

staminate flowers. From the latter it differs in the longer petiolate larger and less deeply furcate leaf, the few long rachillæ of the spadix and the larger staminate flowers.

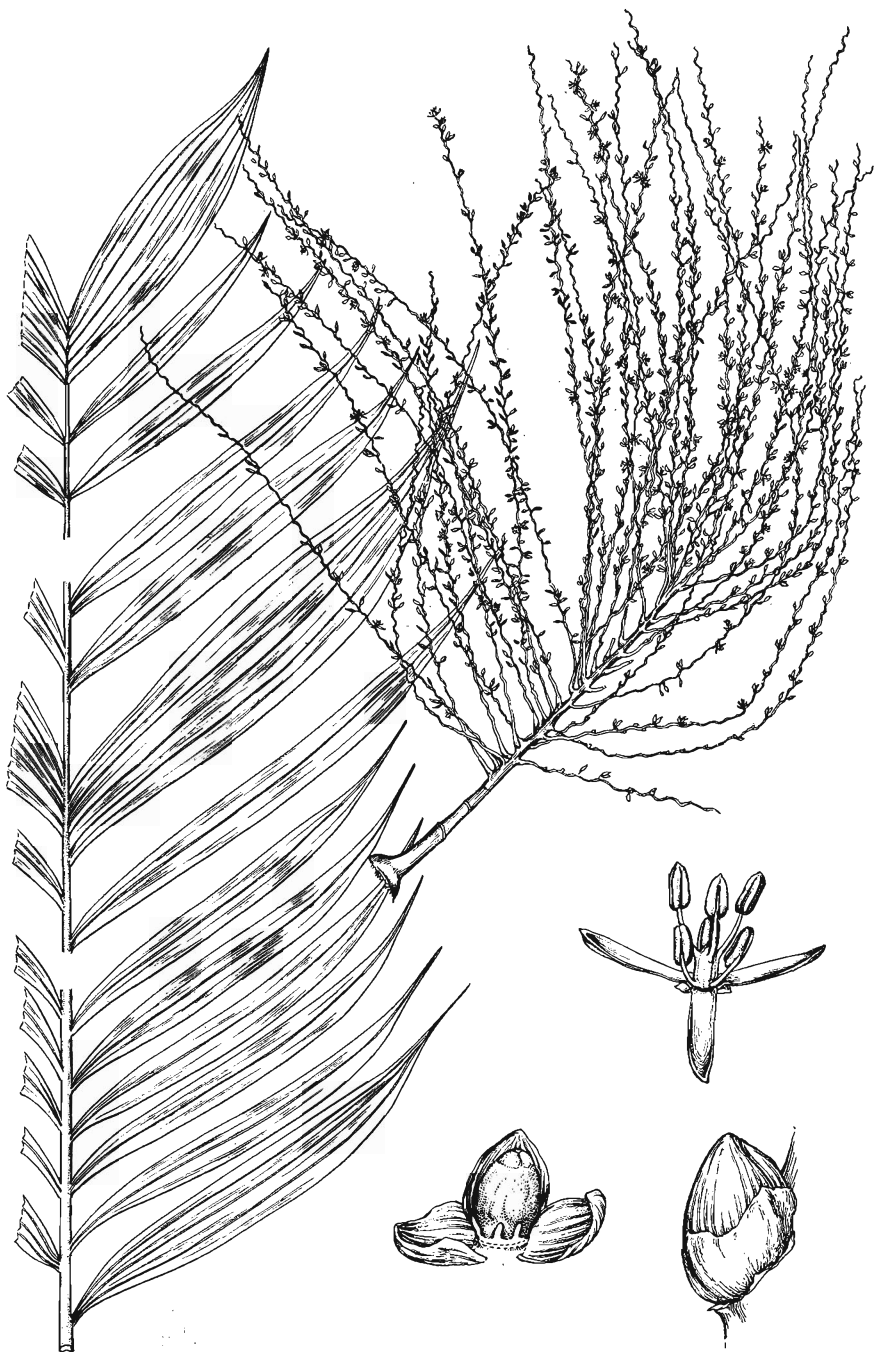
† *Hyospathe pallida*, H. E. Moore, spec. nov. Fig. 84.

Arbor gracilis: folia 1.5 m. longa, pinnata; pinnæ supra griseo-virides et glabræ, subtus pallidiores et nervis lepidotæ, lanceolato-falcatæ, 25-40 cm. longæ, infimæ 4 cm. latæ nervis primariis 3, mediæ 2.5-3 cm. latæ nervis primariis singulis cum jugo centrali 8-9 cm. lato, 4-5-nervato interjecto, supremæ 5-nervatæ, 5 cm. latæ: spadix simpliciter 25-40-ramosus, pedunculo 5-5.5 cm. longo, rachi 7.5-11.5 cm. longa, rachillis ad 23 cm. longis: flores flavidi; flores staminati elongati, pedicellati, calyce minuto trilobato, petalis linearis 4 mm. longis, staminibus 6 conspicue biseriatis; flores pistillati sessiles, ovoidei, calyce cupulato trilobato, petalis ovatis 2 mm. longis, staminodiis 5-6, ligulatis, pistillo ovoideo, stigmatibus sessilibus terminalibus: fructus ignotus.

