

TWO NEW GRASSES

by

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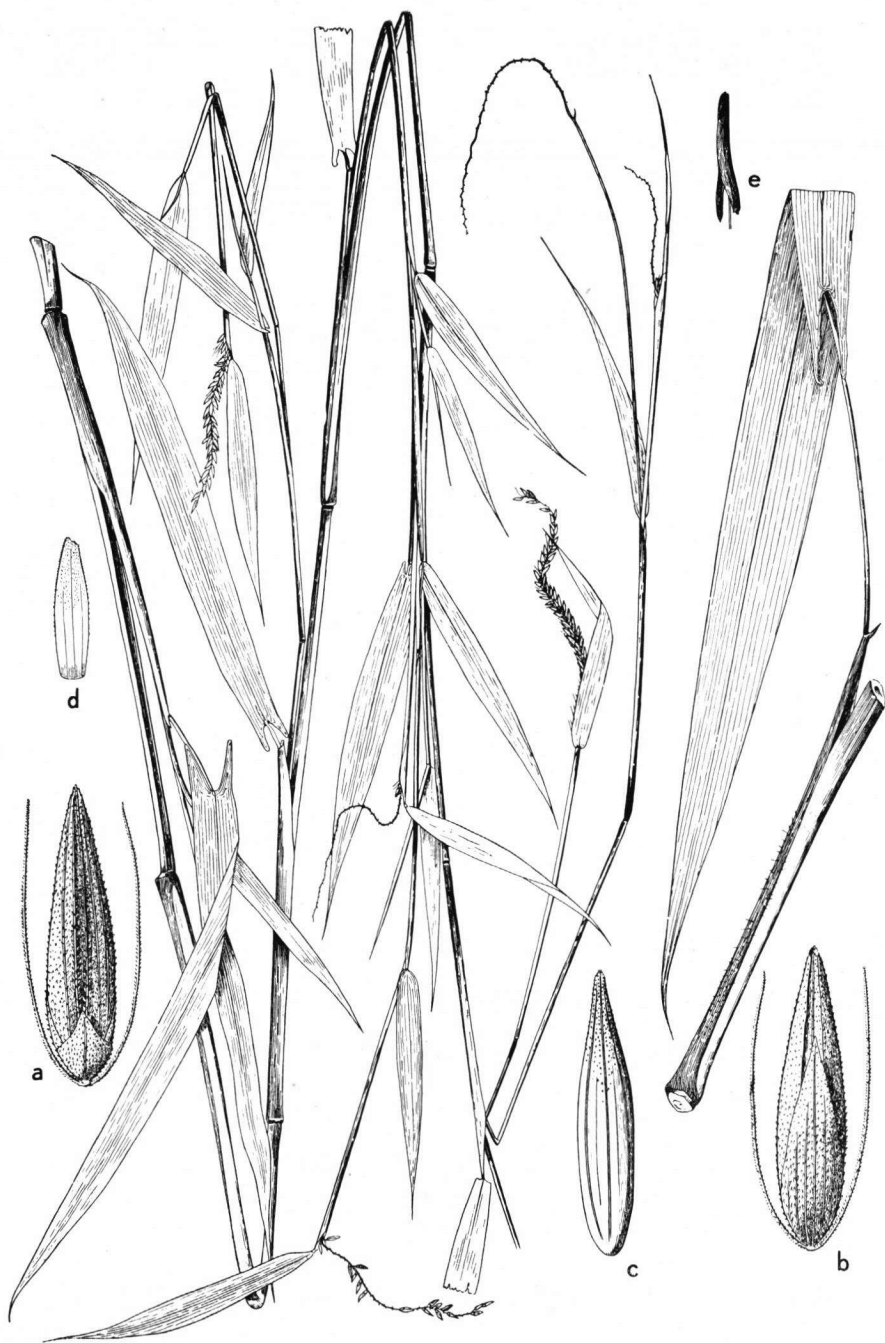
(Leyden).

Pennisetum sagittatum HENR. nov. spec. — Perenne. Culmi erecti, superne ramosi, ramis implicatis, plus quam 1 m alti, teretes, inferne circa 1 cm crassi, glaberrimi, minute striatuli, straminei, internodia superne violascentia, culmi apicem versus plus minusve angulati, nodi tumidi nigrescentes; vaginae compressae, internodiis breviores, striatae, inferiores sparse pilosae, pilis e basi tuberculato nigro, hiantes, mox a culmo solutae, superne sensim angustatae involutae, sensim in petolium longum attenuatae et loco ligularum in auriculis ad 4 mm longis productae, ligula breviter ciliata; petiolus foliorum longitudine varians, petioli inferiores saltem ad 10 cm longi, superiores sensim decrescentes, summi brevissimi vel nulli et tunc folia sessilia, compressi, 1.5 mm crassi, superne canaliculati; laminae inferiores foliorum petiolatorum valde sagittatae, lobis ad 2.5 cm longis, obtusis, apice incrassatis, nervis sigmoideis, ut in figura demonstravit, laminae propriae inferiores e basi plus quam 1 cm lati, sensim late lanceolatae, circa 25 cm longae, in medio circa 2.5 cm latae, superne sensim angustatae et longe setaceo-acuminatae, multinervosae, supra virides, nervo mediano lato stramineo praeditae, glabrae, subtus pallide glaucae, minute adpresse puberulae, laminae superiores sensim decrescentes, summae haud sagittatae sed e basi rotundato lineari-lanceolatae, eae ramorum 6—8 cm longae, 1 cm vel minus latae. Inflorescentiae e ramorum lateraliu erumpentes longe tenuiter pedunculatae, pedunculo subangulato striato, vix $\frac{1}{2}$ mm crasso, panícula subsimplex, angusta, ad 6 cm longa cum spiculis vix 5 mm lata, rhachis angulosus, subflexuosus, spiculae solitariae vel subbinae, sessiles, a basi setis paucis gerentes, setae scabrae, spiculis aequilongae. Spiculae circa 4 mm vel paulo plus longae, circ. 1 mm latae, lineari-lanceolatae, valde asperulae, gluma Ia uninervia, triangulari-rhomboidea vix 1 mm longa, hyalina, gluma IIda spiculam circa $\frac{2}{3}$ aequans, sub-7-nervis, nervis parallelis, lateralibus haud percurrentibus,

gluma IIIa (lemma sterilis) valde asperula, 5-nervia, spiculam aequans, subobtusa apice angustata et leviter emarginata, in axilla epaleata vel paleam lineari-lanceolatam circa 2 mm longam 3 nervatam inferne glabram superne puberulam fovens, gluma IVa (lemma fertilis) 3-nervata vel leviter 5-nervata, nervis duabus minutis intermixtis, longitudine spiculam, inferne glabra, superne asperula, apice angustata leviter subinvoluta, palea aequilonga, antherae 3 cum filamentis brevissimis circa 2 mm longae, sagittatae. Caryopsis ignota.

B o l i v i a. La Florida (Sur Jungas) 1700 m. s. m. planta perennis 2—3 m altitudine. 4 fébr. 1932 leg. L. R. PARODI no. 10069. Typus speciei in Herb. Lugd. Bat. sub no. 933.48—180.

Pseudoraphis Balansae HENR. nov. spec. — Planta aquatica perennis, rhizomatibus in solo limoso longe repentibus, angulatis, ramosis ex omnibus nodis inferioribus radicanibus; rami erecti vel adscendentes, a basi squamis aphyllis pubescentibus tecti, nodis inferioribus valde congestis, internodia inferiora obtecta, squamulae basilares gradatim longiores, striatae, brevifoliae, limbi foliorum $\frac{1}{2}$ — $1\frac{1}{2}$ cm longi, plani; culmi tenui, erecti, probabiliter submersi, internodiis gradatim longioribus $4\frac{1}{2}$ cm longis, deinde sensim accrescentibus superne ad 10 cm longis, in sicco vix $\frac{1}{2}$ mm crassis, vaginis arctis leviter pubescentibus internodiis multo brevioribus, laminis angustis vel angustissimis, 2—3 cm longis, vix $\frac{1}{2}$ mm latis praeditis; partes ultimae plantarum ramosae, culmi vaginis obtekti, vaginae internodiis longiores, compressae, carinatae, multistriatae, nervis scabris, superne in auriculas acutas productae, auriculae lateraliter cum ligula connatae, ligula membranacea, albida, obtusa vel sublacera, haud ciliata; vaginae distichae, equitantes, nodi glabri, folia verisimiliter ut in *Glyceria* natantia, linearia, basi rotundata circa aequilata, $2\frac{1}{2}$ —3 cm longa, 2— $2\frac{1}{2}$ mm lata, sensim paullo angustata, apice rotundato-obtusa, laete viridia, nervo mediano crassiusculo praedita, nervis secundariis numerosis, marginibus leviter incrassatis. Inflorescentiae in summitate ramorum e vaginis breviter emergentes, pedunculo ad 4 cm longo ad 2 cm exerto, panícula valde reducta, simplex linearis, spiciformis, 4 cm longa, 3—5 mm lata, e spiculis paucis (6—8) composita, rhachi subflexuosa, ramulis brevissimis unispiculatis vel bispiculatis, spiculis singula seta spicula duplo longiore, subflexuosa, scabra fultis, spiculae subsessiles vel breviter pedicellatae, seta persistens, circa 8—9 mm longa, vel interdum longior; spiculae lineari-lanceolatae, subacutae, circa $4\frac{1}{2}$ —5 mm longae, 1 mm vel paullo plus latae, sub lente fortiore minute strigillosae, gluma inferior rotundata, parva, enervis, ea spicularum ultimarum haud rara multo longior,



Pennisetum sagittatum HENR. — Whole plant about half nat. size.

a. spikelet in front; b. spikelet from the back; c. fertile lemma;

d. lower neutral floret; e. stamen. (all $\times 10$).



Pseudoraphis Balansae HENR. — Whole plant about half nat. size.
 a. spikelet in front; b. spikelet from the back; c. lower ♂ floret in front;
 d. id. from the back with included stamens; e. upper ♀ floret in front;
 f. stamen (all parts about $\times 10$).

gluma IIa bene evoluta, spicula paullo brevior vel $\frac{3}{4}$ spiculae aequans, superne sensim angustata ligulaeformis, apice oblique truncata vel obtusa vel scariosa, circa 7-nervia, nervis prominulis 3 excurrentibus, nervis 4 intermediis brevioribus, gluma IIIa (lemma sterilis) spiculam aequans, multinervosa (11—12-nervis), nervo mediano haud bene evoluto, apice obtusa, truncata; flos inferior in axillam glumae tertiae masculinus, spiculam aequans, lineari-lanceolatus, glaber, apice excavatus, bicornutus, cornis inflexis, stamina 3 filamentis brevissimis, 4 mm longa, a basi breviter apice longiter sagittata, lodiculae parvae enerviae, glabrae, palea deest; flos superior femineus, multo brevior, circa 2.3 mm longus, lanceolatus, vix nervatus, glaber, apice rotundatus vel obtusus, integer; styli 2, filamenta haud evoluta, staminodia tantum (?), caryopsis matura non vidi.

A n n a m: Tourane, dans les flaques d'eau, 25 octobre 1886. Specimina multa legit B. BALANSA in Herb. Lugd. Bat. typus speciei sub no. 908.85—1414 et 1415.