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Mr. A. Meebold

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[1911.

XLVIII.—INDIAN SPECIES OF IMPATIENS.

ON SOME WESTERN PENINSULAR INDIAN BALSAMINEAE
COLLECTED BY MR. A. MEEBOLD.

J. D. HOOKER.

In *Kew Bulletin*, 1910, p. 291 et seq., I described a considerable number of Indian *Impatiens* for the most part collected by Mr. Meebold* in 1908, of which seven were from the Western Peninsula, especially from the Western Ghat and Mysore. Encouraged by the publication of these new and interesting species, Mr. Meebold in a subsequent Western Peninsular journey (1910) paid special attention to the *Impatiens* which he met with. On this occasion the countries visited were the Nilgiri Hills, Cochin and Travancore, and the collection of Balsams was sent to me for study and transmission to the Herbarium of Breslau, with permission to retain any duplicates for that of Kew. On examination I found the collection to consist of 21 species under 44 numbers. Of those the following six may I think be regarded as hitherto undescribed; of these three *I. herbicola*, *I. rivulicola* and *I. pallidiflora*, all from Travancore, differ from the widely distributed *I. chinensis* chiefly in the remarkably small flowers, capsules and seeds.

CONSPECTUS OF SPECIES DESCRIBED.

Inflorescentia simpliciter pedicellata :—

Folia omnia opposita, sepala 2 anguste linearia, labelli limbum
aequantia :—

Alae bilobae :—

Labellum ecalcaratum ... 1. *I. herbicola*.

Labellum calcaratum ... 2. *I. rivulicola*.

Alae simplices; lobus basalis minimus ... 3. *I. pallidiflora*.

Folia superiora verticillata; sepala brevissima :—

Labelli calcar limbo paullo brevius ... 4. *I. macrocarpa*.

Labelli calcar limbo multo longius ... 5. *I. cochinnica*.

Inflorescentia pedunculata; pedunculi 2-4-flori ... 6. *I. verecunda*.

* Mr. Meebold's Indian researches are, I believe, in the main ethnological.

(21652-6a.) Wt, 119-9. 1125. 11/11. D & S.

1. *I. herbicola*, *Hk. f.*; sp. nov.; herba gracilis *I. chinensi*, L., affinis, differt foliis anguste linearibus 2–3 mm. latis integerrimis, floribus minutis, labello angusto ecalcarato capsulisque parvis oligospermis.

Herba glaberrima, 4–6 dm. alta, minutiflora, caule erecto terete parce ramoso, ramis erectis, internodiis elongatis. *Folia* 5–6 cm. longa, opposita, sessilia vel brevissime petiolata, coriacea, anguste linearia, acuminata, integerrima, basi truncata vel cordata; glandulae infrapetiolares minutae, subulatae vel pulvinatae, vel 0. *Inflorescentia* simpliciter pedicellata; pedicelli solitarii vel 2–3-ni, florentes 0.5–1 cm. longi, fructiferi 2–3 cm. longi, erecti vel patuli. *Flores* 5–6 mm. expansi, albi. *Sepala* 2, linearia, acuminata, 4–5 mm. longa, uninervia. *Vexillum* orbiculare, 4 mm. latum, recurvum, costa dorso crasse carinata, apiculata. *Alae* stipitatae, 7–8 mm. longae; lobus basalis parvus, oblongus, suberectus; distalis rotundatus vel semilunaris; auricula dorsalis prominens. *Labelli* limbus scaphiformis, lanceolatus, 4–5 mm. longus, horizontalis, ecalcaratus vel imo basi subtus gibbo instructus. *Filamenta* subulata. *Ovarium* ovoideum. *Capsulae* parvae, gibbosim ovoideae, turgidae, 0.7–1 cm. longae, stipitatae, acute rostratae, oligospermae. *Semina* rotundata, compressa, 2–5 mm. diametro, nitida, atra.

TRAVANCORE. Udambanshola: in the grass, 1525 m., *A. Meebold*, 1311; Pecamode, 1372 m., *A. Meebold*, 12,924.

2. *I. rivulicola*, *Hk. f.*; sp. nov.; *I. chinensi*, L., affinis, differt foliis angustioribus, floribus parvis, labelli calcare limbo brevior capsulisque 0.8–1 cm. longis oligospermis seminibus minutis.