Caulescent, slender: leaves 1.5 m. long (fide Schultes), pinnate; sheath and petiole gray-green, sparsely brown-lepidote, striate; blade incomplete, received in three fragments, those portions of the rachis seen totalling 72 cm. in length with 11-13 pinnæ on each side; pinnæ opposite or sub-opposite, gray-green and glabrous above, slightly paler with brown-lepidote nerves below, lanceolate, falcately tapered to an acuminate apex, 25-40 cm. long, the lowest 4 cm. wide with 3 primary nerves, the intermediate 2.5-3 cm. wide and 1-nerved with an interjected central pair 8-9 cm. wide having 4-5 primary nerves, the terminal 5 cm. wide and 5-nerved: spadix 25-40-branched; peduncle 5-5.5 cm. long, two-ringed; spathes not seen; rachis 7.5-11.5 cm. long; rachillæ simple, gray-granular-puberulent, ascending, very slender and somewhat flexuous, the lower 21-23 cm. long, the upper little shorter, about 1 mm. wide and only slightly enlarged at the base: flowers yellow (fide Schultes), in groups of 3 along the rachillæ with a single pistillate between 2 staminate below, staminate above, staminate flowers elongate, on pedicels 0.5-1 mm. long, calyx minute, 3-lobed the lobes acute, petals valvate, glabrous, linear, about 4 mm. long, stamens 6, two-ranked, those opposite the petals longer and inserted near the apex of the cylindric pistillodium; pistillate flowers ovoid, sessile, calyx cupular, 1.2 mm. high, minutely-granular, 3-lobed, petals imbricate below, valvate at apex, ovate, 1.6-2 mm. long, staminodia 5-6, ligulate, pistil ovoid, stigmas sessile, terminal: fruit not known.

Colombia, Putumayo, Uchupayaco, en la planada entre Urcusique y Umbria en las orillas del Río Uchupayaco, altitude 300 m., February 22-23, 1942, *R. E. Schultes 3291*.

There is a marked resemblance between the spadices of this collection and those portrayed in the photograph of the type of *Hyospathe filiformis*, Wendl. ex Drude (Field Museum negative 18527) except that the apical rachillæ are nearly as long as the basal. The terminal rachillæ of the Martius collection cited by Wendland are as little as half as long as the



84. *HYOSPATHE PALLIDA*. Portions of leaf $\times \frac{1}{6}$; spadix $\times \frac{1}{3}$; staminate flower $\times 4$; pistillate flower expanded $\times 8$.

basal. Flower-buds compare closely in size and shape. The leaf of the present material, however, is wholly different, being much more like that of *H. Lehmannii*, Burret, while that described by Wendland is essentially the leaf of *H. elegans*, Mart. New collections from the type area are needed to clarify the species and ascertain whether Wendland had leaf and spadix from the same plant.

Hyospathe pallida is closely allied to *H. gracilis*, Wendl., from which it differs in the larger spadix and interposed 2-3-nerved pinnæ, and to *H. Lehmannii* from which it differs in the short peduncle and numerous spadix branches with yellow not deep red buds.

† *Synechanthus mexicanus*, Bailey in herb., spec. nov. Fig. 85.

Planta acaulis: folia interrupte pinnata, ca. 2 m. longa; pinnæ utrinsecus 10, inferne alternæ, superne in jugis suboppositis dispositæ, linearilanceolatae, 38-44.5 cm. longæ, 2-3 cm. latæ, nervis primariis singulis præter unum jugum terminale latius 6-nervatum: spadix longipedunculatus, 20-25-ramosus; spathis 5, tubulosis, rachillis (5)-14-26 cm. longis, rachillis infimis 1-2-furcatis, rachillis supremis simplicibus: flores ca. 1 mm. alti, staminati depressi et angulosi, pistillati ovoidei: fructus globosus vel depresso globosus, 12 mm. crassus, aurantiacus, in siccatione nigrescens, albumine plano.

Acaulescent: leaves interruptedly pinnate, about 2 m. long (fide Hernandez & Sharp); petiole and sheath glabrous, finely striate; rachis 78 cm. long, glabrous, greenish-brown; pinnæ glabrous, gray-green and dull above, darker with yellowish nerves below, 10 on each side, the lower alternate at intervals of 9-10 cm., the upper in subopposite pairs at intervals of 5.5-7 cm., linear-lanceolate, falcately tapered on the lower margin to a slender apex, 38-44.5 cm. long, 2-3 cm. wide at the middle with 1 primary nerve and 2 secondary nerves on each side, the terminal pair 6-nerved, 13.5-14.5 cm. along the rachis, about 6.5 cm. wide at apex of rachis, 43-45 cm. long on midvein, 35-38 cm. long on the straight upper margin, falcately tapered on the lower margin to a short-acuminate tip: spadix 20-25-branched; peduncle to 120 cm. long, 1 cm. wide and somewhat flattened at the base, 5 mm. wide and nearly terete at apex; spathes 5, tubular, the outer short, the inner 25-60 cm. long and closely investing the peduncle; rachis 14.5-25.5 cm. long; rachillæ ascending, slender, flexuous, spinose-tipped, minutely granular, (5)-14-26 cm. long, the lower 1-2-furcate, the upper simple: flowers 5-9 in distichous acervuli, conspicuously dark-nerved, the lowermost pistillate, the remainder staminate; pistillate flowers ovoid in bud, calyx 0.4-0.6 mm. high, cupular, 3-lobed, the lobes more or less erose, petals imbricate below, valvate at the apex, broadly ovate, 0.8-1 mm. high and about as wide, staminodia absent, pistil ovoid in general outline, about 0.6 mm. high, 3-angled at the base with small protuberances, stigmas sessile, terminal; staminate flowers depressed and angled in bud, sepals lanceolate, 0.6-0.8 mm. high, connate basally in a low ring, petals valvate, broadly ovate, 1-1.2 mm. long and about as wide, stamens 6, about two-thirds as long as the petals, pistillodium minute, 3-lobed: