IRIDACEAE (D. J. L. Geerinck, Bruxelles)¹

Perennial herbs, often with bulbs, tubers or rhizomes, sometimes undershrubs. Leaves simple, equitant (except in Crocus), with parallel nerves. Inflorescences terminal or axillary, in cymes, spikes or panicles, sometimes very contracted or flowers solitary, bracteate and with 1 or 2 spathes. Flowers bisexual, actinomorphic to zygomorphic, often marcescent. Tepals free or united into a tube, in 2 whorls, the inner ones rarely inconspicuous (Patersonia). Stamens 3 or exceptionally 2 with 1 staminode (in the Australian Diplarrhena), free or united into a tube, basifixed or dorsifixed, opposite to the outer tepals. Ovary inferior (or superior in the Tasmanian Isophysis), 3-celled with axillary placentas; style entire or trifid, sometimes tepaloid; stigmas 3 or 6, terminal or sometimes axillary, alternating with or opposite to the outer tepals; ovules generally numerous. Fruit capsular, dehiscing loculicidally, apically or irregularly. Seeds angular, flat or globose, sometimes winged.

Distribution. Cosmopolitan, with c. 60 genera and c. 800 spp., predominantly in the tropics and the southern hemisphere. In Malesia: only two Australasian genera each with 1 sp., and four exotic ones introduced and naturalized.

Many are cultivated in botanic gardens and occasionally in private gardens; see for an elaborate treatment BACKER, Handb. Fl. Java 3 (1924) 116-130 and BACKER & BAKH. f. Fl. Java 3 (1968) 144-154. Ecology. Both native species are characteristic mountain plants.

Morphology. This family is usually herbaceous, but in a few genera (Klattia, Nivenia, Patersonia, Witsenia) stems may be woody at the base. The leaves are equitant and are laterally compressed, the two halves are free at the sheathing base and gradually fused to the top. The flowers are actinomorphic to distinctly zygomorphic with intermediate forms, sometimes in the same genus.

Uses. Belamcanda chinensis and Eleutherine palmifolia are used for medicinal purposes, probably mainly on account of their glucosides; cf. HEYNE, Nutt. Pl. (1927); BURKILL, Dict. (1935); QUISUMBING, Med. Pl. Philip. (1951).

KEY TO THE GENERA

1. Flowers all sessile. Tepals united into a tube. Capsules included in bracts or spathes.

2. Flowers actinomorphic. Inner tepals inconspicuous. Stamens united into an undivided or trifid tube. 1. Patersonia

5. Gladiolus

- 3. Tepals clawed. Stamens free.
- 4. Cormogenous herbs. Stamens appressed against the back of the style-arms. Ovary not beaked.
- 3. Belamcanda 3. Tepals not clawed.
- 5. Tepals shortly connate, subequal. Stamens united into a tube, rarely nearly free. Caespitose to

1. PATERSONIA

R.Br. ex Ker-GAWL. Bot. Mag. (1807) t. 1041, nom. cons.; Prod. Nov. Holl. (1810) 304; BTH. Fl. Austr. 6 (1875) 400; GEERINCK, Bull. Jard. Bot. Nat. Belg. 44 (1974) 41. — Genosiris LABILL. Nov. Holl. Pl. Sp. 1 (1804) 13, t. 9. — Fig. 1-3.

Caespitose to rhizomatous herbs or undershrubs. Inflorescences terminal, in few-flowered contracted cymes, each with 2 spathes. Flowers actinomorphic, sessile, bluish to purple, exceptionally yellow or whitish, Tepals dimorphic, united into a long and filiform tube at the base, the inner lobes inconspicuous. Stamens 3,

(1) With co-operation by the General Editor.



Fig. 1. Patersonia lowii STAFF on Mt Losir, Gajolands, N. Sumatra, at c. 2400 m altitude (Photogr. DE WILDE-DUYFJES, April 1975, n. 16390).

united into an undivided or trifid tube. Ovary cylindrical, lanate; style entire; stigmas 3, subfoliaceous, alternating with the outer tepals. Capsules loculicidal, included. Seeds angular or ellipsoidal.