Herba gracilis, 2–3 dm. alta, glaberrima, parviflora, caule simplici tetragono, internodiis elongatis. *Folia* opposita, 3–4 cm. longa, brevissime petiolata, coriacea, linearia, acuta vel acuminata, integerrima vel remote minute spinuloso-serrulata, basi cordata, subtus pallida, nervis utrinque 3–4; glandulae infrapetiolares subulatae. *Inflorescentia* simpliciter pedicellata; pedicelli solitarii vel 2–3-ni, florentes 1–1.5 cm. longi, fructiferi 2–2.5 cm. longi, deflexi. *Flores* expansi 0.5–1 cm. longii exsiccant, violacei, lobo distali alarum flavido. *Sepala* 2, anguste linearia, acuminata, 1 cm. longa. *Vexillum* parvum, orbiculare, costa dorso carinata, mutica. *Alae* 1–1.6 cm. longae, late stipitatae; lobus basalis parvus, oblongus, rectus vel decurvus, distalis semilunaris, crassiusculus; auricula dorsalis parva. *Labellum* cymbiforme, acutum; calcar limbo brevius, incurvum. *Filamenta* brevia. *Capsulae* parvae, 0.8–1 cm. longae, pendulae, sessiles, ovoideae, acuminatae, oligospermae. *Semina* orbicularia, vix 2 mm. diametro, atra, nitida.

TRAVANCORE. Puriar Valley: borders of streams, 1220 m., *A. Meebold*, 13,755.

3. *I. pallidiflora*, *Hk. f.*; sp. nov.; *I. chinensi*, L., affinis, differt ramulis saepe pubescentibus, floribus multo minoribus, alis longe stipitatis, lobo basali minimo vel 0 et labelli calcare brevi.

Herba gracilis, 3–5 dm. alta, floribus inter minores, caule erecto subsimplici, ramulis saepe pubescentibus internodiis elongatis. *Folia* 3–5 cm. longa, opposita, breviter petiolata, firma, oblonga vel lineari-oblonga, acuta vel acuminata, integerrima vel minute spinuloso-serrulata, basi truncata vel rotundata, utrinque glabra vel

puberula, subtus pallida fere glauca, petiolo 1–2 mm. longo, nervis utrinque 2–4; glandulae infrapetiolares 0 vel setaceae. *Inflorescentia* simpliciter pedicellata; pedicelli solitarii, florentes foliis breviores, graciles, erecti, glabri vel puberuli, fructiferi foliis longiores. *Flores* ad 2 cm. expansi, rosei, exsiccati pallide flavi. *Sepala* 2, anguste linearia, acuminata, 6–7 mm. longa. *Vexillum* parvum, orbiculare, muticum, costa dorso vix carinata. *Alae* ad 1.5 cm. longae, longe stipitatae, stipite geniculatim incurvo; lobus basalis 0 vel ad basin stipitis minimus, distalis late dolabriformis, obtusus; auricula dorsalis stipiti alarum inserta. *Labelli* limbus cymbiformis, acutus; calcar limbo subaequilongum vel longius incurvum. *Filamenta* brevia, subulata. *Ovarium* sessile, rectum, anguste ovoideum, acutum.

TRAVANCORE. Devicolam: straggling amongst grass on a hill top, 2134 m., *A. Meebold*, 13,480.

Meebold describes this species as “almost tomentose,” with pink flowers, and records that it was only seen in this locality.

4. *I. macrocarpa*, *Hk. f.*; sp. nov.; *I. cuspidatae*, Wight & Arn., affinis, sed nullibi glauca nisi foliis subtus glaucis, sepalis longe cuspidatim acuminatis, capsulis 1.5–2 cm. longis seminibusque 5 mm. longis.

Frutex? glaberrima, parviflora, ramis elongatis longe nudis patulis. *Folia* 8–10 cm. longa, longe petiolata, infima opposita?, superiora 3–5-natim verticillata, firma, obovato-lanceolata, longe acuminata, serrulata, basi setosa et in petiolum nunc sparse setaceum 3–5 cm. longum sensim angustata, nervis utrinque 6–7; glandulae infrapetiolares 0? *Inflorescentia* simpliciter pedicellata; pedicelli solitarii vel bini, florentes petiolis subaequilongi, fructiferi 5–8 cm. longi, validi, apice decurvi. *Flores* ad 1.5 cm. expansi, albi? *Sepala* 2, parva, 4–6 mm. longa, ovata, longe cuspidatim acuminata, coriacea. *Vexillum* obcordato-reniforme, 1.5–2 cm. latum, costa tenui cuspidata. *Alae* breves, sessiles; lobus basalis amplius, oblongus vel obovatus, patens vel recurvus; distalis parvus, erectus, oblongus, obtusus; auricula dorsalis 0. *Labelli* limbus profunde cymbiformis, ad 6 mm. longus, longe cuspidatus; calcar limbo bis terve longius, robustum, incurvum. *Filamenta* brevia, subulata. *Ovarium* ovoideum, obtusum. *Capsulae* 1.5–2.2 cm. longae, oblique ovoideae, sessiles, obtuse rostratae, pendulae, polyspermae. *Semina* obovoidea, 5 mm. longa, minute granulata, castanea.

TRAVANCORE. Devicolam, 1829 m., *A. Meebold*, 13,462.

Described by Mr. Meebold as 4 metres high with rather weak long branches.

