC. ex Hassk. Commel. Ind. 110.

HABITAT : II. Arabia (Botta !).

DISTRIB. : Arabia, Abyssinia.

2. *C. nyctitropa* Defl. in Bull. Soc. Bot. Fr. XLIII, 234.

HABITAT : II. Yaman Haifan (Defl.).

DISTRIB. : Arabia.

2. *Aneilema* R. Br.

1. *A. Forskalei* Kunth Enum. IV, 71.—*Commelina tuberosa* Forsk. descr. 12.—*Aneilema Ehrenbergii* Clarke in DC. Mon. III, 227, 228.
—*A. tacazzeanum* Hochst. in Clarke, DC. Mon. III, 222.

HABITAT : II. Jebel Bura, 600-900 m. (S. 289); foot of Jebel Melhan, 600 m. (S. 698); Regma near Hodjela, 900 m. (S. 944); Aggara near Hodjela, 600 m. (S. 1055).

FL. : Jan.-Feb. 1889 (S.).

DISTRIB. : Yaman, Eritrea.