Distr. Australia and Tasmania (12 spp.), and Malesia (1 sp.). Ecol. Open, low shrubberies, heaths and sedge-lands, 2000-3500 m.

Note. In sterile state the habit of Patersonia is strikingly resembling that of the sedge genus Machaerina. A specimen mentioned by WENT f. (Nova Guinea 14, 1924, 114) as Patersonia from Mt Goliath (DE KOCK 50) belongs to Machaerina, as corroborated anatomically by Dr P. BAAS.

1. Patersonia lowii STAPF, Trans. Linn. Soc. Bot. II, 4 (1894) 241, t. 20, f. 7-9; MERR. Philip. J. Sc. 2 (1907) Bot. 268; En. Born. (1921) 119; En. Philip. 1 (1923) 220; Not. Nat. Ac. Nat. Sc. Philad. n. 47 (1940) 2. — P. borneensis STAPF, Trans. Linn. Soc. Bot. II, 4 (1894) 241; GIBBS, J. Linn. Soc. Bot. 42 (1914) 165; MERR. En. Born. (1921) 119. — P. novoguineensis GIBBS, Arfak (1917) 101; WENT f. Nova Guinea 14 (1924) 114, incl. var. auriculata WENT, I.c.; HATUS. Bot. Mag. Tokyo 56 (1942) 426. Fig. 1-3.

Tufted herb, 15-60 cm high. Leaves basal to subbasal, flat to \pm biconvex, 5-60 cm by 3-6 mm,

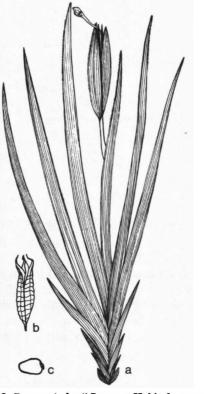
Fig. 2. Patersonia lowil STAPF. a Habit, b. capsule, both nat. size, c. seed, × 5 (a van Royen & SLEUMER 7102, b-c BRASS 22259).

reddish or rarely whitish tomentellous to glabrescent along the margins towards the top, \pm glaucous. *Inflorescences* equalling the leaves or nearly so; peduncle 8-50 cm long, glabrous, the lower part surrounded by a persistent central leaf; spathes suboval to narrowly suboval, $2^{1}/_{2}-5$ cm by 7-12 mm, dark brown-orange, greyish when growing old, distinctly striate, with a red-hairy line on the keel to glabrous. Flowers bluish to pale mauve or purple, sometimes whitish; perigonetube $2-2^{1}/_{2}$ cm long, the outer lobes 8-16 by 6-10 mm. Staminal tube entire; anthers yellow. Ovary c. 5 mm long. Capsules 2-3 cm long; valves 3-4 mm wide. Seeds c. 2 mm, black.

Distr. Malesia: Sumatra (Gajolands: Mt Losir), Borneo (Mts Kinabalu and Murud, Kalabit Highlands), Philippines (Mindoro), New Guinea (Tamrau Range, Arfak Mts, Mamberamo River, Central to Milne Bay Districts). Fig. 4.

Ecol. Open shrubby vegetation or open forests, sedge meadows and heaths, on stony or impervious

Fig. 3. Patersonia lowii STAPF. Same locality as in fig. 1.





clay soils, often gregarious, 2000-3500 m. Fl. fr. Dec.-Aug. Flowers open early in the morning but become soon marcescent.

Vern. New Guinea: atetdzjii, Mt Arfak, Manikiang lang.

Notes. The sizes of the tepals and of the seeds have been taken from the original descriptions of the synonymous taxa. A variable species concerning the indument; the disjunct populations are not uniform. It seems to be allied to the widely distributed Australian *P. fragilis* (LABILL.) ASCHERSON & GRAEBNER, which differs by glabrous leaves and spathes, inflorescences much shorter than the leaves and the lower part of the peduncles never surrounded by a central leaf.