5. *I. cochinica*, *Hk. f.*; sp. nov.; *I. floribundae*, Wight, affinis, differt foliis non caudatim acuminatis, sepalis minutis ovatis, alis brevibus lobis subaequalibus.

Frutex? 4–5 dm. alta, glabra vel parce puberula, ramosa, parviflora, caule ramisque divaricatis rigidis. *Folia* alterna et apices versus ramulorum fasciculata, 6–10 cm. longa, petiolata, firma, ovata vel ovato-lanceolata, acuta vel acuminata, crenata, setulis interjectis 0 vel minimis, basi in petiolum 2–4 cm. longum gracilem angustata, nervis utrinque 6–10; glandulae infrapetiolares 0. *Inflorescentia* simpliciter pedicellata; pedicelli foliis breviores, in axillis inferioribus solitarii, in supremis quasi fasciculati, fructiferi

patuli vel deflexi, 3–5 cm. longi. *Flores* expansi ad 1 cm. longi, labello pubescente. *Sepala* 2, deltoideo-ovata, ad 1 mm. longa. *Vexillum* orbiculare, 2-lobum, sinu uncinatum. *Alae* breves, ad 8 mm. longae et latae, sessiles; lobi consimiles, late obcordati, basalis distali paullo minor; auricula dorsalis rotundata. *Labelli* limbus cymbiformis, 6 mm. longus, horizontalis acuminatus; calcar limbo triplo longius, gracile incurvum. *Filamenta* brevia, subulata. *Ovarium* fere rectum. *Capsulae* ad 1.5 cm. longae, breviter stipitatae, turgidae, gibbosim ovoideae, acuminatae vel rostratae, oligospermae. *Semina* late obovoidea, 2 mm. longa, pubescentia.

COCHIN. Kalvalay: near a stream, under trees, 610 m. *A. Meebold*, 12,183.

6. *I. verecunda*, *Hk. f.*; sp. nov.; *I. eleganti*, Bedd., proxima, differt foliis minoribus basi rotundatis, pedunculo breviori gracili lobo basali alarum parvo distalique amplo et calcare labelli limbo dimidio breviori.

Herba parva, 1–1.5 dm. alta, glaberrima, flaccida, parviflora, caule simplici vel ramoso, ramis patulis. *Folia* 4–6 cm. longa, alterna, petiolata, membranacea, ovata vel ovato-rotundata, acuminata vel acuta, crenata, setulis interjectis 0, basi rotundatis, nervis utrinque 3–4, petiolo gracili, 2–3 cm. longo; glandulae infrapetiolares 0. *Inflorescentia* pedunculata, pedunculo gracili foliis breviori apice subumbellatim 2–4-flore; pedicelli 1–2 cm. longi, fructiferi patuli vel deflexi; bractee lanceolatae, 3–5 mm. longae, persistentes. *Flores* ad 2 cm. expansi, rosei, macula purpurea ima basi alarum instructa. *Sepala* 2, late-ovata, acuminata, cuspidifera, 6–7 mm. longa, 5-nervia, basi truncata. *Vexillum* orbiculare vel late oblongum, 6–9 mm. diametro, muticum vel apiculatum, costa dorso carinata. *Alae* sessiles, 1.3–1.5 cm. longae; lobus basalis minutus, orbicularis, ima basi distali plus minusve incumbens; distalis amplius, trigono-dolabriformis, obtusus, auricula dorsalis obscura. *Labelli* parvi limbus orbicularis, apiculatus, 6–7 mm. diametro, horizontalis; calcar limbo dimidio brevius, obtusum. *Capsulae* anguste ellipsoideae, fere rectae, acute rostratae, vix stipitatae, polyspermae. *Semina* obovoidea vel globosa, compressa, 2–2.5 mm. longa, dense pubescentia.

TRAVANCORE. Periakanal: on a steep mossy embankment under trees, 1372 m. *A. Meebold*, 13,125; Devicolam, 1829 m. *A. Meebold*, 13,934.

XLIX.—DIAGNOSES AFRICANAE: XLV.

1291. *Crassula globosa*, *N. E. Brown* [Crassulaceae]; affinis *C. deltoideae*, Linn. f., sed foliis paucioribus subsphaeroideis supra appianatis dorso ecarinatis differt.

Herba carnosa, 5–6 cm. alta, caespitoso-ramosa? *Rami* foliiferi 1–1.5 cm. longi. *Folia* circa 6, conferta, sessilia, subglobosa, supra appianata, obtusissima, ecarinata, 1–1.2 cm. longa, 1.1–1.3 cm. lata, 0.9–1.1 cm. crassa, levia, glabra, subtessellato-glauca. *Pedunculus* terminalis, gracilis, 3–4.5 cm. longus, infra nudus, superne 3-ramosus, glaber. *Bractee* 1–2.5 cm. longae, 0.75–1 mm. latae, lanceolatae, acutae, puberulae. *Flores* perparvi, 2.5 mm. longi, ellipsoidei,