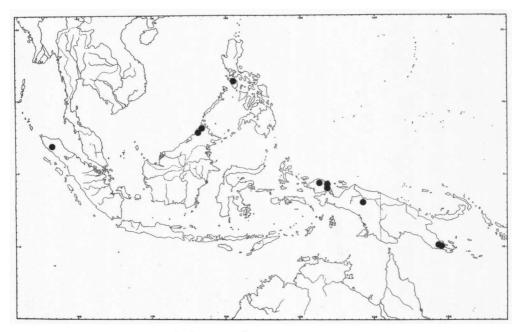


Fig. 4. Range of Patersonia lowii STAPF.

2. SISYRINCHIUM

LINNÉ, Sp. Pl. (1753) 954; JOHNSTON, J. Arn. Arb. 19 (1938) 376; FOSTER, Contr. Gray Herb. 166 (1948) 28. — *Renealmia* R.Br. Prod. (1810) 592, pro parte, non L. f. 1781. — Fig. 5–6.

Caespitose to rhizomatous herbs. *Inflorescences* axillary or terminal in panicles of fan-shaped and few-flowered cymes or of many-flowered clusters, each with 1–2 spathes. *Flowers* actinomorphic, pedicelled, bluish or yellowish. Tepals subequal, shortly connate at the base. *Stamens* 3, united into a tube at the base, rarely nearly free. *Ovary:* style trifid, the lobes filiform; stigmas 3, small, alternating with the outer tepals. *Capsules* exserted. *Seeds* small, globose.

Distr. About 100 spp. in Central and South America, 1 native sp. in New Zealand, Australia and East Malesia (New Guinea); also one species introduced.

The Papuan-Australasian species was mostly arranged in the closely allied genus *Libertia* SPR. However, the tepals are not dimorphic but about similar so that it must be arranged in *Sisyrinchium*.

KEY TO THE SPECIES

1.	Leaves cauline, distichous. Inflorescences in 1-2-flowered, contracted cymes, a few at a cauline leaf	
	Flowers c. 5 mm long. Stamens nearly free, glabrous	ı
1.	Leaves mostly basal. Inflorescences in 3-6-flowered cymes, generally 2 at a cauline leaf. Flowers c. 7 mm	
	long. Stamens united in a hairy tube, trifid at the top 2. S. micranthum	ı

1. Sisyrinchium pulchellum (R.BR.) F.V.M. Fragm. Phyt. Austr. 7 (1870) 92; Trans. R. Soc. Victoria 1 (1889) 34; GEERINCK, Bull. Jard. Bot. Nat. Belg. 44 (1974) 59. — Renealmia pulchella R.BR. Prod. (1810) 592, to replace S. pulchellum R.BR. I.c. 305. — Libertia pulchella SPR. Syst. Veg. 1 (1824) 169; LANE-POOLE, For. Res. (1925) 77; LAUT. Bot. Jahrb. 62 (1929) 462; STEEN. Bull. Jard. Bot. Btzg III, 13 (1934) 220; HOOGL. Blumea 4 (1958) 235; BALGOOY, Pac. Pl. Areas 2 (1966) 286; L. MOORE, New Zeal. J. Bot. 5 (1967) 267. — Fig. 5a.

Glabrous herb, 10-35 cm high. Leaves cauline, distichous, linear, 4-22 cm by 1-10 mm. Inflorescences in 1-2-flowered, contracted cymes, a few at a cauline leaf, each cyme with 1 spathe: this 4-15 (-40) by 2-6 mm. Pedicels to 4 cm. Flowers c. 5 mm long. Tepals white to yellowish, c. 4 by 1^{1}_{2-2} mm. Stamens nearly free, filaments c. 4 mm, anthers 1 mm long. Ovary ellipsoid, c. 1 mm long; style with undivided part 1-2 mm, the lobes 1-2 mm long. Capsules globular, 2-5 mm \emptyset ; valves c. 2 mm wide. Seeds black, 1 mm \emptyset .

Distr. New Zealand, Australia (New South Wales, Victoria, Tasmania), and *East Malesia*: New Guinea (Lake Habbema area and Mt Antares in West, many localities in East). Fig. 6.



Fig. 5. Sisyrinchium pulchellum (R.BR.) F.V.M. a. Inflorescence, nat. size. — S. micranthum CAV. b. Inflorescence, nat. size (a KALKMAN 4497, b VAN ROYEN 16028).

Ecol. Open forests and shrubby vegetation, in tree fern heath and alpine grassland, common on Mt Sarawaket in *Libocedrus-Dacrydium* forest (LANE-POOLE), 2400-3700 m. *Fl.* mostly Jan.-Aug.

Note. Moore (l.c. 255-275) studied the variation in New Zealand and distinguished three species among which are two polyploids.

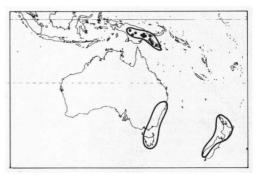


Fig. 6. Range of Sisyrinchium pulchellum (R.Br.) F.v.M.

2. Sisyrinchium micranthum CAV. Diss. Bot. 6 (1788) 345, t. 191; BACK. Handb. Fl. Java 3 (1924) 125; JOHNSTON, J. Arn. Arb. 19 (1938) 390; FOSTER, CONT. Gray Herb. 166 (1948) 31; WILLIS, Handb. Fl. Victoria 1 (1962) 335; STEEN. Blumea 15 (1967) 154; BACK. & BAKH. f. Fl. Java 3 (1968) 150. — Fig. 5b.

Siender herb, 5–25 cm high, glabrous, with a flat stem. Leaves few, mostly basal, linear, 3–12 cm by 1–5 mm. Inflorescences in 3–6-flowered cymes, generally 2 at a cauline leaf, each cyme with 2 spathes, outer spathe 20–30 mm long, inner spathe 15–25 mm long, both 1–2 mm wide. Flowers c. 7 mm long. Tepals yellow with red or brown markings, c. 6 by 1 mm. Stamens united in a hairy tube, trifid at the top; filaments c. 1 mm long; anthers $\frac{1}{2}$ mm long. Ovary ellipsoid, laxly hairy, c. 1 mm long; style with the undivided part c. 1 mm long, the lobes c. $\frac{1}{2}$ - $\frac{3}{4}$ mm long. Capsules globose, 2–3 mm long; valves c. 2 mm wide. Seeds black, 1 mm \emptyset .

Distr. Southern to Central America; naturalized in Australia, New Caledonia, Fiji, New Zealand, and also in *Malesia*: W. Java (Tjibodas), E. New Guinea (Morobe Distr.: Edie Creek), perhaps elsewhere.

Ecol. In the vicinity of the Tjibodas Botanic Garden as a weed in grassland and waste places, at c. 1450 m, certainly escaped from the garden. In Papua at c. 1950 m almost certainly introduced from Australia where it was first recorded about 1870. Poisonous to stock.

3. BELAMCANDA

ADANS. Fam. 2 (1763) 60.

Rhizomatous herbs. Inflorescences terminal, in panicles of flowered and corvmbiform cymes, each with 2 spathes. Flowers actinomorphic, pedicelled, yellowish to orange. Tepals subequal, shortly connate, clawed. Stamens free. Ovary beaked; style trifid, the lobes short; stigmas 3, small, alternating with the outer tepals. Capsules exserted. Seeds large, globose.

Distr. Monotypic, native of China and Japan, cultivated in Malesia and many other countries and sometimes naturalized.

1. Belamcanda chinensis (L.) DC. in Redouté, Liliac. 3 (1805) t. 121; Koord. Minah. (1898) 313; C. B. ROB. Philip. J. Sc. 6 (1911) Bot. 196; KOORD. C. B. ROB. Philip. J. Sc. 6 (1911) Bot. 196; KOORD. Exk. Fl. Java 1 (1911) 312; MERR. Fl. Manila (1912) 152; Philip. J. Sc. 11 (1916) Bot. 260; En. Philip. 1 (1923) 220; BACK. Handb. Fl. Java 3 (1924) 124; HEYNE, Nutt, Pl. (1927) 461; GAGNEP. Fl. Gén. I.-C. 6 (1934) 675; BURK. Dict. (1935) 315; STEEN. Fl. Sch. Indon. (1949) 147; QUIS. Med. Pl. Philip. (1951) 181; HENDERS. Mal. Wild Fl. Monoc. (1954) 168, f. 98; OHWI, Fl. Japan (1965) 316; BACK. & BAKH. f. Fl. Java 3 (1968) 149. — Balem-canda schularmani RHEEDE. Hort. Mal. 11: Balem-canda schularmani RHEEDE, Hort. Mal. 11: 36. — Pardanthus chinensis LINNÉ, Sp. Pl. (1753) 36. — Pardanthus chinensis KER-GAWL. in König & Sims, Ann. Bot. 1 (1805) 247; BL. En. Pl. Jav. (1827) 26; ZOLL. Syst. Verz. 1 (1854) 70; FILET, Pl. Bot. Tuin Weltevreden (1855) 13; MIQ. FL Ind. Bat. 3 (1859) 579; BLANCO, Fl. Filip. ed. 3 (1877-83) t. 376.

Corymbosely branched, glabrous herb, $1-1^{1/2}$ m high. Leaves distichous, basal and cauline, broadly linear, 30-60 by 2-4 cm, glaucous. Inflorescences in 6-12-flowered cymes, once or twice branched; spathes membranous, c. 10 by 4 mm. Pedicels 2-4 cm, persistent. Tepals yellowish to orange, with red spots, unguiculate, obovate, 25-35 by c. 7 mm, outer ones largest. Filaments filiform; anthers c. 10 mm long. Ovary ellipsoid, c. 5 mm long; style-arms gradually thickened upwards. Capsules obovate, 15–20 mm long; valves 8–12 mm wide. Seeds shining black, 5 mm \emptyset .

Distr. Native in China and Japan; in Malesia introduced and cultivated, locally naturalized (Sumatra, Java, S. Celebes, Philippines, Moluccas: Morotai, Banda, Ceram); cultivated and locally naturalized in many tropical and subtropical coun-tries, e.g. Hainan, Taiwan (Formosa), Tonga, etc. Ecol. In Java it is mainly naturalized in the eastern part between 750 and 2100 m, occurring in

thickets and forest edges, and said not to grow well at low altitude.

The flowers open in the forenoon and have withered by midday.

Uses. Heyne and BURKILL (Il.cc.) mention usage for several minor medicinal purposes, the dried rhizome being used as a purgative and for com-plaints of the chest and liver, etc.

Vern. Sumatra: piso-piso, Batak. Java: akar tjamaka, djamaka, gëgëbangan brodjo lintang, suliga, S, sëmprit, wordi, J. Celebes: karimënga kulo, katna, këtëp, këtëw, kiris, Minahasa, Alf. lang., tagari, Bonthain. Philippines: abinaco.

4. ELEUTHERINE

HERBERT, Bot. Reg. 29 (1843) t. 57, nom. cons.

Bulbous herbs. Inflorescences axillary in few-flowered and contracted cymes, each in 2 spathes. *Flowers* actinomorphic, pedicelled, whitish. Tepals free, the inner ones smaller. Stamens 3, free. Style deeply trifid; stigmas 3, small, alternating with the outer tepals. Capsule loculicidal, exsert. Seeds ellipsoidal to angular.

Distr. In America 2 spp. and according to GAGNEPAIN (Fl. Gén. I.-C. 6, 1934, 676) 2 spp. in Indo-China. Introduced in Malesia, and locally naturalized.

1. Eleutherine palmifolia (L.) MERR. Philip. J. Sc. 7 (1912) Bot. 233; Fl. Manila (1912) 153; Sp. Blanc. (1912) Bol. 235, Pl. Manna (1912) 155, Sp. Blanc. (1918) 104; En. Philip. 1 (1923) 220; QUIS. Med. Pl. Philip. (1951) 182; BACK. & BAKH. f. Fl. Java 3 (1968) 150. — Sisyrinchium palmifolium LINNE, Mant. 1 (1767) 122. — Sisyrinchium bulbosum MILL. Gard. Dict. ed. 8 (1768) n. 3. — Ixia americana AUBL. Pl. Guian. 1 (1775) 33. — Moraea plicata Sw. Fl. Ind. Occ. 1 (1797) 82. — Antholyza mericana (non L. BLANCO, El. Ellin (1837) 24: ed. 3 meriana (non L.) BLANCO, Fl. Filip. (1837) 24; ed. 3,

1 (1877) t. 100; MERR. Publ. Gov. Lab. Philip. 27 1 (1877) t. 100; MERR. Pdb1. Gov. Lab. Philip. 27 (1905) 85. — *E. plicata* HERBERT, Bot. Reg. 29 (1843) t. 57. — *E. bulbosa* (MILL.) URBAN in Fedde, Rep. 15 (1918) 305; LÉONARD, Bull. Soc. R. Bot. Beig. 84 (1951) 55. — *E. americana* MERR. *ex* HEYNE, Nutt. Pl. Ned. Ind. ed. 2, 1 (1922) 502; BACK. & SLOOT. Handb. Thee (1924) 91, t. 91; BACK. Handb. Fl. Java 3 (1924) 126; HEYNE, Nutt. Pl. (1927) 462. Herb, 30–60 cm high, glabrous; bulb red, ovoid,

 $2^{1}/_{2}$ -5 cm long. Leaves basal 3-4 from each bulb, and cauline, narrowly elliptic, plicate-nerved, 25-60 by $1-2^{1}/_{2}$ cm. Inflorescences in 4-10-flowered cymes; spathes 12-16 mm long, green. Flowers very fugacious, white. Tepals obovate, c. 15 mm long. Stamens yellow to orange, 8-10 mm long. Ovary ellipsoidal, c. 2 mm long; style-arms filiform, yellow; stigmas white. Capsules globose, c. 6 mm long. Seeds dark brown, c. 2 mm \emptyset .

Distr. Native in tropical America, cultivated and naturalized in tropical Africa and in Malesia: W. Java, W. Borneo, and the Philippines (Luzon, Leyte, Negros, Mindanao); in Java already noticed ± 1820.

Ecol. A weed, finally tufted, in estates and waste places, which multiplied by its tubers; c. 150-1500 m. In Java the scentless flowers open at about 5 o'clock in the afternoon, but have already wilted at about 7 o'clock.

Uses. According to QUISUMBING I.c. in the Philippines macerated bulbs are applied on the stomachs of children to relieve gas pains, and a decoction is diuretic. According to HEVNE *l.c.* this finally strongly stooling, tufted plant is cultivated and its bulbs have various applications in native medicine: diuretic, purgative, emetic, against dysentery, jaundice, etc. Vern. Vijfuursbloem, D. Java: babawangan, b.

beureum, bawang sabrang, b. sieum, S, bawang kapal, M, brambang sabrang, luluwan sapi, těki sabrang, J. Philippines: ahos-áhos, C. Bis., bakong sa Persia, mala-bauang, rosas sa Siam, Tag., hagusahis, S. L. Bis., palmilla, Spanish.

Note. The tepals are sometimes numerous, up to 15; the number of the stamens is sometimes up to 8; the ovary is sometimes 4-11-locular with the same number of style-arms.

5. GLADIOLUS

LINNÉ, Sp. Pl. (1753) 36; GEERINCK, Bull. Jard. Bot. Nat. Belg. 42 (1972) 269; LEWIS & OBERMEYER, J. S. Afr. Bot. Suppl. 10 (1972).

Cormogenous herbs. Inflorescences terminal or sometimes axillary in spikes, rarely secund. Flowers \pm zygomorphic, sessile, various in colour, each in a single spathe. Tepals unequal, united into an often curved tube. Stamens 3, often arched, free. Style entire; stigmas 3, obovate, alternating with the outer tepals. Capsule loculicidal, included. Seeds often winged.

Distr. About 180 spp. in Africa, South Europe and West Asia, one locally naturalized in Malesia.

1. Gladiolus natalensis (ECKLON) REINW. ex HOOK. Bot. Mag. (1831) t. 3084; GEERINCK, Bull. Jard. Bot. Nat. Belg. 42 (1972) 281; Lewis & OBERMEYER, J. S. Afr. Bot. Suppl. 10 (1972) 44.

var. natalensis.

Stems 50-150 cm. Leaves almost basal, broadly linear, up to 30 by 4-5 cm. Inflorescences terminal in 2-25-flowered spikes; spathes 4-8 cm long. Flowers yellowish to pinkish, often with brown markings. Perigone-tube curved, 2-5 cm long, lobes unequal, the upper $4^{1/2}-5$ cm, the outer laterals $3^{-41}/_2$ cm, the inner laterals 2^{-3} cm and the lower $2^{1}/_2^{-31}/_2$ cm long. Filaments curved, $4^{1}/_2^{-6}$ cm; anthers $1^{1}/_4^{-13}/_4$ cm. Ovary ellipsoid, 5–8 mm long; style curved, 2–7 cm; stigmas 5–7 mm. Capsule ellipsoid, 2–5 cm long; valves 7–10 mm \emptyset . Distr. Tropical and southern Africa, naturalized

in Malesia: Philippines (Luzon).

6. TRIMEZIA

SALISB. ex HERBERT, Bot. Reg. 30, Misc. (1844) 88; DIELS, Pfl. Fam. ed. 2, 15a (1930) 497; FOSTER, Rhodora 64 (1962) 307.

Cormogenous herbs. Inflorescences axillary in few-flowered cymes, each in 2 spathes. Flowers actinomorphic, pedicelled, yellowish to reddish. Tepals free, clawed, the inner ones shorter and narrower with recurved tops. Stamens free, against the back of the style-arms. Style trifid, the lobes broadly flat, bilobed; stigmas small, opposite to the outer tepals. *Capsules* apically dehiscent, with 3 pores exserted beyond the spathe. Seeds globose to angular.

Distr. A few species in Central and tropical America, one introduced in Malesia (Malaya, West Java).

1. Trimezia martinicensis (JACQ.) HERBERT, Bot. Reg. 30, Misc. (1844) 88; BACK. Handb. Fl. Java 3 (1924) 121 ('Trimeza'); HENDERS. Mal. Wild Fl. Monoc. (1954) 168, f. 98; FOSTER, Rhodora 64 (1962) 308; BACK. & BAKH. f. Fl. Java 3 (1968) 148. — Iris martinicensis JACQ. En. Pl. Carib. (1760) 12. — T. lurida SALISB. Trans. Hort. Soc. 1 (1812) 308; HENDERS. Gard. Bull. S. S. 4 (1928) 341. — Cipura martinicensis KTH in H. B. K. Nov. Gen. Sp. 1 (1816) 320.

Glabrous herb, 100–150 cm. Leaves basal to cauline, linear, 20–100 cm long and 8–12 mm wide. Inflorescences in 3–6-flowered cymes, solitary or binate; spathes $2-2^{1}/_{2}$ cm long, 10–25 cm peduncled. Pedicels $1^{1}/_{2}-3^{1}/_{2}$ cm. Flowers yellow, brownish at the base. Outer tepals obovate, erect

to patent, 19–25 mm long and 10–13 mm wide; inner tepals narrower, S-shape curved. *Stamens* 3-4 mm long. *Ovary* ellipsoidal; style-arms 5-7 mm long, shortly bilobed. *Capsule* ellipsoid, 13–20 mm long. *Seeds* brown, superficially ribbed.

long. Seeds brown, superficially ribbed. Distr. Native of Mexico, cultivated and locally naturalized in *Malesia*: Malaya, West Java.

naturalized in *Malesia*: Malaya, West Java. Ecol. In sunny or slightly shaded localities, between grass, originally in Malaya at Kuala Lumpur, but now not uncommon in Malaya (HENDERSON), in West Java at Bogor on and around a native cemetery (BACKER), in both cases escaped from a Botanic Garden, below 250 m. Flowers expand in the forenoon and have withered by midday.

Vern. Forenoon yellow flag, E.